SITE II TECUMSEPH PHASE II BUSINESS PARK

ERIE COUNTY, NEW YORK

Final Engineering Report

NYSDEC Site Number: C915198N

Also Designated as BCP SITE II-14 (C915198N)

Created from areas formerly assigned to BCP SITE II-6 (C915198F), BCP SITE II-8 (C915198H), and BCP SITE II-9 (C915198I)

Prepared for:

BUFFALO & EIRE COUNTY INDUSTRIAL LAND DEVELOPMENT CORPORATION
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BUFFALO, NEW YORK 14203

Prepared by:

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690 DELAWARE AVENUE
BUFFALO, NEW YORK 14209

APRIL 2025
(REVISION 0.1)

CERTIFICATIONS

I, Micheal F. Lydle, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program activities and I certify that the selected remedy/remedial action (construction of a cover system, also known as the Donna Street Extension) for the Phase II Business Park Sites II-6, II-8, and II-9 was implemented and that all construction activities were completed in substantial conformance with the Department-approved Site Management Plans), which includes the Excavation Work Plan For Tecumseh Phase II Business Park, NYSDEC) Site Numbers: C915198F, C915198H, and C915198I.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL) 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that any financial assurance mechanisms required by the Department pursuant to Environmental Conservation Law have been executed.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Micheal F. Lydle, PE, of 295 Main Street, Suite 200, Buffalo, New York, am certifying as Eire County's Designated Site Representative and I have been authorized and designated by Erie County to sign this certification for the Site.

070504	4/17/2025	Michael F. Lydle
NYS Professional Engineer #	Date	Signature

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LIST OF ACRONYMS

Acronym	Definition
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BMP	Best Management Practice
CAMP	Community Air Monitoring Plan
CPP	Community Participation Plan
DER	Division of Environmental Remediation
DPW	Department of Public Works
EC/IC	Engineering Control and Institutional Control
ECL	Environmental Conservation Law
ILDC	Buffalo & Erie County Industrial Land Development Corporation/Agency
HASP	Site Specific Health and Safety Plan
IRM	Interim Remedial Measure
ug/m^3	micrograms per cubic meter
NYSDEC	New York State Department of Environmental Conservation
NYS P.E.	New York State Professional Engineer
OSHA	Occupational Safety and Health Administration
RAO	Remedial Action Objective
SITE	Land Parcel C915198N (Site II-14)
SMP	Site Management Plan
SWPPP	Storm Water Pollution Prevention Plan
SRWT	South Return Water Trench
TurnKey	Turnkey Environmental Restoration, LLC

Final Engineering Report

1.0 BACKGROUND AND SITE DESCRIPTION

This Final Engineering Report is in response to an administrative amendment to the existing Brownfield Cleanup Program (BCP) Agreement and Amendment for Site Code C915198N, dated November 5, 2024, between the Buffalo & Erie County Industrial Land Development Corporation/Agency (ILDC) and New York State Department of Environmental Conservation (NYSDEC). This adjustment consists of the transfer of approximately 0.58 acres from Parcel C915198F (Site II-6), approximately 0.39 acres from Parcel C915198H (Site II-8), and approximately 1.23 acres from Parcel C915198I (Site II-9) to a newly created Parcel C915198N (Site II-14) of approximately 2.20 acres.

ILDC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in November 2024 to create a new parcel (C915198N), a 2.20-acre property located in the City of Lackawanna, New York. The property was remediated to commercial/industrial use standards and will be redeveloped with a paved public road with lighting, paved sidewalks, vegetated areas in the unpaved locations, surface water drainage inlets, and newly constructed storm sewers which connect to existing storm sewers. The existing storm sewers discharge partly to NYS Route 5 and partly to the surface water treatment devise prior to discharging to a return trench.

The Site is located in the County of Erie, New York and is identified as a portion of Block 1 and Lot 52.11 and Lot 3 on the Erie County Tax Map. The Site is situated in an approximate 2.20-acre area bounded by buildings and parking areas (TRS Packaging and Total Quality Assurance) to the north, unimproved property to the south, NY Route 5 to the east, and buildings and parking areas (Welded Tube USA) to the west (see Figure 1). The boundaries of the Site are fully described in Appendix A: Survey Map, Metes, and Bounds.

2.0 SUMMARY OF SITE REMEDY

2.1 Remedial Action Objectives

This report is for the administrative amendment of the BCP to create Parcel C95198N (Site II-14). This parcel does not have specific Remedial Action Objectives (RAOs). The RAOs for the construction of the remedial action (cover system) (known as the Dona Street Extension on Parcels C915198F, C915981H, and C915198I) are found in the following documents.

1. Decision Document, Site II-6 Tecumseh Phase II Business Park, BCP, Lackawanna, Erie County, Site ID No. C915198F, January 2017, by Division of Environmental Remediation (DER), NYSDEC.
2. Decision Document, Site II-8 Tecumseh Phase II Business Park, BCP, Lackawanna, Erie County, Site No. C915198H, December 2016, by DER NYSDEC.
3. Decision Document, Site II-9 Tecumseh Phase II Business Park, BCP, Lackawanna, Erie County, Site No. C915198I, December 2016, by DER, NYSDEC.

Implementation of the RAOs are documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo Engineers, Inc. (LiRo) (Appendix D).

2.1.1 Groundwater RAOs

There are no groundwater RAOs identified for new Parcel C915198N. The groundwater RAOs for Parcels C915198F, C915198H, and C915198I are as follows.

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.

RAOs for Environmental Protection

- Remove the source of ground or surface water contamination.

2.1.2 Soil RAOs

There are no soil RAOs identified for new Parcel C915198N. The soil RAOs for parcels C915198F, C915198H, and C915198I are as follows.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bio-accumulation through the terrestrial food chain.

2.1.3 Surface Water RAOs

There are no surface water RAOs identified for new Parcel C915198N. The Decision Documents for parcels C915198F, C915198H, and C915198I did not identify RAOs for surface water.

2.1.4 Sediment RAOs

There are no sediment RAOs identified for new Parcel C915198N. The Decision Documents for parcels C915198F, C915198H, and C915198I did not identify RAOs for sediment.

2.2 Description of Selected Remedy

There is no formal selected remedy for Parcel C915198N (Site II-14). However, the Decision Documents for Parcels C915198F (Site II-6), C915198H (Site II-8), and C915198I (Site II-9) have a selected remedy consisting of a Site Cover with Institutional Controls (ICs).

The Dona Street Extension cover system (now part of C915198N) consists of a paved road and sidewalks and a demarcation area with a one foot thick cover composed of six inches top soil underlain by six inches of clean fill, with a vegetative cover installed in the unpaved areas.

The Site was remediated in accordance with the elements of the selected remedy by the NYSDEC in the Decision Documents dated January 2017 for C915198F (Site II-6), December 2016 for C915198H (Site II-8) and C915198I (Site II-9), and the remedial action (cover system) documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D). The requirement of the SMP is satisfied by executing the existing SMPs dated January 2014 for Parcel C915198F (Site II-6), December 2020 (Revised 12-10-2020) for Parcel C95198I (Site II-9), and December 2022 for Parcel C915198H (Site II-8).

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS, AND REMEDIAL CONTRACTS

There are no interim remedial measures (IRMs), operable units, or separate construction contracts for the administrative adjustment to create Parcel C915198N. However, a cover system was installed as part of the Dona Street Extension construction and documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

The information and certifications made in the November 2020 Construction Completion Report for BCP Parcels C915198H and C915198I were relied upon to prepare this report and certify that the remediation requirements for the Site have been met.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

There are no formal remedial actions for Parcel C915198N. However, a remedial cover system was constructed as part of the Dona Street Extension and documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Decision Documents for Parcel C915198F (Site II-6) dated January 2017, for Parcel C915198H (Site II-8), dated December 2016, and for Parcel C915198I (Site II-9), dated December 2016 and the Initial Project Proposal / Final Design Report, Dona Street Extension for the Dona Street Extension Site, dated May 2018. All deviations from the documents are noted below.

4.1 Governing Documents

The installation of the existing surface cover system and summary of prior IRMs are certified by a NYS P.E. Engineer, documented and summarized in the Construction Completion Report for BCP Parcels C915198H and C915198I, dated November 2020, and prepared by LiRo.

The governing documents for the construction of the Dona Street Extension are listed below and associated remedial actions were performed in accordance with the following controlling documents.

1. Initial Project Proposal / Final Design Report, Dona Street Extension, Lackawanna, NY, LiRo Project #17-162-0134, dated: May 9, 2018, by LiRo.
2. The LiRo Employee, Project Specific Health and Safety Plan (HASP), Erie County Department of Public Works (DPW) – Dona Street Extension, Dona Street/Hamburg Turnpike, Lackawanna, NY, LiRo Project #17-162-0134, Version: 2.0, dated: March 2018, by LiRo.
3. BCP, Interim Excavation Work Plan, Phase II Business Park Area, Lackawanna, New York, Project # 0071-013-310, dated February 2013 and Revised March 2013, and prepared by TurnKey Environmental Restoration, LLC (TurnKey).
4. NYSDEC, Stormwater Pollution Prevention Plan (SWPPP) for Dona Street Extension, Lackawanna, NY, dated August 2018 and Revised December 2018, and prepared by LiRo.

5. Community Air Monitoring Plan(s) (CAMP) dated November 2020 and prepared by LiRo.
6. Decision Document, Site II-8 Tecumseh Phase II Business Park, BCP, Lackawanna, Erie County, Site No. C915198H, dated December 2016, and prepared by DER, NYSDEC.
7. Decision Document, Site II-9 Tecumseh Phase II Business Park, BCP, Lackawanna, Erie County, Site No. C915198I, dated December 2016, and prepared by DER, NYSDEC.
8. Decision Document, Site II-6 Tecumseh Phase II Business Park, BCP, Lackawanna, Erie County, Site ID Nos. C915198F, dated January 2017, and prepared by DER NYSDEC.
9. SMP, BCP, Tecumseh Phase II Business Park, NYSDEC Site Nos. C915198 through C915198L, Lackawanna, New York, dated January 2014, and prepared by TurnKey.

4.1.1 Site Specific Health and Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal Occupational Safety and Health Administration (OSHA).

The HASP was complied with for all the remedial and invasive work performed at the Site. (See "The LiRo Employee, Project Specific HASP, Erie County DPW – Dona Street Extension, Dona Street/Hamburg Turnpike, Lackawanna, NY", dated March 2018, prepared by LiRo, and "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo.)

4.1.4 Site Management Plan (SMP)

The requirement of the SMP is satisfied by executing the existing SMP dated January 2014 and documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D)

4.1.5 Storm Water Pollution Prevention Plan (SWPPP)

The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the NYS Guidelines for Urban Erosion and Sediment Control and the site-specific SWPPP.

SWPPP requirements are found in the "NYSDEC, SWPPP for Dona Street Extension, Lackawanna, NY", dated August 2018 and revised December 2018, and

prepared by LiRo and documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.1.6 Community Air Monitoring Plan (CAMP)

The CAMP was prepared and completed by LiRo and documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo and documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.1.8 Community Participation Plan (CPP)

Community Participation Plans (CPPs) are summarized in: the Decision Document Site II-6, Tecumseh Phase II Business Park, BCP, Lackawanna, Erie County, Site ID Nos. C915198F, dated January 2017, and prepared by DER NYSDEC; the Decision Document Site II-8 Tecumseh Phase II Business Park, BCP, Lackawanna, Erie County, Site No. C915198H, dated December 2016, and prepared by DER NYSDEC; and, Decision Document, Site II-9 Tecumseh Phase II Business Park, Brownfield Cleanup Program, Lackawanna, Erie County, Site No. C915198I, dated December 2016, and prepared by DER NYSDEC.

4.2 Remedial Program Elements

Remedial Program elements are summarized and documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.2.1 Contractors and Consultants

Contractors and Consultants are summarized/documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.2.2 Site Preparation

Site preparation activities are summarized/documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.2.3 General Site Controls

General Site Control activities are summarized/documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.2.4 Nuisance Controls

Nuisance control activities are summarized/documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.2.5 CAMP Results

Community air monitoring was performed during times of intrusive activity excluding dates where precipitation mitigated emissions and precluded monitor setup. Per the CAMP, action limits of 100 micrograms per cubic meter (ug/m^3) for respirable particulates and 5 parts per million (ppm) for organic vapors were employed. No exceedances of the CAMP action levels were recorded during the Work.

The CAMP results are summarized/documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.2.6 Best Management Practices (BMPs)

Best Management Practices (BMPs) (reuse of excavated soils on-site) are summarized and documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.2.7 Reporting

Reporting of construction activities are found in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.3 Contaminated Materials Removal

As per the project plans, all excavated/removed material from within the BCP work areas remained on-site in a NYSDEC-approved spoil area. The material was spread in lower-lying areas in a layer approximately 6 inches thick and was then hydroseeded.

Summaries with supporting documentation for on-site reuse of soils are provided in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.4 Imported Backfill

The following materials and quantities were imported, with NYSDEC approval, to the Site for the cover system and to support the redevelopment plan.

- Clean soil embankment and topsoil material (approximately 5,800 cubic yards) from the Brush Mountain Community Center Construction Project in Orchard Park was imported with NYSDEC imported fill approval. This material was used for roadway grading, clean fill in the utility trench, and for topsoil.
- Approximately 5,000 tons of crushed stone for roadway subgrades and utility trenches were imported from County Line Stone in Akron, New York.

Imported backfill materials are summarized and documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

4.5 Contamination Remaining at the Site

Based upon the Decision Documents for Parcels C915198F (Site II-6), C915198H (Site II-8), and C915198I (Site II-9), contaminated soil and groundwater remain beneath the Site after completion of selected remedy (cover system); therefore, ICs and ECs are required to protect human health and the environment. These ECs/ICs are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the existing SMP dated January 2014 and approved by the NYSDEC.

4.6 Soil Cover System

The cover system consists of paved areas (the roadway and adjacent sidewalk) as well as unpaved areas where clean soil cover was placed. A trench was excavated and filled with clean soil. The clean-soil trench was installed to facilitate future utilities installations.

The construction of the cover system is summarized/documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D) and shown on Figure 4.

Exposure to remaining contamination in soil/fill at the Site is prevented by a soil cover system placed over the Site. This cover system is comprised of a minimum of 12 inches of clean soil, asphalt pavement, and concrete-covered sidewalks. Figure 3 shows the as-built cross sections for each remedial cover type used on the Site. Figure 3 shows the location of each cover type built at the Site.

4.7 Other Engineering Controls (ECs)

There are no other EC systems for the Parcel C915198N (Site II-14) beyond the aforementioned cover system.

Procedures for monitoring, operating, and maintaining the cover system are provided in the SMPs dated January 2014, December 2020, and December 2020 (revised December 10, 2020).

4.8 Institutional Controls (ICs)

The Site remedy requires that an environmental easement be placed on the property to: (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to commercial/industrial uses only.

The environmental easement for the Sites C915198F, C915198H and C915198I was executed by the Department on June 26, 2014, and filed with the Erie County Clerk on July 15, 2014. The County Control and Transaction numbers for this filing are

2014137591 and 14107868, respectively. A copy of the easement and proof of filing is provided in Appendix C.

4.9 Deviations from the Remedial Action Work Plan

Deviation from controlling documents are summarized/documented in the "Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo (Appendix D).

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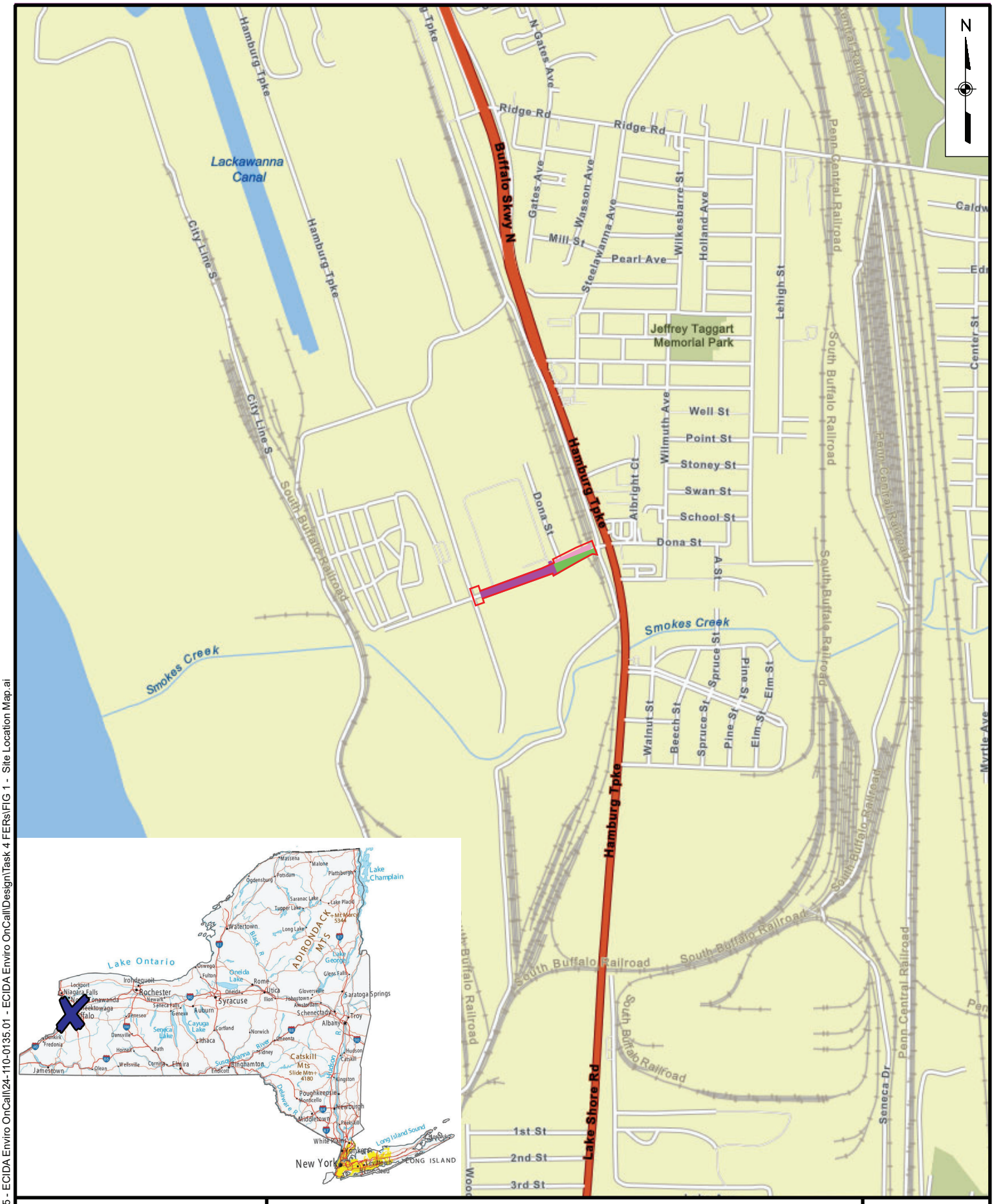
FIGURE 1 - PROJECT LOCATION MAP

FIGURE 2 – SITE PLAN

FIGURE 3 – AERIAL PHOTOGRAPH WITH LOCATION OF PARCEL C915198N

FIGURE 4 - FINAL COVER MATERIAL SITE PLAN



V:\ECIDA\24-110-0135 - ECIDA Enviro OnCall\24-110-0135.01 - ECIDA Enviro OnCall\Design\Task 4 FERs\FIG 1 - Site Location Map.ai

LiRo-Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

SITE LOCATION MAP
SITE II TECUMSEH PHASE II BUSINESS PARK
NYSDEC SITE NUMBER C915198N

FIGURE NO.

1

TOTAL AREA OF DONA STREET = ±2.20 ACRES
AREA FROM BCP SITE NO.
C915198H = ±0.39 AC.
C915198F = ±0.58 AC.
C915198I = ±1.23 AC.

N

SITE 11–8

EXISTING BCP SITE
C915198N (SITE II–14)
SEED PARCEL

BCP SITE
NO. C915198H

AHB

SITE 11–9

BCP SITE
NO. C915198I

AHB

DONA STREET EXTENSION

AHB

PORTION OF BCP SITE
C915198I (SITE II–7) TO BE
ADDED TO BCP SITE 915198N
(SITE II–14)

BCP SITE
NO. C915198G

SITE 11–7

BCP SITE
NO. C915198F

SITE 11–6

PORTION OF BCP SITE
C915198F (SITE II–6) TO BE
ADDED TO BCP SITE 915198N
(SITE II–14)

AHB

HAMBURG TURNPIKE

DONA STREET

AHB

0 60 120 180 FT
1" = 60' SCALE BAR

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NO.	DATE	DESCRIPTION
REVISIONS		

LiRo Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

Erie County Department of Public Works - Division of Highways
95 Franklin Street - 14th Floor
Buffalo, New York 14202

SITE II TECHUMSEH PHASE II BUSINESS PARK - NYSDEC NUMBER C915198N (SITE II-14)

SITE PLAN

Sheet No. 2 of 4
Date March 2025
Scale As Noted
FIGURE: 2

N

0 60 120 180 FT

1" = 60' SCALE BAR

LiRo Engineers, Inc.
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Buffalo, New York

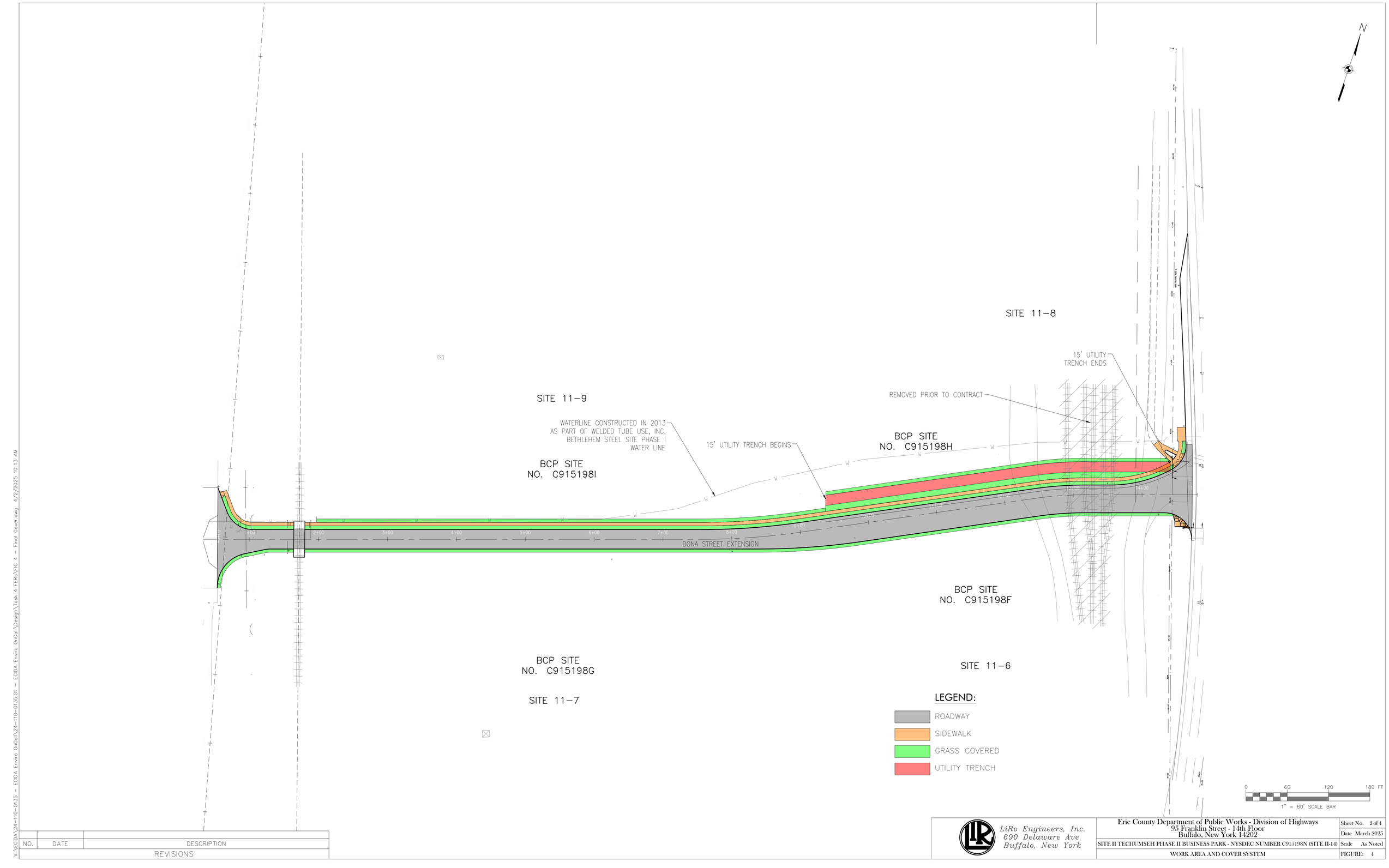
Erie County Department of Public Works - Division of Highways
95 Franklin Street - 14th Floor
Buffalo, New York 14202

Sheet No.	3 of 4
Date	March 2025
Scale	As Noted
FIGURE:	3

SITE II TECHUMSEH PHASE II BUSINESS PARK - NYSDEC NUMBER C915198N (SITE II-14)

AERIAL PHOTOGRAPH WITH LOCATION OF PARCEL C

V:\ECIDA\24-110-0135 - ECIDA Enviro OnCall\24-110-0135.01 - ECIDA Enviro OnCall\Design\Task 4 FERs\FIG 3 - Aerial.dwg 4/2/2025 10:09 AM



NO.	DATE	DESCRIPTION
REVISIONS		

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Erie County Department of Public Works - Division of Highways
95 Franklin Street - 11th Floor
Buffalo, New York 14202

SITE II TECHUMSEH PHASE II BUSINESS PARK - NYSDEC NUMBER C915198N (SITE II-14)

WORK AREA AND COVER SYSTEM

Sheet No. 2 of 4
Date March 2025
Scale As Noted
FIGURE: 4

V:\ECDA\24-110-0135 - ECDA Enviro OnCall\24-110-0135.01 - ECDA Enviro OnCall\Design\Task 4 FERs\FIG 4 - Final Cover.dwg 4/2/2025 10:13 AM

LIST OF APPENDICES

APPENDIX A - Survey Map, Metes, and Bounds

APPENDIX B - Digital Copy of the FER (CD)

APPENDIX C - Environmental Easement

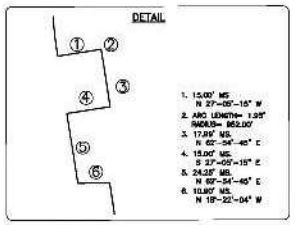
APPENDIX D - Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo

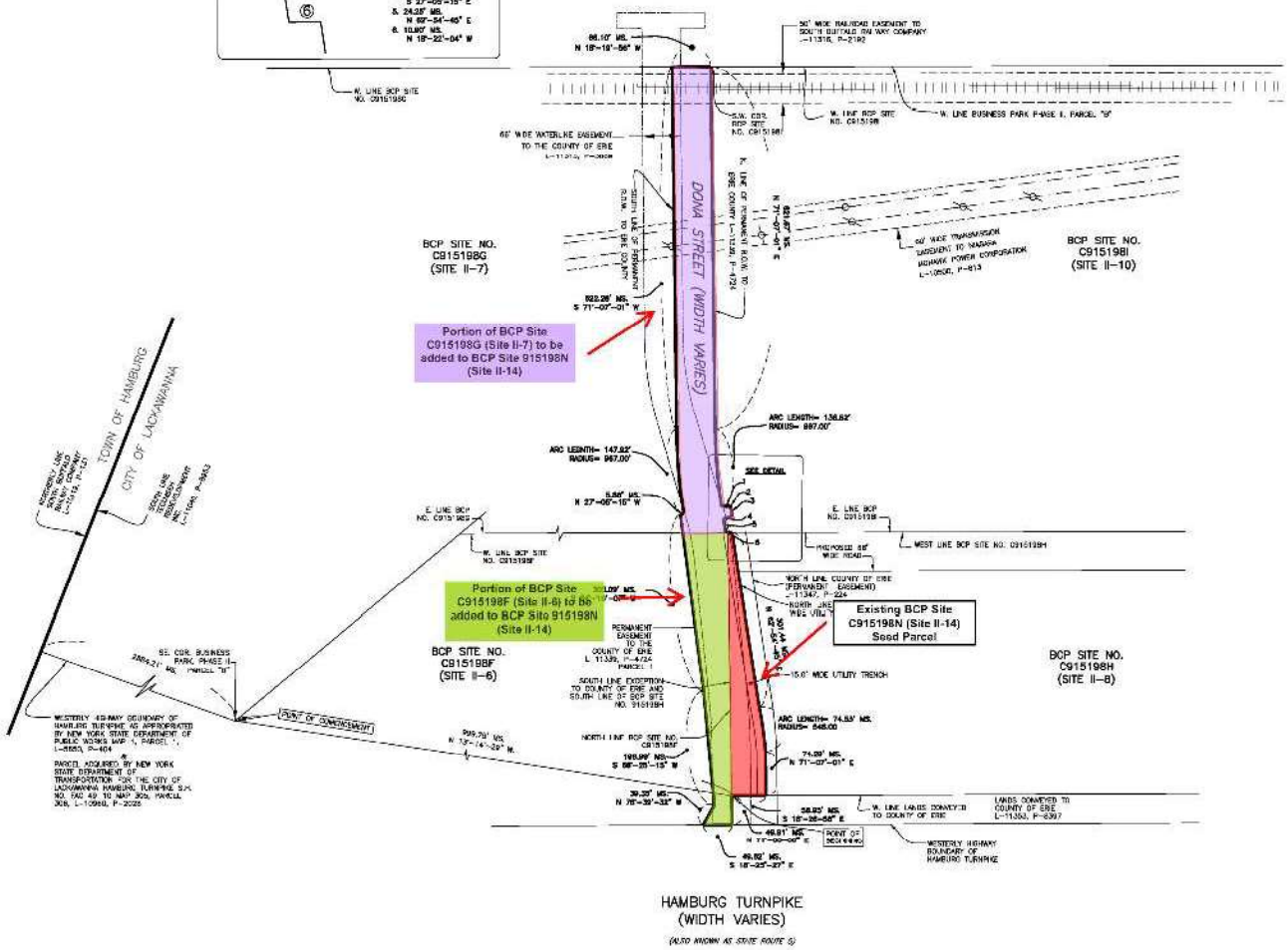
APPENDIX A

Survey Map, Metes, and Bounds

Schedule A-1

TOTAL AREA OF DONA STREET
= ±2.20 ACRES
AREA FROM BCP SITE NO.
C915198H = ±0.39 AC.
C915198F = ±0.58 AC.
C915198G = ±1.23 AC.





PROPOSED DESCRIPTION FOR DONA STREET BCP SITE

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF LACKAWANNA, COUNTY OF ERIE AND STATE OF NEW YORK, BEING PART OF LOT 24, TOWNSHIP 10, RANGE 8, OF THE SWITZER'S STEEN RESERVATION, ALSO BEING PART OF EXISTING BCP SITE NUMBER C915198H, C915198G AND C915198F AS SHOWN ON A MAP OF "BUSINESS PARK PHASE II" PREPARED BY WENDEL, JUNE 2012, PROJECT NUMBER 417.02, AS AMENDED BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT IN THE WESTERLY HIGHWAY BOUNDARY OF THE HAMBURG TURNPIKE (ALSO KNOWN AS STATE ROUTE NO. 5), BEING 2,884.21 FEET NORTH OF THE SOUTH LINE BETWEEN LANDS CONVEYED TO TECUMSEH REDEVELOPMENT INC. RECORDED IN THE ERIE COUNTY CLERK'S OFFICE IN LIBER 11040 OF DEEDS AT PAGE 9958 ON THE NORTH, AND LANDS CONVEYED TO SOUTH BUFFALO RAILWAY COMPANY RECORDED IN THE ERIE COUNTY CLERK'S OFFICE IN LIBER 11015 OF DEEDS AT PAGE 131 ON THE SOUTH, AS MEASURED ALONG THE WESTERLY HIGHWAY BOUNDARY OF THE HAMBURG TURNPIKE AS APPROPRIATED BY NEW YORK STATE DEPARTMENT OF PUBLIC WORKS MAP 1, PARCEL 1, RECORDED IN THE ERIE COUNTY CLERK'S OFFICE IN LIBER 8858 OF DEEDS AT PAGE 404; ALSO BY NEW YORK STATE DEPARTMENT OF TRANSPORTATION FOR THE CITY OF LACKAWANNA, SUL NO. FAC 49-10, MAP 305, PARCEL 305, RECORDED IN THE ERIE COUNTY CLERK'S OFFICE IN LIBER 10960 OF DEEDS AT PAGE 3028, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF SAID BUSINESS PARK PHASE II, PARCEL "B";

THENCE ALONG A LINE N 13°-14'-29" W, A DISTANCE OF 999.76 FEET, TO THE POINT OF BEGINNING, SAID POINT BEING ON THE WEST LINE OF LANDS CONVEYED TO THE COUNTY OF ERIE AS RECORDED IN THE ERIE COUNTY CLERK'S OFFICE IN LIBER 11353 OF DEEDS AT PAGE 6397, SAID POINT ALSO BEING THE NORTHEAST CORNER OF BCP SITE NUMBER C915198F;

THENCE N 71°-07'-01" E ALONG THE NORTH LINE OF BCP SITE NUMBER C915198F, A DISTANCE OF 49.81 FEET, TO A POINT, SAID POINT BEING ON THE EAST LINE OF BCP SITE NUMBER C915198F AND THE WESTERLY LINE OF THE HAMBURG TURNPIKE;

THENCE ALONG THE WESTERLY LINE OF THE HAMBURG TURNPIKE, S 18°-22'-27"E, A DISTANCE OF 48.62 FEET TO A POINT;

THENCE THROUGH THE LANDS KNOWN AS BCP SITE NUMBER C915198F, N 78°-38'-32"W, A DISTANCE OF 39.35 FEET TO A POINT;

THENCE CONTINUING THROUGH SAID LANDS, S 65°-25'-15"W, A DISTANCE OF 195.99 FEET TO A POINT;

THENCE THROUGH THE LANDS KNOWN AS BCP SITE NUMBER C915198F AND C915198G, S 64°-16'-07"W, A DISTANCE OF 300.09 FEET TO A POINT;

THENCE CONTINUING THROUGH THE LANDS KNOWN AS BCP SITE NUMBER C915198G, THE FOLLOWING 3 COURSES AND DISTANCES:
1.N 27°-05'-15" W, A DISTANCE OF 5.84 FEET, TO A POINT OF CURVATURE;
2.ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 967.00 FEET, A CHORD LENGTH OF 147.78 FEET AND AN ARC LENGTH OF 147.92 FEET, TO A POINT OF TANGENCY;
3.S 71°-07'-01" W, A DISTANCE OF 822.28 FEET, TO A POINT ON THE WEST LINE OF BCP SITE NUMBER C915198G;

THENCE ALONG THE EASTERLY LINE OF BCP SITE NUMBER C915198N, N 18°-19'-56" W, A DISTANCE OF 66.10 FEET, TO A POINT, SAID POINT BEING THE SOUTH WEST CORNER OF BCP SITE NUMBER C915198I;

THENCE THROUGH THE LANDS KNOWN AS BCP SITE NUMBER C915198I, THE FOLLOWING 7 COURSES AND DISTANCES:
1.N 71°-07'-01" E, A DISTANCE OF 821.87 FEET, TO A POINT TO A POINT OF CURVATURE;
2.ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 857.00 FEET, A CHORD LENGTH OF 136.39 FEET AND AN ARC LENGTH OF 136.53 FEET, TO A POINT OF TANGENCY;
3.N 27°-05'-15" W, A DISTANCE OF 15.00 FEET, TO A POINT OF CURVATURE;
4.ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 852.00 FEET, A CHORD LENGTH OF 1.95 FEET AND AN ARC LENGTH OF 1.95 FEET, TO A POINT OF TANGENCY;
5.N 62°-54'-45" E, A DISTANCE OF 17.89 FEET, TO A POINT;
6.S 27°-05'-15" E, A DISTANCE OF 15.00 FEET, TO A POINT;
7.N 62°-54'-45" E, A DISTANCE OF 24.28 FEET, TO A POINT, SAID POINT BEING ON THE WEST LINE OF BCP SITE NUMBER C915198I;

THENCE NORTHERLY ALONG THE WEST LINE OF BCP SITE NUMBER C915198I AND C915198N, N 18°-22'-04" W, A DISTANCE OF 10.80 FEET, TO A POINT ON THE WEST LINE OF BCP SITE NUMBER C915198H;

THENCE THROUGH THE LANDS KNOWN AS BCP SITE NUMBER C915198H, THE FOLLOWING 3 COURSES AND DISTANCES:
1.N 62°-54'-45" E, A DISTANCE OF 304.64 FEET, TO A POINT OF CURVATURE;
2.ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 918.00 FEET, A CHORD LENGTH OF 78.47 FEET AND AN ARC LENGTH OF 78.54 FEET, TO A POINT OF TANGENCY;
3.N 71°-07'-01" E, A DISTANCE OF 74.28 FEET, TO A POINT ON THE NORTH LINE OF LANDS CONVEYED TO THE COUNTY OF ERIE AS RECORDED IN THE ERIE COUNTY CLERK'S OFFICE IN LIBER 11353 OF DEEDS AT PAGE 6397;

THENCE ALONG THE WESTERLY LINE OF SAID LANDS CONVEYED TO THE COUNTY OF ERIE, S 18°-22'-27"E, A DISTANCE OF 99.36 FEET TO THE POINT OF BEGINNING. CONTAINING 2.02 ACRES OF LAND, MORE OR LESS.

PART OF TAX MAP NO. 141.11-1-48.13 & 141.11-1-1.111

SURVEY OF
DONA STREET, CITY OF LACKAWANNA
COUNTY OF ERIE, STATE OF NEW YORK

PART OF LOT: 24 | SECTION: - | TOWNSHIP: 10 | RANGE: 8
OF THE BUFFALO CREEK RESERVATION

PROGRESS PRINT
NOT FOR CONSTRUCTION

wendel
Corporate Campus Park • 375 Delaware Road, Suite 300 Buffalo, New York 14223
PHONE: 716.688.0766 FAX: 716.882.6985
WEBSITE: www.wendelcompanies.com
Wendel WD Architecture, Engineering, Surveying, D.P.C. all d/b/a as Wendel P.C.

PROJ. NO. 283218
DATE 4/15/2022
SCALE 1"=100'
CREW
DWN. KAC
CHK. RNJ

THIS SURVEY AND PORTIONS BEYOND THE BORDER OF OR IN ABSTRACT OF TITLE AND IS SUBJECT TO ANY CHANGES THAT AN EXAMINATION OF SAID MAY REVEAL.

IT IS PROHIBITED TO ALTER OR AMEND ANY SURVEY MAP BEARING A LICENSED SEAL UNLESS IT IS DONE BY THE PERSON LICENSED OR UNDER HIS OR HER SUPERVISION.

NOTE: ANY VIOLATION TO THIS SECTION OR ANY PART OF THIS SURVEY MAP MATCHED WITH THE FOLLOWING WILL BE CONSIDERED A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NOTE: ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MAP MARKED WITH THE ORIGINAL OF THE SURVEYOR'S INK SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

NO.	DATE	REVISION	BY	APPD.

APPENDIX B

Digital Copy of the FER (CD)

APPENDIX C
Environmental Easement

CHRISTOPHER L. JACOBS, ERIE COUNTY CLERK
REF:

DATE:7/15/2014
TIME:9:11:34 AM
RECEIPT: 14107868

BOX 29
ACCOUNT #: 0

ITEM - 01 785
RECD: 7/15/2014 9:21:59 AM
FILE: 2014137589 BK/PG D 11266/5436
Deed Sequence: TT2013021925
TECUMSEH REDEVELOPMENT INC
NEW YORK STATE DEPT OF ENVIRONMENTAL CONSERV
ATION
Recording Fees 90.00
TP584 10.00

Subtotal 100.00

ITEM - 02 785
RECD: 7/15/2014 9:21:59 AM
FILE: 2014137590 BK/PG D 11266/5446
Deed Sequence: TT2013021926
TECUMSEH REDEVELOPMENT INC
NEW YORK STATE DEPT OF ENVIRONMENTAL CONSERV
ATION
Recording Fees 85.00
TP584 10.00

Subtotal 95.00

ITEM - 03 785
RECD: 7/15/2014 9:21:59 AM
FILE: 2014137591 BK/PG D 11266/5455
Deed Sequence: TT2013021927
TECUMSEH REDEVELOPMENT INC
NEW YORK STATE DEPT OF ENVIRONMENTAL CONSERV
ATION
Recording Fees 100.00
TP584 10.00

Subtotal 110.00

ITEM - 04 785
RECD: 7/15/2014 9:21:59 AM
FILE: 2014137592 BK/PG D 11266/5467
Deed Sequence: TT2013021928
TECUMSEH REDEVELOPMENT INC
NEW YORK STATE DEPT OF ENVIRONMENTAL CONSERV
ATION
Recording Fees 105.00
TP584 10.00

Subtotal 115.00

TOTAL DUE $420.00
PAID TOTAL $420.00
PAID CHECK $420.00
Check #6438: 420.00

REC BY: Donna
COUNTY RECORDER

FILED
JUL 15 2014
ERIE COUNTY
CLERK'S OFFICE

County: Erie Site Nos: C915198, C915198B, C915198C, C915198D, C915198E, C915198F, C915198G, C915198H, C915198I, C915198J, C915198K, and C915198L

Brownfield Cleanup Agreement Number: B9-0696-05-06(B)

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 21th day of June, 2014 between Owner(s) Tecumseh Redevelopment Inc., having an office at 4020 Kinross Lakes Parkway, County of Summit, State of Ohio (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 2303 Hamburg Turnpike in the City of Lackawanna, County of Erie and State of New York, known and designated on the tax map of the County Clerk of Erie as tax map parcel numbers: Section 141.11 Block 1 Lot 50, being a portion of that certain plot, piece or parcel of land conveyed to Grantor by deed dated May 6, 2003 and recorded in the Erie County Clerk's Office in Liber 11040 and Page 8953. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 141.25 +/- acres, and is hereinafter more fully described in the Land Title Survey, which includes parcels recognized under Brownfield Cleanup Agreement Amendments dated August 22, 2012 ("Sites"), dated September 14, 2012, field survey completed June 12, 2012 and prepared by Wendel, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

[10/12]

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: B9-0696-05-06(B), Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5 the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a

defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Site within the Controlled Property on or about which the violation pertains.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Numbers: C915198, C915198B, C915198C, C915198D, C915198E, C915198F, C915198G, C915198H, C915198I, C915198J, C915198K, and C915198L

Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

[10/12]

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Grantor: Tecumseh Redevelopment Inc.

By: Keith A. Nagel

Print Name: Keith A. Nagel

Title: VP - Envir Affairs Real Estate Date: May 29, 2019

County: Erie Site Nos: C915198, C915198B, C915198C, C915198D, C915198E, C915198F, C915198G, C915198H, C915198I, C915198J, C915198K, and C915198L
Brownfield Cleanup Agreement Number: B9-0696-05-06(B)

Grantor's Acknowledgment

STATE OF ~~NEW YORK~~ Ohio)
) ss:
COUNTY OF Summit)

On the 29th day of May, in the year 20 14, before me, the undersigned, personally appeared Keith Nagel, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Susan E. Nick
Notary Public - State of ~~New York~~ Ohio

Commission expires:
Nov. 6, 2017

NOTARIAL SEAL
STATE OF OHIO

[10/12]

County: Erie Site Nos: C915198, C915198B, C915198C, C915198D, C915198E, C915198F, C915198G, C915198H, C915198I, C915198J, C915198K, and C915198L
Brownfield Cleanup Agreement Number: B9-0696-05-06(B)

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 26th day of June, in the year 2014, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2018

[10/12]

County: Erie Site Nos: C915198, C915198B, C915198C, C915198D, C915198E, C915198F, C915198G, C915198H, C915198I, C915198J, C915198K, and C915198L
Brownfield Cleanup Agreement Number: B9-0696-05-06(B)

SCHEDULE "A" PROPERTY DESCRIPTION

PARCEL A

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Lackawanna, County of Erie and State of New York, being part of Lot 15 of the Ogden Gore Tract and part of Lot 23, Township 10, Range 8 of the Buffalo Creek Reservation, described as follows:

Beginning at the intersection of the westerly highway boundary of the Hamburg Turnpike (also known as State Route No. 5) as appropriated by the New York State Department of Public Works as shown on Map No. 1, Parcel 1 and recorded in the Erie County Clerk's Office in Liber 5650 of Deeds at Page 404 and the municipal boundary line between the City of Lackawanna (to the north) and the Town of Hamburg (to the south), said point also being along the northerly boundary of lands conveyed to the South Buffalo Railway company by deed recorded in the Erie County Clerk's Office in Liber 10119 of Deeds at Page 131; running thence N 86°-32'-54" W along the northerly line of said South Buffalo Railway Company's land, a distance of 507.02 feet to an angle point therein; Thence N 56°-55'-40" W, and continuing along said South Buffalo Railway Company's land a distance of 386.48 feet to a point; thence N 03°-25'-27" W, a distance of 1,284.41 feet to a point of curvature of a tangent curve; thence along a curve to the left having a radius of 518.00 feet, an arc length of 168.84 feet to a point approximately 25 feet south from the existing southerly top of high bank of Smokes Creek; thence easterly and northerly approximately 25 feet south from the existing southerly top of the high bank of Smokes Creek the following 6 courses and distances;

1. Thence N 80°-39'-39" E, a distance of 37.52 feet to a point;
2. Thence N 44°-31'-00" E, a distance of 261.86 feet to a point;
3. Thence N 71°-51'-20" E, a distance of 455.12 feet to a point;
4. Thence N 20°-01'-37" E, a distance of 360.67 feet to a point;
5. Thence N 03°-49'-42" E, a distance of 217.94 feet to a point;
6. Thence N 72°-45'-22" E, a distance of 373.92 feet to a point on the westerly highway boundary of the Hamburg Turnpike as acquired by the New York State Department of Transportation under S. H. No. FAC 49-10 Map 305, Parcel 306 and recorded in the Erie County Clerk's Office in Liber 10960 of Deeds at page 2028; thence southerly along said westerly highway boundary the following 19 courses and distances;

1. Thence S 03°-16'-37" W, a distance of 188.27 feet to a point;
2. Thence S 03°-54'-17" W, a distance of 687.46 feet to the point of curvature of a tangent curve;
3. Thence along a curve to the right having a radius of 8,149.13 feet, an arc length of 144.86 feet to a point;
4. Thence S 04°-55'-24" W, a distance of 35.83 feet to a point;
5. Thence S 85°-04'-36" W, a distance of 9.84 feet to a point;
6. Thence S 05°-13'-45" W, a distance of 200.60 feet to a point;
7. Thence S 05°-20'-02" W, a distance of 110.00 feet to a point;
8. Thence S 00°-45'-26" W, a distance of 110.27 feet to a point;
9. Thence S 05°-20'-02" W, a distance of 220.00 feet to a point;
10. Thence S 05°-01'-28" W, a distance of 365.00 feet to a point;
11. Thence S 85°-13'-34" E, a distance of 5.00 feet to a point;

12. Thence S 04°-17'-11" W, a distance of 67.00 feet to a point;
13. Thence S 06°-15'-26" W, a distance of 248.08 feet to a point;
14. Thence S 03°-29'-18" W, a distance of 52.01 feet to a point;
15. Thence S 05°-06'-49" W, a distance of 133.00 feet to a point;
16. Thence S 85°-13'-34" W, a distance of 1.00 feet to a point;
17. Thence S 05°-06'-49" W, a distance of 45.00 feet to a point;
18. Thence S 85°-13'-34" W, a distance of 7.00 feet to a point;
19. Thence S 05°-06'-49" W, a distance of 90.00 feet to the point of beginning, containing 47.18 acres of land more or less.

Being part of the piece or parcel of land in a bargain and sale deed dated 5/06/2003 and recorded 5/22/2003 in Liber 11040 of Deeds at page 8953 in the Erie County Clerk's Office. This parcel of land is part of the overall deed.

PARCEL B

ALL THAT TRACT OR PARCEL OF LAND situated in the City of Lackawanna, County of Erie and State of New York, being part of lots 18, 20 and 21 of the Ogden Gore Tract and part of Lot 24, Township 10, Range 8 of the Buffalo Creek Reservation, bounded and described as follows:

Commencing at the intersection of the westerly highway boundary of the Hamburg Turnpike (also known as State Route No. 5) as appropriated by the New York State Department of Public Works as shown on Map No. 1, Parcel 1 and recorded in the Erie County Clerk's Office in Liber 5650 of Deeds at page 404 and the municipal boundary line between the City of Lackawanna (to the north) and the Town of Hamburg (to the south). Said point also being along the northerly boundary of lands conveyed to the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 10119 of Deeds at page 131; thence N 86°-32'-54" W along said municipal boundary line and the northerly line of said South Buffalo Railway Company's land, a distance of 507.02 feet to a point; thence N 56°-55'-40" W and continuing along said South Buffalo Railway Company's land, a distance of 386.48 feet to a point; thence N 03°-25'-27" W, a distance of 1,284.41 feet to a point of curvature of a tangent curve; thence along a curve to the left having a radius of 518.00 feet, an arc length of 168.84 feet to a point approximately 25 feet south from the existing southerly top of the high bank of Smokes Creek; thence N 30°-20'-56" E, crossing Smokes Creek, a distance of 395.96 feet to a point approximately 25 feet north from the existing northerly top of high bank of Smokes Creek and the principal point of beginning; thence N 18°-20'-36" W, a distance of 3,292.99 feet to a point; thence S 71°-34'-47" W, a distance of 93.00 feet to a point; thence N 18°-20'-36" W, a distance of 214.85 feet to a point on the southerly line of lands conveyed to Gateway Trade Center Inc. By deed recorded in the Erie County Clerk's Office in Liber 10886 of Deeds at page 1064; thence N 71°-41'-32" E, and along the southerly line of lands so conveyed to Gateway Trade Center, Inc. by deed aforesaid, a distance of 28.04 feet to a southeast corner thereof; thence N 71°-11'-53" E, a distance of 86.73 feet to a point; thence N 71°-31'-33" E, a distance of 1,251.00 feet to a point on the westerly highway boundary of Hamburg Turnpike as appropriated by the New York State Department of Public works as shown on Map No. 40-R2, Parcel 44 and recorded in the Erie County Clerk's Office in Liber 5650 of Deeds at page 388; thence southerly along the westerly highway boundary of the Hamburg Turnpike the following 4 courses and distances:

20. Thence S 20°-45'-14" E, a distance of 129.67 feet to a point;
21. Thence S 22°-43'-04" E, a distance of 272.45 feet to a point;

22. Thence S 18°-25'-27" E, a distance of 1,965.57 feet to the point of curvature of a non-tangent curve;
23. Thence along a curve to the right, having a radius of 3,226.70 feet, an arc length of 677.61 feet to a point which is approximately 25 feet north from the existing northerly top of high bank of Smokes Creek;

Thence westerly and southerly, approximately 25 feet north from the existing northerly top of the high bank of Smokes Creek the following 5 courses and distances;

24. Thence S 75°-24'-22" W, a distance of 420.71 feet to a point;
25. Thence S 52°-31'-09" W, a distance of 145.07 feet to a point;
26. Thence S 00°-25'-31" W, a distance of 225.66 feet to a point;
27. Thence S 14°-36'-37" W, a distance of 317.80 feet to a point;
28. Thence S 74°-29'-02" W, a distance of 360.63 feet to the principal point of beginning, containing 95.42 acres of land, more or less.

Being part of the piece or parcel of land in a bargain and sale deed dated 5/06/2003 and recorded 5/22/2003 in Liber 11040 of Deeds at page 8953 in the Erie County Clerk's Office. This parcel of land is part of the overall deed.

SUBSTATIONS EXCEPTED OUT OF EASEMENT AREA

Substation 10A
Commencing at the principal point of beginning of the Environmental Easement Business Park Phase II, Parcel "B";
Thence N 18°-50'-22" W, a distance of 457.40 feet to the point of beginning;
Thence N 18°-24'-23" W, a distance of 225.00 feet to a point;
Thence N 71°-35'-37" E, a distance of 188.17 feet to a point;
Thence S 18°-24'-23" E, a distance of 225.00 feet to a point;
Thence S 71°-35'-37" W, a distance of 188.17 feet to the point of beginning.
Containing 0.97 Acres of land, more or less.

Substation 11A
Commencing at the northwest corner of the Environmental Easement Parcel "B";
Thence S 33°-30'-30" E, a distance of 558.31 feet to the point of beginning;
Thence N 71°-48'-41" E, a distance of 112.00 feet to a point;
Thence S 20°-04'-28" E, a distance of 146.00 feet to a point;
Thence S 71°-48'-41" W, a distance of 112.00 feet to a point;
Thence N 20°-04'-28" W, a distance of 146.00 feet to the point of beginning.
Containing 0.38 Acres of land, more or less.

TP-584 (4/13)

New York State Department of Taxation and Finance

Combined Real Estate Transfer Tax Return, Credit Line Mortgage Certificate, and Certification of Exemption from the Payment of Estimated Personal Income Tax

Recording office time stamp

See Form TP-584-I, Instructions for Form TP-584, *before completing this form. Print or type.*

Schedule A — Information relating to conveyance

Grantor/Transferor

☐ Individual
☒ Corporation
☐ Partnership
☐ Estate/Trust
☐ Single member LLC
☐ Other

Name *(if individual, last, first, middle initial)* (☐ *check if more than one grantor*): Tecumseh Redevelopment, Inc.

Social security number:

Mailing address: 4020 Kinross Lakes Parkway

Social security number:

City: Richfield | State: OH | ZIP code: 44286

Federal EIN: 01-0649791

Single member's name if grantor is a single member LLC *(see instructions)*:

Single member EIN or SSN:

Grantee/Transferee

☐ Individual
☐ Corporation
☐ Partnership
☐ Estate/Trust
☐ Single member LLC
☒ Other

Name *(if individual, last, first, middle initial)* (☐ *check if more than one grantee*): The People of the State of New York, acting through their Commissioner of the Department of Environmental Conservation

Social security number:

Mailing address: 625 Broadway

Social security number:

City: Albany | State: NY | ZIP code: 12233

Federal EIN: 14-6013200

Single member's name if grantee is a single member LLC *(see instructions)*:

Single member EIN or SSN:

Location and description of property conveyed

Tax map designation – Section, block & lot *(include dots and dashes)*	SWIS code (six digits)	Street address	City, town, or village	County
141.11-1-50	140900	2303 Hamburg Turnpike	Lackawanna	Erie

Type of property conveyed *(check applicable box)*

1 ☐ One- to three-family house
2 ☐ Residential cooperative
3 ☐ Residential condominium
4 ☐ Vacant land
5 ☒ Commercial/Industrial
6 ☐ Apartment building
7 ☐ Office building
8 ☐ Other _____

Date of conveyance: 06 (month) 26 (day) 2014 (year)

Percentage of real property conveyed which is residential real property 0 % *(see instructions)*

Condition of conveyance *(check all that apply)*

a. ☐ Conveyance of fee interest
b. ☐ Acquisition of a controlling interest (state percentage acquired _____ %)
c. ☐ Transfer of a controlling interest (state percentage transferred _____ %)
d. ☐ Conveyance to cooperative housing corporation
e. ☐ Conveyance pursuant to or in lieu of foreclosure or enforcement of security interest *(attach Form TP-584.1, Schedule E)*
f. ☐ Conveyance which consists of a mere change of identity or form of ownership or organization *(attach Form TP-584.1, Schedule F)*
g. ☐ Conveyance for which credit for tax previously paid will be claimed *(attach Form TP-584.1, Schedule G)*
h. ☐ Conveyance of cooperative apartment(s)
i. ☐ Syndication
j. ☐ Conveyance of air rights or development rights
k. ☐ Contract assignment
l. ☐ Option assignment or surrender
m. ☐ Leasehold assignment or surrender
n. ☐ Leasehold grant
o. ☐ Conveyance of an easement
p. ☒ Conveyance for which exemption from transfer tax claimed *(complete Schedule B, Part III)*
q. ☐ Conveyance of property partly within and partly outside the state
r. ☐ Conveyance pursuant to divorce or separation
s. ☒ Other *(describe)* Environmental Easement Pursuant to ECL Art. 71 Title 36

For recording officer's use	Amount received	Date received	Transaction number
	Schedule B., Part I $ Schedule B., Part II $		

Schedule B — Real estate transfer tax return (Tax Law, Article 31)

Part I – Computation of tax due

1	Enter amount of consideration for the conveyance *(if you are claiming a total exemption from tax, check the exemption claimed box, enter consideration and proceed to Part III)* ☒ **Exemption claimed**	1.	0 00
2	Continuing lien deduction *(see instructions if property is taken subject to mortgage or lien)*	2.	0 00
3	Taxable consideration *(subtract line 2 from line 1)*	3.	0 00
4	Tax: $2 for each $500, or fractional part thereof, of consideration on line 3	4.	
5	Amount of credit claimed for tax previously paid *(see instructions and attach Form TP-584.1,* Schedule G*)*	5.	
6	Total tax due* *(subtract line 5 from line 4)*	6.	0 00

Part II – Computation of additional tax due on the conveyance of residential real property for $1 million or more

1	Enter amount of consideration for conveyance *(from* Part I, *line 1)*	1.	0 00
2	Taxable consideration *(multiply line 1 by the percentage of the premises which is residential real property, as shown in* Schedule A*)*	2.	
3	Total additional transfer tax due* *(multiply line 2 by 1% (.01))*	3.	0 00

Part III – Explanation of exemption claimed on Part I, line 1 *(check any boxes that apply)*

The conveyance of real property is exempt from the real estate transfer tax for the following reason:

a. Conveyance is to the United Nations, the United States of America, the state of New York, or any of their instrumentalities, agencies, or political subdivisions (or any public corporation, including a public corporation created pursuant to agreement or compact with another state or Canada) ..... a ☒

b. Conveyance is to secure a debt or other obligation ..... b ☐

c. Conveyance is without additional consideration to confirm, correct, modify, or supplement a prior conveyance ..... c ☐

d. Conveyance of real property is without consideration and not in connection with a sale, including conveyances conveying realty as bona fide gifts ..... d ☒

e. Conveyance is given in connection with a tax sale ..... e ☐

f. Conveyance is a mere change of identity or form of ownership or organization where there is no change in beneficial ownership. (This exemption cannot be claimed for a conveyance to a cooperative housing corporation of real property comprising the cooperative dwelling or dwellings.) Attach Form TP-584.1, Schedule F ..... f ☐

g. Conveyance consists of deed of partition ..... g ☐

h. Conveyance is given pursuant to the federal Bankruptcy Act ..... h ☐

i. Conveyance consists of the execution of a contract to sell real property, without the use or occupancy of such property, or the granting of an option to purchase real property, without the use or occupancy of such property ..... i ☐

j. Conveyance of an option or contract to purchase real property with the use or occupancy of such property where the consideration is less than $200,000 and such property was used solely by the grantor as the grantor's personal residence and consists of a one-, two-, or three-family house, an individual residential condominium unit, or the sale of stock in a cooperative housing corporation in connection with the grant or transfer of a proprietary leasehold covering an individual residential cooperative apartment ..... j ☐

k. Conveyance is not a conveyance within the meaning of Tax Law, Article 31, section 1401(e) *(attach documents supporting such claim)* ..... k ☐

*The total tax (from Part I, line 6 and Part II, line 3 above) is due within 15 days from the date conveyance. Please make check(s) payable to the county clerk where the recording is to take place. If the recording is to take place in the New York City boroughs of Manhattan, Bronx, Brooklyn, or Queens, make check(s) payable to the ***NYC Department of Finance.*** If a recording is not required, send this return and your check(s) made payable to the ***NYS Department of Taxation and Finance,*** directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-5045.

Schedule C — Credit Line Mortgage Certificate (Tax Law, Article 11)

Complete the following only if the interest being transferred is a fee simple interest.
I (we) certify that: *(check the appropriate box)*

1. ☒ The real property being sold or transferred is not subject to an outstanding credit line mortgage.

2. ☐ The real property being sold or transferred is subject to an outstanding credit line mortgage. However, an exemption from the tax is claimed for the following reason:
   - ☐ The transfer of real property is a transfer of a fee simple interest to a person or persons who held a fee simple interest in the real property (whether as a joint tenant, a tenant in common or otherwise) immediately before the transfer.
   - ☐ The transfer of real property is (A) to a person or persons related by blood, marriage or adoption to the original obligor or to one or more of the original obligors or (B) to a person or entity where 50% or more of the beneficial interest in such real property after the transfer is held by the transferor or such related person or persons (as in the case of a transfer to a trustee for the benefit of a minor or the transfer to a trust for the benefit of the transferor).
   - ☐ The transfer of real property is a transfer to a trustee in bankruptcy, a receiver, assignee, or other officer of a court.
   - ☐ The maximum principal amount secured by the credit line mortgage is $3,000,000 or more, and the real property being sold or transferred is **not** principally improved nor will it be improved by a one- to six-family owner-occupied residence or dwelling.

     Please note: for purposes of determining whether the maximum principal amount secured is $3,000,000 or more as described above, the amounts secured by two or more credit line mortgages may be aggregated under certain circumstances. See TSB-M-96(6)-R for more information regarding these aggregation requirements.
   - ☐ Other *(attach detailed explanation)*.

3. ☐ The real property being transferred is presently subject to an outstanding credit line mortgage. However, no tax is due for the following reason:
   - ☐ A certificate of discharge of the credit line mortgage is being offered at the time of recording the deed.
   - ☐ A check has been drawn payable for transmission to the credit line mortgagee or his agent for the balance due, and a satisfaction of such mortgage will be recorded as soon as it is available.

4. ☐ The real property being transferred is subject to an outstanding credit line mortgage recorded in _____ (insert liber and page or reel or other identification of the mortgage). The maximum principal amount of debt or obligation secured by the mortgage is _____. No exemption from tax is claimed and the tax of _____ is being paid herewith. *(Make check payable to county clerk where deed will be recorded or, if the recording is to take place in New York City but not in Richmond County, make check payable to the **NYC Department of Finance.**)*

Signature (both the grantor(s) and grantee(s) must sign)

The undersigned certify that the above information contained in schedules A, B, and C, including any return, certification, schedule, or attachment, is to the best of his/her knowledge, true and complete, and authorize the person(s) submitting such form on their behalf to receive a copy for purposes of recording the deed or other instrument effecting the conveyance.

Tecumseh Redevelopment, Inc.		New York State Department of Environmental Conservation	
By: Keith A. Nagel	Vice President of Environmental Affairs and Real Estate	By:	Assoc Atty
Grantor signature	Title	Grantee signature	Title
		NYSDEC	Bureau Chief
Grantor signature	Title	Grantee signature	Title

Reminder: Did you complete all of the required information in Schedules A, B, and C? Are you required to complete Schedule D? If you checked *e*, *f*, or *g* in Schedule A, did you complete Form TP-584.1? Have you attached your check(s) made payable to the county clerk where recording will take place or, if the recording is in the New York City boroughs of Manhattan, Bronx, Brooklyn, or Queens, to the ***NYC Department of Finance***? If no recording is required, send your check(s), made payable to the ***Department of Taxation and Finance,*** directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-5045.

Schedule D - Certification of exemption from the payment of estimated personal income tax (Tax Law, Article 22, section 663)

Complete the following only if a fee simple interest or a cooperative unit is being transferred by an individual or estate or trust.

If the property is being conveyed by a referee pursuant to a foreclosure proceeding, proceed to Part II, and check the second box under *Exemptions for nonresident transferor(s)/seller(s)* and sign at bottom.

Part I - New York State residents

If you are a New York State resident transferor(s)/seller(s) listed in Schedule A of Form TP-584 (or an attachment to Form TP-584), you must sign the certification below. If one or more transferors/sellers of the real property or cooperative unit is a resident of New York State, **each** resident transferor/seller must sign in the space provided. If more space is needed, please photocopy this Schedule D and submit as many schedules as necessary to accommodate all resident transferors/sellers.

Certification of resident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) as signed below was a resident of New York State, and therefore is not required to pay estimated personal income tax under Tax Law, section 663(a) upon the sale or transfer of this real property or cooperative unit.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

Note: A resident of New York State may still be required to pay estimated tax under Tax Law, section 685(c), but not as a condition of recording a deed.

Part II - Nonresidents of New York State

If you are a nonresident of New York State listed as a transferor/seller in Schedule A of Form TP-584 (or an attachment to Form TP-584) but are not required to pay estimated personal income tax because one of the exemptions below applies under Tax Law, section 663(c), check the box of the appropriate exemption below. If any one of the exemptions below applies to the transferor(s)/seller(s), that transferor(s)/seller(s) is not required to pay estimated personal income tax to New York State under Tax Law, section 663. **Each** nonresident transferor/seller who qualifies under one of the exemptions below must sign in the space provided. If more space is needed, please photocopy this Schedule D and submit as many schedules as necessary to accommodate all nonresident transferors/sellers.

If none of these exemption statements apply, you must complete Form IT-2663, *Nonresident Real Property Estimated Income Tax Payment Form*, or Form IT-2664, *Nonresident Cooperative Unit Estimated Income Tax Payment Form.* For more information, see *Payment of estimated personal income tax,* on page 1 of Form TP-584-I.

Exemption for nonresident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) (grantor) of this real property or cooperative unit was a nonresident of New York State, but is not required to pay estimated personal income tax under Tax Law, section 663 due to one of the following exemptions:

☐ The real property or cooperative unit being sold or transferred qualifies in total as the transferor's/seller's principal residence (within the meaning of Internal Revenue Code, section 121) from _____ (Date) to _____ (Date) *(see instructions).*

☐ The transferor/seller is a mortgagor conveying the mortgaged property to a mortgagee in foreclosure, or in lieu of foreclosure with no additional consideration.

☐ The transferor or transferee is an agency or authority of the United States of America, an agency or authority of the state of New York, the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation, the Government National Mortgage Association, or a private mortgage insurance company.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

APPENDIX D

Construction Completion Report for BCP Parcels C915198H and C915198I", dated November 2020, and prepared by LiRo

Former Bethlehem Steel Site
(Tecumseh Redevelopment Inc.)
Erie County, New York

CONSTRUCTION COMPLETION REPORT

Brownfield Cleanup Program (BCP) Parcels - C915198H and C915198I

Prepared for:

Erie County Department of Public Works
Division of Highways
95 Franklin Street
Buffalo, New York

Prepared by:

LiRo Engineers, Inc.
A LiRo Group Company

LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York

~~**Revised November 2020**~~
Revised December 2020

CERTIFICATIONS

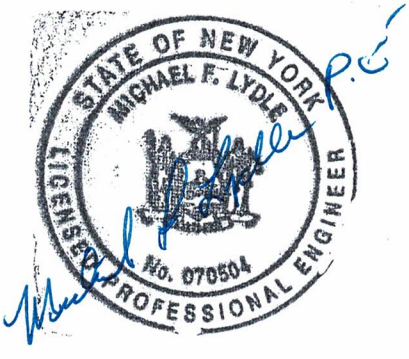
I, Michael F. Lydle, PE, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Work was implemented and that all construction activities were completed in substantial conformance with the Department-approved Site Management Plan, which includes the Excavation Work Plan For Tecumseh Phase II Business Park, NYSDEC Site Numbers: C915198 through C915198L.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Michael F. Lydle, PE, of 690 Delaware Avenue, Buffalo, NY, am certifying as Erie County's Designated Site Representative. I have been authorized and designated by Erie County to sign this certification for the site.

070504	11/13/2020	Michael F Lydle, P.E
NYS Professional Engineer #	Date	Signature



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LIST OF ACRONYMS

Acronym	Definition
bgs	below ground surface
C&D	construction and demolition
CAMP	Community Air Monitoring Plan
CCR	Construction Completion Report
CLSM	Controlled Low Strength Material, also known as flowable fill
CPP	Community Participation Plan
CWM	Chemical Waste Management Chemical Services, L.L.C.
CWM-MC	CWM Model City
ERP	Environmental Restoration Program
ft	feet
GIS	geographic information system
HASP	Health and Safety Plan
IRM	interim remedial measure
mg/kg	milligram per kilogram
ND	non-detect
NRWT	North Return Water Trench
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OSHA	Occupational Safety and Health Administration
ppm	parts per million
PPE	personal protective equipment
PCBs	polychlorinated biphenyls
ROW	Right of Way
SCGs	Standards, Criteria, and Guidance
SI	Site Investigation
SOPs	Site Operations Plans
sq ft	square feet
SVOCs	semi-volatile organic compounds
SCOs	Soil Cleanup Objectives
SRWT	South Return Water Trench
TCLP	toxicity characteristic leaching procedure
UST	underground storage tank
VOCs	volatile organic compounds

CONSTRUCTION COMPLETION REPORT

1. BACKGROUND AND SITE DESCRIPTION

Tecumseh Redevelopment, Inc. (Tecumseh) entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) to investigate and remediate an approximate 142-acre property located in Erie County, City of Lackawanna, New York. Brownfield Cleanup Agreement Index Number: B9-0696-05-06(B). The BCA was executed March 14, 2005 and amended August 20, 2012. The Tecumseh Phase II Business Park Area collectively includes Business Park Sites II-1 through II-12 (C915198 through C915198L). Portions of the property were remediated to commercial and Industrial use, and will be used for Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-l.8(g)(2)(iv).

The Tecumseh Phase II Business Park (Business Park II) was originally deemed Brownfield Cleanup Program (BCP) Site No. C915198, but was subsequently subdivided into smaller BCP sub-parcels to facilitate remediation and redevelopment. On August 20, 2012, the original BCA for Site C915198 was amended to cover Sub-Parcel II-1, with separate BCAs issued and executed for the remaining 11 BCP Sub-Parcels (i.e., II-2 through II-12, having Site Nos. C915198B through C915198L. Business Park II is bounded by the Business Parks I and IA to the north; South Buffalo Railroad Company to the south; Business Park III and the South Return Water Trench (SRWT) to the west; and Route 5 to the east. Business Park II is transected by Smokes Creek, which is specifically excluded from the BCP (see Figures 1 and 2).

The site is located in the County of Erie, New York known and designated on the tax map of the County Clerk of Erie as tax map parcel numbers: Section 141.11 Block 1 Lot 50, being a portion of that certain plot. piece or parcel of land conveyed to Granter by deed dated May 6, 2003 and recorded in the Eric County Clerk's Office in Liber 11040 and Page 8953. The site is situated on an approximately 142-acre area along the west side of NYS Route 5, south and east of the Port of Buffalo, and north and east of the remaining former Bethlehem Steel Corporation (BSC) steel plant property and Lake Erie. (see Figure 1).

As part of the continued development of BSC, The Erie County Department of Public Works (DPW) constructed a new access roadway. The new roadway begins at NYS Route 5 opposite of Dona Street and continues west into the former BSC property approximately 1,500 feet. The project included street lighting, sidewalks, extension of the sanitary sewer to the west, railroad crossings and the replacement of the existing traffic signal at Route 5 and Dona Street. The Project crosses through two NYSDEC Brownfield Cleanup Program (BCP) Parcels - C915198H and C915198I. All ground intrusive work on these parcels was conducted in compliance with the environmental requirements of the Interim Excavation Work Plan (EWP) dated March 2013.

This Construction Completion Report (CCR) has been prepared by LiRo Engineers, Inc. (LiRo) to document the actions performed on Sub-Parcels II-8 (Site No. C915198H) and II-9 (Site No. C915198I). This CCR includes a summary of activities undertaken for the Construction of the Dona Street Extension, and has been prepared to document “as constructed” details for the work, including results of environmental monitoring and documentation of cover system materials imported to the Site.

2. SUMMARY OF COMPLETED CONSTRUCTION ACTIVITIES

2.1 CONTEXT OF WORK WITHIN BCP

Based on the results of the previously completed Remedial Investigation/Alternatives Analysis Report (RI/AAR), Remedial Action Objectives (RAOs) were identified to prevent exposure to contaminated soil and groundwater for this site.

The project Site was remediated in accordance with the remedy selected by the NYSDEC in the Decision Documents dated December 2016 for Tecumseh Phase II Business Park Site II-8, Site No. C915198H and Site II-9 Site No. C915198I. In general, the previously completed remedial actions consisted of removal of "source area" soil fill and implementation of a Site Management Plan (SMP).

The work for the Dona Street Extension project was completed in accordance with the requirements of the SMP for Parcels - C915198H and C915198I – specifically with SMP Appendix B (Excavation Work Plan) and SMP Appendix C (Health and Safety/Community Air Monitoring Plan). The work affecting the BCP parcels consisted of site clearing and regrading to accommodate the Dona Street Extension, installation of a clean-soil filled utility trench (for future infrastructure), and installation of demarcation layer/cover system within the work areas.

In the context of the BCP, the work conducted for this project primarily consisted of installation of a composite cover system along the roadway corridor. The cover system includes the paved areas - the roadway and adjacent sidewalk – as well as unpaved areas where clean soil cover was placed. As noted above, a trench was excavated and filled with clean soil. The clean-soil trench was installed to facilitate future utilities installations. As a result of the work, the roadway corridor work area now has a composite cover system that meets Brownfield Cleanup Program requirements for commercial use.

In addition, a new culvert and crossing were installed within an adjacent easement for the South Return Water Trench that is managed under the Resource Conservation and Recovery Act (RCRA).

3. INTERIM REMEDIAL MEASURES AND RCRA CORRECTIVE MEASURES STUDY

The purpose of this section is to provide a brief summary of work previously performed at the former Bethlehem Steel Plant site performed as IRMs, operable units or under separate remedial construction contracts.

3.1 2010 IRM FOR RAILROAD REALIGNMENT

Details of the 2010 IRM for the railroad realignment are contained in the December 2013 CCR for Tecumseh Business Parks I-III (see Section 4.1 Governing Documents) and summarized below as they pertain to Sub-Parcels II-8 and II-9:

Soils impacted with levels of poly-chlorinated biphenyls (PCBs) exceeding site cleanup objectives for commercial use, as set forth in 6 NYCRR Part 375-1.8(g)(2)(iii), were discovered during a supplemental test pit program conducted in support of a realignment of the South Buffalo Railroad. One test pit, RR-TP-30 contained PCBs at 52 parts per million (ppm).

An IRM was completed in conformance with a 2010 Department approved IRM Work Plan. The IRM removed and disposed off-site approximately 258 tons of contaminated soils and slag. Zoladz excavated the PCB-impacted soil/slag-fill on December 15, 2010 to the depth and minimum area specified in the IRM Work Plan, specifically excavation proceeded to a depth of 2 feet below grade at an approximate 50-foot x 50-foot area centered on RR-TP-30. Soil/slag-fill from test pit TP-30 was direct loaded onto truck trailer dumps (provided by disposal facility) and transported by Price Trucking Corp., a licensed hazardous waste transporter (No. 9A025), to CWM Chemical Services, LLC in Model City, NY. The 258.27 tons of PCB-impacted soil/slag-fill was disposed as regulated hazardous waste under CWM profile NY302140.

The excavations were restored with placement of backfill meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use and establishment of an active rail line.

3.2 2013 IRM FOR BUSINESS PARK II

Details of the 2013 IRM for Business Park II are contained in the January 2014 CCR for Business Park II (Section 4.1) and summarized below as they pertain to Sub-Parcels II-8 and II-9:

Hotspot “L” - BPA2-TP-40 removal; Soils impacted with levels of arsenic exceeding site cleanup objectives for commercial reuse, as set forth in 6 NYCRR Part 375-6.7(d), were discovered during remedial investigation test pit excavation. One test pit, BPA2 TP-40 contained arsenic at 152 parts per million (ppm). Arsenic was detected below the site-specific SCO of 118 ppm at all supplemental test pit locations. Therefore, the extent of impact was estimated to be 20 feet by 20 feet, for an in-place volume of approximately 30 cubic yards.

The IRM was completed in March 2013, in anticipation of placement of a waterline supplying the newly constructed Welded Tube Facility. Work was completed in conformance with a Department approved Interim Excavation Work Plan that delineated, removed and disposed off-site approximately 50 tons of contaminated soils.

After documentation sampling, the excavation was backfilled by grading surrounding material. A final cover was deferred to the final remedy. A CCR detailing the removal effort and final disposal of removed material was complete in January 2014.

3.3 RCRA CORRECTIVE MEASURES STUDY (CMS)

Tecumseh has entered into an Order on Consent with the New York State Department of Environmental Conservation (NYSDEC) to undertake the Resource Conservation and Recovery Act (RCRA) Corrective Measures Study (CMS) at certain solid waste management units (SWMUs) primarily on the western slag fill and coke manufacturing portion of the property.

A RCRA Facility Investigation (RFI) of the entire former Bethlehem Steel Lackawanna Works was initiated by BSC under an Administrative Order issued by the United States Environmental Protection Agency (USEPA) in 1990. Tecumseh completed the RFI in January 2005. In September 2006, USEPA approved the RFI.

Work related to the culvert installation and crossing of the South Return Water Trench was completed within the RCRA area. The BCP portion of this project does not include the work completed within the RCRA area, however, the RCRA area work is documented herein for completeness of records.

4. DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities consisting of cover system installation along the street right of way was completed as part of the Dona Street Extension Project. Section 4.2 details the Program Elements of the Project.

4.1 GOVERNING DOCUMENTS

Governing documents for the actions performed include the following:

- Initial Project Proposal / Final Design Report, Dona Street Extension, Lackawanna, NY, LiRo Project #17-162-0134, Dated: 5/9/2018, by LiRo Engineers, Inc.
- The LiRo Employee, Project Specific Health and Safety Plan, Erie County DPW – Dona Street Extension, Dona Street/Hamburg Turnpike, Lackawanna, NY, LiRo Project #17-162-0134, Version: 2.0, Dated: March, 2018, by LiRo Engineers, Inc.
- Brownfield Cleanup Program, Interim Excavation Work Plan, Phase II Business Park Area, Lackawanna, New York, Project # 0071-013-310 February 2013, Revised March 2013, by TurnKey Environmental Restoration, LLC.
- NYSDEC, Stormwater Pollution Prevention Plan for Dona Street Extension, Lackawanna, NY, August 2018, Revised December 2018, by LiRo Engineers, Inc.
- Community Air Monitoring Plan (CAMP) prepared and completed by LiRo.
- Decision Document, Site II-8 Tecumseh Phase II Business Park, Brownfield Cleanup Program, Lackawanna, Erie County, Site No. C915198H, December 2016, by Division of Environmental Remediation, NYSDEC.
- Decision Document, Site II-9 Tecumseh Phase II Business Park, Brownfield Cleanup Program, Lackawanna, Erie County, Site No. C915198I, December 2016, by Division of Environmental Remediation, NYSDEC.
- Site Management Plan (SMP), Brownfield Cleanup Program, Tecumseh Phase II Business Park, NYSDEC Site Nos. C915198 through C915198L, Lackawanna, New York, January 2014 by TurnKey Environmental Restoration, LLC.

4.2 PROGRAM ELEMENTS

4.2.1 Contractors and Consultants

Contractors and their associated tasks are as follows:

- Zoladz Construction Company, Inc. – scrapped land, stockpiled construction and demolition (C&D) debris, hammered and removed concrete, compaction, loaded and transported waste on-site, imported soil, imported stone, installed fabric, installed a cofferdam, constructed a laydown area containment, pumped water, soil, concrete and stream excavation and installed sediment curtains near creek.

The Engineer of Record responsible for the inspection of the work is as follows:

- Michael Lydle, PE, Senior Engineer, of LiRo Engineers, Inc.

4.2.2 Site Preparation

A pre-construction meeting was held with NYSDEC and all contractors on November 28, 2009.

The construction of the Dona Street extension includes approximately 1,500 feet two-lane road to access the undeveloped parcels. From NYS Rt 5 the road extends west and for the first 600 feet the road is 40 feet wide with a center turning lane. The remainder of the road is 28 feet wide without a turning lane. Each travel lane is 12 feet with a 2 foot offset between the edge of the travel lane and a concrete curb. The center turning lane is 12 feet wide. To the south, between the curb and roadway right of way, a utility trench was constructed. To the north a grassed area with a 5-foot wide concrete sidewalk was constructed. The grassed areas between the curbs and right of way are sloped towards the road. NYS Rt 5 was widened to include a 12 feet wide right turn lane to the north of the new intersection.

The construction of this project consisted primarily of road construction, but also the other elements described below:

- Clearing and grubbing of existing ground cover within the area to be disturbed for construction.
- Removal and stockpiling of topsoil.
- Earthwork, regrading of the site within the roadway construction area footprint.
- Excavation for the sanitary sewer extension to the new road.
- Construction of the road, sidewalk and storm drainage system.
- Installation of a new traffic signal system for the new intersection.
- Installation of a new culvert along the north/south drainage ditch.
- Alteration of drainage patterns and construction of stormwater management facilities.
- Landscaping, top soil placement and seeding of disturbed areas.
- The construction work and composite cover system installation area (which includes the roadway, sidewalk, grass covered and utility trench) is shown on Figure 2.
- The composite cover system profiles are shown on Figure 3.

The following presents a narrative of work completed relating to the BCP requirements. For road construction activities, Zoladz mobilized to the Site on November 29, 2018. Utility marker layout was completed prior to intrusive activities. Site preparation initially involved establishing survey control and setting Site boundary markers followed by mobilization of equipment and personnel to the Site. A pre-construction meeting was held with the contractors on November 28, 2018. Zoladz prepared the area by scrapping and stockpiling the at ground surface C&D material, which mostly consisted of brick, concrete rubble, mixed with steel rebar. Additional scrapped material was described as black/brown fine to coarse sand and gravel with minor silt and minor clay content. This material was moved to the Northeast Corner Staging Area for recycling and/or re-use onsite as sub-grade material.

Zoladz proceeded by hammering the concrete substructures, which were broken into manageable pieces, loaded into trucks and transported. Zoladz continued the removal of concrete substructures, which

sometimes required the pumping of water from excavation pits to properly visualize the concrete substructures. The removal of concrete substructures was completed for sewer and utility installation. Zoladz continued the removal of concrete substructures and rough grading and roll to approximate subgrade for the road. Zoladz completed concrete removal at depths below the groundwater level. These excavation pits were backfilled with stockpiled subgrade material upon removal of concrete substructures. The aforementioned activities were completed on January 4, 2019.

In February 2019 Zoladz began trucking of embankment material from the Brush Mountain Community Center Construction Project in Orchard Park. Backfill source documentation is provided in Appendix B. The following day Zoladz continued trucking embankment material to the site from the same source and stockpiling. They also began work in the RCRA South Water Return Trench area with cofferdam construction.

Beginning in April 2019, Zoladz excavated for a hydrant, dewatered, removed and replaced soft material, removed ashphalt and concrete from the site entry from Route 5, and rough graded the project area with a dozer. Zoladz continued rough grading, installed subbase materials, rolled roadway subgrade, and excavated for an underdrain. They also excavated for storm drainage, sanitary sewer, manholes, conduit and later backfilled. They also stripped the subgrade material that required replacement. For the rest of the month, Zoladz removed concrete substructures, installed fabric, rough graded the subgrade, compacted subgrade, set manhole rims, and placed clean fill on the north side of the road. They also excavated for the sidewalk, rough graded, installed fabric and placed subbase stone.

In May 2019, Zoladz closed the southbound right lane of Route 5 to complete saw cutting of road, removal of asphalt, brick and concrete road base to excavate for drainage structures. Existing drainage structures were removed, the subbase was rough graded, fabric placed and new drainage pipes and structures were installed. Zoladz closed the southbound right lane of Route 5 to excavate for the Route 5 box out, rough grade subbase, install fabric, set pre-cast drainage tops and light standards. Zoladz installed frames and grates, graded for curb installation, shaped the north side spoil area, backfilled light posts, installed railroad track rubber, and graded the south side of Dona Street beyond the curb line in preparation of fabric and clean fill. Beginning on May 21, 2019, Zoladz graded for curbs, removed concrete substructures, set sanitary sewer manholes, with shoring in place and placed stone.

In late May-early June, Zoladz began work on the utility trench, which was dewatered prior to placement of fabric. They also excavated for manholes, used shoring to set two (2) manholes, graded for curbs and sidewalks, and backfilled the manholes. As June progressed, they continued grading for sidewalks, excavated for a signal pole and manholes, poured sidewalk and ADA ramps. Clean material was placed between the sidewalk and curb at the west end. Site activities included excavation and placement of a pipe between manholes, dewatering, backfill of curbs and manholes. They also graded along the south side of Dona Street where sanitary pipe was placed, and installed conduit. In late June, work included grading the south side of the street, grading sidewalk areas, placing demarcation fabric, placing fill over fabric, tested pipes, and placing 6” of topsoil on north side of street north of the sidewalk.

The project construction work was completed in July - August 2019 work with placement of topsoil, fine grading and seeding. In addition, Route 5 Area work was completed. Dona Street paving was completed and the project area was hydroseeded. Oversized debris was removed and segregated for off-site disposal and excess materials from excavations were moved to the soil re-use area shown on Figure 3.

4.2.3 General Site Controls

LiRo prepared a Stormwater Pollution Prevention Plan (SWPPP) for the Dona Street Extension in August 2018 and revised December 2018. An electronic Notice of Intent (NOI) for the street extension project was submitted in July 2018. The SWPPP plan addresses both construction and post-construction control measures to control stormwater runoff for project site preparation and infrastructure construction. The plan required erosion controls during construction to mitigate sediment migration due to soil/slag-fill disturbances, including those associated with the sub-base, road base, culverts and storm drain lines.

To prevent sediment migration during construction LiRo specified that the contractor install a cofferdam at Smokes Creek with the installation of trench boxes and stone at each end along with a sediment curtain at the downstream end of the work zone.

Completed site drainage consists of a closed drainage system. The west end of the road collects runoff from the road and adjacent right of way areas and directs it to the west for outfall into an existing drainage ditch. This runoff flows through a proprietary structure for use as water quality treatment. To the east, runoff from the road and adjacent right of way is collected and flows into the existing closed drainage system on NYS Rt. 5. The range drains to a closed system and flows through a treatment chamber to remove lead particles from the runoff. The stormwater management features (shown in Appendix E) provide water quality treatment for the closed system.

LiRo incorporated the requirements of the April 2009 CMS Site Soil/Fill Management Plan in the bid documents. The contractor was required to abide by these requirements, including:

- Monitoring of soil/slag-fill and sediment excavations and disturbances for field indications of impact by a qualified environmental professional.
- Staging/reuse or spreading of non-impacted soils and sediments on-site within the CMS-designated area. Relocation of these materials to the BCP sites was not allowed.
- Disposal of impacted materials, if encountered, at an off-site permitted disposal facility or on-site in designated areas (e.g. to the ATP containment cell) as approved by the Department.
- Import of approved aggregate and soil materials. Soils had to be tested to meet import criteria per the requirements.

The requirements of the BCP, Interim Excavation Work Plan, were also incorporated in the bid documents. The contractor was required to abide by these requirements, including:

- Prior to the start of site activities anticipated to encounter remaining contamination, the Site owner or their representative notified the NYSDEC.
- Requirements for screening, segregation and stockpiling of excavated soil/fill material were followed.
- Requirements for excavation, transport, disposal and onsite reuse were followed.
- Requirements for Backfill, restoration, monitoring and inspections were followed.
- The EWP was followed during all ground intrusive activities conducted during site construction work (e.g., excavation for roadway, utility lines, grading work and cover placement, etc.) as

remedial measures proceed toward final cleanup and issuance of the Certificate of Completion (COC).

Although Zoladz was prepared to implement dust control, it was not required during the intrusive work as determined by visual, and dust level monitoring with the DustTrac Monitior. Excavations were characterized as saturated due to the high level of groundwater, which precluded the need for dust suppression.

Site controls were maintained throughout construction. Access to the Site was limited to business hours and restricted by fencing and gates along NY State Route 5. Trucks accessed the Site along Ridge Road and Fuhrman Blvd. from Hamburg Turnpike (Route 5). Only authorized representatives of LiRo, The County and NYSDEC were permitted in the work area. Trucks employed to import cover material traveled along a designated route within the Tecumseh property.

Storm water management controls were constructed in conjunction with the project that included a collection system and treatment system. Details of the storm water controls in place are provided in Appendix E.

4.2.4 Nuisance Controls

The nuisance controls included dust suppression during Site excavation work and backfill activities. During soil/slag-fill excavation and loading activities, the site was characterized as saturated due to the groundwater level, which precluded the need for dust suppression. Other dust suppression techniques that were used included:

- Restricting vehicle speeds on-site.
- Reducing the excavation size and/or limiting the number of excavations.

Air monitoring results indicated particulate levels below action levels; therefore, additional dust suppression techniques were not employed. All attempts were made to keep visible and/or fugitive dust to a minimum. Equipment was cleaned of soil clods and swept free of remaining soils prior to removal from the Site or reuse in preparing final grade. No nuisance complaints related to the site work or cover system placement activities were received.

4.2.5 CAMP Results

Community air monitoring was performed during times of intrusive activity (e.g.,impacted soil/slag-fill excavation, backfilling, piping installation, and subgrade preparation work), excluding dates where precipitation mitigated emissions and precluded monitor setup. Per the CAMP, action limits of 100 ug/m3 for respirable particulates and 5 ppm for organic vapors were employed. No exceedances of the CAMP action levels were recorded during the Work. Appendix C includes the community air monitoring documentation.

4.2.6 Reporting

A LiRo representative was on-site to observe and document all construction activities. Daily Work Reports that include photographs taken during construction activities are included in electronic format in Appendix A, and Appendix D includes the digital photo log.

4.3 CONTAMINATED MATERIALS MANAGEMENT

As per the project plans, all excavated/removed material from within the BCP work areas remained on site in a NYSDEC-approved spoil area. The area where materials were spoiled is shown in Figure 3. The material was spread in lower-lying areas in a layer approximately 6 inches thick and was then hydroseeded.

4.3.1 RCRA Area

For construction of the new culvert and crossing at the South Return Water Trench (SRWT) area, approximately 435 cubic yards of sediment was removed from the waterway and 45 cubic yards of rock/concrete was removed from the right of way. The sediment and debris was staged adjacent to the SRWT and will be removed/disposed of by Tecumseh.

4.4 IMPORTED MATERIALS

4.4.1 Imported Cover Materials

The following materials and quantities were imported, with NYSDEC approval, to the locations shown on Figure 3 for the cover system and to support the redevelopment plan:

- Clean soil embankment and topsoil material (approximately 5,800 cubic yards) from the Brush Mountain Community Center Construction Project in Orchard Park was imported with NYSDEC imported fill approval. This material was used for roadway embankment, clean fill in the utility trench and for topsoil.
- Approximately 5,000 tons of crushed stone for roadway subgrades and utility trenches were imported from County Line Stone in Akron, NY

The clean soil embankment and topsoil material was excavated for construction of a 7-acre pond at the Brush Mountain Community Center Construction Project in Orchard Park, and was transported to the Site. As such, volumes and tonnage estimates are based on truck counts and volume calculations from pre and post-survey datum. Appendix B includes imported material documentation.

4.5 CONTAMINATION REMAINING AT THE SITE

4.5.1 Soil

According to the Decision Documents (December 2016) for the Site, exceedances of unrestricted use site cleanup objectives (SCOs) for metals and semivolatile organic compounds (SVOCs) are common in the soil and fill at the site. Any areas outside of the project cover limits remain as such.

Within the project area, a demarcation layer was constructed and placed so as to easily identify the existing Site sub-grade from the cover system material, and prevent the potential for inadvertent removal of sub-grade material during future intrusive work. The demarcation layer is comprised of an orange ¾-inch plastic industrial netting material.

4.6 COVER SYSTEM

Exposure to remaining contamination in soil/slag-fill is prevented by a cover system comprised of:

- Hardscape from the newly installed 1,500 feet two-lane asphalt covered road on Subparcels II-8 and II-9.
- To the south of the new road, between the curb and right of way, a grassed area was constructed.
- To the north of the new road a grassed area was constructed, which includes a 5-foot wide concrete sidewalk and clean utility trench.
- A minimum of 12 inches of soil material previously imported from Brush Mountain Community Center Construction Project in Orchard Park.
- Existing active rail and stone bedding that included placement of a minimum 1-foot layer comprised of ballast material, and embedded wood rail ties. A demarcation fabric was installed on the prepared subgrade prior to placement of the ballast layer and rail ties.

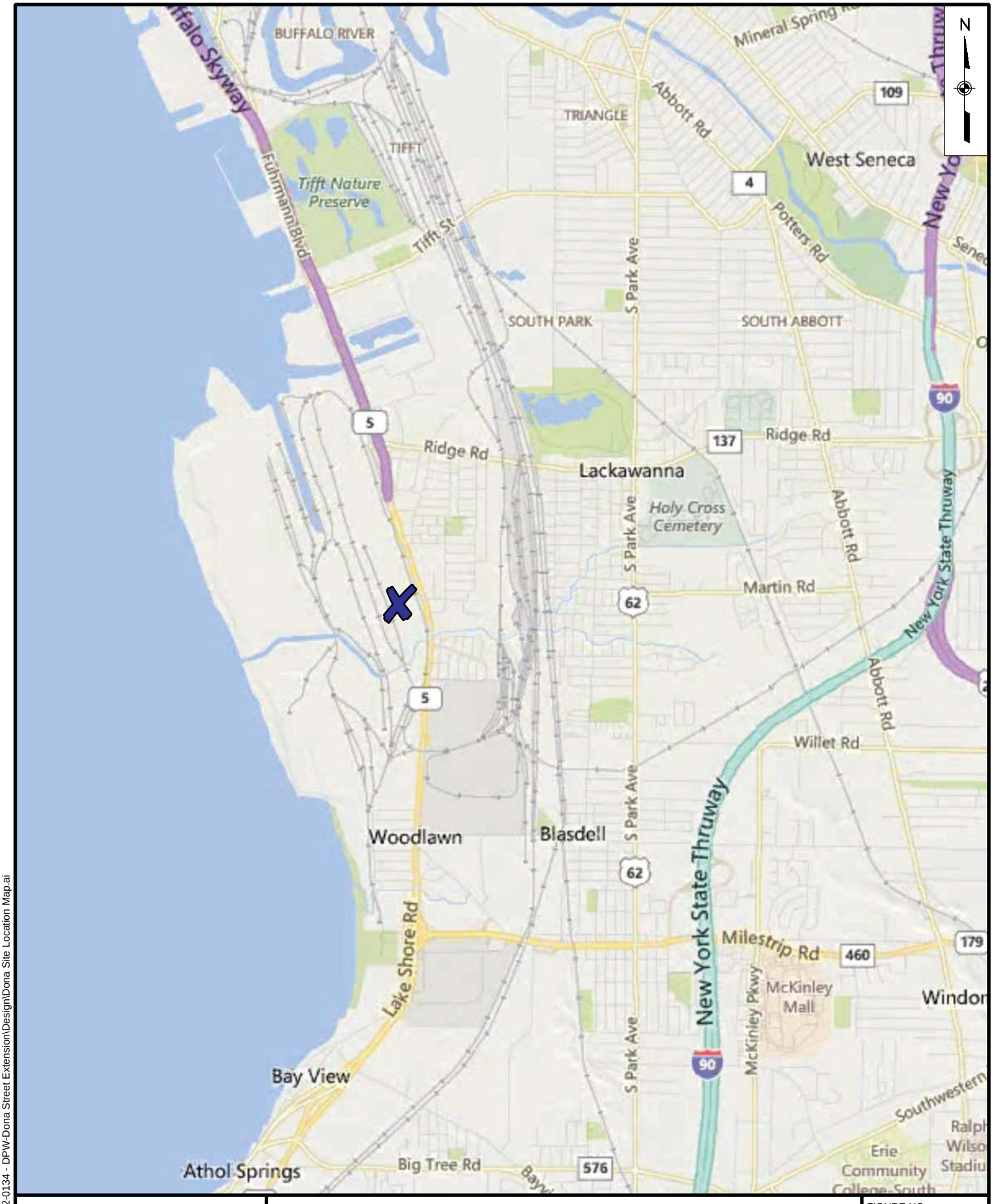
As properties are developed in the future along the Dona Street extension corridor, cover systems in compliance with the site SMP will be installed. It is anticipated that this work will be completed on a site-by-site basis.

TABLES

Table 1 - Backfill Quantities and Sources

Backfill	Quantity	Source
Top Soil	1055 CY	Brush Mt. Park, Town of O.P
Embankments - Grading	4850 CY	Brush Mt. Park, Town of O.P
Subbase Stone/Granular Fill	1750 CY	Gernett's & County Line Stone

FIGURES



LiRo-Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

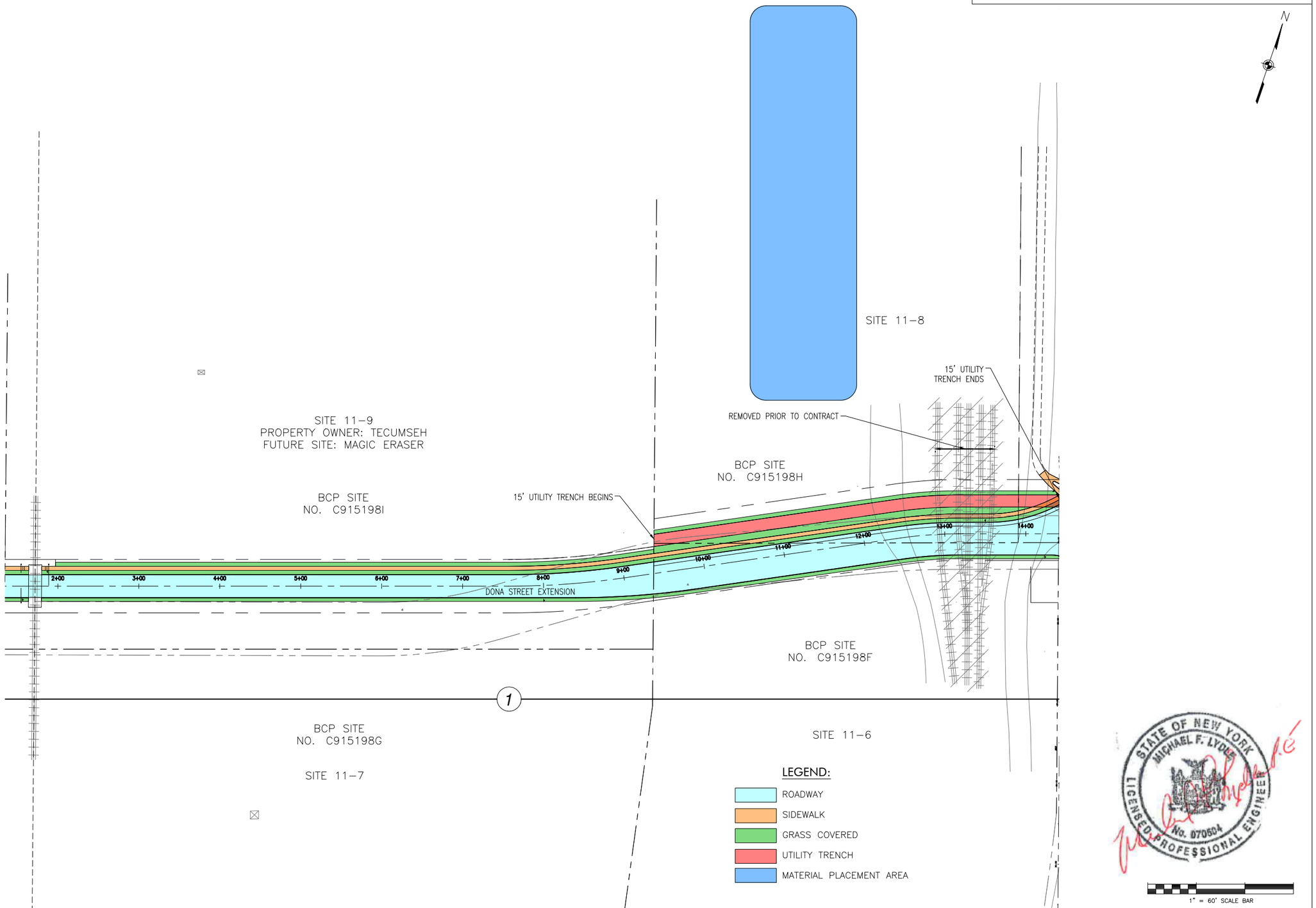
SITE LOCATION MAP

FIGURE NO.

1

V:\Erie County\17-162-0134 - DPW-Dona Street Extension\Design\Dona Site Location Map.ai

DONA STREET EXTENSION
DEP-DONA-18



STATE OF NEW YORK
MICHAEL F. LYDON
LICENSED PROFESSIONAL ENGINEER
No. 070604

1" = 60' SCALE BAR

NO.	DATE	DESCRIPTION
REVISIONS		

LiRo Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

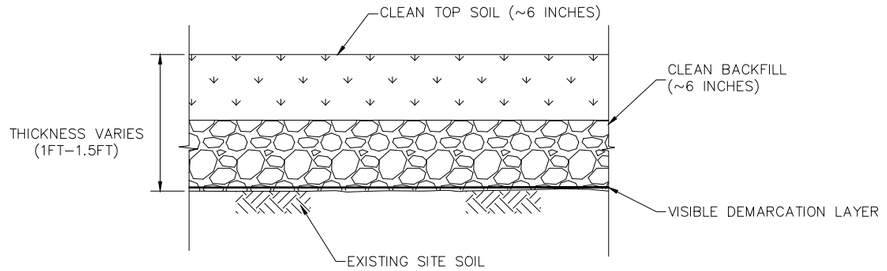
Erie County Department of Public Works - Division of Highways
95 Franklin Street - 14th Floor
Buffalo, New York 14202

DONA STREET EXTENSION

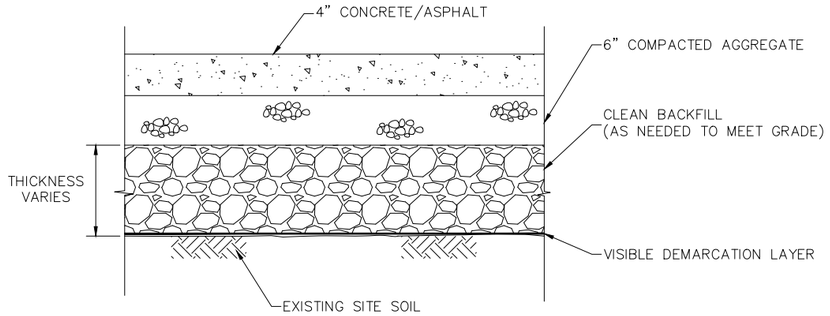
WORK AREA AND COVER SYSTEM

Sheet No. 2 of 3
Date May 2020
Scale As Noted
FIGURE 2

V:\Erie County\17-162-0134 - DPW-Dona Street Extension\Design\Construction Completion\DONA CONST COMPLETION FIGURE 2.dwg 5/18/2020 4:20 PM



CLEAN SOIL COVER (GRASS AREAS)



CONCRETE/ASPHALT COVER (SIDEWALKS AND ROADWAY)

CLEAN UTILITY TRENCH

STATE OF NEW YORK
MICHAEL F. LYDON
LICENSED PROFESSIONAL ENGINEER
No. 070604

NOT TO SCALE

NO.	DATE	DESCRIPTION
REVISIONS		

LiRo Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

Erie County Department of Public Works - Division of Highways
95 Franklin Street - 14th Floor
Buffalo, New York 14202

DONA STREET EXTENSION

COVER SYSTEM CROSS-SECTION

Sheet No. 3 of 3
Date May 2020
Scale As Noted
FIGURE 3

V:\Erie County\17-162-0134 - DPW-Dona Street Extension\Design\Construction Completion\DONA CONST COMPLETION FIGURE 3.dwg 5/18/2020 4:20 PM

APPENDIX A

Daily Work Reports

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **11-29-2018**

Day of Week: S | M | T | W | X | F | S

Sheet No. **1** of **2** DWR No. _____

	AM		PM	
Weather	**Rain**		**Rain**	
Temperature	**33**	**° F**	**35**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Hammer on concrete substructure at approx. Station 04+30 adjacent to the eastern-most power line. The structure is approx. 80'x 10'x4'deep. The dust generated from the hammer dissipates within 50 feet of the work. Based on the location, weather and wind direction, this work has no adverse effects to the surrounding public.

A complete walk of the site reveals the following observations:

Station 01+95 to 03+20 – Full width area scraped to toward subgrade with C/D debris left at the surface. There is no staining, sheen nor apparent adverse effect to the subsurface soil resulting from the presence of the debris.

Station 03+60 – Stockpile of scraped material from Station 01+95 to 03+20. Black/Brown fine to coarse sand and gravel with minor silt and areas of minor clay content. No discolorations nor sheens associated with the stackpile.

Station 04+30 – current work described above.

Station 05+75 – concrete structure (unexcavated) approx. dimensions 10'x 3' x 4' depth

Station 06+10 to 06+85 – concrete structure (partially excavated) approx. dimensions 80'x 75' x 5' depth. No signs of contamination – clear water exists in low-lying areas. The matrix of the concrete has a light green hue. The color is possibly due to the previous on-site batch plant utilizing slag in the matrix of the cement mix. I informed the on-site workers to avoid direct inhalation of any dust related to the removal.

Station 05+50 to 07+50 – to the north of the Project ROW there exists a staging area approx. 200' width 400' wide with silt sock installed and Project stockpiles staged from surface scrape. These stockpiles consist of material similar to other Project stockpiles(above) with outlying stains nor sheens associated with the material.

Inspector's Initials: _____

MURK 1-1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

Station 07+75 – concrete structure (unexcavated) approx. dimensions 10'x 5' x 3' depth

Station 09+90 – concrete structure (excavated) approx. dimensions 10'x 5' x 3' depth. No soil staining nor sheens in this area.

Station 10+00 – concrete structure (excavated) approx. dimensions 10'x 5' x 4' depth. No soil staining nor sheens in this area.

Station 10+50 – concrete structure (excavated) approx. dimensions 12'x 5' x 3' depth. No soil staining nor sheens in this area.

Station 10+70 – concrete structure (excavated) approx. dimensions 12'x 2' x 1' depth. No soil staining nor sheens in this area.

Station 10+50 to 14+50 – this segment is excavated to approximate subgrade. There are no visible signs of discolored soil nor any sheen. All surface water was inspected without any visible sheen.

Northeast Corner Staging Area – consists of scraped material from Station 10+50 to 14+50. Inspection of the stockpiles reveal no staining nor sheen of any soil.

Zoladz Crew

1 Foreman

2 Operators - 1 hammering concrete, 1 loading and transporting waste for recycling

1 Laborer - cutting rebar

Inspector's Initials:_____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **11-30-2018**

Day of Week: S | M | T | W | T | X | S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Fog**		**Fog**	
Temperature	**30**	**° F**	**33**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Hammer on concrete substructure at approx. Station 06+10 to 06+85 – concrete structure (partially excavated) approx. dimensions 80'x 75' x 5' depth. No signs of contamination – clear water exists in low-lying areas. The dust generated from the hammer dissipates within 50 feet of the work. Based on the location, weather and wind direction, this work has no adverse effects to the surrounding public.

Zoladz Crew
1 Forman
2 Operators - 1 hammering concrete, 1 loading and transporting waste

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **12-03-2018**

Day of Week: S [X] M T W T F S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	Fog		Fog	
Temperature	35	° F	33	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Hammer on concrete substructure at approx. Station 06+10 to 06+85 – concrete structure (partially excavated) approx. dimensions 80'x 75' x 5' depth. No signs of contamination – clear water exists in low-lying areas. The dust generated from the hammer dissipates within 50 feet of the work. Based on the location, weather and wind direction, this work has no adverse effects to the surrounding public.

Zoladz Crew
1 Forman
2 Operators - 1 hammering concrete, 1 loading and transporting waste
1 Laborer - cutting concrete

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **12-04-2018**

Day of Week: S | M | [X] | W | T | F | S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Cloudy**		**Cloudy**	
Temperature	**30**	**° F**	**32**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 10mph from the NNW.

DustTrac 29 is setup as background in Material Staging Area Station 13+00 - 150 ft north

DustTrac 82 is setup as downwind at approx Station 06+50 south of the work area 75 ft south

DustTrac 54 is setup as upwind at approx Station 06+20 north of the work area 200 ft north

Hammer on concrete substructure at approx. Station 06+10 to 06+85 – concrete structure (partially excavated) approx. dimensions 80'x 75' x 5' depth. No signs of contamination – clear water exists in low-lying areas. The dust generated from the hammer dissipates within 50 feet of the work. Based on the location, weather and wind direction, this work has no adverse effects to the surrounding public.

Zoladz Crew

1 Forman

2 Operators - 1 hammering concrete, 1 loading and transporting waste

By the end of this shift Station 0 to 07+00 is complete with concrete structure removal. Between 08+00 and 10+50, the north side of the Project still has concrete structures in the way of new sanitary sewer installations. All hammering and excavation work results in loading material that contains no discoloration nor sheen in any open pits with surface water.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/background values from the respective instruments. All readings ranged between (3) and (14) ug/m3, with the highest readings of (12) and (14) ug/m3 coming from the upwind and background locations.

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 12-05-2018

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	20	° F	27	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 10mph from the SW.

DustTrac 29 is setup as background in Material Staging Area Station 13+75 - 150 ft north

DustTrac 54 is setup as upwind at approx Station 09+95, south of the work area 75 ft south

DustTrac 82 is setup as downwind at approx Station 09+80 north of the work area 50 ft north

Zoladz attempts to pump excavation pits to properly visualize the concrete substructure configuration which was unsuccessful. The south side sewer installation requires substantial concrete substructure removal. Zoladz continues to remove concrete from Station 08+00 to 11+00 with no evidence of stained soils nor sheen in any surface water.

Station 01+00 to 07+00 rough grade and roll to approximate subgrade. No signs of contamination - clear water exists in low-lying areas.

Zoladz Crew

1 Forman

2 Operators - 1 hammering concrete, 1 loading and transporting waste

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/background values from the respective instruments.

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 12-06-2018

Day of Week: S | M | T | W | X | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Snow		Rain	
Temperature	27	° F	35	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 10mph from the SW.

Because of heavy snow (AM) and rain (PM) - DustTracs were not setup today

Station 10+00 south side - Zoladz attempts again to pump excavation pits with the use of crushed stone set in a deeply excavated pit, to properly visualize the concrete substructure configuration below. This again was unsuccessful.

STation 09+00 to 11+00 - Zoladz continues to remove concrete along the north side of the new roadway with no evidence of stained soils nor sheen in any surface water.

Zoladz Crew
1 Forman
2 Operators - 1 hammering concrete, 1 loading and transporting waste

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 12-07-2018

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	22	° F	30	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 15mph from the N.

DustTrac 29 is setup as background in Material Staging Area Station 13+00 - 150 ft north
DustTrac 82 is setup as downwind at approx Station 10+00 - 50 ft to the south of South ROW
DustTrac 54 is setup as upwind at approx Station 10+00 - 25 ft to the north of North ROW

Station 10+00 north side - Zoladz continues to remove concrete in this area. 2 additional structures were found at 10+50. No staining nor sheens were observed in any disturbed soils or surface water.

Station 02+00 to 03+50 - Zoladz removes C/D debris from the center portion of thee new roadway, along with concrete structure at new utility locations. No staining nor sheens were observed in any disturbed soils or surface water.

Station 04+50 - Zoladz removes concrete structures at new utility locations. No staining nor sheens were observed in any disturbed soils or surface water.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/background values from the respective instruments.

Zoladz Crew
1 Forman
2 Operators - 1 hammering concrete, 1 loading and transporting waste

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 12-10-2018

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	30	° F	30	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 15mph from the SSW.

DustTrac 29 is setup as background in Material Staging Area Station 13+00 - 150 ft north
DustTrac 82 is setup as downwind at approx Station 10+20 - 30 ft to the north of North ROW
DustTrac 54 is setup as upwind at approx Station 08+20 - 50 ft to the south of South ROW

Station 10+00 north side - Zoladz continues to remove concrete in this area. No staining nor sheens were observed in any disturbed soils or surface water.

Station 02+00 to 03+50 - Zoladz removes C/D debris from the center portion of thee new roadway, along with concrete structure at new utility locations. No staining nor sheens were observed in any disturbed soils or surface water.

Station 04+50 - Zoladz continues removing concrete structures at new utility locations. No staining nor sheens were observed in any disturbed soils or surface water.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/background values from the respective instruments.

Zoladz Crew
1 Forman
2 Operators - 1 hammering concrete, 1 loading and transporting waste

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 12-11-2018

Day of Week: S | M | X | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	34	° F	37	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 15mph from the WSW.

DustTrac 29 is setup as background in Material Staging Area Station 13+00 - 150 ft north

DustTrac 82 is setup as downwind at approx Station 10+20 - 30 ft to the south of ROW

DustTrac 54 is setup as upwind at approx Station 08+20 - 50 ft to the north of ROW

Station 10+00 north side - Zoladz continues to remove concrete in this area. No staining nor sheens were observed in any disturbed soils or surface water.

VERIFY Station 02+00 to 03+50 - Zoladz removes C/D debris from the center portion of thee new roadway, along with concrete structure at new utility locations. No staining nor sheens were observed in any disturbed soils or surface water.

Station 04+50 - Zoladz continues removing concrete structures at new utility locations. No staining nor sheens were observed in any disturbed soils or surface water.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/background values from the respective instruments.

Zoladz Crew

1 Forman

2 Operators - 1 hammering concrete, 1 loading and transporting waste

Smokes Creek water parameters measured from Horiba U-5000 instrument

Parameter	Reading (after 5 mins)	Parameter	Reading (after 5 mins)
Temp	5.21 deg C	DO	8.16 mg/L
pH	7.71	TDS	1.26 g/L
pH(mV)	-47		
ORP(mV)	198		
Conductivity	197 mS/cm		

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 12-12-2018

Day of Weekly: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Cloudy	
Temperature	29	° F	34	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 5mph from the SW.

DustTrac 29 is setup as background in Material Staging Area Station 13+00 - 100 ft north

DustTrac 82 is setup as downwind at approx Station 02+50 - 25 ft north of the North ROW

DustTrac 54 is setup as upwind at approx Station 02+00 - 50 ft south of the South ROW

Station 02+25 central portion of the ROW - Zoladz removes additional concrete in this area of C/D debris. No staining nor sheens were observed in any disturbed soils or surface water. Later, Zoladz rough grades this area.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/background values from the respective instruments.

Zoladz Crew

1 Forman

2 Operators - 1 hammering concrete, 1 loading and transporting waste

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 12-13-2018

Day of Week: S | M | T | W | X | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Cloudy	
Temperature	34	° F	39	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 15mph from the S.

DustTrac 29 is setup as background in Material Staging Area Station 13+00 - 100 ft north
DustTrac 82 is setup as downwind at approx Station 02+50 - 25 ft north of the North ROW
DustTrac 54 is setup as upwind at approx Station 02+00 - 50 ft south of the South ROW

Station 02+25 central portion of the ROW - Zoladz removes additional concrete in this area of C/D debris. No staining nor sheens were observed in any disturbed soils or surface water. Later, Zoladz rough grades this area.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/background values from the respective instruments.

Zoladz Crew
1 Forman
2 Operators - 1 hammering concrete, 1 loading and transporting waste

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 12-14-2018

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	39	° F	44	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 15mph from the S.

DustTrac 29 is setup as Site Boundary in Material Staging Area Station 13+00 - 100 ft north
DustTrac 82 is setup as downwind at approx Station 02+50 - 25 ft north of the North ROW
DustTrac 54 is setup as upwind at approx Station 02+00 - 50 ft south of the South ROW

Station 02+25 central portion of the ROW - Zoladz removes additional concrete in this area of C/D debris. No staining nor sheens were observed in any disturbed soils or surface water. Later, Zoladz rough grades this area.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/background values from the respective instruments.

Zoladz Crew
1 Forman
2 Operators - 1 hammering concrete, 1 loading and transporting waste

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 12-17-2018

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Snow	
Temperature	35	° F	33	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 15mph from the WSW.

DustTrac 29 is setup as Site Boundary in Material Staging Area Station 13+00 - 100 ft north

DustTrac 82 is setup as downwind at approx Station 04+50 - at the North ROW

DustTrac 54 is setup as upwind at approx Station 01+50 - within the ROW west of RR Tracks

Station 02+25 central portion of the ROW - Zoladz removes additional concrete in the area of C/D debris. No staining nor sheens were observed in any disturbed soils or surface water. Later, Zoladz rough grades this area.

Later Station 01+50 central portion of the ROW - Zoladz removes additional concrete in this area. No staining nor sheens were observed in any disturbed soils or surface water. Later, Zoladz rough grades this area.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/background values from the respective instruments.

Zoladz Crew

1 Foreman

1 Operators - hammering concrete, loading and transporting waste with assistance from Foreman

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **12-18-2018**

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	25	° F	30	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 15mph from the N.

DustTrac 29 is setup as Site Boundary in Material Staging Area Station 13+00 - 100 ft north
DustTrac 54 is setup as upwind at approx Station 04+50 - 10 feet north of the North ROW
DustTrac 82 is setup as downwind at approx Station 02+00 - 10 feet south the South ROW

Station 02+75 central portion of the ROW - Zoladz removes additional concrete in the area of C/D debris. No staining nor sheens were observed in any disturbed soils or surface water.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/site boundary values from the respective instruments.

Zoladz Crew
1 Foreman
1 Operators - hammering concrete, loading and transporting waste with assistance from Foreman

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 01-03-2019

Day of Week: S | M | T | W | X | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	32	° F	30	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 25mph from the W.

DustTrac 29 is setup as Site Boundary in Material Staging Area Station 13+00 - 100 ft north
DustTrac 54 is setup as downwind at approx Station 08+50 - at the south ROW
DustTrac 82 is setup as downwind at approx Station 10+00 - at the north ROW

Station 00+00 to 02+50 on both sides Smokes Creek and east of RR tracks- Zoladz removes additional concrete in the area of C/D debris. Then Zoladz grades and compacts stockpiles to create subgrade at this end of the job. No staining nor sheens were observed in any disturbed soils or surface water.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/site boundary values from the respective instruments.

Zoladz Crew
1 Foreman
1 Operators - hammering concrete, loading and transporting waste with assistance from Foreman

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 01-04-2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	37	° F	47	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 20mph from the SW.

DustTrac 29 is setup as Site Boundary in Material Staging Area Station 13+75 - 100 ft north

DustTrac 54 is setup as downwind at approx Station 11+50 - at the south ROW

DustTrac 82 is setup as downwind at approx Station 13+25 - 50 ft north of the north ROW

Station 13+00 - Zoladz removes additional concrete (8ft(N/S) x 15ft(E/W)) at the north ROW. Zoladz also breaks up large concrete debris at Station 13+50 75ft north of north ROW. No staining nor sheens were observed in any disturbed soils or surface water.

Station 10+00 to 11+00 - Zoladz completes concrete removal at depths below groundwater and backfills these pits. No staining nor sheens were observed in any disturbed soils or surface water.

Review of the data from the DustTracs shows no exceedances of the regulatory value of 100ug/m3 greater than the upwind/site boundary values from the respective instruments.

Zoladz Crew

1 Foreman

1 Operators - hammering concrete, loading and transporting waste with assistance from Foreman

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 02-18-2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Snow		Clear	
Temperature	25	° F	28	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 20mph from the SW.

Zoladz performs trucking Embankment Material - Item 203.03 from the Brush Mountain Community Center Construction Project - 4500 California Road, Orchard Park. I inspected the stockpile for quality and quantity. By day's end approx 1100 CYs of Embankment Material are transported to the Site.

It was conveyed to me that this material is excavated soil, the volume of which is now a 7-acre pond. The soil appears to be of good quality as the analytical results suggest. The quantity is estimated at 210 ft x 120 ft x 15 ft average height = 14,000 CYs.

Zoladz Crew

1 Foreman - operating dozer at 11-7 Area south of Dona Street Site.

10 Dump Truck Operators - transporting soil from Brush Mountain to Dona Street.

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **02-19-2019**

Day of Week: S | M | [X] | W | T | F | S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Clear**		**Clear**	
Temperature	**5**	° F	**15**	° F

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 20mph from the SW.

Zoladz continues trucking Embankment Material - Item 203.03 from the Brush Mountain Community Center Construction Project - 4500 California Road, Orchard Park. I inspected the stockpile for quality today - appears to still be of good quality. By day's end approx 2200 CYs are transported to the Temcumseh 11-7 area from Brush Mountain total between 2/18 and 2/19.

Zoladz begins cofferdam installation by installing trench boxes and stone at each end along with a sediment curtin at the downstream each end of the work zone. All installation tasks are completed in compliance with Contract documents.

Zoladz Crew
1 Foreman - operating dozer at 11-7 Area south of Dona Street Site.
10 Dump Truck Operators - transporting soil from Brush Mountain to Dona Street.

1- Forman - constructing the cofferdam at Smokes Creek with trackhoe, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 02-20-2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Sleet	
Temperature	17	° F	34	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 10mph from the E.

Zoladz continues trucking Embankment Material - Item 203.03 from the Brush Mountain Community Center Construction Project - 4500 California Road, Orchard Park. I inspected the stockpile for quality today - appears to still be of good quality. By day's end approx 3300 CYs are transported to the Temcumseh 11-7 area from Brush Mountain total since 2/18.

Zoladz continues cofferdam installation by pumping the water level down. All installation tasks are completed in compliance with Contract documents.

Zoladz Crew
1 Foreman - operating dozer at 11-7 Area south of Dona Street Site.
10 Dump Truck Operators - transporting soil from Brush Mountain to Dona Street.

1- Forman - constructing the cofferdam at Smokes Creek with trackhoe, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **02-21-2019**

Day of Week: S | M | T | W | [X] | F | S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Cloudy**		**Clear**	
Temperature	**35**	**° F**	**36**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 25mph from the WSW.

Zoladz continues trucking Embankment Material - Item 203.03 from the Brush Mountain Community Center Construction Project - 4500 California Road, Orchard Park. I inspected the stockpile for quality today - appears to still be of good quality. By day's end approx 4000 CYs are transported to the Temcumseh 11-7 area from Brush Mountain total since 2/18.

Zoladz continues cofferdam installation by continuing to pump the water level down. All installation tasks are completed in compliance with Contract documents. The approved laydown area construction begins on the east side of Smokes Creek south of Project ROW

Zoladz Crew

1 Operator - dozer at 11-7 Area south of Dona Street Site - grading all soil coming from OP.

10 Dump Truck Operators - transporting soil from Brush Mountain to Dona Street.

1- Forman, 1 Operator, 1 Laborer - constructing the cofferdam and laydown area containment at Smokes Creek with trackhoe, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **02-22-2019**

Day of Week: S | M | T | W | T | X | S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Cloudy**		**Cloudy**	
Temperature	**25**	**° F**	**37**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 5 mph from the W.

Zoladz continues cofferdam installation by continuing to pump the water level down. All installation tasks are completed in compliance with Contract documents. The laydown area construction continues on the east side of Smokes Creek south of Project ROW

Zoladz Crew

1- Forman, 1 Laborer - constructing the cofferdam and laydown area containment at Smokes Creek with trackhoe, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **02-25-2019**

Day of Week: S [X] M T W T F S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Cloudy**		**Snow**	
Temperature	**18**	**° F**	**28**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 45 mph from the W. Gusts to 70 mph.

Because of high winds and significant increase in water level against the cofferdams, Zoladz checks on pumps only. The water level at the cofferdams is at the top of structure and some remedial work is needed to restore cofferdam continuity.

Zoladz Crew

1- Foreman, 1 Laborer - checking on cofferdam and lay-down area containment at Smokes Creek with track hoe, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **02-26-2019**

Day of Week: S | M | X | W | T | F | S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Cloudy**		**Cloudy**	
Temperature	**16**	**° F**	**22**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 20 mph from the W. Gusts to 40 mph.

Zoladz repairs and shores up cofferdams and begins pumping water down again. The pump runs over night with the intent on excavating tomorrow.

Zoladz Crew

1- Foreman, 1 Laborer - repairing and shoring up cofferdam and lay-down area containment at Smokes Creek with track hoe, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **02-27-2019**

Day of Week: S | M | T | W | T | F | S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Snow**		**Snow**	
Temperature	**16**	**° F**	**18**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 15 mph from the W

Zoladz continues pumping water down.

Zoladz Crew

1- Foreman, 1 Laborer - repairing and shoring up cofferdam and lay-down area containment at Smokes Creek with track hoe, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: 03-01-2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	16	° F	34	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 4 mph from the NNE

Zoladz began excavating the stream yesterday, installed an additional sediment curtin to the south.

Stream clarity outside the sediment curtins is good. Zoladz continues excavating the stream bed to bottom of pay item 203.02. The containment cell is being utilized properly and is holding the excavated soil effectively.

Zoladz Crew

1- Foreman, 1 Laborer - removing contaminated soil and depositing the soil into the lay-down area containment parellel to Smokes Creek with track hoe, dump truck and, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 1, 2019

Day of Week: S [ ] M [ ] T [ ] W [ ] T [X] S [ ]

Sheet No. 1 of 1 DWR No. 78

	AM		PM	
Weather	Clear		Clear	
Temperature	10	° F	32	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations and started undercutting to remove unstable material (Item 203.02) in SWRT for new culvert. Medium stone (Item 620.04) is being used as fill in the under cut to stabilize. Compaction is being done with bucket on Hydraulic Track Excavator. Stone appears to have seated and be stable.

2) Material removed for installation of culvert is being placed and spread in designated staging area. The staging area has a filter fabric over top of existing ground. Water is being decanted from excavator bucket prior to loading on to 10 wheel tandem dumps.

3) Spoke with Mark Marcheson regarding the number of manhole covers needed. Mark was told 6 covers are for sanitary and 3 for storm sewer manholes. There is no change from original contract quantity.

4) Reviewed submittal Z-39 for light standard pre-cast foundations. Proposed foundation does not represent Standard Sheet 670-01. No computations came. Anchor bolts wrong for precast foundation Light Standards, no drainage slots provided. Thus submittal was rejected.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ [ ] Engineer-in-Charge [ ] Resident Engineer Date Reviewed: _____

[ ] MURK 1-1 CONTINUATION attached for additional narrative. [ ] MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) In accordance with contract plans and NYSDOT Standard sheets, excavation is to be performed under Item 203.02 Unclassified Excavation for undercut area.

Item 203.02: 222cy x $8.93 = $ 1,982
Item 620.04: 222cy x $95.49 = $21,199

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER					Skid Steer					
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS					Survey Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator with Hoe Ram					
MASONS					Quarry Truck					
OWN./OPERATORS										
Surveyor										
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **03-04-2019**

Day of Week: S [X] M T W T F S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Cloudy**		**Clear**	
Temperature	**16**	**° F**	**17**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 25 mph from the W.

Zoladz continues excavating the stream and is now installing large aggregate material beneath the Select Granular Fill Item 203.07.

Stream clarity outside the sediment curtin is good. The containment cell is being utilized properly and is holding the excavated soil effectively.

Zoladz Crew

1- Foreman, 1 Laborer - removing contaminated soil, replacing it it with large aggregate stone and depositing the soil into the lay-down area containment parellel to Smokes Creek with track hoe, dump truck and, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 4, 2019

Day of Week: S [X]M T W T F S

Sheet No. 1 of 1 DWR No. 79

	AM		PM	
Weather	Cloudy		Snow	
Temperature	17	° F	13	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations and undercutting to remove unstable material (Item 203.02) in SWRT for new culvert. Medium stome (Item 620.04) is being used as fill in the under cut to stabilize. Compaction is being done with bucket on Hydraulic Track Excavator. Stone appears to have seated and be stable.

2) Material removed for installation of culvert is being placed and spread in designated staging area. The staging area has a filter fabric over top of existing ground. Water is being decanted from excavator bucket prior to loading on to 10 wheel tandem dumps. Additional area north of current prepared staging area was cleared, stone brought in to form a berm and covered with a geotextile fabric. Mike Woodward directed to use caution when depositing excavated material to ensure over topping does not occur

3) Returned Zoladz cost proposal for the casing install using an agreed price worksheet to be used. I also provided a version I considered reasonable. Additional discussion will be had when Mark returns from a weeks vacation.

4) Returned official agreed price worksheet with final cost for including Item 620.04- stone filling (Medium). Item was not included in the bid documents but was shown on the plans.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Received an email chain from Mark Marcheson in which the ECWA is requiring a resolution from the City of Lackawanna for an annual maintenance fee to maintain the hydrants to be installed.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS	1				Survey Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator with Hoe Ram					
MASONS					Quarry Truck		1			
OWN./OPERATORS					10 Whl Tandem		1			
Surveyor										
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **03-05-2019**

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	9	° F	15	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 25 mph from the WSW.

Zoladz continues installing large aggregate material beneath the Select Granular Fill Item 203.07.

Stream clarity outside the sediment curtin is good. The containment cell is being utilized properly and is holding the excavated soil effectively. There appears to be a small area where the containment is over-filled. However the excavated material is not gone over the silt sock on the stream side. I alerted Zoladz of the issue. At this point this is not considered a breach of the containment.

Zoladz Crew

1- Foreman, 1 Laborer - removing contaminated soil, replacing it it with large aggregate stone and depositing the soil into the lay-down area containment parellel to Smokes Creek with track hoe, dump truck and, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 5, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. 80

	AM		PM	
Weather	Snow		Cloudy	
Temperature	6	° F	9	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations and continued undercutting to remove unstable material (Item 203.02) in SWRT for new culvert. Medium stome (Item 620.04) is being used as fill in the under cut to stabilize. Compaction is being done with bucket on Hydraulic Track Excavator. Stone appears to have seated and be stable.

2) Material removed for installation of culvert is being placed and spread in designated staging area. The staging area has a filter fabric over top of existing ground. Water is being decanted from excavator bucket prior to loading on to 10 wheel tandem dumps. Additional area north of current area (Approved area) was being prepped for extension of silt staging area.

3) Discussed work with Mike Woodward about under cutting operation, whether there is a need to remove the existing sheet piling and staging material and using caution when placing material to ensure it doesn't over-top the containment berm. All ok.

4) Discussed removal of rail tracks and time frame with Mike Woodward. His estimate of time to remove differs from cost proposal submitted for work. Further discussion will be needed.

5) Conducted bi-weekly progress meeting

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Sent email to Tony DeSantis (COL DPW) regarding ECWA statement of needing a resolution from COL for annual hydrant maintenance fees.

6) Discuss Maurice Moore, NYSDEC, regarding retention of sheet piling in ditch and whether flowable fill would be acceptable for filling in the voids of the plate arch pipes on the east side of the ditch.

a) Maurice was ok with retention of sheet piling

b) ok with using flowable fill, but is double checking to ensure there is no restrictions in the environmental documents.

7) Mark Marcheson sent via an email for a AWS certified welder certificate for Paul Swatland. I discussed the certification with a Certified welding instructor (Mark Debo) whether Paul was certified to perform the type of welding required for the 30" steel casing. M. Debo said he is qualified and that each weld will take about 8 passes to make a complete weld. His estimate of time is between 2 to 3 days to complete.

8) Mike Woodward introduced me to Casey ??. Casey will be the foremen on the job for the next 10 days while Mike will be out of town.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER					Skid Steer					
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS					Survey Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator with Hoe Ram					
MASONS					Quarry Truck					
OWN./OPERATORS										
Surveyor										
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **03-06-2019**

Day of Week: S | M | T | W | T | F | S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Clear**		**Clear**	
Temperature	**9**	**° F**	**14**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 25 mph from the WSW.

Zoladz continues installing large aggregate material beneath the Select Granular Fill Item 203.07.

Stream clarity outside the sediment curtin is good. The containment cell is being utilized properly and is holding the excavated soil effectively. There appears to be a small area where the containment is over-filled.

Zoladz Crew

1- Foreman, 1 Laborer - removing contaminated soil, replacing it it with large aggregate stone and depositing the soil into the lay-down area containment parellel to Smokes Creek with track hoe, dump truck and, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 6, 2019

Day of Week: S | M | T | ~~W~~ | T | F | S

Sheet No. 1 of 1 DWR No. 81

	AM		PM	
Weather	Clear		Cloudy	
Temperature	10	° F	16	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Discussed undercutting operation with Casey. Explained we were trying to keep the depth of excavation at 3'. He excavated from the steel sheet piling north. Depth of excavation ranged fron 2.5 to 3.5'. Medium stone (Item 620.04) is being used as fill in the under cut to stabilize. Compaction is being done with bucket on Hydraulic Track Excavator. Stone appears to have seated and be stable.

3) Obtained field measurement of ditch width approximately 24' wide. At the sheet piling location the width is 14.5' wide. The top of sheet piling in the SE corner (Elevation 577.54) is approximately .90' higher than the bottom of DS -19 (576.64). Since the sheeting is outside of the roadway and sidewalk and approximately 2.9' below subgrade a decission was made to only remove enough sheeting to facilitate DS #19 installation plus. Sheeting is to be cut approximately 3' down.

4) The existing steel plate arches in the east wall was to be removed as per the Engineer. In looking at the pipes it was found the initial 2.5' inward was a void. It was determined that in lieu of excavating and backfilling we would use CLSM material and fill the void. Approximately 20 CY will be needed.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Received email from Tony DeSantis (COL DPW) regarding ECWA statement of needing a resolution from COL for annual hydrant maintenance fees. He is looking into the matter.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS	1				Survey Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator with Hoe Ram					
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor										
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **03-07-2019**

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	12	° F	21	° F

CONTRACTOR WORK HOURS: 700AM TO 330PM

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 15 mph from the W.

Zoladz completes installing large aggregate material beneath the Select Granular Fill Item 203.07. Fabric is placed over the top of the large aggregate and select granular fill is placed over the fabric. The select granular fill is then compacted as the job photos shows from today.

At the south corner of the east sheet pile to remain (originally called out to be removed) Zoladz cuts access holes for the sewer installation at this location.

Stream clarity outside the sediment curtin is good. The containment cell is being utilized properly and is holding the excavated soil effectively.

Zoladz Crew

1- Foreman, 1 operator, 2 Laborer - with track hoe (bucket and compaction tamper), dump truck and, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 7, 2019

Day of Week: S | M | T | W | X | F | S

Sheet No. 1 of 2 DWR No. 82

	AM		PM	
Weather	Cloudy		Clear	
Temperature	10	° F	17	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime completed the under cut (Item 203.02) and placement of Medium stone (Item 620.04) in the under cut area. Compaction was done with bucket on Hydraulic Track Excavator. Stone appears to have seated and be stable. The surface of the medium stone was covered with select fill to fill any voids. For quantity work up see sheet 2 of 2 this IR. (Note 620.04 hold for CO-02 Approval)

3) Prime placed approved geo-textile fabric over the medium stone/select fill area (Item 207.20) The fabric was placed across the entire bottom and partially up the side. A 4" +/- overlap was done due to nominal width of fabric. No additional payment for overlap will be made. All work according to plans, spec or AOBE. See sheet 2 Of 2 for quantity calculations this IR.

4) Prime began placement of Select Granular Fill (Item 203.07) over the geo-textile fabric in 6" uncompacted lifts (first lift partially placed this date). Compaction is being down with a hydraulic tamper attached to the tack excavator.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.02				CY	482.22		Undercut SWRT, Excavation & KEy-in		
207.20				SY	304.00		Geo-Textile Fabric SWRT		
620.04							Under cut area. Hold for CO-2 approval		
552.15				SF	43.29		Interim Steel Sheeting - SE Corner of Sht Pile rem.		

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Prime cut with a steel saw the existing SE corner of the sheet piling. Work will be paid under Item 552.15 - Interim Steel Piling as per plan. Located immediately behind the steel sheet is a concrete sub-structure. Prime was directed to remove a portion of the concrete foundation down approximately 2'. Work will be under (Item 202.19- Substructure Removal). See sheet 2 of 2, this IR for quantity calculations

6) Emailed pencil copy of Pay Estimate 03 quantities to Mark Marcheson for review. Estimate 3 closed February 28, 2019. This estimate will cover from January 1, 2019 to February 28, 2019. No estimate was processed for January 2019 as work did not exceed $50K. Estimate 03 will contain quantities approved in Change Order #01.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS	1				Survey Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor										
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 7, 2019

Day of Week: S | M | T | W | X | F | S

Sheet No. 2 of 2 DWR No. 82

	AM		PM	
Weather				
Temperature				

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Item Item 203.02 Unclassified Excavation

To Date: 3/7/2019- Area under cut was for the length of pipe 120'

Location: Under cut for 96" pipe. (South to north)

	width	length	area	depth	Vol (CY)
Area 1	24	27	648	3	72.00
Area 2	15	16	240	3	26.67
Area 3	24	25	600	3	66.67
Area 3a	24	10	240	0	0.00
Area 4	24	18	432	2	32.00
Area 5	24	24	576	3	64.00
Under Cut TOTALS					261.33 CY

Regular Pipe only

	width	LENGTH	surface area	ave depth	vol (cy)
Area 1	24	27	648.00	1.5	36.00
Area 2	15	16	240.00	1.25	11.11
Area 3	24	25	600.00	1.5	33.33
Area 3a	24	10	240.00	1.5	13.33
Area 4	24	18	432.00	1.5	24.00
Area 5	24	24	576.00	1.5	32.00
Sub Total					149.78 CY

Medium Stone Keyin

	width	Length	area	depth	vol (cy)
S.End	24	10	240.00	4	35.56
N.end	24	10	240.00	4	35.56
Sub Total					71.11 CY

Therefore: Item 203.02- Undercut = 261.33 CY

Non-Under Cut = 149.78 CY

Medium Stone Key-in = 71.11 CY

96" Culvert Excavation Total = 482.22 CY (F)

Inspector's Initials: _____

MURK 1-1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

Item 620.04 - Stone Filling (Medium) (CY)

Undercut = 261.33 CY Hold for CO-02 Approval

Item 207.20 - Geo Textile Bedding (SY)

SWRT (2736 SF) = 304.00 SY

Item 552.15 - Interim Steel Sheeting (SF)

Field Measured

SE Corner of SWRT sheet piled area.

3.33 x 13' = 43.29 SF

Inspector's Initials: _____

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **03-08-2019**

Day of Week: S | M | T | W | T | X | S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Clear**		**Clear**	
Temperature	**5**	**° F**	**31**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 15 mph from the W.

Zoladz completes installing the base of Select Granular Fill Item 203.07. Zoladz today installs No 1 stone and completes the installation of Item 203.07 The No 1 stone is a self-compacting stone.

Stream clarity outside the sediment curtin is good. The containment cell is being utilized properly and is holding the excavated soil effectively.

Zoladz Crew

1- Foreman, 1 operator, 2 Laborer - with track hoe (bucket and compaction tamper), dump truck and, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 8, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 2 DWR No. 83

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	10	° F	30	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime continues placement of Select Granular Fill (Item 203.07) over the geo-textile fabric in 6" uncompacted lifts (first lift partially placed this date). Compaction is being down with a hydraulic tamper attached to the track excavator.

3) Discussed with Casey about removal of the upper section of wall atop the retaining wall designated to remain. The top 20" is comprised of clay speed tile mixed with brick and mortar encased in a 4" shell of concrete. Some sections are missing and the remaining section under the roadway and sidewalk section is in bad shape. Casey was instructed to remove and payment would be under Item 203.02 as long as they did not employ a hoe ram. Casey spoke with Jeff Leavell and was ok. Casey helped me measure the lengths of wall to be removed. Payment to be made when work is complete.

4) Reexamined up close the steel plate arch culverts pipes on the east side of the SWRT. The pipes are fully filled with only the front section (2-2.5' deep) not fully plugged. Zoladz is in favor of filling the void with CLSM when the select stone back fill reaches a reasonable height. The quantity of CLSM will be included as part of the agreed price for Item 999.01.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY	0.00				

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Received submittal for Project Sign. Sign sheet meets project requirements. Payment is included with Item 619.01.

6) received confirmation from Zoladz accepting quantities for Estimate 03. Clarification from Gina is needed to finalize estimate for Zoladz submission.

7) There is an existing 12" Steel pipe protruding from east bank of SWRT. Casey was instructed that the pipe is to be cut back and plugged according to details in plans with the exception that CLSM will not be required to fill the pipe. There are no provisions for this work in the plans.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS	1				Survey Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor										
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona St Ext from Rt 5 to Tecumeh Highway #7
Project Number DEP-DONA-18
Contractor: Zoladz Construction
Environmental Inspection Daily Report
Michael P. Byrne P.G.

Date: **03-11-2019**

Day of Week: S [X] M T W T F S

Sheet No. **1** of **1** DWR No. _____

	AM		PM	
Weather	**Clear**		**Clear**	
Temperature	**35**	**° F**	**32**	**° F**

CONTRACTOR WORK HOURS: **700AM** TO **330PM**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Winds 25 mph from the WSW.

Zoladz completes installing No 1 stone and completes the installation of Item 203.07 The No 1 stone is a self-compacting stone.

Stream clarity outside the sediment curtin is good. The containment cell is being utilized properly and is holding the excavated soil effectively.

Zoladz Crew

1- Foreman, 1 operator, 2 Laborer - with track hoe (bucket and compaction tamper), dump truck and, 2 trailer-mounted water pumps.

Inspector's Initials: _____

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 11, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. 84

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	34	° F	33	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime worked on removing debris consisting of rock, concrete and other construction debris from the top of the bank on the east side and from the west side of the SWRT. Maerila is being placed in delineated area for non-SWRT trench in preparation for placement of the 96" pipe scheduled for tomorrow. Casey was informed that the sides of the SWRT where there is no concrete will require benching when backfilling. Casey assured me he willl excavate benches as he brings up the backfill of the pipe.

3) Prime removed a section of concrete foundation from behind the steel retaining wall that was removed last week to provide for DS-19 and the pipes. (Item 202.19) (4.32 CY). Request for payment will be at a later date.

4) Received email from Anthony DeSantis, City of Lackawanna DPW Commissioner regarding ECWA request for a resolution to provide for an annual maintenance fee from COL to ECWA. Resolution for fee payment will be approved at next Common Council Meeting, March 18, 2019.

5) Emailed copy of Estimate 03 for processing.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY	0.00				
202.19				CY	4.32		Removal of Foundation behind Steel Sheeting.		

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS	1				Survey Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor										
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 12, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. 85

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	22	° F	32	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime set 120 LF of Corrugated Steel pipe, Polymer coated, 96", 12 gauge. (Item 603.842812). The pipe was set on a bed of No. 1 stone bedding to provide full bearing under the pipe. No additional payment for bedding stone. All steel bands were tighten. Work according to plans, specs and AOBE. (Pay 120.00 LF)

3) Discussed with Casey (Foreman). The 96" is to be backfill to subgrade for the roadway width plus 10 feet each side with select granular stone, (Item 203.07). This is consistent with standard treatment for backfill of pipes in roadway. Confined area along with moisture content of embankment material raised concerns that material compaction would be difficult to achieve, obtain a 95% proctor bearing value and ultimately support 120 ton trucks entering/leaving welded tube.

4) Met with Mark Marcheson (Zoladz) and discussed various items as follows:
a) Discussed backfill of culvert pipe and the upper limit of fill within roadway section will be with select granular material. Mark asked for a email to confirm this direction. Email will be sent.
b) Identified note in plans that compaction test is the contractors responsibility. Mark will look into this.
c) Discussed Frame, grate and curb box installation. Strongly recommended cast-in place concrete will provide the required anchorage, cross slope and profile. Setting on pre-cast cap is not prefer

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY	0.00				
603.842812				LF	120.00		Corrugated 96" pipe in SWRT.		

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4d) Marked asked about filing a claim for hardship due to severe weather over 2/24/19 and 2/26/19 in which the lake level raised an estimated 7 feet and caused the SWRT to raise and overtop the cofferdam. Mark states 2-3 days of production was lost due to severe weather. Mark thought a clause was in the contract manual that allows him to do. We would look into. I stated that I am not sure if this would qualify.
e) Discussed Open cut cost proposal, I explained that I felt some hours were excessive and that I would forward him my estimate of work for his review and countering.
f) Mark believes the embankment quantity mat be as much as 500 cy higher than the contract quantity due to the revised profile at the RR track. I stated that final embankment quantity will be based on final survey. I also reminded Mark that both his Superintendents stated that they purposely left the proposed subgrade 4" higher in the initial cut until the utilities were in place and the section could be trimmed. This will be taken into account that the subgrade was not to original grade. (LiRo CADD people are looking at embankment quantity)

5) Met on-site at the Welded Tube Plant entrance with Anne Evans of Barclay-Damon and various Welded Tube supervisors and associates to discuss the proposed Easement to the County. I showed them the approximate limits of the easement and then showed the extent of the work for the entrance area is limited to milling and paving. They did not object to the easement or scope of work but had concerns that for the 80 trucks a day that go in and out of the gate. I explained we would maintain traffic but there would most likely be minimal delays due to the work. They inquired if paving and milling could be done at night or on weekends. I said we would evaluate this option. I then explianed the entire scope of the project and that the road may be constructed but will not be functional until all signal work on Rte 5 has been completed.

6) I emailed Gina W. (ECDPW) of meeting and work progress. Discussed including CLSM quantity for filling in the ends of the steel arches in the cost proposal for the open cut since CLSM is included in the the filling of the void in the casing. Gina instructed me to keep separate for auditing purposes. I will work on an agreed price for this work with Zoladz.

7) Mark sent back a signed copy of estimate 03 detail sheet only. I responded that the estimate could not be processed until all other documention submission are complete. Zoladz replied they are working on it.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS	1				Survey Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1									
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 13, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. 86

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	27	° F	42	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime worked on backfilling the 96" culvert pipe. The maximum uncompacted lift is less than 12" and a hydraulic tamper is being used. I talked with Mike Woodward and with Casey (Foreman). about the limits of select stone, benching the west embankment and compaction. Also instructed that compacted test will be required and Zoladz is to be responsible for this. I spoke with Mark Marcheson and requested information of the compaction equipment and that all compaction shall be in compliance with section 203 of the NYSDOT. Information forthcoming.

3) Discussed proposed procedure to fill in steel pipe arch ends in existing retaining wall. The backfill stone will be bermed up to create a dam to permit the flowable fill to fill the void. Mark Marcheson informed my they will be placing the flow fill tomorrow at 2PM the CLSM material was previously submitted and approved. The work will be tracked to developed an agreed price (Item 999.02).

4) Received updated/current welder certification for person welding the steel casing. The welder is approved for this type of pipe welding. Welding is scheduled to begin tomorrow.

5) Revised work plan for installation of frame,grates and curb boxes was received today. Review was begun and Zoladz is proposing to cast the frame in place rather than using pre-cast tops.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY	0.00				
				LF					

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

6) I was informed that the plans show a 2" galvanised steel electrical conduit is to be placed under the railroad and terminating to the last light pole. However the item number or quantity does not show in the quantity table. It also was not in the Bid Tabs. An agreed price will be needed for this Item 670.2003.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS	1				Survey Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1									
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 14, 2019

Day of Week: S | M | T | W | X | F | S

Sheet No. 1 of 1 DWR No. 87

	AM		PM	
Weather	Cloudy		Rain	
Temperature	43	° F	59	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime worked on backfilling the 96" culvert pipe. The maximum uncompacted lift is less than 12" and a hydraulic tamper is being used for initial lifts. When width permitted compaction was done with an Ingersol Rand Vibratory compactor SD-100/115/120/150. SJB Testing (Larry Hageman) on site for full day conducting proctor testing. An initial test identifed a reading of 93%. Prime recompacted with Hydraulic tamper and re-check found to be 97%. Remainder of test found a range from 97 to 101%. The moisture content was above optimal of 6.7 (7.1 registered) Zoladz was informed of high moisture content. This inspector identified an area which exhibit cracking in the surface and soft areas. The prime requested to leave in place for the moment as rain was beginning to start and they wanted to seal. I will re-evaluate tomorrow. Zoladz had switched from a limestone Select granular material to a gravel select granular material. Both products had been submitted and approved. DOT report material satisfied specification for select material and sselect structure fill.

3) Zoladz planned to placed CLSM for Steel Plate arches in east retaining wall. A dam was created with the stone material and the CLSM was vibrated in place to remove any air bubbles. Due to late afternoon rain the work is reschedule for tomorrow. Work will be under an agreed price for Item 999.02. Pending.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY	0.00				
				LF					

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4) Paul Swatland Jr., Certified welder worked on welding the 30" steel casing. One weld was completed. 6 passes was needed to complete the weld. Surface preparation was done with a grinder to bevel the edge and clean the surface. Multiple passes was needed to complete the weld, Electrodes E6010 and E7018 was used. A visual inspection found the weld to be continous with no deforamtions or pitting. The second weld was prepped. Welding will be completed tomorrow.

Welding crew consisted of: 1 welder with welding truck. Zoladz provided 1 operator to assist. A track skid steer Posi Track, RC-100 was used to make necessary pipe moves for welding.

5) Was informed that Verizon is scheduled to be on-site next week to lower telephone ducts at entrance from Rte 5.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS	1				Survey Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1									
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 15, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. 88

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	39	° F	41	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime worked on backfilling the 96" culvert pipe. The maximum uncompacted lift is less than 12" and a hydraulic tamper is being used for initial lifts. Compaction was done with an Ingersol Rand Vibratory compactor SD-100/115/120/150. SJB Testing on site to conducting proctor testing. Tests reading are above 95%. The moisture content was above optimal of 6.7 (7.1 registered) Zoladz was informed of high moisture content. This inspector identified an area which exhibit cracking in the surface and soft areas. The prime requested to leave in place and evaluate later.

3) Zoladz placed CLSM for Steel Plate arches in east retaining wall. A dam was created with the stone material and the CLSM was vibrated in place to remove any air bubbles. The final quantity of CLSM was 30.0 CY. Work will be under an agreed price for Item 999.02. Pending.

4) Paul Swatland Jr., Certified welder worked on welding the 30" steel casing. The second weld was completed. Surface preparation was done with a grinder to bevel the edge and clean the surface. Multiple passes was needed to complete the weld. Electrodes E6010 and E7018 was used. A visual inspection found the weld to be continuous with no deformations or pitting.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY	0.00				
				LF					

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4) Welding crew consisted of: 1 welder with welding truck. Zoladz provided 1 operator to assist. A track skid steer Posi Track, RC-100 was used to make necessary pipe moves for welding.

5) Zoladz worked on boxing out section of roadway at Sta 0+53 to 0+69. The edges are being delineated with concrete barriers and cones.

6) Sent comment to Zoladz plan for setting the frame, grate and curb box to Gina prior to returning to zoladz.

7) Received Submittal for signal pole shop drawings.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS	1				Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1									
Welder		1			Wedling Truck			1		
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 18, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. 89

	AM		PM	
Weather	Cloudy		Clear	
Temperature	28	° F	37	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime worked on backfilling the 96" culvert pipe. The maximum uncompacted lift is less than 12" and a hydraulic tamper is being used for initial lifts. Compaction was done with an Ingersol Rand Vibratory compactor SD-100/115/120/150. SJB Testing on site to conducting proctor testing. Areas previously identified as questional is still present. The prime requested to leave in place and evaluate later.

3) Zoladz removed a section (2' +/-) of abandoned 18" steel pipe projecting past east etaining wall for the SWRT. The ends was bricked up and plugged with bag concrete.

4) Zoladz removed various areas of upper section of SWRT east concrete retaining wall (Item 203.02). The areas was were in bad condition, consisting of clay speed tubes and red brick encased in a tin concrete cover. These areas would not support vehicle loads. Backfill of the area on top of the remaining wall to subgrade was backfilled with Item 203.07- Select Granular Stone. For quantity work up see sheet 2 of 2 this IR. All work AOBE.

5) Zoladz start excavating for utility trench. Various concrete substructures were encountered and will need to be removed. (Item 202.19)

OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY	43.57		Back fill to subgrade on top of Retaining Wall SWRT		
203.02				CY	7.14		Removal of encased speed tube above retaining wall		

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4) Received on site Subbase reinforcing material as follows:

Item: E277.99

Product Name:

5) Received light weight-medium stone filling for culvert inlet/outlet protection (Item 620.04)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1									
Oper Apprentist	1									
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 19, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. 90

	AM		PM	
Weather	Cloudy		Clear	
Temperature	28	° F	30	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime worked on excavation (Item 206.02) for DS-18, DS-19 MH-3A and SWTS. Ds-18 and Ds-19 lowered into place. A layer of bedding stone was placed prior to lowering. Prime also excavated for 18" SCIPP connecting DS-18 to DS-19. (603.9818). Compaction is with plate tamper.

3) Prime removed 3 sections of RR track in preparation of open cut for casing installation. Workforce consisted of: 3 laborers (7 hours) 1 operator (1 Hour). Track was staged north of open cut location.

4) Zoladz continued excavating for utility trench. Gina W. (ECDPW) was shown the various concrete substructures being encountered and will need to be removed. (Item 202.19) She agreed. If the foundation is slightly inside the edge of the trench wall then it can remain but all has to be documented on Recored Plans.

OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY					
203.02				CY					

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4) Showed Gina W. the inlet/outlet protection stone. The size of the gabion style stone is satisfactory for this application.

5) Discuss project sign location. Sign is to be located near route 5 and to use my discretion for placement.

6) Reviewed signal pole submittal and forwarded on to the NYSDOT for their review.

7) Received submittal for PVC sewer pipe. Submittal was forwarded to ECSM for their approval.

8) Rec'd submittals for:
a) Brick for Drainage structures.- Meets NYSDOT specifications
b) Pre-Mix Mortar for drainage structures: Type S mix and meets NYSDOT Spec.

9) Bi-weekly Progress held today. See meeting minutes

10) Returned submittal for E655.1301 installation work plan. Intent approved but need somse corrections

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1									
Oper Apprentist	1									
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 20, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. 91

	AM		PM	
Weather	Clear		Cloudy	
Temperature	29	° F	46	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime worked on removal of substructures (Item 202.19) at MH-3A location and under the railroad track in open cut for casing. Discussed pay side pay limits (width) of substructure removal under the railroad track Zoladz offered to minimize the width to a desire 4.5' to 5' wide instead of the 6.5' width for this size pipe install.

3) Zoladz worked on rough grading sub grade various areas of pavement section. Prime was reminded that pavement subgrade is to be proof rolled prior to final trimming.

4) Zoladz submitted a proposed plan to utilize a 10 wheel tandem loaded to the required weight and use as their proof roller. The NYSDOT Specification identifies a chariot style box with single axle and 4 tires loaded to the required weight and pulled by another piece of heavy equipment (ie, Dozer). I reached out to 2 other larger contractors in the area for what they use as their proof roller. One contractor stated that most highway projects are reconstruction and proof rolling is not required. Haven't used since 1990's. Contractor #2 stated they load a 10 wheel tandem to the required load weight.

OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY					
203.02				CY					

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Zoladz continued excavating for utility trench. Area of sub structure obstruction was field measured and painted for removal. Areas marked were busted to or slightly below trench invert grade. (Item 202.19) Payment will be made at a later date.

6) Discussed layout of curb, frame and grate on Type A Drainage Structures. Layout is as per revisions on submittal for E655.1302 installation

7) Measures Substructure removal at MH-3A and under RR Track.

8) Verified Subbase Strengthening grid material is per specifications and as approved submittal. material on site information from tag removed is as follows:
Product: Tensar TX7
Manufacturer: Tensar Corporation, LLC
Does it match product specification and material submittal approval? YES

9) Received email confirmation from Tony DeSantis, COL DPW that the resolution was passed for the COL paying ECWA the annual hydrant maintenance fees. Hard copy to be emailed.

10) Returned second submittal for precast light pole foundation by Binghamton precast. The computation provided appears that Binghamton tried to pawn off calculations for a 40 foot light standard and 9' foundation depth for this job in hopes review would be that submission of stamped calculations would nt be closely scrutinized and be accepted. In addition a 2000 psi bearing capacity value was used. Not indication of how it was derived. Boring results show the top 8' is fill material and the proposed foundation depth is 5'. Binghamton submission borders on Fraud and the attempted submission of a PE Stamped calculations not for this job is unethical and a violation of the State Education Law. The NYSDOT may be notified of these concerns.

11) Areas of backfill concerns, west of the new culvert pipe still exhibits a pumping action.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1									
Oper Apprentist	1									
Project Mgr										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 21, 2019

Day of Week: S | M | T | W | X | F | S

Sheet No. 1 of 1 DWR No. 93

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	29	° F	46	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime continued grading subgrade Sta. 0+53 to 0+78 +/-. Area within roadway is being graded using Select Granular Material.

3) Completed worked on removal of substructures (Item 202.19) at MH-3A location and under the railroad track in open cut for casing. The side pay limits (width) of substructure removal under the railroad exceeded the normal excavation width for pipe installation due to composition of foundation. Quantity work up will be for actual removed and not theoretical. See sheet 2 of 2 for

4) Prime completed installation to grade and profile the 30" Diameter Casing. No. 1 stone was used to seat and provide full bedding support of the casing. Work is to be included in new item 950.01.

5) Prime strapped hardwood blocking/skids to a 18" SCIPP and inserted in the 30" casing connecting MH-2 to SWTS. CLSM material was used to fill the void between the 18" SCIPP and 30" casing. Material quantity was 8CY. A hydraulic plate tamper was used on the backfill material above the casing providing vibration to the casing and filling of the casing. Manpower for install of CLSM was 1 Labor Foremen, 1 operator, 1 laborer and 1 operator apprentice. for a total of 2 hours. A The hydraulic Excavator with tamper was used for 1 hr. Work included in 999.01

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY					
203.02				CY					

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4) continued placement of approved medium gabion style for inlet and outlet culvert protection.

5) Prime installed 24 LF of 18" SCIPP (Item 603.9818) from MH-3a to outlet at east end of SWRT. End section has not been placed.

6) Laid out project sign location, west of new trail paralleling Rte 5.

7) Reached out to Scott Hesler, NYSDOT on status of signal pole review sent 3/20/19, No answer and no returned call.

8) Received email response back from Joe McNamara, ECSMD on PVC sewer pipe submission. 8" SDR 35 PVC pipe is acceptable. Joe also provided me a a link to their DSM design standards and requirement.

9) Handed off to ECDPW Estimate 03, Information on LCPTracker was not posted.

10) Returned agreed price for filling in steel pipe arches on the east retaining wall. (item 990.02) After agreed price containing CLSM at $100.00/CY was returned to Zoladz, Zoladz sent email stating the actual cost of material is $79.46/cy. Item 999.02 will be revised.

11) Sub Contractor, Spoth Electric (First Day on Site) prepped 2" Galvanized Steel Conduit, (Item 670.2003) to be placed under railroad. Item was left out of Bid Tabs.

12) Sub, Spoth Electric was informed by this inspector that minimum coverage of the 2' conduit from the PB at station 1+60 +/- to LP -8 will not be able to be 18" below finish grade due to top elevation of the culvert will only be 2" +/- below subgrade. PVC Conduit will be placed under the sidewalk at this location.

11) Spoke with Gina W. today regarding proof rolling submission versus dot specification. She recommended I discuss further with Wayne Scibor. Mr. Scibor was not available to discuss.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Van			1		
Oper Apprentist	1									
Electrician		1								

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 22, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. 94

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	37	° F	36	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued coffer dam de-watering operations.

2) Prime continued grading subgrade Sta. 0+53 to 0+78 +/-. Area within roadway is being graded using Select Granular Material.

3) Prime completed backfill of 30" Diameter Casing with select granular material (Item 203.07) to subgrade. SJB will be on site Monday to perform compaction test. Work is included in new item 999.01.

4) Prime worked on excavating for 18" SCIPP from MH-2 to MH-1. Prime has elected to place a layer of bedding stone to ensure full seating of the pipe. No. 1 stone is being placed and consolidate to approximately mid pipe. The remainder backfill to 1'-0" above the pipe is being done with Item 203.07- Select Granular Material. SJB is scheduled to be on site Monday to perform compaction tests.

5) Prime continued grading utility trench (Item 206.02). Existing Sub Structures identified for removal was being addressed (Item 202.19) The trench is retaining ground water which orgin is unknown.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY					
206.02				CY					
202.19									
603,9818									

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4) Returned nine (9) submittals to Zoladz.

5) Met on site with Mark Marcheson, Casey (Foremen) and Don Arnts (Zima Underground) regarding directional boring for conduits across Rte. 5 and Dona Street on the east side. The question was asked if rigid lengths of pipe is required or HDPE pipe can be used. I will look into.

7) Spoke with Scott Hesler, NYSDOT on status of signal pole review sent 3/20/19. He has not completed his review and will be talking with Tom VanSplunder. I explained my excel sheet I used to verify requirements. Also inquired about HDPE pipe for the directional boring. I explained the Material Spec. 723.19 permits HDPE as an alternate for Rigid Lengths of conduit that would have glued joints. We both flt the HDPE option under Rte 5 would have less chance of disconnect or water infiltration. I will forward approval to Zoladz. I also requested from Zima a work plan for the boring.

8) I called and left a message for Kevin Urbanski, National Grid, regarding an update on the power pole relocation.

9) Received email copy (ECDPW was cc'd) of Annual Hydrant Maintenance fee resolution. I informed Mark to proceed with getting Hydrant Permits

10) I spoke with Wayne Scibor, ECDPW, regarding proof rolling equipment. I explained what the NYSDOT Spec book recommended. I stated I reached out to 2 local larger contractors. One hasn't used a chariot style of proof roller since early 1990's. The other said they load a 10 wheel dump truck to the required weight. I told Wayne that Zoladz has submitted a plan for approval that would fill a 10 wheel tandem. Wayne was ok as long as the truck can be loaded to the appropriate tonnage. I reached out to Todd Nelson, NYSDOT Geo-Tech Engineer to discuss appropriate tonnage for the type of material present in the project. Todd was not in today.

Also inquired if the County has a specific item number seqence for adding new work to the contract. He stated that they also use the 990 series.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor					Van					
Oper Apprentist	1									
Electrician										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 25, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. 95

	AM		PM	
Weather	Clear		Clear	
Temperature	31	° F	40	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Removed cofferdam, (item 553.03001) Grading of stone filling (item 620.04) remains at ends

2) Prime worked on dewatering existing Manhole at approximate Sta. 11+90, 36'+/- Lt. Manhole will be dewatered, top 4' removed and backfilled with stone.

3) Compaction Tester SJB on iste in afternoon and performed proctor test on backfill of 30" casing under railroad and for 18" SCIPP from DS18 to DS19. Both areas were re-tamped and rechecked. A minimum density of 95% was recorded. Test results will be provided.

4) Prime worked on excavating (Item 206.02) for MH-1 and Type A pre-cast drainage structures DS-3, DS4 (Item 604.300103) and 18" SCIPP (Item 603.9818) connection. An existing foundation was encountered and had to be busted out Item 202.19) Both the Type A unit and SCIPP were layed on a bed of bedding stone to facilitate grade and full bearing.

5) Prime worked on mortaring pipes in drainage structures on the outside. The interior will be done at a later date. The exterior was done to facilitate backfill when set.

6) Forwarded to ECWA the Sanitary Manholes shop drawings with seals, steps, pipe boots and exterior coating.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY					
206.02				CY					
202.19									
603,9818									

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

7) Spoke with Kevin Urbanski, National Grid regarding Utility pole NM2525 relocation. Kevin informed me that they can not schedule the work until a work permit is obtained. He said City of Lackwanna needs to issue the permit, not the State, and they have not been able to make a contact. I had Kevin forward the permit application to me and I forwarded via email to Tony DeSantis, Commissioner of COL. DPW. Tony responded that he get this taken care right away.

8) Verizon on site to lower telephone duct at approximate Sta.14+30 +/-. During excavation 3 steel conduits were found, 1 was discontinuous and will be removed. The 2 are unknown if active and what type of service they provide if active. Verizon will return tomorrow.

9) Received late telephone call from ECWA, Tom ? on behalf of Len Kowalski. Tom informed me that when Zoladz submitted for a permit for a waterline tap for the 3 hydrants they remembered that the gaskets should be a special type that resist degradation due to the type of soils in the brown field and the hydrants will need the bottom drain plugged so water does not sit in the bowl. ECWA had reviewed the plans in 2018 and the submittals for the pipe, gaskets, sealants and tape in December 2019. All comments were addressed at that time. Tom mentioned that when the 16" watermain was installed they has special gaskets installed. He said the information would be in the DWR's but not in the plans of project manual. He said that Benchmark was involved and Wendel was the designed. I reached out to John Deth, (Benchmark) and Gina W. (ECDPW) to see if they have any information.

10) Tried contacting NYSDOT Geo-Tech Engineer again to discuss Proof Rolling weight requirement for the type of subgrade present (Fill Material) Left message again.

11) Did not hear anything from NYSDOT on Signal Pole Shop Drawing review.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2		1		Skid Steer		1			
EQUIP. OPERATOR	3		1		Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1		1	
Surveyor					Van					
Oper Apprentist	1				Mini Excavator				1	
Electrician										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3: Verizon Contracto	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 26, 2019

Day of Week: S | M | X | W | T | F | S

Sheet No. 1 of 1 DWR No. 96

	AM		PM	
Weather	Clear		Clear	
Temperature	24	° F	41	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor -Prime worked on excavating (Item 206.02) for 18" Perforated SCIPP (Item 605.98101818) from Ds-3 to Ds-2. Prime placed 18" Perf. pipe and Underdrain filter stone, (Item 605.1001) Filter stone is being consolidate with hydraulic tamper on excavator. The original design called for a layer of embankment material between filter stone and subbase material. Prime was instructed to carry Filter stone to top of subgrade.

2) Prime worked on mortaring pipes in drainage structures on the outside. The interior will be done at a later date. The exterior was done to facilitate backfill when set.

3) Discussed with prime that DS-2 and Ds-5 will require modification due to revised drainage plan.

4) Received comments back from NYSDOT on Signal Pole submittals. Pole #1 needs to be designed for 5 section signal head. Need to correct entry for above terrain projection for poles with 50' mast arm. The value shown was 43'. Submittal returned to Zoladz for corrections and resubmission

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY					
206.0201				CY					
202.19									
603.9818									
604.3001003									
605.98101818									
Item 605.1001									

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Verizon returned today to complete work on conduits atapproximate Sta.14+30 +/-. The 2 other steel conduits exposed yesterday were found to be empty also. Verizon removed the conduits and for future use installed 2 new conduits and stubbed beyond the roadway/sidewalk limits. The conduits were encased in concrete and the remainder of the trench was backfilled with select stone.

6) Reached out to Benchmark and Gina (ECDPW) if they were aware of special Nitrile Gaskets used during the installation of the 16" water main. Neither knew of nor could find any information/reference to.

7) Received ECDSM review of Sanitary Sewer Manholes and incidentals. "O" rings are required even if Butyl sealant is used. Submittal returned to zoladz for revisions.

8) Spoke with Tom VanSplunder regarding wording for week lead-in notification on PVMS. Will discuss with NYSDOT Regional Traffic Group. (Received email from Mike Barret NYSDOT that a TAR report would need to be filled out, will due when actual begin work date is known).
* Also asked Tom on status of Signal Pole submittal review. Tom hopes to have complete later today. (Received Email response late day. Minor corrections/verification needed. Will forward to Zoladz tomorrow AM.

9) Discussed Utility trench infill requirements. The excavation requires placement of the demarcation material (Item E207.21) on sides and bottom of trench prior to backfilling with approved clean emabnkment material (Item 203.03)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2		1		Skid Steer		1			
EQUIP. OPERATOR	3		1		Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1		1	
Surveyor	1				Van					
Oper Apprentist	1				Mini Excavator				1	
Electrician										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3: Verizon Contracto	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 27, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. 97

	AM		PM	
Weather	Clear		Clear	
Temperature	30	° F	50	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor -Prime completed excavating (Item 206.02) for 18" Perforated SCIPP (Item 605.98101818) from Ds-3 to Ds-2. Prime placed 18" Perf. pipe and Underdrain filter stone, (Item 605.1001) Filter stone is being consolidate with hydraulic tamper on excavator. The original design called for a layer of embankment material between filter stone and subbase material. Prime was instructed to carry Filter stone to top of subgrade.

2) Prime excavated and installed DS-3 and Ds-4 (item 206.0201 and 604.3001003) and excavated connecting trench for 18" SCIPP (Item 603.9818) During excavation for DS-4, a concrete foundation had to be removed. (8.33' X 8.33' X 1.5' Deep). Item 202.19. Payment for 202.19 will be made at later date due to revised item overrun. Prime began excavating trench for 15" SCIPP from DS-2 to DS-5.

3) Prime worked on mortaring pipes in drainage structures on the outside. The interior will be done at a later date. The exterior was done to facilitate backfill when set.

4) Prime began Utility trench infill requirements. The demarcation material (Item E207.21) was placed on sides and bottom of trench and was being backfilled with approved clean embankment material (Item 203.03)

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY					
206.0201				CY					
202.19									
603.9818									
604.3001003									
605.98101818									
Item 605.1001									

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Returned Submittal for Sanitary Sewer Manholes and incidentals to Zoladz. "O" rings are required even if Butyl sealant is used. Zoladz returned revised submission late day. Review to ensure changes have been made will take place tomorrow.

8) Returned Signal Pole Submission to Zoladz with comments that are to be addressed and resubmitted. Dick Spoth called to inquire about comments. Explained items needing to be addressed.

9) Received email from Len Kowalski (ECWA) stating he could not find any information on Nitrile Gaskets or if actually used. Len gave permission to proceed as per plan with previously ECWA approved material. Information was passed on to Mark Marcheson and reminded the ECWA rep. is required to be present during waterline work.

10) Zoladz railroad crew completed replacement of 3 sections of steel RR rail and chinking in ballast material. Alignment, grade and rail separation are satisfactory. Work is now complete for installation of 30" steel host casing pipe with 18" SCIPP by open cut. work will be included in new item 999.01 (per Wayne Scibor)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2		1		Skid Steer		1			
EQUIP. OPERATOR	3		1		Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1		1	
Surveyor	1				Van					
Oper Apprentist	1				Mini Excavator				1	
Electrician										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3: Verizon Contracto	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 28, 2019

Day of Week: S | M | T | W | X | F | S

Sheet No. 1 of 1 DWR No. 98

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	30	° F	50	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor -Continued excavating for 15 SCIPP between DS-2 and Ds-5 (item 206.0201 and 603.9815) During excavation 6 additional concrete foundations had to be removed. (Item 202.19). At Sta 10+25 and 10+ 28 the foundations appear to be part of another structure which is visable on the south side of the trench. The most east end has what looks like a concrete roof (8" below subgrade, about 1' thick) over a void area. Further investigation will be made tomorrow to assess. Payment for 202.19 will be made at later date due to revised item overrun. Prime began excavating trench for 15" SCIPP from DS-2 to DS-5.

2) Prime worked on compacting drainage structure and pipe select stone backfill and embankment material with a hydraulic plate tamper. Testing of compaction will be done when there is a larger area to be tested.

3) Prime continued Utility trench infill requirements. The demarcation material (Item E207.21) was placed on sides and bottom of trench and was being backfilled with approved clean embankment material (Item 203.03)

4) Reviewed revised sanitary sewer manhole shop drawings. Email sent to Zoladz saying the proposed "O" ring that Binghamton Precaster submitted with their revised submission is not an equal. The "O" they was for pipe not manholes. Mark Marcheson called later in the day

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY					
206.0201				CY					
202.19									
603.9818									
604.3001003									
605.98101818									
Item 605.1001									

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4 con't) and said that Binghamton says it is an equal. When I replied this AM to Mark about the "O" ring proposed being wrong I included a cut sheet for a TYVOX SUPERSEAL that is identified on the ECDSM Std. Sheet for precast manholes. Mark Asked if Binghamton could call me directly to talk/dispute. No permission was given.

5) Gina W. (ECDPW) inquired if we had heard anything about the Signal Pole Submission. I responded that the DOT and my comment were returned to Zoladz yesterday morning at 0745 hrs.

6) Tom (ECWA) was on site this afternoon and discussed with Casey and i about a schedule for the install of the Tapping sleeves and subsequent Hydrant install. Tomorrow Zoladz plans on preparing for the Taps and installing the tapping sleeve. The actual Tap is planned for next Tuesday. Tom will be present.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2		1		Skid Steer		1			
EQUIP. OPERATOR	3		1		Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1		1	
Surveyor	1				Van					
Oper Apprentist	1				Mini Excavator				1	
Electrician										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3: Verizon Contracto	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: **March 29, 2019**

Day of Week: S | M | T | W | T | X | S

Sheet No. **1** of **1** DWR No. **100**

	AM		PM	
Weather	**Cloudy**		**Cloudy**	
Temperature	**34**	**° F**	**50**	**° F**

CONTRACTOR WORK HOURS: **0700** TO **1530**

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

ESTIMATE 04 Closed - 3/1/19 to 3/29/2019

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY					
206.0201				CY					
202.19									
603.9818									
604.3001003									
605.98101818									
Item 605.1001									

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2		1		Skid Steer		1			
EQUIP. OPERATOR	3		1		Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1		1	
Surveyor	1				Van					
Oper Apprentist	1				Mini Excavator				1	
Electrician										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3: Verizon Contracto	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: March 29, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. 99

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	34	° F	50	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

ESTIMATE 04 Closed - 3/1/19 to 3/29/2019 See IR 100 this date for quantity workups

1) Prime Contractor -Continued excavating for 15 SCIPP between DS-2 and Ds-5 (item 206.0201 and 603.9815) Prime continued backfilling with select stone to a minimum of 1" over the pipe when outside of roadway and to subgrade when in roadway. Compaction is with hydraulic plate tamper. DS-2 to DS-5. A couple of sections remain where hydrant lines will go and final determination of substructure.Testing of compaction will be done when there is a larger area to be tested.

2) Prime excavated for 15" SCIPP and for DS-6. Ds-6 was set and the 15" pipe placed and partially backfilled. Prime parged and filled in void around pipes in various structures.

3) Prime continued Utility trench infill requirements. The demarcation material (Item E207.21) was placed on sides and bottom of trench and was being backfilled with approved clean embankment material (Item 203.03). Prime also placed demarcation netting on the north side of the utility trench and started covering with approved fill material.

4) Continue reviewing the "O" ring that Binghamton Precaster submitted with their revised submission. Joe McNamara of ECDSM is looking into to see if these are acceptable

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.07				CY					
206.0201				CY					
202.19									
603.9818									
604.3001003									
605.98101818									
Item 605.1001									

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

5) Prime began excavating to find the existing 16" watermain to prepare for scheduled Tap next week. Tom (ECWA) was on site this afternoon and discussed with Casey. During excavation groud water was encountered. Prime has pumps in place draining the water away from the work area.

6) Returned Submittal on Lught pole foundation to Zoladz. No Excaptions taken.

7) Worked on Agreed price for Item 999.01 RR open cut. Discussed with Mark and we'll go over next week.

8) Spoke with Tony DeSantis, COL DOW Commissioner. He is working on getting permit for national Grid.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2		1		Skid Steer		1			
EQUIP. OPERATOR	3		1		Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1		1	
Surveyor	1				Van					
Oper Apprentist	1				Mini Excavator				1	
Electrician										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3: Verizon Contracto	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 1, 2019

Day of Week: S [M] T W T F S

Sheet No. 1 of 1 DWR No. 101

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	23	° F	34	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor -Resumed dewatering excavation area for propose hydrant tap at approximate sta. 8+90. The 16" water main is approximately 9' deep which will require a longer stem for the hydrant. Tom Damstetter (ECWA) on site. Zoladz placed the sleeve on the main and connected the butter fly valve in preparation for tapping which is tentatively scheduled for Tuesday. Tom informed us that concrete blocking is not required behind the 16" at the sleeve valve location> Also discussed that not more than 1 riser will be permitted to raise the hydrant to grade if required and only 1 90 degree bend is permitted.

2) Prime excavated for hydrant tap # 1 at approximate Sta. 13+68 +/-. Prime encountered a steel casing on the 16" main. A review of the waterline record plans indicated the end of the casing to be about Sta. 13+88. Prime then excavated at approximate Sta 13+90 and encountered a bell joint and was required to move a minimum 3' away from the joint. At that location an existing Steel pipe crossed the area. Further research of available information indicated it could be an abandon 6" sewer. Prime opted to leave in place and excavated on the east side at Approximate station 14+00. Due to this location being within the radius for the NW Quad, ECWA has requested the normal offset of 2' be pushed back as much as possible towards the sidewalk. This may result in a slight sidewalk alignment change. Zoladz asked if it was possible to be paid a test pit for the first excavation for Hydrant #1 since it can not be used due to the casing. I will look into to see if this is a recoverable expense or part of the Prime's requirement to locate.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
203.02				CY	12.44		Removal of fill cellar wall STa 10+07- Sta 10+27 LT		
203.03				CY	20.74		Backfill of center portion		
202.19				CY	7.78		Removal of cellar wall STa 10+07 to Sta 10+27 LT		
603.9818									
604.3001003									
605.98101818									
Item 605.1001									

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

3) Prime further exposed the concrete foundation at Sta. 10+07 to 10+27. The top of concrete was found to be 6" below subgrade. What was found is a building foundation/cellar and that had steel sheeting on the interior and was filled in with brick, fill, concrete pieces, etc. Prime was instructed to remove 1.5' off the top of the foundation walls, Remove the top foot or so of the fill material, and tamp the remaining material with the hydraulic tamper. The results was the wall was removed. some of the sheeting will have to be cut off that was impacted during busting of the concrete and the interior portion was compacted down 1.0'. The depressed area will be layered with fine drainage stone and compacted to fill any voids. Then suitable material will be placed and compacted to grade. Removal and backfill of interior space will be paid as Item 203.02 and Item 203.03.

2' thick typical walls

19'

Sta 10+ 07 Sta 10+27

Item 202.19 - Removal of Substructures
(15+15+20+20) x 2.0' thick x 1.5' deep x 1/27= 7.78 CY

Item 203.02 - Unclassified excavation
Interior of foundation. (Note top 6" + 1' material removed in center)

14' x 16' x (.5+1) x 1/27 = 12.44 CY

Item 203.03 - Embankment in Place (After compaction of remaining fill the hgt is: 2.5'
14' x 16' x 2.5' x 1/27 = 20.74 CY

Received email from Joe McNamara ECDSM. "O" ring is not acceptable. Zoladz to be notified.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2		1		Skid Steer		1			
EQUIP. OPERATOR	3		1		Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1		1	
Surveyor	1				Van					
Oper Apprentist	1				Mini Excavator				1	
Electrician										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3: Verizon Contracto	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 2, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. 102

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	31	° F	46	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Excavated for hydrant tap # 3 at approximate Sta. 3+95 Rt +/-. A 6" water pump was utilized to keep a heavy infiltration of ground water at a reasonable level. Prime also completed excavation for hydrant tap at Sta.14+00 +/- LT. This location avoids the 30" steel casing for the existing 16" waterline and is located on the east side of a steel pipe that remained in place due to uncertainty if abandon. A water pump was deployed at this location due to ground water infiltration. The tapping sleeve and valve was placed. Tapping is scheduled for tomorrow. ECWA Rep, Tom was on site and all is satisfactory. Tom Damstetter (ECWA) instructed me to ensure all pipe, new and existing is wrapped and taped to ground level. Hydrant bowls to be plugged before installed and 4x8x16 solid blocking is required under the valve and elbow for the hydrant. This information was relayed to Foreman Casey.

2) Received permission from ECDPW Rep, Gina W. the first hydrant tap excavation at Sta 14+00 +/- in which the casing was installed can be paid as a test pit. Item 206.05.

3) Prime worked on removing existing asphalt and concrete from proposed roadway entrance area from route 5. Sta. 14+00 to 14+60 +/- Item 203.02. Work will be paid at a later date.

4) Prime installed 6" Underdrain pipe (Item 605.172) and backfilled with underdrain filter stone (Item 605.1001) From DS-19 to west side of RR track and From DS-18 to west side of RR track.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
206.05				Ea	1.00		Test Pit for Tap #1 (OK ECDPW)		

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Reviewed cellar work infill at Sta 10+07 to 10+27. The center area was spongy due to standing water. A 6" pipe was found in the west wall and was plugged with brick and concrete. Additional effort will be needed to bridge the remaining area. CLSM will be used and a subbase geo-grid will be added to strengthen the fill material. This will be addressed tomorrow. ECDPW Gine W. reviewed the area in questioned.

6) Spoke with Zoladz Surveyor, Instructed him to obtain station, offset and elevation of all waterline taps for hydrants and record plans.

7) still working with ECDSM regarding revised sanitary crossing at MH -10 to MH-5 and MH 9 to MH-6. ECDSM responded late day that a C900 sewer pipe with restraints will be used per Great Lake Standards due to minimum separation between the waterline and sanitary sewer can't be made. Plans to be revised and information of pipe was forwarded to Zoladz.

8) Progress meeting held today. Zoladz at meeting time still had not entered in information in to LCPTracker and Estimate 03 can not be processed. Received information later in day that information had been entered. I reviewed and approved.

9) Went over 999.01 and 999.02 price work up with Mark Marcheson Zoladz. Work will be forwarded to ECDPW for review and inclusion into CO #02.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2		1		Skid Steer		1			
EQUIP. OPERATOR	3		1		Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1		1	
Surveyor	1				Van					
Oper Apprentist	1				Mini Excavator				1	
Electrician										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3: Verizon Contracto	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 3, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. 103

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	38	° F	42	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Prime contractor with Marwall made the Hydrant Taps under the supervision of ECWA, Tom Damstetter,and This Inspector. All valves were pressure tested and were satisfactory. Mechanical joints and gland used for connection from tapping sleeve to valve. Pumps were being maintained due to ground water infiltration.

2) Prime was informed that area of backfill on west side of 96" culvert was still spongy. Prime had requested to begin staging stone stock pile on this side and preparing for grading. I informed him that area was unsatisfactory. Prime inquired if he has to excavate the approved material that passed the compaction test then how will he be paid. I informed him that the area is not acceptable and payment will not be made until satisfactory and proof rolled. Prime asked If I would accept a 10 wheel tandem dump loaded with stone as a proof roller for this segment. He was told I would inspect area after remedial work was done. Zoladz removed a section of select stone 12' wide and 3' deep on the west side of the culvert. During excavation the material was found to be wet and exhibited some frozen material. Zoladz then re-compacted area with steel wheel roller, installed the subbase strengthening material and backfilled with dry select gravel fill and compacted with vibratory steel wheel roller. Prime then drove over area with fully loaded tandem dump truck. This inspector notice some rebounding of the new fill area and informed prime that area is still not acceptable and an approved chariot style proof roller is required.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Prime placed CLSM to fill in existing voids in cellar infill at Sta 10+07 to 10+27. A subbase geo-grid will be added to strengthen the fill material and backfilled tomorrow.

6) Received email from ECDSM that C900 pipe is to be used for crossing from MH-9 to MH-6.

7) Received email from Mark Marcheson requesting payment for stored material in the march estimate. Estimate closed 3/29/19. Partial payment will not be included in Estimate #4.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Van					
Oper Apprentist	1				Mini Excavator					
Plumber	1									

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 4, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. 104

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	38	° F	42	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Backfilled cellar area Sta 10+07 to Sta 10+27. Tensar subbase reinforcing material was installed and suitable material was placed and compacted. Area appears to be stable. A proof roller will be used to verify area.
Item E207.99 Subbase Reinforcing material
Sta 10+07 to Sta. 10+27
(16 x 15) x 1/9 = 26.67 SY

2) Prime removed top section of existing manhole at Station 13+80 +/- and backfilled with remaining concrete from hydrant thrust block install. Payment for infill will be under Item 203.07 Select Fill.

Item 203.07 - Select fill Material.
Class A concrete used in place of stone at primes choice.
PiR^2X 4 x 1/27 = 1.87 CY

3) Prime installed hydrant and shut off valves for the 3 hydrants. All hydrants were supported on solid 4x8x16 concrete block. all pipe and fittings were wrapped in poly and taped. Class A concrete was placed behind bend for hydrant as a thrust block. ECWA on Site. Payment to be made when work is complete.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
E207.99				SY	26.67		Cellar backfill.		
203.07				CY	1.87		Backfill of abandon MH		

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Sent in Tar report.

6) Responded to Mark Marcheson that his request for partial payment of various geo-fabrics for inclusion in March will not be accepted.

7) advised Mark Marcheson of PVMS wording.

8) Rec'd email from Kevin Urbanski, National Grid, that they haven't reeived their permit from COL. I forwarded the email to Tony DeSantis for his assistance. Tony responded by email that he spoke with Kevin today and that he will address.

9 Sent email to Maurice NYSDEC regarding review of Zoladz proposed sampling and testing plan for the excavated material from the SWRT. Maurice replied they are reviewing and that disposal options for the material is being looked into.

10) Rec'd email from Dick Spoth. Velmont return submission for signal poles due on or about 4/10/19.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Van					
Oper Apprentist	1				Mini Excavator					
Plumber	1									

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 5, 2019

Day of Week: S [ ] M [ ] T [ ] W [ ] T [X] S [ ]

Sheet No. 1 of 1 DWR No. 105

	AM		PM	
Weather	Cloudy		Rain	
Temperature	38	° F	42	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Continued grading at the east end of Dona, Sta 14+00+/- to Sta.14+70 +/-. During grading a substructure was encountered around Sta.14+60 and will have to be removed. Casey (Foreman) will contact National Fuel as the foundation is in close proximity of the 16" gas main.

2) Prime worked on busting a concrete slab (floor) atop a foundation wall perimeter at Sta 14+50, RT. The building remnants are are assumed to be from a guard house for Bethlehem. This location is in the vicinity of where the dog house sanitary sewer manhole MH-8 will be located. Item 202.19)

3) Prime continued rough grading subgrade throughout the project with a dozer equiped with GPS.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ [ ] Engineer-in-Charge [ ] Resident Engineer Date Reviewed: _____

[ ] MURK 1-1 CONTINUATION attached for additional narrative. [ ] MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor										
Oper Apprentist	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 8, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. 106

	AM		PM	
Weather	Rain		Clear	
Temperature	38	° F	58	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Resumed excavation, (item 206.0201) installation of 6" underdrain (Item 605.1702) and backfilled with under drain filter stone, Type II, (Item 605.1001) Under stone is being consolidated with the hydraulic plate tamper.

2) Prime continued grading subgrade outside of the south curb line.

3) Casey (Foreman) contacted Andrew Gilbert, National Fuel. Andrew forwarded Casey to another field crew supervisor. Casey explained the proposed work and the existence of the concrete foundation at Sta.14+60 and its close proximity of the 16" gas main. National Fuel will perform a soft dig in the area to expose the gas line. They will have a person on site while work is being done in this area. Seismic measuring will be done to ensure no excessive vibration is occurring. Casey will coordinate dates with Nat. Fuel.

4) The Chariot Style proof roller arrive on site today. Proof rolling of the subgrade will be done tomorrow. Gina W. (ECDPW) was informed cannot be present when Zoladz proposes.

5) Spoke with Kevin Urbanski, (Nat. Grid) about the power pole relocation schedule. Kevin informed they had not received the permit from COL. A check found that COL emailed on Friday 4/5/19 the signed permit to me and ECWA. I forwarded to Kevin and he will check with crews and get back to me

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

6) Returned Submittal Z-51, Testing Plan to Zoladz after receiving NYSDEC comments. The plan was not sufficient and was returned rejected. Zoladz sent email late day saying the requirements from NYSDEC on sampling and testing exceeded the spec requirements. I will look into.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor										
Oper Apprentist										
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 9, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. 107

	AM		PM	
Weather	Rain		Clear	
Temperature	43	° F	58	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - Prime used a Chariot Style proof roller on the roadway subgrade for the entire length. The roller was loaded to 43 tons and the tires were checked and inflated to 73 PSI per NYSDOT Specifications. The Proof roller was towed by a large dozer. The proof rolling went from edge of road subgrade from one end to the other. The proof roller did not cross the 96" culvert due to specifications and minimum cover. The proof roller was pulled to approximately 5' from the edge of the culvert. During the proof roller, myself and Zoladz Foreman walked along side inspecting. An area from 12+58 to 13+10 by 29' wide was marked out for repairs. Zoladz was instructed to remove approximately 1' of material. roll with a vibratory roller, place subbase reinforcing material and backfill with dry suitable material and compact again. This area will be re-evaluated when ready.

2) The area west of the 96" culvert which had exhibited excessive pumping after initially backfilled and subsequently had 3' of the gravel select fill removed last week and was reconstructed and reinforced with subbase reinforcement material and backfilled with dry Select material (Gravel) was proof rolled today within 5' of the culvert. No deformations or even tire imprints were visible. This area is now acceptable and the backfill will be paid in next estimate.

3) Prime continued work on 6" underdrain installation on the south road side.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4) During grading outside of the roadway, between the SWTS and the highway boundary another concrete foundation is present and is being removed. The buster broke down and top elevations were not able to be obtained. There are 4 areas between Sta. 2+00 to 2+30 Lt. (Item 202.19)

Loc 1.) 12 x 12 (Depth unknown)
Loc 2) 1' x 6'
Loc 3) 1' x 8'
Loc 4) 1' x 8'

5) Spoke with Mark Marcheson and Jamie from zoladz regarding the testing requirements by NYSDEC. They were instructed to review the specs, project manual and the RCRA requirements. If they still believe the requests exceed the scope of the specification they are to identify and and they will be reviewed. I received an email citing the DOT specs for the Item numbers but no reference was made to the project manual requirements. I spoke with Gina W. (ECDPW) and we'll review tomorrow.

6) Casey and I discussed TenSar Subbase reinforcement placement requirements. Manufactures recommendation is a minimum over lap of 1' with out ties. Placement may commense tomorrow weather pending.

7) Gina W. (ECDPW) visited in afternoon. She was updated on status of project, results of proof rolling and other.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor										
Oper Apprentist										
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 10, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. 109

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	36	° F	38	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Contractor - excavated (Item 206.0201) for 6" Underdrain perforated pipe (Item 605.1702) and back filled with Filter stone (Item 605.1001) from the RR tracks to DS-3 and RR Tracks to DS-4. Pipe is being placed on 4" of filter stone and then backfill with the filter stone to subgrade. Payment to be made at later date.

2) Prime worked on placement of the Subbase Reinforcement material (Item E207.99) and covering with approved Subbase stone (Item 304.12) The Reinforcing material is per approved submittal and being installed as per manufactures recommendation. Overlap are 1' minimum.

*Talked with Zoladz Super, Cassey, about work ahead. Cassey is planning to box out proposed widening for the new right turn lane.

* Unsure when the directional boring person will be on site.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		0			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor					Vibratory Roller		1			
Oper Apprentist	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 11, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. 110

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	32	° F	36	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime worked on placement of the Subbase Reinforcement material (Item E207.99) and covering with approved Subbase stone (Item 304.12) The Reinforcing material is per approved submittal and being installed as per manufactures recommendation between DS-2 to Ds-5. Overlap are 1' minimum.

2) Prime worked on busting concrete foundation in close proximity of the 16" Gas Line. Steel plates are being used to protect the gas line. A national Fuel Representative was on site the entire day monitoring the area for excessive disturbance to the gas line.

* Spoke with Casey about the old guard shack foundation depth. The foundation will most likely be removed in it's entirety due to installation of MH-08. The depth of foundation is estimated as 36".

* Discuss erection of Sidewalk Close signs for Tail at Ridge road and on NE corner of Dona Street. Signs are to be placed when right turn lane box out begins.

* Returned revised signal pole shop drawing submittal. No exceptions taken.

* Forwarded to LiRo office emails and various documents for review by Steve Franks and Bob Kreuzer. I was inquiring if they could decipher if the testing of the SWRT excavated material was not included in the contract items. Still unknown is where the material from the RCRA area is to go.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentist	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 12, 2019

Day of Week: S [ ] M [ ] T [ ] W [ ] T [X] S [ ]

Sheet No. 1 of 1 DWR No. 111

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	32	° F	36	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime continued working on placement of the Subbase Reinforcement material (Item E207.99) and covering with approved Subbase stone (Item 304.12) The Reinforcing material is per approved submittal and being installed as per manufactures recommendation between DS-2 to Ds-5. Overlap are 1' minimum.

2) Prime began excavating behind the existing SB Rte 5 curb line for the proposed storm drainage system, DS-9 to DS-11. Approximately 10 1/2" below top of the existing curb is an old road base consisting of 3 - 4" of asphalt, 4x4x8 pavement bricks and a concrete foundation measuring 24". This area is difficult to excavate. Casey was informed the excavation is still cconsidered Unclassified Excavation. Casey inquired if the old road base could remain. He was informed that by the time you excavate for the new drainage, remove the existing drainage and curb the remaining road base continuity and strength would most likely be com premise, However if Zoladz can demonstrate the road base material is solid or will not deflect under load then we can leave in place. I spoke with NYSDOT South Erie Resident Engineer John Cogswell and he had no objections to our course of action but emphasized that the remaining road base had to remain solid.

3) Prime erected new Project Sign. (Item 619.01)

4) Prime began excavating for Street lighting electrical conduit pull boxes on each side of the Railroad Track. The pull boxes are being placed on a 1' layer of select stone per NYSDOT Standard Sheet. (OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ [ ] Engineer-In-Charge [ ] Resident Engineer Date Reviewed: _____

[ ] MURK 1-1 CONTINUATION attached for additional narrative. [ ] MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Estimate 04 was emailed to Zoladz today.

6) Information on Drainage table was incorrect. Zoladz notified.

7) TAR Report submitted this AM.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentist	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 15, 2019

Day of Week: S [X] T W T F S

Sheet No. 1 of 1 DWR No. 111

	AM		PM	
Weather	Rain		Sleet	
Temperature	27	° F	35	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime continues excavating behind the existing SB Rte 5 curb line for the proposed storm drainage system, DS-10 to DS-11. The old road base remains. DS-11 was set to grade. The 12" SCIPP is being placed on a bed of stone and backfilled with clean stone and then select stone to subgrade. Traffic cones are being placed along the curb line. No lane restriction are implemented.

2) Prime began excavating for installation of C900 sanitary sewer pipe between MH-10 and MH-5. The pipe is being laid on a bed of clean stone to grade and alignment, all joints are being restrained with a mechanical restraint lug. Concrete was placed over and around the joint in close proximity with the 16" waterline. Te C900 pipe is due to the 18" separation can not be achieved. The C900 8" pipe is in compliance with the Great Lake Standards and approved by Joe McNamara ECDSM. Backfill is with Select granular stone. The width of trench was wider then the pay lines due to the depth and type of material being excavated out.

4) Spoke with Tom VanSplunder, NYSDOT about the project and PVMS message. We agreed that the date should be removed and state the Road Work Ahead, Dona Street Extension.

5) Sent agreed price workups to Mark Marchesaon for review.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentist	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 16, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. 112

	AM		PM	
Weather	Cloudy		Rain	
Temperature	30	° F	40	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime continued excavating behind the existing SB Rte 5 curb line for the proposed storm drainage system, DS-10 to DS-11. The old road base remains. DS-11 was set to grade. The 12" SCIPP is being placed on a bed of stone and backfilled with clean stone and then select stone to subgrade. Traffic cones are being placed along the curb line. No lane restriction are implemented.

2) Prime completed installation and backfill of C900 sanitary sewer pipe between MH-10 and MH-5. The pipe is being laid on a bed of clean stone to grade and alignment, all joints are being restrained with a mechanical restraint lug. Compaction testing scheduled for tomorrow. The pipe was not terminated in a MH due to "O" ring issue not permitting fabrication.

3) Prime began excavation for C900 sanitary sewer pipe between MH 9 and MH 6. Bedding stone is being placed and backfill is with Select Stone (Item 203.07). Prime is actually using limestone subbase material (Item 304.12) for backfill instead of gravel select stone.

4) Received submittals for:
a) C900 Sanitary Sewer Pipe - 8" and mechanical restraints.
b) Resubmission of sanitary sewer manhole shop drawings. Binghamton has stated the ECDSM preferred Tylok "O" ring is not compatible with their manholes. The size and inverts are per plan.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4b con't: The shop drawings were forwarded to Joe McNamara, ECDSM.

5) Zoladz submitted copies of the invoices for the following materials:
a) SDR-35 for 8" sanitary sewer
b) C900 Water pipe and restraints
c) Invoice for the welder of the steel casing under the Railroad.

6) Bi-Weekly progress meeting help.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentist	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 17, 2019

Day of Week: S | M | T | ~~W~~ | T | F | S

Sheet No. 1 of 1 DWR No. 114

	AM		PM	
Weather	Cloudy		Clear	
Temperature	35	° F	60	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime continued excavating behind the existing SB Rte 5 curb line for the proposed storm drainage system, DS-10 was set. The old road base remains. The 12" SCIPP is being placed on a bed of stone and backfilled with clean stone and then select stone to subgrade. Traffic cones are being placed along the curb line. No lane restriction are implemented.

2) Prime completed installation and backfill of C900 sanitary sewer pipe between MH-9 and MH-6. The pipe was laid on a bed of clean stone to grade and alignment, all joints are being restrained with a mechanical restraint lug. The pipe was not terminated in a MH due to "O" ring issue not permitting fabrication.

3) SJB Testing on site doing nuclear density compaction testing. The results are:
a) Sanitary sewer trench, MH-10 to MH-5: Proctor value = 99.4, Moisture: 8.5%
b) DS 5 to DS 6 trench, Proctor value; 99.8, Moisture Content: 6.8%
c) MH 9 to MH 6 Trench: Proctor value = 96.6, Moisture Content 4.9

4) Prime resumed work on installation of 6" Underdrain from DS-5 heading east.

5) Zoladz began striping off he top 6" of subgrade Sta 12+58 to Sta. 13+10, which failed the proof rolling test. We will evaluate and decide to what extent the repair depth should be.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5 con't:) Item E207.90 Subbase reinforcement grid system will be placed on repair area and backfilled with Select Granular Stone to subgrade.

6) Spoth Electric on site installing 2" PVC conduit on the north side for street lighting. Casey informed me that the light pole foundations are scheduled for delivery May .

7) Forwarded to Gina W. ECDPW, the emails and documentation regarding the testing of the SWRT material. I reached out to Kim Richardson, NYSDOT Region 5 Environmental Manager for their interpretation of what is covered for sampling and testing under the current contact. No response today.

8) Reviewing Zoladz submittal for Directional boring plan. The plan is generic and lacked equipment locations and setups. A response will be issued omorrow.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentist	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 18, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. 115

	AM		PM	
Weather	Cloudy		Clear	
Temperature	35	° F	60	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime continued excavating behind the existing SB Rte 5 curb line for the proposed storm drainage system towards DS-9. Part of the concrete bus stop pad was saw cut and removed. The old road base remains. The 12" SCIPP is being placed on a bed of stone and backfilled with clean stone and then select stone to subgrade. Traffic cones are being placed along the curb line. No lane restriction are implemented.

2) Prime continued installation of 6" Underdrain from DS-06 towards Rte 5. The underdrain pipe is being laid on 4" bed of underdrain stone, Type 2.

3) Zoladz completed removal of the top 8" of subgrade between Sta 12+58 to Sta 13+10. The area was rough graded and compacted with a vibratory steel wheel roller. Zoladz foreman without conferring first with this engineer felt the area after compaction was satisfactory and placed a layer of subbase reinforcement material and 8" of subbase stone to top of subgrade and compacted. Visual inspection of the completed and compacted backfill found there was still some minor rebound when the vibratory roller crossed. The area will be monitored.

4) Zoladz completed excavation and backfill of 2" PVC conduit for the Street light system LP-8 to LP-1. Subcontractor Spoth Electric installed the conduit in the trench. 2 18" concrete pull boxes were installed at the terminus of the 2" Galvanized Steel conduit placed under the RR Tracks.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4 con't:) Electric Warning tape was placed in the conduit approximately 12" above the conduit. The conduit is placed a minimum 18" below subgrade as no conduit is in the proposed pavement area. Payment to be made at later date for excavation, select stone and 2" PVC conduit.

5.) Spoke with Kevin Urbanski, National Grid. Relocation of the utility pole is scheduled for May 3,2019. This was relayed to Casey

6) Identified new valve for Hydrant No. 2 is not plumb. Zoladz has been notified it will have to be straighten.

7) Had inquiry from Mark Marcheson about Quantities on Estimate 04.

A) Select Granular stone. No payment for backfill of the culvert was paid in estimate 04 due to concerns over compaction noted in previous IR's. On April 8th the area was proof rolled. This was after Estimate 04 closing 3/31/19.

B) Requested 100% Payment for Item 205.0201 Segregation and storage of material. Mark was told payment will be for 90%. 10% will be retained until the material has been disposed of.

C) Zoladz felt payment for 553.030001 Temporary Waterway Diversion Structure should be 2 each since they used 2 cofferdams. I explain the item was for a system, not individual cofferdams. Therefore since they elected to use 2 cofferdams as their system it was their means. Payment will be 1 each per contract quantity.

8) TAR report sent in.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentist	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 19, 2019

Day of Week: S [ ] M [ ] T [ ] W [ ] T [ ] F [X] S [ ]

Sheet No. 1 of 1 DWR No. 116

	AM		PM	
Weather	Rain		Rain	
Temperature	54	° F	60	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Zoladz did not work today due to inclement weather.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ [ ] Engineer-in-Charge [ ] Resident Engineer Date Reviewed: _____

[ ] MURK 1-1 CONTINUATION attached for additional narrative. [ ] MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentist	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 22, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. 117

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	54	° F	60	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Mike Smith, LiRo inspector, on site today. See his report this date for work perform today.

I spoke with Mike about the alignment of the 12" SCIPP connecting DS-08 and DS-07. Due to a conflict at the 45 degree bend with the existing 16" High Pressure Gas line, the 12" SCIPP was warped around the bend to be able to connect to the DI's. No additional quantity of pipe, excavation or backfill was needed.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentist	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 23, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. 119

	AM		PM	
Weather	Cloudy		Rain	
Temperature	52	° F	55	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz construction worked on excavation and installation of DS-08. During excavation a buried signal pole foundation was encountered and required busting the concrete and removing completely to facilitate setting of DS-08. Removal of the existing concrete foundation will be paid under Item 202.19. This volume will not be included in the quantity workup for Item 206.0201 Tranch and Culvert. Due to the depth of foundation addition excavation was required to seat the DS on a bed of select stone Item 203.07.

2) Prime continued rough grading subgrade from approximate station 14+00 +/- going east. The surface is being sealed rolled prior to rain and end of day..

3) Prime worked on parging DS 9,10 and 11 pipe penetrations with concrete pavers/brick and mortar.

4) Mark Marcheson and I reviewed Signal pole layouts at all quadrants. Reminded mark that the foundation codes are on the plan sheets. 05 for the 45' mast arm and 07 for the 50' mast arm. ZOladz has opted to go with a 42" square foundation which has a minimum embedment depth of 6.75' and 7.5'. Pole location at the NW Quad needs to have the curb for the split trail laid out to ensure foundation does not impact propose curb. Pole locations on the SE and NE Quad will require extreme care in excavation due to gas and fiber optic presence. We discuss finish grade and depth of forming the top portion. Forming of top can be a minimum of 6" in sidewalk areas.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Mark and I discussed if the top portion to be formed could be a 3' diameter at the NE and SE quad due to possible conflict with sidewalks and ramps. I spoke with Tom VanSplunder, NYSDOT Project Rep. No Objects to forming top section round. I stated the 3' diameter provides the minimum 8" space between the 20" pole base and edge. However, the reinforcing cage will need to be evaluated.

6) National Grid Rep. Kevin Urbanski, called this AM. Relocation of the signal pole at the NW quadrant is scheduled for 4/30/2019. Casey, from Zoladz was notified.

7) Returned Submittal Z-51 HDPE Pipe for boring operation with no exceptions. Returned Submittal Z-52 Road Boring operation plan. Additional information is required.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentice	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 24, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. 120

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	43	° F	58	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz removed the existing concrete concrete bus pad from the NW Quad, Barricades with sidewalk close signs have been placed on the NE and SW quadrant prohibiting unauthorized entry into the excavated construction zone.

2) Prime continued rough grading subgrade from approximate station 14+00 +/- going east. The surface is being sealed rolled prior to rain and end of day..

3) Prime worked on parging pipe penetrations in various DS and MH which was not previously done with concrete pavers/brick and mortar.

4) Received response back from ECDSM, Joe McNamara, regarding the resubmission of the STS "O" ring for the sanitary sewer manholes. The ECDSM responded that the manhole supplier needs to submit a vacuum test certification that the test passed with the use of the STS "O" ring and for the STS specifications; specify that the lubricant compound to be used on Spigots and Bells is "Asphaltic Joint Compound".
Later this date, Mark Marcheson sent me an email with an attachment stating this is the O ring that Binghamton will use for the manhole joint. The "O" ring submitted was the "O", Tylox Superseal that ECDSM has been requesting. I forwarded it to Joe McNamara.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Received comments back from NYSDOT Environmental regarding whether the tests that NYSDEC is requesting be done on the SWRT material fell within the contract items for the project. I was informed that some of the test requested is not covered under the items in this contractor.

Gina W. (ECDPW) has been kept informed.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		3			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentice	1									
Plumber										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 25, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. 121

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	36	° F	58	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, continued grading and compacting and shaping the subgrade, placing subbase reinforcement textile and rough grading subbase stone. The reinforcing material is being carried through to the existing curb line for Rte. 5. The widening will use the separation fabric as per design.

2) Prime worked on setting Manhole rims and covers to grade. Concrete precast rings are being used to raise to finish grade.

3) Sent email to Mark Marcheson inquiring what facilitated Binghamton change in their position that the Tylox ring will not work on their pre-cast manhole joints. I had concerns that they just submitted the Tylox Seal to satisfy ECDSM and they were going to try and get the STS "O" ring in their MH Joint. I also questioned that if the Tylox O ring does not properly set in the manhole then would it be able to pass the leak test. No response back today.

4) Received Zoladz submission for Estimate 04. The subcontractor certified payrolls were not included with the submission or entered into LCPTracker. I will confer with ECDPW for direction

5) Sent in the weekly TAR Notification

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS					Survey Truck					
IRONWORKERS					Dozer					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Quarry Truck					
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice										
Electricians										

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 26, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. 122

	AM		PM	
Weather	Cloudy		Rain	
Temperature	55	° F	40	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Prime left at noon for day.

1) Prime, completed conduit excavation for lighting, LP-2 to LP-1. and for signal conduit from NW quad to SW Quad. The depth of trench is a minimum 28" below finish grade. No bid was submitted for conduit excavation.

2) Sub Contractor, Spoth Electric on site and installed and installed 2" rigid PVC conduit for street light from LP-1 to LP-2 and for signal crossing under Dona Extension, Sw Quad to NW Quad. The ends of all conduits are being sealed as no pull boxes have been installed.

3) Prime backfilled both, lighting and signal conduits, with Item 203.07 Select Granular stone . Electrical Marking tape is being placed 8-12" above conduits.

4) I reached out to Nat'l grid regarding confirmation of power source and meter location for new street lighting along with confirming the power source for new signal system will remain as existing signal system. I was informed a service request needed to be filed. I spoke with Gina W. (ECDPW) regarding the service request. Gina forwarded to me a copy of the service request submitted July 2018. I forwarded a copy to Nat'l grid. An on site meeting with Nat'l. Grid Planning personal is scheduled for Thursday or Friday of this week.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) I spoke with Mark Marcheson reminded that we are awaiting answers to the questions posed as to why there is a change in Binghamton change in their original position that the Tylox ring will not work on their pre-cast manhole joints but now it's ok. Mark will look into

5) Spoke with Gina about Estimate 04 not having subcontractor certified payrolls were not included with the submission or entered into LCPTracker. I was informed I can I can approve Zoladz's CP's.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1	1		
LABORER					Skid Steer					
EQUIP. OPERATOR	2	2			Track Excavator		2			
TRUCK DRIVERS					Survey Truck					
IRONWORKERS					Dozer					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice					Utility Truck			1		
Electricians		2			Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 29, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. 123

	AM		PM	
Weather	Clear		Rain	
Temperature	30	° F	48	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, resumed work on placement of clean fill on north side of road, 4+25 to 8+50 +/-. The demarcation fabric is placed prior to placement of approved fill. Prime also worked on placement of subbase stone for proposed sidewalk on north side. Prime inquired if they could place 8" of subbase material and be paid for when the plans call for 6". The request was denied.

2) Zoladz foreman, Casey requested to close SB Rte 5, right lane Wednesday to facilitate saw cutting pavement and resume installation of drainage from DS-11 to DS -12. A revised TAR report was sent advising of lane closure the remainder of the week between 7AM and 3 PM

3) Reminded Mark Marcheson that we still have not received a response from the MH Pre-caster regarding change of position on "O" ring. Mark asked about a notice he got from his office on an estimate being 120 days pass due. I explained that the County will not begin the review process until all submission requirements have been received and certified payrolls entered into LCPTracker. This will be discussed tomorrow at the bi-weekly progress meeting.

4) Prime encountered another concrete substructure within the limits of placement of demarcation material and the 1" clean fill cap. I informed Casey that the depth of removal is at a minimum be 6 - 12" below the demarcation fabric. Foundation is 1+60+/-, 27' to 54' Lt.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer					
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS					Survey Truck					
IRONWORKERS					Dozer					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice					Utility Truck					
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: April 30, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. 124

	AM		PM	
Weather	Cloudy		Rain	
Temperature	39	° F	48	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, continued work on rough grading subbase material for sidewalk and prepping for placement of the demarcation material. At approximate station 1+63, an existing foundation is present at the outer limits of the ROW widening. The foundation is within approximately 4' of the boundary line. The foundation will remain and the demarcation will terminate at this point.

2) An area at approximately 13+50 was in my opinion exhibiting deeper ruts then what would be expected. I showed Casey the area of concern. There has been a lot of truck and equipment traffic in the area. Casey also stated the area was not fully compacted. We agreed to monitor and address if concerns remain.

3) Casey and I discussed signal pole location in small island on the NW quad. The foundation may be too close to the curb and may have to be shifted a foot away to fit. Will look at location of signal heads to see how much adjustment there can be and still permit proper signal head alignment.

4) National Grid on site and relocated PP2525 north of its current position. Spectrum and Verizon needs to be contacted to relocate their wires. Mark Marchedson was informed this was to be done.

(Over)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Received by email late in day a copy of a letter sent to Zoladz from Binghamton MH producer regarding why the Tylox "O" ring can work. The letter states that the "O" ring would not work on a 60" manhole but upon further reiview the Doghouse manhole is a 48" MH. The Tylox "O" ring will work on their 48" MH's. I will forward and discuss with ECDSM.

6) Completed review of Conduit boring plan and conduit plug. Both submittals returned no exceptions taken.

7) Bi-weekly progress meeting held. see minutes for details. Schedule was discussed and whether an extension beyond May 31, 2019 will be considered. ECDPW will review and respond.

8) Approved Cetfied Payrolls (CP's) in LCPTracker. Issue with how LCPTracker shows fringes being paid at a different rate than DOL provided was discussed. A follow up on why the the fringes show different than certified payrolls will be done.

9) Estimate 05 closes today.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer					
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS					Survey Truck					
IRONWORKERS					Dozer					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice					Utility Truck					
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 01,2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. 125

	AM		PM	
Weather	Rain		Cloudy	
Temperature	44	° F	75	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) I reviewed Zoladz TTC plan prior to installation of signs. Plan was approved for Zoladz to begin setup and closing SB Rt Lane. of Rte 5 to complete pavement sawcut (Item 627.50140008 CUTTING PAVEMENT) and continue placement of DS 11 to DS 12. Lane was closed at 7:45 AM and reopened by 3:15PM. Casey reminded that work zone is to be taken down and lane returned by 3:30 PM. Steel plate place over openings and edge protection/ delineation in place. Roadway being swept and clean of debris.

2) Prime had to pre-bust existing asphalt/brick and concrete road base prior to continuing drainage excavation. Casey was informed that the busting of the road base to facilitate excavation did not fall within the description for Substructure removal and as such payment will be made under Item 203.02 Unclassified excavation.

3) Was informed the elevation of the existing drainage pipe (Ds-12) for tie-in of new 12" SCIPP from DS 11 was slightly higher than originally thought. This Engineer re-evaluated and made minor revisions to invert grades. No impact to contract quantities.

4) Received response back from ECDSM that the Tylox "O" ring acceptable. Mark Marcheson was notified and told I will double check to ensure all is correct and will respond tomorrow.

(Over)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
627.50140008				LF	450.00		Sawcut of Rte 5 for turn lane (FM)		

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Discussed with Zoladz Foreman Casey, regarding filling in existing closed storm sewer and drainage structures on SB Rte 5 with CLSM. I reached out to NYSDOT South Erie Resident Engineer, John Cogswell regarding busting down existing drainage structures below subgrade and filling up existing 12' pipe and drainage structures with CLSM. I explained I had concerns about undermining Rte 5 and not being able to compact stone fill. John was agreeable. Cassey was informed and that payment will be with contract items. He agreed. CLSM to be placed at a later date.

6)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer					
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS	1				Survey Truck		1			
IRONWORKERS					Vermeer saw		1			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentice					sweeper		1			
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 02, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. 126

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	45	° F	54	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz closed SB Rte 5, Rte lane at 7:30AM and reopened at 3:05PM. Steel plate place over openings and edge protection/ delineation in place. A stone wedge (1on3 Max) is being placed for drop off protection. Roadway being swept and cleaned of debris.

2) Prime continued excavation for placement of 12" SCIPP between DS 11 and DS 12. (Item 206.0201). Clean select stone is being used for pipe bed and backfill around pipe to a height of 1' above pipe and compacted with hydraulic tamper. Prime then continue backfill with Select Stone (Item 203.07) to subgrade in 6"-8" uncompacted lifts and then compacted.

3) Prime continued excavation for Rte 5 box out. Additional depth was excavated to remove remnants of old road way. (Item 203.02). The bottom of cut was compacted with a steel drum vibratory roller and then backfilled to subgrade with select granular fill, (Item 203.0). Prime installed geotextile separation fabric (Item 207.21) and rough placed first course of subbase stone (Item 304.12).

4) Prime continued placement of demarcation fabric (item E207.91) and rough grading clean material around Station 3+00 to 5+00, Lt. (item 203.03)

5) Erie County Water Authority (Tom) on site today to test newly installed fire hydrants.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
627.50140008				LF	450.00		Sawcut of Rte 5 for turn lane (FM)		

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5 Con't.) Hydrants were pumped out, weeps plugged tested. Hydrants are fully operational. Tom stated that the fire hydrants are to be painted with an oil base John Deere yellow paint. (Not Spray Paint). Tom additionally stated that when paving begins, the contractor can use the hydrant closest to welded tube. The back flow preventer is to be braced and supported to prevent stress on connections. When Paving is complete and the hydrant no longer needed, Tom (ECWA) is to be notified and the hydrant will need to be re-pumped.

Tom will be sending the cerification letter stating the hydrants are acceptable (pending Paint). Tom also requested to be present at the final inspection and project walk through.

6) The sanitary manhole shop drawings were returned to Zoladz with approval. Due to the shop drawings did not identify the Tylox "O" ring, Zoladz was requested to update the shop drawings showing conformance with the approved Tylox "O" ring. Mark Marchesn stated production of pre-cast units is expected that 2 a day will be produced.

7) Spoke with Jaimee (Zoladz). Certified payrolls for Zoladz has been entered in LCPTracker. No subs are entered.

8) Verizon on site and relocated theirs and spectrum's wire from old utility pole NM2525 to new relocated Utility Pole. The existing Power pole was removed.

9) Primes Foreman, Casey inquired if they could remove the existing Ped. Pole from the NW quad to facilitate excavation and grading for Rte 5 box out. Permission granted.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer					
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS	1				Survey Truck					
IRONWORKERS					Vermeer saw					
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem		1			
Surveyor	1				Vibratory Roller		1			
Oper Apprentice					sweeper		1			
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 03,2019

Day of Week: S | M | T | W | T | [X] | S

Sheet No. 1 of 1 DWR No. 127

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	49	° F	54	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz closed SB Rte 5, Rte lane at 7:30Am and reopened at 3:05PM. Steel plate place over openings and edge protection/ delineation in place. A stone wedge (1on3 Max) is being placed for drop off protection. Roadway being swept and clean of debris.

2) Prime continued excavation for Rte 5 box out. Additional depth was excavated to remove remnants of old road way. (Item 203.02). The bottom of cut was compacted with a steel drum vibratory roller and then backfilled to subgrade with select granular fill, (Item 203.0). Prime installed geotextile separation fabric (Item 207.21) and rough placed first course of subbase stone (Item 304.12).

3) Prime removed existing drainage structure frame, grates and top 2'+ of drainage structure. The DI's were cleaned of deleterious material and CLSM was placed in each DI structure and allowed to flow into existing pipes. Abandonment of the pipe/Di's and filling with CLSM will be in lieu of using Select granular fill (Item 203.07) and paid as such for theoretical quantity. The CLSM material was also used as backfill around DS-12 due to tight area and difficulty to provide acceptable compaction.

4) Rec'd amended Sanitary shop drawings and Submittal Z-49R1 was returned with no exceptions. All comment have been addressed.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer					
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS	1				Survey Truck					
IRONWORKERS					Vermeer saw					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem		1			
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				sweeper		1			
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 06,2019

Day of Week: S [X] T W T F S

Sheet No. 1 of 1 DWR No. 128

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	49	° F	54	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz closed SB Rte 5, Rte lane at 7:30Am and reopened at 3:05PM. Steel plate place over openings and edge protection/ delineation in place. A stone wedge (1on3 Max) is being placed for drop off protection. Roadway being swept and cleaned of debris.

2) Prime completed excavation for Rte 5 box out and rough graded subbase stone (Item 304.12). SJB will be scheduled to perform compaction tests at later date.

3) Prime resumed placement of demarcation fabric, placement of clean embankment material and rough grading Subbase stone for sidewalk Sta. 2+50 +/- to Sta 3+00+/-.

4) Prime began excavating for new curb west of Railroad tracks on both sides. The excavation bottom was compacted with a vibratory plate tamper.

5) Prime removed the existing Ped. Pole from the NW quad. Sub-contractor Spoth Electric on site to disconnect from controller cabinet and remove wire. The Ped pole was taken to Spoth's shop for delivery to NYSDOT at a later date.

6) Discussed with Casey the cross slopes from existing SB Rte 5 pavement to new drainage structures in SB Rt. Turn lane. Grades between drainage structures along the curb line we're erratic. I reviewed the grading and cross slopes and modified to provide consistency for paving.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer					
EQUIP. OPERATOR	4				Track Excavator		2			
TRUCK DRIVERS					Survey Truck					
IRONWORKERS					Utility Van			1		
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				sweeper		1			
Electricians		2			Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 07,2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. 129

	AM		PM	
Weather	Rain		Rain	
Temperature	48	° F	45	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, worked on setting new pre-cast drainage tops for DS 9, 10, 11 to revised grade. One DS, (#9) needed to be cut down. A check of the grades showed to be either right on or .01' difference. DS-7 new grate grade is 578.95 vs 598.87.

2) Prime worked on completing placement of inlet/out protection stone for the large culvert in the SWRT. Prime was told the initial placement was short of the full area of embankment it was to protect and the toe needed more stone.

3) Prime continued grading for in preparation for new curb on the west end of the project, west of the RR. Tentative date for the slipform curbing is next Wednesday 5/15/2019.

4) I met with National Grid Rep. Dennis, regarding location of Light Pole Meter assembly and verification of power supply from relocated Power Pole 2525. Dennis informed me that the design location of the meter and the power source is correct. The installation will be as per plan. Dennis will put together a plan for their reference and provide me a copy. Also discussed power feed for new signal systems on Rte 5. Source will remain as is, however Nat'l Grid may replace the existing wooden pole.

5) Sent estimate 05 to Zoladz.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

6) Received submittal for EPFLEX Railseal for RR crossing. NET.

7) Rec'd cost proposal for additional sampling and testing of SWRT excavated material per NYSDEC. Cost proposal forwarded t ECDPW (Gina W.) Minor adjustment to Zoladz markup required.

8) Discussed Est. 05 quantities with Casey and Mark. Some revisions/corrections are needed.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer					
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Survey Truck					
IRONWORKERS					Vermeer saw					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				sweeper		1			
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 08,2019

Day of Week: S | M | T | ~~W~~ | T | F | S

Sheet No. 1 of 1 DWR No. 130

	AM		PM	
Weather	Clear		Clear	
Temperature	41	° F	64	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, worked on setting new pre-cast light standard foundations LP1 to LP5. The foundations are placed on a bed of clean bedding stone and partially backfilled with select stone. The 2" PVC electrical conduits need connection to the foundations. Prime reminded that electrical tape is to be continuous all the way to the light std.

2) Prime resumed grading subbase stone (Item 304.12) for Rte 5 box out area.

3) Met with Maurice Moore, NYSDEC on project site today. There were no issues identified or corrections needed.

4) Received telephone call from NYSDOT South Erie Resident Engineer, John Cogswell. He received a complaint from Senator Kennedy's office of stone being on the sidewalk between Dona street and Lake Avenue. I reviewed the area and found no stone on the sidewalk and informed John that sidewalk only exists on the East side of route 5 and Zoladz has not done any work at all on the east side of Rte.5

5) Zoladz Surveyor on site doing misc. layout and establishing grades for various elements of work.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer					
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Vermeer saw					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor	1				Vibratory Roller		1			
Oper Apprentice	1				sweeper		1			
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 09, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. 131

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	54	° F	66	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, continued new pre-cast light standard foundations LP1 to LP5. The foundations are placed on a bed of clean bedding stone and partially backfilled with select stone. The 2" PVC electrical conduits need connection to the foundations.

2) Prime continued grading subbase stone (Item 304.12) for Rte 5 box out area.

3) Prime painted new fire hydrant with yellow paint per ECWA request.

3) Directional Boring Contractor scheduled to meet on site Friday 5/10/2019 in the AM to review and discuss boring plan and schedule.

4) Revised and returned Estimate 05 to Zoladz.

5) Notified Zoladz that Sub Contractor Spoth Electric certified payrolls have not beed entered into LCPTracker. Requested Zoladz to provide assistance to Spoth. Estimates will not be processed until all submission requirements are fulfilled.

6) Advise Mark Marcheson that contractor mark up for sub contractors work is capped at 5%. Mark requested 15% on their cost proposal. Mark also informed that Natures Way needs to be entered into LCPTracker. (OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

7) Sent out minutes from 4/29/2019 progress meeting.

8) Sub Contractor Spoth Electric on site and installed conduit and ground wire for light standards and made connections to previously installed conduit. Zoladz is doing backfill at later date.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer					
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Vermeer saw					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				sweeper		1			
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 10, 2019

Day of Week: S | M | T | W | T | [X] | S

Sheet No. 1 of 1 DWR No. 132

	AM		PM	
Weather	Rain		Rain	
Temperature	64	° F	52	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, reported to work, due to inclement weather, Casey conducted a safety meeting and dismissed the staff for the day.

2) Casey and I met with the Directional Boring Contractor, Zima, The proposed schedule is to Mobilize on site Friday 5/17/2019 and do actual boring 5/20/2019. Zima went over plan for boring, monitoring the bore for depth and alignment and capping the 3" HDPE conduit ends with approved plugs. NITTEC will be notifed about possible center turn lane closure during boring in order to conduct probe for depth and alignment check. Zoladz is to provide MP&T.

3) Continued working on quantity reconciliation for preparation of CO #02.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER					Skid Steer					
EQUIP. OPERATOR					Track Excavator		2			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Vermeer saw					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				sweeper		1			
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 13, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. 133

	AM		PM	
Weather	Rain		Rain	
Temperature	45	° F	48	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, called early AM and informed me that no work today due to rain forecasted all day.

2) Sent Draft CO-#02 to Gina, (ECDPW). Mark Marcheson requested if I had any information on CO #02 for his company business meeting. A copy of the draft C) #02 was provided.

3) Continued working on quantity reconciliation for CO #02.

4) Spoke with Mark Marcheson about status of CIP Pipe lining cost verification. He requested if there was a copy of the video of the pipe available. I informed him that they requested last November and it was provided to Gary Hall. I will look into whether a copy was provided or the opportunity to view the video was offered.

5) Received via email a copy of letter to Zoladz granting an extension of completion date to July 31, 2019 with the exception being the completion of the new signal system on NY Rte. 5

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER					Skid Steer					
EQUIP. OPERATOR					Track Excavator		2			
TRUCK DRIVERS					Survey Truck		1			
IRONWORKERS					Vermeer saw					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				sweeper		1			
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: Spoth Electric	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 15, 2019

Day of Week: S | M | T | ~~W~~ | T | F | S

Sheet No. 1 of 1 DWR No. 134

	AM		PM	
Weather	Cloudy		Rain	
Temperature	42	° F	54	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, continued setting DS 10 and 11 concrete caps with #3 welded frames cast in the precast top to grade. New grates are ductile iron, ungalvanized. A recheck of submittals and specifications identified this is an approved grate per NYSDOT and accepted by ECDPW.

2) Prime continued grading for placement of new concrete curb. fine grading is being done after slipform machine grade lines are placed.

3) Prime worked on shaping spoil area on north side of project.

4) Prime worked on backfilling light post foundations. Marking tape was placed to foundation connecting to marking tape previously placed during backfill of conduit. Backfill of foundations is with Select Granulalar fill (Item 203.07).

5) Sub contrator CVF on site placing grade pins and lines for the curb slip form operation. Placement date for slip forming curb has not been confirmed. Discuss concrete testing with Zoladz Foreman Casey and reminded him that Zoladz is to provide the concrete testers.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1	1		
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS					Survey Truck					
IRONWORKERS										
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				sweeper					
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 16, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. 135

	AM		PM	
Weather	Clear		Cloudy	
Temperature	42	° F	58	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, continued grading for placement of new concrete curb. fine grading is being done after slipform machine grade lines are placed.

2) Prime worked on shaping spoil area on north side of project.

3) Prime placed railroad rubber (EPFLEX Railseal) for GWRR tracks. There is a 3' rail splice that will require a modification to the seal. Casey informed me that they have reached out to GWRR for confirmation on making a modification to the seal. The proposed modification would be to cut and remove the lower section of the railseal to be enable the seal to fit around the rail splice plate. It was discussed that there will be no gaps between the seal and the rail which would permit infiltration of road grit/debris.

4) Prime worked on grading the south side of Dona Street beyond the curb line in preparation for placement of demarcation material and clean fill. During grading, Prime encountered a concrete foundation between Station 12+27 to Sta 12+47. Prime was instructed that the foundation that will conflict with installation of sanitary sewer pipe is to be removed accordingly. Any other portion of the concrete that is not an obstruction to the sewer line is to only be removed 2' below the top of subgrade prior to placement of the demarcation fabric.

5) Subcontractor CVF continued placement of slipform grade lines for curb on North side. (OVER)->

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

6) Subcontractor CVF continued placement of slipform grade lines for curb on North side.

7) Mark DiPasquale, LiRo Engineer was shown around job. Mark will be on site Friday and Monday.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1	1		
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS					Survey Truck					
IRONWORKERS										
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					10 wheel tandem					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				sweeper					
Electricians					Mini Excavators		2			

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 21, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. 138

	AM		PM	
Weather	Cloudy		Clear	
Temperature	42	° F	57	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, continued grading for placement of new concrete curb. fine grading is being done after slipform machine grade lines are placed.

2) Prime completed installation of railroad rubber (EPFLEX Railseal) for GWRR tracks. Approval was obtained from GWRR for making a modification to the seal around the 3' rail splice. The seal was tight to the rail. (Item 675.8200002 - 2 Seals at 46 ft = 96 LF final)

3) Prime worked removal of existing concrete foundations encountered during excavation for new 8" sanitary sewer pipe between MH-6 and MH-5. (Item 202.19)

4) Prime assisted Zima Construction excavating bore pits for directional boring for new signal conduit under NY Route 5, south side and under Dona Street, east side.

5) Sub-Contractor Natures Way, (Dale Granza and Lauren McMamus) on site for sampling excavated material from SWRT currently staged at the designated area. The sampling and testing will be in compliance with requirements identified by NYSDEC.

6) Sub-contractor, Zima, on site and continued trying to bore under Route 5. Unknown obstructions are being encountered. Zima is trying to adjust accordingly but an alternate route may be needed. This inspector is awaiting any recommendation/request for an alternate bore path.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK
675.8200002				LF	96.00		Railseal at GWRR track crossing		

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

7) Sub-contractor, Spoth Electric dropping off signal pull boxes to site. No submittals for review and approval have been submitted by Spoth/Zoladz. Payment will be withheld if PB are installed without an approved submittal.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup		1	1		
LABORER	2	2	3		Skid Steer		1			
EQUIP. OPERATOR	2		1		Track Excavator		2			
TRUCK DRIVERS					Utility Truck					1
IRONWORKERS					Mini Excavators		2			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels				2	
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine				1	
Electricians-Linemen				2	Slurry Vac Trk.		2		1	

OP 1: Zoladz	OP 2: Natures way	OP 3: Zima	OP 4: Spoth

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 22, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. 139

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	52	° F	67	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, set sanitary manhole 10 bottom section. Area was excavated and bedding stone place. Shoring is being use. MH-10 was set to accommodate new invert elevations due to waterline as-built plans depicting 16" waterline elevation was off by 2'

2) Prime began excavation for MH-5. Heavy inflow of ground water is being encountered. Prime is having to employ 4" water pumps in attempting to maintain a workable water level.

3) Prime competed backfill of concrete substructure with suitable material. Cost of suitable material is included in Item 206.0201.

4) Sub-contractor, Zima, on site and continued trying to bore under Route 5, Unknown obstructions are being encountered. Zima is trying to adjust accordingly but an alternate route may be needed. This inspector is awaiting any recommendation/request for an alternate bore path.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup		1			
LABORER	3		3		Skid Steer		1			
EQUIP. OPERATOR	2		1		Track Excavator		2			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators		2			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels				2	
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine				1	
Electricians-Linemen					Slurry Vac Trk.		2		1	

OP 1: Zoladz	OP 2:	OP 3: Zima	OP 4: Spoth

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 23,2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. 140

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	63	° F	73	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, continued excavation for MH-5. Heavy inflow of ground water is being encountered. Prime is having to employ 4" water pumps in attempting to maintain a workable water level. Pump stopped working and work ceased.

2) Prime excavated for new signal pull box and trench for connection of the new 3" HDPE pipe at the NW quad of Dona and Rte. 5. Concrete road base was encountered and had to be broken up with a hydraulic buster. Prime requested payment for substructure removal, request was denied and will be paid under unclassified excavation.

3) Sub-contractor, Zima, continued (day 3) trying to bore under Route 5, Unknown obstructions are being encountered. Attempt failed. This inspector is awaiting any recommendation/request for an alternate bore path.

4) Subcontractor, CVF on site and worked on setting up slip form machine. Concrete for type VF150 curb is scheduled for 8 AM tomorrow morning. SJB showed up on site thinking today was concrete placement. SJB will return to site tomorrow . Concrete specification and testing frequency was discussed.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1	1		Pickup		1	1		
LABORER	3	3	3		Skid Steer		1			
EQUIP. OPERATOR	2		1		Track Excavator		2			
TRUCK DRIVERS					Utility Truck			1	1	
IRONWORKERS					Mini Excavators		2		1	
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels				2	
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine				1	
Electricians-Linemen					Slurry Vac Trk.		2		1	

OP 1: Zoladz	OP 2: CVF	OP 3: Zima	OP 4: Spoth

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 24,2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. 141

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	63	° F	73	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime,Zoladz, continued excavation for MH-5. Heavy inflow of ground water is being encountered. Prime is having to employ 4" water pumps in attempting to maintain a workable water level. Shoring is being used.

2) Prime resumed working on Utility Trench. Prime is having to dewater area prior to placement of demarcation material. Not much progress was made this date.

3) This inspector and Zoladz foreman Casey, laid out the ADA ramp at the west end of the project. All ramp slopes, clear areas and side slopes are being verified.

3) Sub-contractor, Zima, continued (day 4) trying to bore under Route 5, The bore head could not be steered around the existing 10' x 10' sanitary manhole located in the center of NY route 5 This inspector is awaiting any recommendation/request for an alternate bore path. Zima pulled off site at noon today

4) Subcontractor, CVF, first day of curb placement, slipped form class J concrete from United Materials, Curb is being check for grade and continuity. Curb placement began at Sta 0+60 Rt. to Sta. 8+70 Rt and Sta 0+58 to Sta. 4+42. 10 foot gaps at DS structure are being provided to accommodate installation of DI's frame, grate and curb box. All curb is being lightly broomed and WR Meadows Seal Tight 1100 Resin Based Water emulsion Curing compound is being applied.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

5) Received an email this date from Subcontractor Zima stating that they could not steer around the sanitary sewer manhole or other obstructions. The email requested permission to move the bore pit for the conduit crossing under route 5 further south. This shift may increase certain conduit runs and wires, but approval was granted. The email also expressed concerns the NYSDOT Fiber cable crossing Dona Street on the east side under NY Route 5 may be in conflict with the 3" HDPE conduit. I reached out to NYSDOT and will meet with Neil Smith tomorrow on site to discuss specifics of the fiber optic cable and potential conflict. Email from Zima was forwarded to Gina for her review.

6) I also reached out to another contractor who did some work in the area to see if they had any records of what or where the fiber optic cable is. They will look into and get back to me.

7) Spoke to Gina W. (ECDPW) today about whether supervisors or foreman who are on salary would be accounted for in their Certified Payrolls. My experience is that newbies and salaried employees do not show up on certified payrolls.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1	1		Pickup		1	1		
LABORER	1	2	2		Skid Steer		1			
EQUIP. OPERATOR	1		1		Track Excavator		2			
TRUCK DRIVERS					Utility Truck			1	1	
IRONWORKERS					Mini Excavators		2	1	1	
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS		2			Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels				2	
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine				1	
Electricians-Linemen					Slurry Vac Trk.		2		1	

OP 1: Zoladz	OP 2: CVF	OP 3: Zima	OP 4: Spoth

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 28, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Rain		Cloudy	
Temperature	59	° F	66	° F

CONTRACTOR WORK HOURS: 0700 TO 0930

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime attempted to work on Utility Trench. Prime is having to dewater area prior to placement of demarcation material. Pump stopped working.

2) Prime performed general cleanup.

3) Prime, surveyor, laid out curb grades at radius; discussed ADA requirements.

4) Prime left job site at 9:30 am.

5) Sub contractor, CVF sent message - no work this date due to rain.

6) Progress meeting this date:
- discussed boring
- Zoladz sending RFI regarding shifting Rte 5 bore loation South; included in electrical conduit - will respond.

7) Received word - fiber optic is 18' under Dona St; (to meet NYSDOT tomorrow morning).

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup					
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor	1				Vibratory Roller					
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Slurry Vac Trk.					

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 29,2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Rain		Clear	
Temperature	52	° F	60	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, excavation for MH-9. Heavy inflow of ground water is being encountered. Prime is having to employ 4" water pumps in attempting to maintain a workable water level. Shoring is being used (8x8x8) - 64x2 = 128SF. Backfill with suitable material. Note: This inspector discussed with Casey use of roof tar and "O" ring needed.

2) Misc clean up of area.

3) Prime set new signal pull box for connection of the new 3" HDPE pipe at the NW quad of Dona St and Rte. 5.

4) Cracked were noted in the concrete curb at the following locations:
8+11 RT
7+59
6+91.5

5) Met with NYSDOT to discuss F.O. Informed Gina W. (ECDPW) of meeting.

6) Spoke with Maurice Moore (NYSDEC) regarding boring; will meet Friday to discuss.

7) Informed Mark - can pay for conduit & wire; but not failed attempts.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators		2			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Slurry Vac Trk.					

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 30, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	51	° F	64	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, continued grading for placement of new concrete curb. Fine grading is being done after slipform machine grade lines are placed.

2) Prime graded sidewalk subbase stone - west end.

3) This inspector and Zoladz foreman Casey, established ramp grades and location of curb ramp at the NW quadrant of Dona St and Rte 5.

4) Prime continued to dewater utility trench & MH-9

5) Subcontractor, CVF, back onsite to place curbing, slipform class J concrete from United Materials, Curb is being check for grade and continuity. Curb placement along N side to turn lane. All curb is being lightly broomed and WR Meadows Seal Tight 1100 Resin Based Water emulsion Curing compound is being applied. Curb placed this date:
N Side, Sta 4+45 to Sta 6+35 - 190 LF
Sta 6+40 to Sta 13+08 - 668 LF
28' South of DS-11 to W side of DS-7 - 297.3

total = 1155.3 LF

----------OVER

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

6) This inspector discussed with Chuck (CVF) regarding the cracks in the newly placed (Friday) curb. He responded that they would V-CUR and seal cracks. He was informed that no payment will be made until areas were fixed.

7) SJB onsite for testing of concrete. Cylinders were taken.

8) Received email from Gina W. (ECDPW) regarding holding off on name change.

9) Reserved conference room for meeting on Tuesday, 6/4/2019 at 9am regarding RR

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1			Pickup		1	2		
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS		2			Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Slipform Machine			1		

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: May 31, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	52	° F	64	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, set top halves of MH-10 & MH-9. Tylok O ring was included, roof tar was utilized and excess material (inside & out) was troweled off, as previously discussed. Backfilled with clean stone (2') and then suitable material.

2) This inspector discussed XXXXXXX Patch, etc. Casey states this is for any adjustment rings & manhole lids.

3) Prime, worked on dewatering of MH-6.

4) Prime working on Utility Trench. Prime is having to dewater area prior to placement of demarcation material. Fabric and clean fill was placed. 8" PVC was left in place at vent locations.

5) Met with Zima and Maurice M (NYSDEC), discussed bore path for Dona St. All set F.O. Need to hand dig NE quad due to water/gas/san sewer lines under Dona St. Bore pit to be located more South of existing DI and SE quad. I told Maurice I only paid for completed trench (not failed attempt), he disagreed, he will send letter. I informed Gina W (ECDPW). Zima to return to site Monday.

6) Gave Casey field measured curb length.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavator					
CARPENTERS					Excavator w/Hydraulic tamper		1			
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Slipform Machine					

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 03, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	45	° F	57	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, continued grading sidewalk subbase stone.

2) Prime excavated for Test Location for Bore Pit to expose the conduit; damaged conduit for signal F.O./ removed conduit for existing NW & NE Ped Loops (including wire).

3) Sent email regarding moving Bore Pit location; Spoke with Mark.

4) Excavated area was fenced in.

5) Subcontractor, Zima, bored and pulled (3) - 3" conduits (under Dona St.). Note: cable broke, damaged was pulled out and rebored.

6) Subcontractor, Spoth, onsite regarding signal @ NE quad and repaired the F.O. conduit. Discussed eliminating 18" PB and go directly into new cont. from mast arm.

7) Sent out Meeting Minutes 013.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup/ Lineman Truck		1	1		
LABORER	1		2		Skid Steer		1			
EQUIP. OPERATOR	1		1		Track Excavator		2			
TRUCK DRIVERS					Utility Truck				1	
IRONWORKERS					Mini Excavators		2		1	
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels				2	
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine				1	
Electricians-Linemen		3			Slurry Vac Trk.		2		1	

OP 1: Zoladz	OP 2: Spoth	OP 3: Zima	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 04, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	42	° F	61	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, excavated for MH-8; encountered concrete foundation - removed without busting.

2) Casey called/ I emailed National Grid to install temporary guy wire. Onsite tomorrow for #2335 LP tie-off

3) Prime continued to grade for sidewalk. Discussed transition to meet asphalt at RR track; max grade 25% / 5' slab / detectable warning mats needed. Will grade in between as needed. Discussed concrete mixes/ SJB unavailable for testing tomorrow; Asked Gina if testing was required for 30 yds - concrete sidewalk - yes testing required/ canceled concrete pour.

4) Prime set 30" PB at the NE quadrant of Dona St & Rte 5.

5) Prime excavated for signal pole foundation.

6) Subcontractor, Zima, rebored 12" oversized and pulled 3 - 3" HDPE simultaneously NE to SE Dona St.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

7) CVF onsite setting sidewalk forms.

8) Discussed with Casey needing ACI finishers, certified in flatwork, per Specifications 608

9) Received email from Maurice requesting partial payment.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup/ Lineman Truck		1	1		
LABORER	2	2	2		Skid Steer		1			
EQUIP. OPERATOR	2		1		Track Excavator		1			
TRUCK DRIVERS					Utility Truck				1	
IRONWORKERS					Mini Excavators				1	
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels				2	
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine				1	
Electricians-Linemen					Slurry Vac Trk.				1	

OP 1: Zoladz	OP 2: CVF	OP 3: Zima	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 05, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Rain	
Temperature	62	° F	67	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zolandz, set MH-6. Tylok O ring was included, roof tar was utilized and excess material was troweled off (inside & out). Backfilled with clean stone (2') and then suitable material.

2) Prime continued grading for sidewalk placement.

3) Sub Contractor, Zima, continued boring work at Dona St & Rte 5.

4) Discussions
- Gave Casey signal pole foundation elevations
- M&PT needed for CIP. Reminded Mark of time restrictions, no exception.

5) National Grid onsite to provide tie-backs for existing Power Pole #2535. Prime provided concrete barrier as temp anchor.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup		1			
LABORER	2		2		Skid Steer		1			
EQUIP. OPERATOR	2		1		Track Excavator		2			
TRUCK DRIVERS	1				Ditch Witch				1	
IRONWORKERS					Mini Excavators				1	
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels				2	
Surveyor					Vibratory Roller					
Oper Apprentice	1				Bore machine				1	
Electricians-Linemen					Slurry Vac Trk.					

OP 1: Zoladz	OP 2:	OP 3: Zima	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mark C. DiPasquale, P.E.

Date: June 06, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	60	° F	68	° F

CONTRACTOR WORK HOURS: 0730 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, installed/backfilled signal pull boxes on southeast corner of Rt 5 and Dona.

2) Prime excavated for signal pole foundation on the southwest corner of Rt 5 and Dona. Encountered an old drainage structure having the dimensions of 4.5'x4.5'x5'. Busted out concxrete structure and required over excavation of the foundation hole.

3) Prime installed 2 Goodwin pumps to dewater excavation for sanitary sewer west of MH-6. Continued excavation for sanitary sewer pipe installation. Installed 2 pipe sections of 8 inch PVC sanitary sewer pipe. Trench box was used to protect workers in excavation.

4) Prime assisted subcontractor Spoth with forming of signal pole foundation on the northwest corner of the intersection.

5) Subcontractor, Spoth set, formed and poured signal pole foundation for the northwest signal pole. Concrete tested by SJB and 6 cylinders taken from the concrete batch delivered. Sent M. Lydle elevations prepared by subcontractor to confirm elevation. Elevation checked by prime prior to pour. See MURK 5 for concrete information. Inspector approved of concrete exceeding the 90 minute time limit from patching to completion of discharge.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: 6/7/19

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

6) Subcontractor, CVF, poured concrete sidewalks from the west end of the project limits to approximately station 6+75. Bulkhead installed at the stopping point of the pour. 5 trucks of concrete. SJB conducted testing of the concrete. 6 Cylinders taken at the first truck and air, slump and temperature measured at the 1st, 3rd and 5th trucks. See MURK 5 for concrete information. M. Lydle directed CVF to adjust ramp and landing location to the east and west of the railroad tracks at the west end of the project. CVF decided to bulkhead the pour at the top of the proposed ramp location. Regrading will take place when CVF returns to form the remainder of the sidewalk. First truck air value was 5.9%, 0.1% less than spec. Allowed pour to continue and foreman called plant to have them increase air. Air met spec on remainder of the batches tested. Expansion joint was placed every 40 feet. Checked ADA ramp at the west end of sidewalk and was at 7.2% slope, meeting specification.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1	1		Kobelco SK330 Excavator		1			
LABORER	3				Komatsu PC88 MR Excavator		1			
EQUIP. OPERATOR	3		1		WA250 Loader		1		1	
TRUCK DRIVERS					35N Blue/Green Miniexcavator		1		1	
IRONWORKERS					Doosan DX225LC Exacavator		1			
CARPENTERS					Equipment/Material Truck		1	1	2	
MASONS					Goodwin Pumps		2			
OWN./OPERATORS										
Concrete Finishers		4								
Oper Apprentice	1									
Electricians			1							

OP 1: Zoladz	OP 2: CVF	OP 3: Spoth	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mark C. DiPasquale, P.E.

Date: June 07, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	63	° F	73	° F

CONTRACTOR WORK HOURS: 0730 TO 1600

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, installed 2 Goodwin pumps to dewater excavation for sanitary sewer west of MH-6. Continued excavation for sanitary sewer pipe installation. Installed pipe sections of 8 inch PVC sanitary sewer pipe. Trench box was used to protect workers in excavation.

2) Prime installed signal pull box on northwest corner of intersection for signal loops and adjusted elevation of signal pull box. Worked on installation of pole for service meter for signals. Subcontractor, Spoth, was unable to obtain an 8x8 wood post for service meter installation and will use a utility pole as a substitute as allowed by standards. Backfilled around conduit and signal boxes for northwest signal pole.

4) Subcontractor, Spoth, set, formed signal pole foundation for the southwest signal pole. During excavation as noted in 6/6/19 report over excavation was required. Prime used a 4x8 sheet of plywood as a form on the north side of the excavation. In addition, prime placed #1 stone to support the plywood form. SJB was on site to perform concrete testing and take cylinders. Initial concrete testing showed that air content was at 4.2%, less than spec of 6.0%.

(OVER)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: 6/7/19

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

4 continued) Inspector had concrete tester retest to confirm. Second test showed 3.5%. Contractor had the concrete truck driver add 30 revolutions to the drum and then was tested again. The air was measured at 4.9%. The 90 minute time limit had expired and between the air issues and time limit the truck was rejected. Some material had been place and was removed by the prime. Spoth removed anchor bolts, reinforcing cage and other form work for future use.

5) Prime advised inspector that CVF, sidewalk contractor, may be on site Monday 6/10/19 and/or Tuesday 6/11/19, to continue forming the north sidewalk. The pour for this sidewalk may take place on Wednesday 6/12/19 or 6/13/19.

6) Subcontractor Spoth set conduit between pull boxes on NW corner of intersection.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1	1		Kobelco SK330 Excavator		1			
LABORER	3				Komatsu PC88 MR Excavator		1			
EQUIP. OPERATOR	3		1		WA250 Loader		1			
TRUCK DRIVERS					35N Blue/Green Miniexcavator			1		
IRONWORKERS					Doosan DX225LC Exacavator		1			
CARPENTERS					Equipment/Material Truck		1	2		
MASONS					Goodwin Pumps		2			
OWN./OPERATORS					Case 773B Dump Truck		1			
Concrete Finishers		4								
Oper Apprentice	1									
Electricians			1							

OP 1: Zoladz	OP 2: Spoth	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 09, 2019

Day of Week: [X] M [ ] T [ ] W [ ] T [ ] F [ ] S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature		° F		° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Sent CO-#2 for signal work. Reviewed LCPTracker. Worked on Estimate 06

2) Sub Contractor, Spoth onsite, however, not approved. Wanted to see if Gina (ECDPW) can see entries prior to my approval.

3) Sub Contractor, Nature's Way onsite

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ [ ] Engineer-in-Charge [ ] Resident Engineer Date Reviewed: _____

[ ] MURK 1-1 CONTINUATION attached for additional narrative. [ ] MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON					Pickup			1		
LABORER		2			Skid Steer					
EQUIP. OPERATOR					Track Excavator					
TRUCK DRIVERS					Utility Truck		1			
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader					
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller					
Oper Apprentice					Bore machine					
Electricians-Linemen	2				Slurry Vac Trk.					

OP 1: Spoth	OP 2: Nature's Way	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 10, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Rain		Cloudy	
Temperature	62	° F	67	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, continued grading for sidewalk placement.

2) Prime, excavated for conduit from Power Pole LP-1 to Power Meter Pole (PMP).

3) Sub Contractor, CVF onsite, setting sidewalk forms.

4) Sub Contractor, Spoth onsite, placed PVC conduit from LP-1 to PMP.

5) Sub Contractor, Spoth, set meter pole with National Grid. Needs to be cut down.

6) Met with NYSDOT (Hamburg) to discuss signal items at NE quad of Dona St & Rte 5/ Exchange 18" PB with 24" PB/ Re-route some Loop & Pedestrian wires.

7) Keep 18" PB (as designed) for Power Isolation.

8) Conduit (2 ea.) from existing Controller to new 24" PB for F.O. and Ethernet Connection to new Controller.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1	1		
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS					Utility Truck					1
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen				2	Slurry Vac Trk.					

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4: Spoth

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mark C. DiPasquale, P.E.

Date: June 10, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	64	° F	69	° F

CONTRACTOR WORK HOURS: 0730 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, pumping sanitary excavation and prepping sidewalk for forms.

2) Subcontractor CVF placing forms for sidewalk.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: 7/25/19

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Kobelco SK330 Excavator					
LABORER	1	2			Komatsu PC88 MR Excavator					
EQUIP. OPERATOR	2				WA250 Loader					
TRUCK DRIVERS					35N Blue/Green Miniexcavator		1			
IRONWORKERS					Doosan DX225LC Exacavator					
CARPENTERS					Equipment/Material Truck		1	1		
MASONS					Goodwin Pumps		2			
OWN./OPERATORS					Mini-Roller		1			
Concrete Finishers										
Oper Apprentice	1									
Electricians										

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 11, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	57	° F	69	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, excavated for signal pole foundation at the SE quad of Dona St and Rte 5.

2) Prime, re-excavated for signal pole foundation at the SW quad. Rebar cage was set.

3) Prime, excavated for 8" SDR-25 to MH-6 toward MH-5. Heavy inflow of ground water is being encountered, (2) 4" pumps were utilized for dewatering. Shield is being utlized for shoring.

4) Sub Contractor, CVF onsite to place sidewalk (class D concrete); Sta 6+76 - 12+84. ADA Ramps were also poured at RR. Detectable warning mat was placed. SJB onsite for testing. Cylinders were taken.

5) Progress meeting this date:
-Discussed barricades at W end of Dona St with surveyor.
-Finish profile at full depth is 4" higher than existing roadway.
-Discussed with Casey, signal foundations size to be 48"x48" instead of 42" x42" due to embedment restrictions.
-Gas line is located 4' +/- below grade, which falls in the middle of the signal pole foundation location at the SW quad of Dona St and Rte 5. National Fuel ok with leaving since encased in steel casing.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1			Pickup/ Lineman Truck		1	1		
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS		2			Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Slurry Vac Trk.					

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 12, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	51	° F	81	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, continued excavation for 8" SDR-25 to MH-6 toward MH-5. Heavy inflow of ground water is being encountered, (2) 4" pumps were utilized for dewatering. Shield is being utilized for shoring.

2) Discussed deflection testing; crossings greater than 30 days - need to clean out and dewater prior to testing. Testing to be scheduled.

3) Prime, prepping the SW and SE quad at Dona St and Rte 5, for signal pole foundations. Setting rebar cages (Type M) 1' min embedment.

4) Dug potholes in cover for demarcation survey.

5) Sub Contractor, Spoth onsite to run conduits to the signal pole foundations at the SW and SE quads of Dona St and Rte 5 and from LP-1 to PMP.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup/ Lineman Truck		1			
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	3	1			Track Excavator		2			
TRUCK DRIVERS					Utility Truck			1		
IRONWORKERS					Mini Excavators		1	1		
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen		2			Utility Pumps		2			

OP 1: Zoladz	OP 2: Spoth	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 13, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Rain	
Temperature	63	° F	66	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, placed class A concrete for signal pole foundations at the SW & SE quads at Dona St & Rte 5. SJB onsite for testing, cylinders were taken for each foundation.

2) Prime, placed clean material between sidewalk and curb at West End.

3) Prime continued excavation and placement of 8" SDR sanitary pipe from MH-6 to MH-5. Area was dewatered with 4" pump; shield utilized for shoring; laser utilized for setting pipe at correct elevation. Backfill with clean stone, bedding to 1' above pipe. Casey informed me they encountered another substructure foundation near MH-5; will remove tomorrow.

4) Discussed deflection & Leakage testing with Casey. Scheduling TBD. Noted again more than 30 days have passed since installation of crossings.

5) Sub Contractor, CVF onsite to remove sidewalk forms.

6) Chuck (CVF) called for sidewalk & curb quantities.

7) Received email from Jeff Levell (Zoladz) requesting to discuss additional compensation for having to continuously having to dewater excavations. I forwarded to Gina (ECDPW) with recommendation of no additional payment per contract specification language.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup		1			
LABORER	2	2	2		Skid Steer		1			
EQUIP. OPERATOR	3		1		Track Excavator		1			
TRUCK DRIVERS					Utility Truck				1	
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen			1		Steak Truck			1		

OP 1: Zoladz	OP 2: CVF	OP 3: Spoth	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 14, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	54	° F	65	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, continued excavation and placement of 8" SDR sanitary pipe from MH-6 to MH-5. Pipe trench was dewatered with 4" pump; MH-6 utilized a 2" pump for dewatering; shield utilized for shoring; laser utilized for setting pipe at correct elevation. Backfill with clean stone, bedding to 1' above pipe. During excavation substructure foundation was encountered and removed.

Substructure removals:
STA 10+25 - 3'x4'x4.5'
STA 10+00 - 4.5'x8'x5'
STA 9+85 - 4'x5'x4.8'

2) Prime began excavation from DS-8 to DS in Rte 5 for Underdrain.

3) Prime hit 36" concrete outflow sewer pipe during excavation for PB at SW quad of Dona St & Rte 5 (behind DS-17A). Marking for EC Sewer approx. 30' south of excavation. Top of pipe approx. 30" - 36" below existing grade. ECDSM on site; Area was marked out, contractor hit, contractor fixes, however, Casey (Zoladz) disagrees as the marking was not close and nothing is shown in this vicinity. Spoke with Maurice M and Gina, pipe needs to be fixed ASAP. I've requested Steve (ECDSM) & Casey (Zoladz) to figure out an acceptable fix; no way to stop flow - 6.0 xx Gal/ Day estimate

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup/ Lineman Truck		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS	1				Utility Truck					
IRONWORKERS					Mini Excavators		1			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Pumps		2			

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 17, 2019

Day of Week: S [X] T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Cloudy	
Temperature	54	° F	73	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, completed excavation and placement of 8" SDR sanitary pipe from MH-6 to MH-5. Pipe trench was dewatered with 4" pump; MH-6 utilized a 2" pump for dewatering; shield utilized for shoring; laser utilized for setting pipe at correct elevation. Backfill with clean stone, bedding to 1' above pipe.

2) Prime began prepping for MH-8 base pour (scheduled for tomorrow 6/18, morning). Existing VPP was cut and C900 pipe was utilized for connection to MH. Steve C (ECDSM) onsite and OK with the pipe used (C900).

3) Prime working on backfilling behind Rte 5 curb with clean fill.

4) Forwarded SWRT Material Test Results to DEC.

5) Sent Estimate 06 to Zoladz.

6) Sent response for high water back - denied.

7) Sent email to J. Cogswell regarding damaged sanitary sewer pipe.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

8) Met with:
Dave (ECDSM)
Matt & Steve
Darlene (ECDPW)
Jeff Lewell, Casey & Tom (Zoladz)

Discussed sewer line. Will try and slow flow tomorrow, measure out side pipe and see what type of fix will work. T&M sheets to be kept.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup/ Lineman Truck		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		2			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Pump		2			

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 18, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	60	° F	83	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, completed backfill around MH-5.

2) Prime prepping for MH-8 base. Set MH (dog house) on blocks, poured base (came up a little on the inside, will key in). 400 PSI concrete was utilized; no testing this date. Shield was used.

3) Prime excavated for signal pole foundation at the NE quad at Dona St and Rte 5. Existing sidewalk ramp was removed.

4) Received call and email from Steve C (ECDSM); will divert water at pump house, will text Jeff/ Casey/ Myself when reroute beginds. - DEC ok (no issues).

5) Prime (Casey) explored to get pipe size and type.

6) Gave Casey T&M sheets with instructions.

7) Prime installed 18" RC PB on NE quad at Dona St and Rte 5.

8) Sub contractor, Spoth, onsite working with Zoladz, setting forms and anchor bolts for NE quad (Dona St & Rte 5). Ground wire called for 10 LF of 2" galvanized pipe between signal pole and PB.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

9) Sub contractor, CVF removed slipform machine from jobsite.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup		1			
LABORER	4				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Utility Truck				1	
IRONWORKERS					Mini Excavators		2			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen			2		Pump		1			

OP 1: Zoladz	OP 2: CVF	OP 3: Spoth	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 19, 2019

Day of Week: S | M | T | [X] W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	59	° F	81	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, excavated for 8" sanitary pipe between MH-8 and MH-7. Trench box was utilized; laser utilized for setting pipe at correct elevation. Backfill with clean stone, bedding to 1' above pipe. During excavation substructure foundation was encountered and removed (30"x30"x14').

2) Prime placed binder asphalt at RR tracks.

3) Prime augured 18"diameter Pedestrian Pole foundation at the NW quad at Dona St and Rte 5. Concrete will be kept low (4") to accommodate new sidewalk placement.

4) Prime placed Class A concrete for Signal Pole at the NE quad of Dona St and Rte 5. All conduits/ ground wire and anchor bolts - ok. SJB onsite to perform testing of concrete.

5) Sub contractor, Spoth worked with Zoladz and assisted with concrete placement and ensured anchor bolts were kept aligned.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup/ Lineman Truck		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS					Utility Truck				1	
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen			2		Slurry Vac Trk.					

OP 1: Zoladz	OP 2:	OP 3: Spoth	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 20, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Rain		Cloudy	
Temperature	65	° F	69	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, onsite, however, due to rain, left for day.

2) No word on pipe fix; spoke with Gina (ECDPW) and gave update.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON					Pickup/ Lineman Truck					
LABORER					Skid Steer					
EQUIP. OPERATOR					Track Excavator					
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader					
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller					
Oper Apprentice					Bore machine					
Electricians-Linemen					Slurry Vac Trk.					

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 21, 2019

Day of Week: S [ ] M [ ] T [ ] W [ ] T [X] F [ ] S [ ]

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	62	° F	70	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz completed excavation of 8" sanitary sewer pipe from MH-8 to MH-7 and MH-7.

2) Prime graded along South Side of Dona St where sanitary pipe has been completed. Grading was performed with a dozer.

3) Prime, worked on the NE quad of Dona st and Rte 5. Removed existing sidewalk and excavated for Pedestrian Pole. I laid out sidewalk and curb removal; limits established location of NE quad Pedestrian Pole.

4) Prime excavated sidewalk at the SE quad of Dona St & Rte 5.

5) Prime excavated and backfilled signal conduits.

6) Sub contractor, Spoth installed new Controller foundations. Conduit was installed from Pedestrian Pole to new 24" PB. Conduit (2" steel) was placed from 18" PB to new Controller. (2) - 3" conduits were installed from PB to Controller. Removed existing 18" PB and connected 3" PVC to new 24" PB; Marking tape was placed in all conduit trenches ~1' +/- above conduit. This work was at the NE quad of Dona St & Rte 5.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ [ ] Engineer-in-Charge [ ] Resident Engineer Date Reviewed: _____

[ ] MURK 1-1 CONTINUATION attached for additional narrative. [ ] MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS					Utility Truck				2	
IRONWORKERS					Mini Excavators		2			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen			2		Dozer		1			

OP 1: Zoladz	OP 2:	OP 3: Spoth	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 23, 2019

Day of Week: [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature		° F		° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

No Contractor work

1) Sent out minutes from last meeting

2) Sent back response; no additional funds for extra bore.

3) Forwarded pipe fix material to ECDSM (Steve R).

4) Returned submittal for Asphalt & Controller Base.

5) Reviewed Estimate 06; Zima's payroll not included.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup/ Lineman Truck		1	1		
LABORER	2	2	2		Skid Steer		1			
EQUIP. OPERATOR	2		1		Track Excavator		1			
TRUCK DRIVERS					Utility Truck				1	
IRONWORKERS					Mini Excavators				1	
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels				2	
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine				1	
Electricians-Linemen					Slurry Vac Trk.				1	

OP 1: Zoladz	OP 2: CVF	OP 3: Zima	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 24, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	62	° F	86	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz began T&M work on damaged pipe. Busting encased concrete with chipper excavator; 1 - laborer / 1 - operator / 1 - compressor / 1 - mini excavator / small jack hammer
start: ~7:30 am
end:

2) Prime removed curb along the NE quad and sidewalk was removed at the SE quad of Dona St & Rte 5.

3) Prime placed demarcation material.

4) Prime fixing water boar at MH-6

5) Hydraulic plug at MH-8 is leaking.

6) Sub contractor, Spoth installed schedule 80 pipe for Power Pole and Meter. Wire was also pulled.

7) Sub contractor, Spoth installed Controller Base.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup/ Lineman Truck		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		1			
TRUCK DRIVERS					Utility Truck				1	
IRONWORKERS					Mini Excavators		2			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen			3		Slurry Vac Trk.					

OP 1: Zoladz	OP 2:	OP 3: Spoth	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 25, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	68	° F	72	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, worked on cleaning out MH's - dewatering and seal tight.

2) Prime, removing and grading South Side of Dona St; prepping for Demarcation material & top 1' cover.

3) Busting and removing concrete and material around 36" diameter sewer pipe (T&M).

4) Prime, surveyor onsite laying out curb grades and misc information.

5) I held progress meeting; major issues:
- Status of sanitary pipe. ECDSM reviewed comments, can not be met with
Sent email to ECDSM explaining why. Reached out to Ford Couplings to ensure proposed coupling will work with RCP.
- Discussed rejection of additional funds of high water and boring. ECDPW may consider 50% of (1) bore, but not as originally proposed. High water additional funds - no.

6) Prime ran a piglet through new sanitary lines; I did not witness - for Zoladz info only.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		1			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Dozer		1			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Compressor		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Pump					

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: **June 26, 2019**

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	69	° F	83	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz excavated previously placed 2" PVC lighting conduit between LP-5 & LP-6; when pushing feed line, encountered obstacle. Pipe was removed and replaced. Marking tape was replaced.

2) Prime graded SE & NE sidewalk area along Dona St.

3) Prime working on placing Hydraulic plug at MH-8. Inflow is present at C900 pipe entry.

4) Received T&M sheet for last 3 days regarding sanitary sewer pipe; I did not approve 8 hrs for Supervision (Casey) - other work was ongoing.

5) Reached out to ECDSM about forms waving requirement for deflection testing (no) and status of proposed coupling for 36" RCP repair - no response.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup/ Lineman Truck		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		2			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators		1			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Dozer		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Compressor		1			
Electricians-Linemen					Quarry Truck		1			

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 27, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	63	° F	81	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Air Test
MH-5 to MH-10 L = 69 LF
Started - 4/15/19
Completed - 4/15/19
(not into MH-10) - PASS

Deflection Test - PASS
MH-10 - 5/22/19

Air Test
MH-9 to MH-6 L = 72 LF
Started - 4/16/19
Completed - 4/17/19
-PASS

Deflection Test - PASS

2) Prime, Zoladz raise the electrical PB to grade at RR.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

3) Prime placed 6" of topsoil along North side of Dona St; North of sidewalk (STA 12+30 - STA 4+75)

4) Prime placed clean fill over demarcation fabric South side of Dona St (STA 4+75 - STA 12+30; RT side)

5) Provided various grades (sidewalk, ADA ramp configuration and curb island) at the NW quad of Rte 5.

6) Prime excavated for the curb island and sidewalk at the NW quad of Rte 5.

7) Prime installed hydraulic plug at MH-8.

8) Spoke with Ford Meter Box Engineering Rep - coupling is acceptable for project; sent email to all.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup/ Lineman Truck		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		1			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Dozer		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Slurry Vac Trk.					

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: June 28, 2019

Day of Week: S | M | T | W | T | [X] | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	67	° F	84	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz repaired damaged underdrain west of DS-8.

2) Prime place Class 'A' concrete at the NE quad Pedestrian Pole.

3) Prime poured concrete saddle for MH-5, MH-6 and MH-7.

4) Prime continued grading for curb along South side.

5) Prime continued grading clean fill along South side.

6) Received email for Seed - need final review; Verbal - OK

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup/ Lineman Truck		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators		1			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Slurry Vac Trk.					

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 01, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	61	° F	80	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime Zoladz resumed topsoil placement between curb and sidewalk at East end access.

2) Prime fine grading for curb placement East side.

3) Prime excavated utility trench; STA 14+32 - STA 14+17.9 (Even with MH-7).

4) Prime purged inside of DS-8, DS-9, DS-10 and DS-11.

5) Prime set sanitary MH rings, #7 Precast Rings = 2 ea.

6) Sub contractor, CVF on site placing grade pins and lines for curb placement; North and South sides and Rte 5 completion.

7) Forwarded Pay App 6/ LCPTracker up to date/ Zima listed as another company.

8) Received Zoladz work plan for sanitary sewer repair; need to review and forward to ECDSM.

9) Returned Submittal #58 & #59; (#58 - signs; incomplete)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

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MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup/ Lineman Truck		1	1		
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Dozer		1			
Electricians-Linemen					Slurry Vac Trk.					

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 02, 2019

Day of Week: S | M | X | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	70	° F	79	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz dry seeding between curb and sidewalk. Water trucking utilized for watering. Seed was approved.

2) Prime spreading topsoil between sidewalk and ROW, North side of Dona St.

3) Prime setup right lane closure for SB Rte 5. Signs and delineators were utilized.

4) SJB on site for nuclear density testing of subbase stone on Dona St.
1+20, 6' rt = 99.7 % / 1.2 % - moisture content
1+10, 8' lt = 96.7 / 1.5
0+85, 8' lt = 93.7
0+83, 10' lt = 96.8 / 2.3
0+83, 10' rt = 94.0
= 93.6
0+80, 15' rt = 97.9 / 1.9
0+74, 20' rt = 93.6 / 2.0
0+67, 22 rt = 91.6
0+67, 17' rt = 98.6 / 1.8

5) Prime spreading seed on topsoil between sidewalk and curb; utilized light truck (hydroseeding).

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

6) Sub contractor, CVF placed curb at various locations (see belkow). Slipform machine was utilized. SJB onsite for concrete testing. Construction joints were cut every 10'. Spray cure was applied.
STA 13+03 lt side - STA 14+00 lt side = 101.8 LF
Rte 5 - STA 42+00 - STA 43+01 = 102.0 LF
STA 12+665 rt side - STA14+44 rt side = 177.3
(NOTE: STA 14+44 - 14+57 = 13.8; had to removed for ADA ramp)

7) Received call and email from Tom Forbes spoil material in west designation area will need to be removed. Forwarded information to Gina (ECDPW) and R Hutteman (LiRo).

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1			Pickup/ Lineman Truck		1	1		
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	2	1			Track Excavator		1			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Mini Excavators					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS		2			Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine					
Electricians-Linemen					Slipform Machine			1		

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 03, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	70	° F	83	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz continued placement of topsoil along South side.

2) Prime continued grading sidewalk on North side.

3) Prime hydroseeded
STA 0+56, lt - RR
RR, lt - MH-9 (full width)

4) SJB performed nuclear density testing by Rte 5 - OK

5) Forwarded ECDSM comments to Zoladz.

6) Prepared meeting notes for next meeting (07/09/19 at 11am).

7) Sub contractor, CVF placed VF150 curb from STA 8+63 rt side to STA 12+65 rt side
FM length = 397.9 LF
SJB onsite for testing; 1 set of cylinders were taken.

8) Sub contractor, CVF worked on radius curb; SE at Welded Tube.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1			Pickup		1			
LABORER	2	3			Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS					Utility Truck			1		
IRONWORKERS					Hydroseeder		1			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS		2			Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Slipform Machine			1		
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 05, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	72	° F	91	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

NO CONTRACTOR WORK THIS DATE

1) Sent out Meeting Minutes 015

2) Worked on Mill & Fill grades at Welded Tube.

3) Received call from Gina (ECDPW) - Mayor Lancaster inquired if SE quad radius could be revised for truck traffic turning. I informed Gina that DI, conduits and sign pole foundations would all need to be relocated.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup/ Lineman Truck		1	1		
LABORER	2	2	2		Skid Steer		1			
EQUIP. OPERATOR	2		1		Track Excavator		1			
TRUCK DRIVERS					Utility Truck				1	
IRONWORKERS					Mini Excavators				1	
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels				2	
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Bore machine				1	
Electricians-Linemen					Slurry Vac Trk.				1	

OP 1: Zoladz	OP 2: CVF	OP 3: Zima	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 08, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	57	° F	78	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz continued grading topsoil on the South side of Dona St. Material was pulverized prior to placement and raked finished. Topsoil was also placed on the West side of the RR track.

2) Prime graded for the Curbed Island on the NW quad of Dona St and Rte 5.

3) Sub contractor, CVF onsite setting forms for the Curbed Island (NW quad) and Curbs on the NE quad.

4) Mailed Estimate 07 to Zoladz.

5) Mailed NCN for 680 Series.

6) Spoke about sewer work plan. Informed that payment would only be made one time.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS					Utility Truck			1		
IRONWORKERS					Hydroseeder					
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Slipform Machine					
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 09, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	60	° F	85	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz worked on grading the subbase for new roadway. Area at West end (low test area), subbase was reworked/ graded.

2) Prime continued to place topsoil; West end by SWTS.

3) Progress meeting this date. Discussed schedule, EEO info, sewer pipe repair, submittals.

4) Pre-Pave meeting this date. T VanSplunde (NYSDOT) in attendance.

5) Sent email to XXXXXXXX regarding turn at Dona St and Rte 5.

6) Sent email to welded tube regarding paving schedule.

7) Sent email to Kim Richardson (NYSDOT) regarding ADA Ramps at Rte 5

8) Spoke with Gina (ECDPW) and Maurice (NYSDEC) regarding sewer work plan.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Hydroseeder		1			
CARPENTERS					Excavator w/Hydraulic tamper					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Slipform Machine					
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 10, 2019

Day of Week: S | M | T | ~~W~~ | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	69	° F	90	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz continued fine grading subbase material; ~6" below curb at West end.

2) Prime continued fine grading RR to Rte 5 and at Rte 5.

3) Prime continued topsoil placement and misc clean of stone area.

4) Sub contractor, CVF placed Class 'D' concrete for sidewalk from STA 12+15 +/- to STA 14 +00 +/-. Curb were also poured, STA 0+00 - STA 0+80, RT, SE Radius and NE Radius. Spray cure was applied. SJB onsite for testing and cylinders were casted.

5) SJB performed nuclear density testing at West end (previously failed area). - PASSED

6) Spoke with Paul about PB in bus pad. Sent email to Scott (NYSDOT) and Gina (ECDPW)

7) Sent back sanitary sewer work plan for revision (delete/ edit - OT for payment).

8) Corresponded with Gina (ECDPW) regarding sewer MH partial payment for material. She stated to stay with Inter Spec. No payment until it's been tested.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1			Pickup		1	1		
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS					Utility Truck			1		
IRONWORKERS					Hydroseeder					
CARPENTERS					Grader		1			
MASONS		2			Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Slipform Machine					
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 11, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	72	° F	89	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Jeff Bush (LiRo) covered

1) Prime, Zoladz continued fine grading of subbase material.

2) Prime continued grading for sidewalk and ADA ramps at the NE and SE quads of Dona St and Rte 5.

3) Received call regarding 4" or 6" sidewalk depth - 4" to be placed due to quantity cost.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS					Utility Truck			1		
IRONWORKERS					Hydroseeder					
CARPENTERS					Grader					
MASONS					Loader		1			
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller		1			
Oper Apprentice	1				Slipform Machine					
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 12, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	64	° F	75	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Mark DiPasquale (LiRo) covered

1) Prime, Zoladz continued fine grading of subbase material.

2) Prime began prepping for the asphalt trail connection; 2-1/2" binder, 1-1/2" top.

3) Prime continued to place topsoil behind curb, West end.

4) Discussed with Paul and Casey
- hold off working at Bus pad; awaiting verification of PB location;
- area between curb and pavement at the SE & NE quads of Dona & Rte 5; looking at concrete to top of binder;
- concrete placement scheduled for Monday;
- grade issue at West end resolved; old data programmed in GPS file;
- MH-7 rim elevation - 1' +/- above curb (2' - 5' away, will adjust rim elevation 2" - 3" above curb grade).

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON					Pickup					
LABORER					Skid Steer					
EQUIP. OPERATOR					Track Excavator					
TRUCK DRIVERS					Utility Truck					
IRONWORKERS					Hydroseeder					
CARPENTERS					Grader					
MASONS					Loader					
OWN./OPERATORS					Trailer with 3" HDPE reels					
Surveyor					Vibratory Roller					
Oper Apprentice					Slipform Machine					
Electricians-Linemen					Dozer					

OP 1:	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mark C. DiPasquale, P.E.

Date: **July 12, 2019**

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	67	° F	75	° F

CONTRACTOR WORK HOURS: 0730 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz, fine grading of roadway, finish forming of sidewalk at intersection corners and placing subbase for asphalt trail. Surveyor on site to check grades of sanitary manholes.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: 7/25/19

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Kobelco SK330 Excavator					
LABORER	3				Komatsu PC88 MR Excavator					
EQUIP. OPERATOR	2				WA250 Loader					
TRUCK DRIVERS					35N Blue/Green Miniexcavator					
IRONWORKERS					Doosan DX225LC Exacavator					
CARPENTERS					Equipment/Material Truck		2			
MASONS					Goodwin Pumps					
OWN./OPERATORS					Mini-Roller					
Surveyor	1									
Oper Apprentice	1									
Electricians										

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 15, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Cloudy	
Temperature	62	° F	80	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz set MH #7 frame and grate.

2) Prime graded misc areas in front of concrete work performed by Sub contractor, CVF.

3) Prime moved Bus Pad 8' North; PB out of concrete area.

4) Prime closed the EB lane of Rte 5 at 9am. Signage and barricades were utilized.

5) Surveyor & Myself checked subbase grades; E side RR - STA 14+35.

6) Discussed layout of rebates at West End.

7) Shot Rim and Invert elevations at MH #10 & MH #5 - does not match design elevations

8) Measured gaps in curbs @ DS-5 & DS-6; no gap - curb will be removed.

9) Gina (ECDPW) called - send sanitary sewer work plan to ECDSM. Forwarded Sewer Repair Plan to Matt Salah

10) Sub contractor, CVF placed Class 'D' concrete at NW/ NE/ SE quad at Dona St and Rte 5

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

(sidewalk and ramp) and Bus Pad.
SJB was on site for concrete testing.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1			Pickup		1	1		
LABORER	2	2			Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS					Utility Truck			1		
IRONWORKERS					Hydroseeder					
CARPENTERS					Grader		1			
MASONS		2			Loader		1			
OWN./OPERATORS					6 Wheel Dump Truck		1			
Surveyor	1				Vibratory Roller		2			
Oper Apprentice	1				Slipform Machine					
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2: CVF	OP 3:	OP 4:

LiRo Engineers, Inc.
A LiRo Group Company

JOB _____

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE 07/15/19

CHECKED BY _____ DATE _____

SCALE _____

SUBBASE GRADE CHECKS

2+00	RT	0.57'	(0.00)	10+00	LT	0.59'	
	CL	0.57'	(0.58)		CL	0.59'	
	LT	0.55'	(-0.02)		RT1	0.60'	
				CURB	RT2	0.59'	
3+00	RT	0.60'	(-0.03)				
	CL	0.59'	(0.01)	11+00	LT	0.61'	
	LT	0.60'	(-0.03)		CL	0.57'	
					RT1	0.57'	
4+00	RT	0.60'			RT2	0.59'	
	CL	0.57'					
	LT	0.60'		12+00	LT	0.60'	
					CL	0.60'	
5+00	RT	0.59'			RT1	0.60'	
	CL	0.60'			RT2	0.59'	
	LT	0.59'					
				13+00	LT	0.60'	
6+00	RT	0.61'			CL	0.57'	
	CL	0.57'			RT1	0.58'	
	LT	0.61'			RT2	0.60'	
6+50	RT	0.59'		14+00	LT	0.58'	
	CL	0.58'			CL	0.57'	
	LT	0.58'			RT1	0.57	
					RT2	0.56'	
7+00	RT	0.59'					
	CL	0.60'		14+35	LT	0.60'	
	LT	0.60'			CL	0.60'	
					RT1		
8+60	RT	0.60'			RT2	0.58'	
	CL	0.60'					
	LT	0.60'					
9+00	RT	0.59'					
	CL	0.61'					
	LT	0.60'					

LiRo Engineers, Inc.
A LiRo Group Company

JOB DONA STREEET - FIELD MEASUREMENTS

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE 07/15/19

CHECKED BY _____ DATE _____

SCALE _____

CURB GAPS (TO BE PLACED) - F.M.

DS-19 (RT)	10.2'
DS-18 (LT)	10.7'
DS-1 (LT)	9.8'
DS-2 (RT)	10.0'
DS-3 (LT)	9.9'
DS-4 (RT)	9.9'
DS-5 (LT)	
DS-6 (RT)	

RIM ELEVATIONS

MH #10	585.14
MH #5	584.28
MH #6	583.29
MH #9	583.73

CURB MEASUREMENTS - F.M.

WEST END	= 35.3 LF
NW ISLAND	= 42.0 LF
SE QUAD @ RTE 5	= 46.0 LF
NE QUAD @ RTE 5	= 34.5 LF

SIDEWALK MEASUREMENT - F.M.

STA 12+15 (LT) - 13+05 (LT) = 90.7 LF
DONA ST (E SIDE) RR - STA 13+05 = 1205.9 LF
DONA ST (W SIDE) RR - BEGIN = 128.9 LF

LiRo Engineers, Inc.
A LiRo Group Company

JOB _____

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE 07/15/19

CHECKED BY _____ DATE _____

SCALE _____

SANITARY MH GRADES

MH #10	9+09 LT
RIM	585.14
S. INV	576.61
MH #5	9+09 RT
RIM	584.28
N. INV	576.13
E. INV	575.50
MH #9	12+03 LT
RIM	583.73
S. INV	
MH #6	12+03 RT
RIM	583.29
N. INV	
E. INV	
W. INV	

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 16, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	74	° F	84	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz completed fine grading and compaction of subbase material in Rte 5 area.

2) Prime working on grading for topsoil and placement at the SE & NE quads of Dona St and Rte 5.

3) Prime adjusted the PB @ SE quad (extra).

4) Prime placed Asphalt Base Course on Rte 5.

5) Prime placed joint adhesive on curb face, DI's. Rte 5 and between RF & Rt turn lane on Dona. Note: Misdirection of joint adhesive placement - for TOP COURSE ONLY, however, payment will be made on adhesive placed this date, as per EIC direction.

6) Southbound, RT lane, Rte 5 closed 8am - 2:30pm. Signage and barricades were utilized.

7) 4-1/2 LP West of OB Deck, concrete high, interface needs to be filled in.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	2				Pickup		1			
LABORER	5				Skid Steer					
EQUIP. OPERATOR	4				Mini Excavator		2			
TRUCK DRIVERS					Paver		1			
IRONWORKERS					Track Excavator		1			
CARPENTERS										
MASONS					Loader					
OWN./OPERATORS					Tar Pot		1			
Surveyor					Roller		3			
Oper Apprentice					Plate Tamper		1			
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 17, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Rain		Cloudy	
Temperature	74	° F	84	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

NO WORK THIS DATE - DUE TO RAINY WEATHER

1) Spoke with Mark (Zoladz) about Tack Coat; They will have a small sprayer tomorrow.

2) Meeting onsite tomorrow with ECDPW and ECDSM to discuss pipe requirements for Zoladz to maintain system.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON					Pickup					
LABORER					Skid Steer					
EQUIP. OPERATOR					Mini Excavator					
TRUCK DRIVERS					Paver					
IRONWORKERS					Hydroseeder					
CARPENTERS					Grader					
MASONS					Loader					
OWN./OPERATORS					Tar Pot					
Surveyor					Vibratory Roller					
Oper Apprentice					Plate Tamper					
Electricians-Linemen					Dozer					

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 18, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	74	° F	84	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz applied joint adhesive to RR base and Welded Tube - full depth at butt joint.

2) Prime adjusted loop PB at the NW quad.

3) Prime filled in NW Curb Island; demarcation material placed, clean fill and 6" subbase material. (4" concrete sidewalk to be placed).

4) Prime placed Asphalt Base Course, left lane of Dona St (STA 14+73 to RR STA 1+79, LT); waste about 2 tons.

5) Prime cut curb at DS-5 & DS-6.

6) Prime removed curb at ADA Ramp that was previously placed wrong.

7) Sub contractor, Spoth placed seal tights in PB at NW quad at Dona St & Rte 5.

8) Sub contractor placed liquid tight at the NW and SW quads
NW - 4 @ 4.5' = 18.0 LF
SW - 4 @ 4.5' = 18.0 LF

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

9) Met with DSM/ ECDPW & Zoladz - cut top of pipe; get true OD; DSM to reduce flow.

10) Gina (ECDPW), Zoladz and myself went over area where material from Tecumseh is to be moved and parameters. Level with road. Check to see what's required for original material. This will not be T&M.

11) Prime placed Asphalt Binder Course; STA 14+73 - 2+11 RT.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	2				Pickup		1	1		
LABORER	5				Skid Steer					
EQUIP. OPERATOR	4				Mini Excavator		2			
TRUCK DRIVERS					Paver		1			
IRONWORKERS					Track Excavator		1			
CARPENTERS					5 Ton Dump Truck		1			
MASONS					Loader					
OWN./OPERATORS					Tar Pot		1			
Surveyor					Roller		3			
Oper Apprentice					Plate Tamper		1			
Electricians-Linemen		2			Dozer		1			

OP 1: Zoladz	OP 2: Spoth	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 19, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	80	° F	82	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz continued Asphalt Binder Course placement, did not T&L over existing at Welded Tube. No compressor to clean surface prior to tack coat. (0.03 tack coat applied; over base & curb face).

2) SJB onsite to perform nuclear density testing - PASSED

3) Prime spread topsoil between sidewalk and curb on Dona St (new).

4) Prime worked on spreading topsoil over utility trench. Prime was told to stop work and clean up concrete and debris and unsafe material removed and topsoil cleaned. Prime to ensure operator does not dig up material below topsoil.

5) Discussed MP&T next week; Spoth to cut loops and CIP liner tentatively for Wednesday.

6) Notified Prime and Supplier - Sign Submittal - OK

7) Received T&M sheet for Zoladz (Casey) - cutting the top of 30" RCP to obtain accurate OD (as per agreement with ECDSM).

8) Prime to mill and replace Butt Joint at Welded Tube. T&L over existing asphalt @ Welded Tube

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

9) Prime placed Roadway Binder for Trail/ Path Connection @ NW Island.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	2				Pickup		1			
LABORER	4				Skid Steer		1			
EQUIP. OPERATOR	5				Mini Excavator		1			
TRUCK DRIVERS					Paver		1			
IRONWORKERS					Track Excavator					
CARPENTERS					6 Wheel Dump Truck		1			
MASONS					Loader					
OWN./OPERATORS					Tack Truck		1			
Surveyor					Roller - (2) 20T/ (1) 5T		3			
Oper Apprentice					Plate Tamper		1			
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 22, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Rain		Cloudy	
Temperature	66	° F	82	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz sawcut and excavated for DS F&G with curb box at the following locations: DS-19, DS-18, DS-1, DS-2, DS-3, DS-4, DS-5 & DS-6.

2) Prime began setting frame and grate at DS-19.

3) Prime worked on dozer.

4) Sent over agenda.

5) Reviewed Signs - OK

6) Sent recommendation for extension. Received email; extension OK'd to 08/31/19.

7) Sent back Estimate #07 to Zoladz for corrections.

8) LCPTracker updated.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer					
EQUIP. OPERATOR	3				Mini Excavator		1			
TRUCK DRIVERS					Paver					
IRONWORKERS					Track Excavator					
CARPENTERS					6 Wheel Dump Truck		1			
MASONS					Loader					
OWN./OPERATORS					Tangent Saw		1			
Surveyor					Roller - (2) 20T/ (1) 5T					
Oper Apprentice					Plate Tamper					
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 23, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	69	° F	79	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz continued setting DS frame & grates; DS-18, DS-19, DS-1, DS-2, DS-3, DS-4.

2) Prime grading area behind curb at Rte 5, Right lane.

3) Prime continued to clean topsoil free from concrete, wood & debris.

4) Prime grading from front spoil area; removing large chunks.

5) Sent back submittals:
58 - Signs
60 - Signals
59 - Tack Coat

6) Sent email identifying remaining items in need of submittals.

7) Received email: CO #2 approved.

8) Sub contractor cut loops in pavement on Dona St; no wire placed this date.

over -->

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

11A 10A Front 2-4-2
11B 10B Back 4x20; 3 turns

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Mini Excavator		1			
TRUCK DRIVERS					Utility Truck			2		
IRONWORKERS					Saw			1		
CARPENTERS					6 Wheel Dump Truck					
MASONS					Loader					
OWN./OPERATORS					Tangent Saw					
Surveyor					Roller - (2) 20T/ (1) 5T					
Oper Apprentice	1				Plate Tamper					
Electricians-Linemen		3			Dozer		1			

OP 1: Zoladz	OP 2: Spoth	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 24, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of ____ DWR No. ____

	AM		PM	
Weather	Clear		Clear	
Temperature	64	° F	80	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz continued cleaning and grading, Staged Material; East Area. Large concrete and misc debris from the material was removed.

2) Prime setup lane closure on Rte 5, Left and Center Lanes were closed with Attenuator Truck, as per specifications. 8am - 3pm

3) Prime tested sanitary MH's
MH-5 105'
MH-6 117.5'

Deflection Test
MH-5 to MH-6 - OK
MH-6 to MH-7 - OK
MH-7 to MH-8 - OK

Air Test
MH-5 to MH-6 - Start 4.0 / End 4.0
MH-6 to MH-7

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

Exfiltration/ Infiltration

MH-5

INV to RIM 105" - 8" = 97"
RIM to Top of Pipe = 97"
RIM to Top Stand Pipe = 47.5"
Top of Pipe to Top of Stand Pipe = 144.5"
Top of Stand Pipe to Water = 130.5"
Height of Water above Pipe = 14"
< 2.0'

MH-6

INV to RIM = 117.5"
Less 8" Pipe = 109.5"
RIM to Top Stand Pipe = 22"
Total = 131.5"
Top of Stand Pipe to Water = 94"
Height of Water above Pipe = 37.5"
> 2.0'

MH-10

RIM to INV = 106.0" - 6" (sump) = 100"
Less 8" Pipe = 92"
RIM to Top Stand Pipe = 45.5"
Total = 137.5"
Top of Stand Pipe to Water = 139.5"
Height of Water below Pipe = -2"

MH-9

INV to RIM = 122.5" - 10-1/2" (sump) = 100"
Less 8" Pipe = 104.0"
RIM to Top Stand Pipe = 50.75"
Total = 154.75"
Top of Stand Pipe to Water = 124"
Height of Water above Pipe = 30.75"
> 2.0'

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1		1		Pickup		1			
LABORER	2		2		Skid Steer		1			
EQUIP. OPERATOR	3		1		Mini Excavator		1			
TRUCK DRIVERS					Compressor			1		
IRONWORKERS					Track Excavator		1			
CARPENTERS					Utility Truck			1	3	
MASONS					Loader					
OWN./OPERATORS					Attenuator		3			
Surveyor					Panel Truck			1		
Oper Apprentice	1				Plate Tamper					
Electricians-Linemen		3			Dozer		1			

OP 1: Zoladz	OP 2: Spoth	OP 3: Skanex	OP 4:

MURK 1 - 1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 24, 2019

Day of Week: S | M | T | ~~W~~ | T | F | S

Sheet No. 2 of ____ DWR No. _____

	AM		PM	
Weather				
Temperature				

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Exfiltration/ Infiltration (CONTINUED)

MH-7

INV to RIM = 89"

Less 8" Pipe = 81"

RIM to Top Stand Pipe = -3"

Total = 78"

Top of Stand Pipe to Water = 55"

Height of Water above Pipe = 23"

< 2.0'

4) Reviewed CIP Submittal - on DOT approved list - OK

5) Prime Hydroseeded project.

6) Maurice (NYSDEC) onsite; silt sock is required (currently not) at Relocation Area & Staged Material Area.

7) Sub contractor, Spoth continued cutting and installing traffic loops wire
11A - 10A / 11B - 10B, Dona St; West Side
NOTE: Loop Sealer - Approved
Wire - Approved

8) Sub contractor, Spoth pulled wire from LP1 to PB West of RR.
Wire LP1 to Meter = 19LF (12+7)
Wire Meter to Connect = 35.5LF (2+30+3.5).

9) Sub contractor, Skanex onsite, flushed 8" VTF pipe/ video'd/ placed CIP Liner.
MH-8A - MH-8 - MH-8B (Rte 5); could not access ~120' through MH-8

Inspector's Initials: _____

MURK 1-1
(06/08)

DAILY WORK REPORT - DESCRIPTION CONTINUATION

Inspector's Initials: _____

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 25, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	63	° F	86	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz performed Air Test (8" SDR Pipe)
MH-7 to MH-8
Start @ 10:47; 4.0 PSI
End @ 10:51; 4.0 PSI
Timer 4:00:15

2) Prime continued cleaning and grading, Spoil Area 1. Large concrete and misc debris from the material was removed.

3) Prime setup lane closure on Rte 5; Southbound, Left and Center Lanes were closed. Closed at 8:15am; NOTE: Closure not removed by 3 pm - Called Grenclan Simon (NYSDOT).

4) Prime continued to set frames and grates.

5) Casey and myself checked grades; adjustments to be made.

6) Sub contractor, Spoth continued to cut traffic loops in the Southbound, center/left and right lanes of Rte 5.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Mini Excavator					
TRUCK DRIVERS					Compressor			1		
IRONWORKERS					Track Excavator		1			
CARPENTERS					Utility Truck			1		
MASONS					Loader					
OWN./OPERATORS					Pavement Saw			1		
Surveyor					Panel Van			1		
Oper Apprentice	1				Plate Tamper					
Electricians-Linemen		3			Dozer		1			

OP 1: Zoladz	OP 2: Spoth	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 26, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	67	° F	87	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz setup work zone; Rte 5, Eastbound.

2) Prime continued setting frames and grates.

3) Prime continued to move material - T&M work

4) Sub contractor, Spoth continued to cut traffic loops; Rte 5; Eastbound.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Mini Excavator					
TRUCK DRIVERS					Compressor			1		
IRONWORKERS					Track Excavator		1			
CARPENTERS					Utility Truck			1		
MASONS					Loader					
OWN./OPERATORS					Pavement Saw			1		
Surveyor					Panel Truck			1		
Oper Apprentice	1				Plate Tamper					
Electricians-Linemen		3			Dozer		1			

OP 1: Zoladz	OP 2: Spoth	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 29, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	67	° F	87	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz placed Class 'A' concrete curb for drainage structures; DS-18, DS-19, DS-1, DS-2, DS-3, DS-4, DS-5, DS-6.

2) Prime moved transfer material from West area to East area; T&M work.

3) Prime graded topsoil.

4) Prime setup lane closure; Eastbound Rte 5 at 9 am.

5) Sub contractor, Spoth continued to cut and install traffic loops; Eastbound Rte 5.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	7				Skid Steer		1			
EQUIP. OPERATOR	3				Mini Excavator					
TRUCK DRIVERS					Compressor			1		
IRONWORKERS					Track Excavator		1			
CARPENTERS					Utility Truck			1		
MASONS					Quarry Truck		1			
OWN./OPERATORS					Pavement Saw			1		
Surveyor					Panel Truck			1		
Oper Apprentice	1				Plate Tamper					
Electricians-Linemen		3			Dozer		1			

OP 1: Zoladz	OP 2: Spoth	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 30, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Rain		Cloudy	
Temperature	67	° F	78	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz stripped curb forms at DS locations.

2) Prime filled MH-10 & MH-5 with water, for exfiltration testing.
MH-5 - 6" from RIM (7/30/19) / 0.53' (7/31/19) = Drop -0.03'
MH-10 - 15-3/4" from RIM (7/30/19) / 1.34' (7/31/19) = Drop -0.03'

3) Prime worked on moving spoil material from West location to expanded East location - T&M work; 3-operators/ 1-dozer/ 1-excavator/ 1-UKE

4) Sub contractor, Spoth installed LED Light & Pole, LP1 to LP2. System currently not energized; not definitive as to when Sub will connect wires.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Mini Excavator					
TRUCK DRIVERS					Aerial Lift			1		
IRONWORKERS					Track Excavator		1			
CARPENTERS					Utility Truck		1	1		
MASONS					Quarry Truck					
OWN./OPERATORS					Water Truck		1			
Surveyor					Panel Truck					
Oper Apprentice	1				Plate Tamper					
Electricians-Linemen		3			Dozer		1			

OP 1: Zoladz	OP 2: Spoth	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: July 31, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of ____ DWR No. ____

	AM		PM	
Weather	Cloudy		Cloudy	
Temperature	68	° F	85	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz worked on T&L of low spots on Dona St & existing pavement at Welded Tube. At Welded Tube prime removed damaged edge and filled in with Binder. Milled existing pavement.

2) Prime, continued to move from West Location - Spoil Material, to expanded East Location; T&M work.

3) Exfiltration measurements taken (see DWR dated July 30, 2019)
MH-5 = 0.53'
MH-10 = 1.34'

Note: prepped for exfiltration test of MH-7. Prime performed testing;
initial from RIM = 0.58'
final from RIM = 0.69' Drop = 0.11'

4) Sub contractor, Spoth cut top of wooden meter pole off. Wire was pulled for lighting standards.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Mill Machine/ Paver		1/1			
TRUCK DRIVERS					Aerial Lift			1		
IRONWORKERS					Track Excavator		1			
CARPENTERS					Utility Truck			1		
MASONS					Quarry Truck		1			
OWN./OPERATORS					Mini Excavator		1			
Surveyor					Compressor		1			
Oper Apprentice	1				Roller		1			
Electricians-Linemen		2			Dozer		1			

OP 1: Zoladz	OP 2: Spoth	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 01, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of ____ DWR No. ____

	AM		PM	
Weather	Clear		Cloudy	
Temperature	70	° F	83	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz worked on correcting leak at MH-8.

2) Prime placed asphalt at trail (to Welded Tube), mow strip, T&L low areas and T&L at Welded tube. Rebates were milled. Transitions were placed at Rte 5. Mow strip was excavated 8" depth with 4" subbase stone material, compacted, then 4" of asphalt. See sheet 2

3) Prime, continued to move material from West Location - Spoil Material, to expanded East Location; T&M work.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-In-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	4				Skid Steer		1			
EQUIP. OPERATOR	5				Trailer		1			
TRUCK DRIVERS	1				Aerial Lift					
IRONWORKERS					Track Excavator					
CARPENTERS					Utility Truck		1			
MASONS					Quarry Truck					
OWN./OPERATORS					Mini Excavator		1			
Surveyor					Roller		1			
Oper Apprentice	1				Loader		1			
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 02, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Clear	
Temperature	64	° F	84	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz continued removal of staged material from West location to East Extension - T&M work.

2) Prime paved asphalt top course - RR to Welded Tube entrance. Tack coat was utilized and placed prior to asphalt placement.

3) Prime applied asphalt sealer at curb and rebates.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	3				Skid Steer		1			
EQUIP. OPERATOR	4				Track Excavator		1			
TRUCK DRIVERS					Paver					
IRONWORKERS					Track Excavator					
CARPENTERS					Utility Truck		1			
MASONS					Quarry Truck					
OWN./OPERATORS					Mini Excavator		1			
Surveyor					Roller 1-5T/ 1-12T		2			
Oper Apprentice	1				Loader		1			
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 05, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	55	° F	85	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz worked on removing debris from Spoiled Material, DEC II-9.

2) Confirmed with ECDSM sewer repair schedule for tomorrow; Received confirmation By-Pass will start at 6 am.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON					Pickup					
LABORER					Skid Steer					
EQUIP. OPERATOR	1				Track Excavator		1			
TRUCK DRIVERS					Paver					
IRONWORKERS					Track Excavator					
CARPENTERS					Utility Truck					
MASONS					Quarry Truck					
OWN./OPERATORS					Mini Excavator					
Surveyor					Roller 1-5T/ 1-12T					
Oper Apprentice					Loader					
Electricians-Linemen					Dozer					

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 06, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Cloudy	
Temperature	72	° F	91	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz continued moving and spreading Spoil Material from DEC II-9 to II-8. Oversized debris was picked out and place aside for future removal and disposal.

2) Prime worked on Sanitary Sewer Out Flow Pipe at SW Quad of Dona St and Rte 5. Flow was redirected by ECDSM at 6am. Removal of existing pipe was ongoing; all edges were cleaned and abraded, as necessary. Restraint straps were utilized on the new RCP installed. Seals and couplings were installed. Water flow was then released; inspected for leakage - OK. Concrete was placed around pipe.

3) Sub contractor, ECDSM onsite to redirect water flow; 6am. Video was also taken of existing pipe down stream; some debris present.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	3				Track Excavator		1			
TRUCK DRIVERS					Paver					
IRONWORKERS					Track Excavator					
CARPENTERS					Utility Truck		1			
MASONS					Video Truck					
OWN./OPERATORS					Mini Excavator		1			
Surveyor					Roller 1-5T/ 1-12T		2			
Oper Apprentice	1				Loader		1			
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2: ECDSM	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 07, 2019

Day of Week: S | M | T | ~~W~~ | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Rain	
Temperature	70	° F	83	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz worked on reshaping Spoil Material DEC II-9 - this work incomplete at end of shift.

2) Prime worked on grading Spoil Material DEC II-8. I told Casey they needed to install swale.

3) Prime paved stand pipe MH-5, MH-6 and MH-7.

4) Prime installed underdrain from DS-8 to concrete encasement - 18LF

5) Prime set MH Pullbox (18") for conduit crossing at the SW quad of Rte 5.

6) Prime performed misc cleanup.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS					Paver					
IRONWORKERS					Track Excavator					
CARPENTERS					Utility Truck		1			
MASONS					Video Truck					
OWN./OPERATORS					Mini Excavator		1			
Surveyor					Roller 1-5T/ 1-12T		2			
Oper Apprentice	1				Loader		1			
Electricians-Linemen					Dozer		1			

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 08, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Rain	
Temperature	70	° F	77	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz graded sidewalk area at the SW quad. Excess material was removed from area.

2) Prime worked on shaping the Spoil Material at DEC II-8.

3) Discussed sidewalk and Ped Pole locations. Sidewalk keep location; Ped Pole location, due to 16" gas line, will be set as close, to design, as field conditions permits.

4) Prime assisted Sub contractor (Spoth) to install conduit at the SW Quad.

5) Sub contractor, Spoth onsite to install signal conduit at the SW Quad of Dona St & Rte 5.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	1				Skid Steer		1			
EQUIP. OPERATOR	2				Track Excavator		1			
TRUCK DRIVERS					Paver					
IRONWORKERS					Track Excavator					
CARPENTERS					Utility Truck		1	1		
MASONS					Video Truck					
OWN./OPERATORS					Mini Excavator		1			
Surveyor					Roller 1-5T/ 1-12T		2			
Oper Apprentice	1				Loader		1			
Electricians-Linemen		2			Dozer		1			

OP 1: Zoladz	OP 2: Spoth	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 09, 2019

Day of Week: S | M | T | W | T | [X] | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	63	° F	76	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz continued grading for sidewalk and curb placement at the SW quad of Dona St & Rte 5.

2) Prime setup curb forms.

3) Prime placed topsoil and reseeded area behind drainage structures.

4) Prime leveled Spoil Material DEC II-9. Prior material located; left in-place and smoothed over on top.

5) Prime continued grading and shaping area DEC II-8.

6) Discussed;
- Sidewalk Pours
- Curb Pour and Ped Pole - SW Quad

Worked scheduled for Monday (08/12/19).

7) Jeff Bush (LiRo) will be covering operations on Dona St: 08/12/19 - 08/23/19

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1				Pickup		1			
LABORER	2				Skid Steer		1			
EQUIP. OPERATOR	1				Track Excavator		1			
TRUCK DRIVERS					Paver					
IRONWORKERS					Track Excavator					
CARPENTERS					Utility Truck		1			
MASONS					Video Truck					
OWN./OPERATORS					Mini Excavator		1			
Surveyor					Roller 1-5T/ 1-12T		2			
Oper Apprentice					Loader		1			
Electricians-Linemen	1				Dozer		1			

OP 1: Zoladz	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 26, 2019

Day of Week: S [X] M T W T F S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	60	° F	81	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) I spoke with Dave (Zoladz); topsoil finish grade at the SW Quad - Design is too high; will adjust. Holding off on topsoil finish @ SW Quad; removal of existing foundation is incomplete.

2) Prime, Zoladz worked on West end of Dona St; topsoil cleanup.

3) Verified that Dona St; East side of Rte 5 will not have ladder cross walks.

4) Verifying location of single bollard.

5) Verified no "J" hooks were installed in the Pull Box.

6) Sub contractor, Accent Stripe, onsite to place striping on
Dona St Extension:
- ladder cross walk
- 18" stop bar
- rt/turn arrow
lt/ straight arrow
Rte 5 (North Lanes):
- rt turn/ merge (in turn lane) (3 ea)
- lt turn arrow (2 ea)

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

- stop bar
- ladder cross walk

Rte 5 (South Lanes):

- lt turn arrow (2 ea)
- stop bar
- ladder crosswalk

NOTE: Grind off existing crosswalks, arrows, centerlines & stop bars, as necessary.

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1			Front End Loader		1			
LABORER	1	5			Attenuator Truck			2		
EQUIP. OPERATOR	1				Panel Truck			1		
TRUCK DRIVERS					M&PT Truck			1		
IRONWORKERS					6 Wheel Dump w/ Trailer			1		
CARPENTERS					Trailer			1		
MASONS					Paint Truck			1		
OWN./OPERATORS					Portable Painter			1		

OP 1: Zoladz	OP 2: Accent Stripe	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 27, 2019

Day of Week: S | M | [X] | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Cloudy		Rain	
Temperature	69	° F	76	° F

CONTRACTOR WORK HOURS: 0700 TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz installed concrete barrier across throat of Dona St Extension at Rte 5. (5) - 20' sections = 100 LF

2) Prime removed 'Sidewalk Closed' sign @ Ridge Rd. This sign was placed at NW Quad sidewalk (going down Dona St Extension).

3) Prime placed Type III Barricades at West End of Rte 5; This was place in supplement to the cones.

4) Sub contractor, Accent Stripe, placed double yellow center lines on Dona St Extension. Also, double yellow stripe lines on Rte 5, South leg for turning lane. NOTE: Grind off existing crosswalks, arrows, centerlines & stop bars, as necessary.

5) Sub contractor, Spoth worked on splicing light standards.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON	1	1			Front End Loader		1			
LABORER	1	3			Attenuator Truck			2		
EQUIP. OPERATOR	1	1			Panel Truck			1		
TRUCK DRIVERS					M&PT Truck			1		
IRONWORKERS					6 Wheel Dump w/ Trailer			1		
CARPENTERS					Trailer			1		
MASONS					Paint Truck			1		
OWN./OPERATORS					Portable Painter			1		
					Utility Truck				1	
Electrician/ Lineman			1							

OP 1: Zoladz	OP 2: Accent Stripe	OP 3: Spoth	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 28, 2019

Day of Week: S | M | T | W | T | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Rain		Rain	
Temperature		° F		° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz no work this date due to weather.

2) I sent out Agenda for Thursday's (08/29/19) Signal and Progress Meeting.

3) I sent out meeting minutes from Progress Meeting #18.

4) I sent Revised Pay App with partial payment for the Light Pole and LED Luminaries.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON					Front End Loader					
LABORER					Attenuator Truck					
EQUIP. OPERATOR					Panel Truck					
TRUCK DRIVERS					M&PT Truck					
IRONWORKERS					6 Wheel Dump w/ Trailer					
CARPENTERS					Trailer					
MASONS					Paint Truck					
OWN./OPERATORS					Portable Painter					
					Utility Truck					
Electrician/ Lineman										

OP 1:	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 29, 2019

Day of Week: S | M | T | W | [X] | F | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Clear	
Temperature	65	° F	79	° F

CONTRACTOR WORK HOURS: _____ TO _____

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz no work this date.

2) Pre-signal/ Progress Meeting took place this date:
- Discussed status and schedule for Dona St Project;
- Signal Poles scheduled for next week;
- Spoth to be onsite tomorrow (08/30/19) to pull wires and misc work.

ISSUES: Sent email to Barrett (NYSDOT) & Roche (NYSDOT) regarding:
- Signal Activation Protocol;
- NYSDOT Inspection;
- How to handle street signs;
- Mast Arms on Dona St (East) and TBD (West).

I received email from Barrett; he will look into and get back to me.

Continued to discuss (Meeting):
- Loop Detections on Dona St; with COL moving stop bar back from intersection. I will discuss with Spoth and get options to include loop for stop bar. I will contact Tony D. (COL) to see if any provisions to be made when stop bar was moved.

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON					Front End Loader					
LABORER					Attenuator Truck					
EQUIP. OPERATOR					Panel Truck					
TRUCK DRIVERS					M&PT Truck					
IRONWORKERS					6 Wheel Dump w/ Trailer					
CARPENTERS					Trailer					
MASONS					Paint Truck					
OWN./OPERATORS					Portable Painter					
					Utility Truck					
Electrician/ Lineman										

OP 1:	OP 2:	OP 3:	OP 4:

MURK 1
(06/08)

DAILY WORK REPORT

JOB STAMP
Erie County Department of Public Works
Dona Street Extension
From Route 5 to Tecumseh Highway #7
Project No. DEP-DONA-18
Contractor: Zoladz Construction
RE: Mike Lydle, P.E.

Date: August 30, 2019

Day of Week: S | M | T | W | T | X | S

Sheet No. 1 of 1 DWR No. _____

	AM		PM	
Weather	Clear		Cloudy	
Temperature	68	° F	75	° F

CONTRACTOR WORK HOURS: 0700 TO 1530

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

1) Prime, Zoladz not onsite this date; no work.

2) Sub contractor, Spoth onsite to install "J" hangers in PB's.

3) Sub contractor, Spoth, erected (2) Ped Poles (no heads were installed this date). Note: Plans call for (4) - 5 conductor & (1) - 7 conductor wires at SW Signal (Received). Spoke, can eliminate 1 of the 5 conductors (spare) and have a 7 conductor for further head.

4) Sun contractor, Spoth, spliced wires for run to Controller.

5) I spoke with Jim (Spoth) regarding loop on Dona St. Existing junction box may not work; looking into other options.

6) I spoke with Tony D. (COL) - no provisions made for Vehicle Detection when moved stop bar - he would like if possible.

7) Sub contractor, UTS onsite installing signs; I provided direction on 3 new sign placements.
1 - Dead End @ STA13+70, LT
2 - No Unauthorized Vehicle 1 @ Rte 5/ 1 @ Welded Tube.
Note: 7" Height of signs, all signs in - except RR; per MUTCD

CONTRACT PAY ITEM NO	FS	ES	INTERIM QUANTITY	UNITS	FINAL QUANTITY	QTY CHK	LOCATION OF WORK	CEES ENT	CEES CHK

I certify that the work described in this report was incorporated into this contract on the date of this DWR, unless otherwise noted.

Inspector's Signature: _____ Date Prepared: _____

Reviewed by: _____ ☐ Engineer-in-Charge ☐ Resident Engineer Date Reviewed: _____

☐ MURK 1-1 CONTINUATION attached for additional narrative. ☐ MURK 1-2 CONTINUATION attached for additional pay items & quantities.

MURK 1 REVERSE
(06/08)

LABOR					EQUIPMENT					
CLASSIFICATION	OP 1	OP 2	OP 3	OP 4	TYPE	ID #	OP 1	OP 2	OP 3	OP 4
FOREPERSON		1			Front End Loader					
LABORER		3			Attenuator Truck					
EQUIP. OPERATOR					Panel Truck					
TRUCK DRIVERS					M&PT Truck					
IRONWORKERS					6 Wheel Dump w/ Trailer					
CARPENTERS					Trailer					
MASONS					Paint Truck					
OWN./OPERATORS					Portable Painter					
					Utility Truck			1	1	
					Stake Bed Truck			1		
Electrician/ Lineman			4							

OP 1:	OP 2: UTS	OP 3: Spoth	OP 4:

APPENDIX B

Imported Soil Records

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Us

Have Ecological Resources been identified? no

Is this soil originating from the site? Choose an item

How many cubic yards of soil will be imported/reused? >1000

If greater than 1000 cubic yards will be imported, enter volume to be imported: 4000

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? no

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

This material will be used as Embankment Material - Dona Street Roadway Construction Project - Item 203.03

NYSDEC Part 375 Sampling
(13 grab) VOCs
(5 composite) SVOCs, PCBs/Pests/Herbs, Metals, Cyanide

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

All sampling results comply with DER-10 Commercial/Industrial Criteria

---

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Zoladz Construction - Excavated soil from pond construction at the site mentioned below

Location where fill was obtained:

Brush Mountain Community Center Construction Project, 4500 California Road, Orchard Park, NY

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

The stockpile at Brush Mountain is from the excavation activies mentioned above.

Provide a list of supporting documentation included with this request:

Attached Anaytical Report and photos.
Inspection of the stockpile confirms that the material is native to the above-mentioned Site.

The information provided on this form is accurate and complete.

Signature

02/19/2019

Date

Michael P. Byrne P.G.

Print Name

LiRo Engineers Inc.

Firm

APPROVED

Digitally signed by Maurice F. Moore
DN: cn=Maurice F. Moore, o=New York State Department of Environmental Conservation, ou=DER, email=maurice.moore@dec.ny.gov, c=US
Date: 2019.02.19 10:26:50 -05'00'

Revised August 2014

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Us

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? >1000

If greater than 1000 cubic yards will be imported, enter volume to be imported: 1800

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? no

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

This material will be used as Topsoil Material - Dona Street Roadway Construction Project - Item 610.1402/03
NYSDEC Part 375 Sampling
(11 grab) VOCs Plus an additional 4 taken 2/11/19 (MFM)
(4 composite) SVOCs, PCBs/Pests/Herbs, Metals, Cyanide Plus an additional 2 taken 2/11/19 (MFM)

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

All sampling results comply with DER-10 Commercial/Inductrial Criteria

---

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Zoladz Construction - Excavated soil from pond construction at the site mentioned below

Location where fill was obtained:

Brush Mountain Community Center Construction Project, 4500 California Road, Orchard Park, NY

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

The stockpile at Brush Mountain is from the excavation activities mentioned above.

Provide a list of supporting documentation included with this request:

Attached Anaytical Report and photos.
Inspection of the stockpile confirms that the material is native to the above-mentioned Site.

The information provided on this form is accurate and complete.

Signature

02/19/2019

Date

Michael P. Byrne P.G.

Print Name

LiRo Engineers Inc.

Firm

APPROVED

Digitally signed by Maurice F. Moore
DN: cn=Maurice F. Moore, o=New York State Department of Environmental Conservation, ou=DER, email=maurice.moore@dec.ny.gov, c=US
Date: 2019.02.25 11:55:18 -05'00'

PROJECT: Erie County Department of Public Works Street Extension DEP-DONA-18 Dona Project Number ARCHITECT: LiRo Group	ARCHITECT'S PROJECT NO.
SUBMITTAL NAME: **Topsoil**	SUBMITTAL NO: **610.1402/1403** DATE: **1/7/2019**

SUBMITTAL TYPE

ACTION SUBMITTAL: [x] PRODUCT DATA [ ] SHOP DRAWING [ ] SAMPLE

INFORMATIONAL SUBMITTAL: [ ] COORDINATION DRAWING [ ] QUALIFCAITON DATA [ ] CERTIFICATES

[X] TEST REPORTS [ ] MAINTENANCE DATA [ ] OTHER

SPECIFICATION SECTION NUMBER AND TITLE:
610.1402/1403

DRAWING NUMBER AND DETAIL REFERENCES
Sheet 5/19 of 41

[x] NAMED PRODUCT **DEVIATIONS:** [ ] EQUIVALENT SUBSTITUTION (PRIOR TO AWARD) [ ] (AFTER AWARD)

CONTRACTOR:
ZOLADZ CONSTRUCTION CO., INC.

SUB-CONTRACTOR:
N/A

SUPPLIER:
Iron City

MANUFACTURER:
Iron City

CONTRACTORS REVIEW & APPROVAL **This submittal has been reviewed, checked and approved for compliance with the Contract Documents.** CONTRACTOR: **ZOLADZ CONSTRUCTION CO., INC.** BY: Mark Marcheson DATE: **1/7/2019**	**ARCHITECT'S REVIEW STAMP**

3rd rock

Organic Content and pH Test Results

Project: Topsoil Testing
Client: Iron City

Project No: 18-045
Date: 12/28/18

Sample No.	Lab ID No.	pH Units	Organic Content %
Topsoil	18-1333	5.50	4.6

Respectfully Submitted,
3rd Rock, LLC

3rd Rock, LLC
580 Olean Road
East Aurora, NY 14052
(716)655-4933
(716)655-8638 (fax)

Mark D. Marcheson

[redacted]

[redacted]

[redacted]

From: Steve Bryant [mailto:steve@preferredseed.com]
Sent: Wednesday, January 02, 2019 9:25 AM
To: Robert Dehr <bobd@zoladz.com>
Subject: RE: Burmon Road

Good morning Bob,

So looking at the pH of 5.5, there is a couple different routes you could take. Ideal pH is in the 6.5 range, so the suggested rates would be based on achieving that number.

For new seeding's:

apply Pelletized Lime @ 116 lbs. / 1,000 SF
OR
Apply NeutraLime Dry via the hydroseeder @ 80 lbs. / acre

Any questions just let me know!
Thanks

Steven Bryant
Preferred Seed Company
575 Kennedy Road – Buffalo, NY 14227
(716)-895-7333 www.preferredseed.com

[redacted]

ANALYTICAL REPORT

Lab Number:	L1846319
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	SCALE HOUSE TOPSOIL
Project Number:	0006-018-001
Report Date:	11/19/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1846319-01	SHT VOC #1	SOIL	LACKAWANNA, NY	11/12/18 13:05	11/12/18
L1846319-02	SHT VOC #2	SOIL	LACKAWANNA, NY	11/12/18 13:09	11/12/18
L1846319-03	SHT VOC #3	SOIL	LACKAWANNA, NY	11/12/18 13:16	11/12/18
L1846319-04	SHT VOC #4	SOIL	LACKAWANNA, NY	11/12/18 13:27	11/12/18
L1846319-05	SHT VOC #5	SOIL	LACKAWANNA, NY	11/12/18 13:29	11/12/18
L1846319-06	SHT VOC #6	SOIL	LACKAWANNA, NY	11/12/18 13:32	11/12/18
L1846319-07	SHT VOC #7	SOIL	LACKAWANNA, NY	11/12/18 13:35	11/12/18
L1846319-08	SHT COMP #1	SOIL	LACKAWANNA, NY	11/12/18 13:39	11/12/18
L1846319-09	SHT COMP #2	SOIL	LACKAWANNA, NY	11/12/18 13:42	11/12/18
L1846319-10	SHT VOC #8	SOIL	LACKAWANNA, NY	11/12/18 13:47	11/12/18
L1846319-11	SHT VOC #9	SOIL	LACKAWANNA, NY	11/12/18 13:53	11/12/18
L1846319-12	SHT COMP #3	SOIL	LACKAWANNA, NY	11/12/18 14:03	11/12/18
L1846319-13	SHT VOC #10	SOIL	LACKAWANNA, NY	11/12/18 14:07	11/12/18
L1846319-14	SHT VOC #11	SOIL	LACKAWANNA, NY	11/12/18 14:17	11/12/18
L1846319-15	SHT COMP #4	SOIL	LACKAWANNA, NY	11/12/18 14:28	11/12/18

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319
Project Number: 0006-018-001 **Report Date:** 11/19/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	SCALE HOUSE TOPSOIL	**Lab Number:**	L1846319
Project Number:	0006-018-001	**Report Date:**	11/19/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Cyanide, Total

The WG1178910-2/-3 LCS/LCSD recoveries (71%/74%), associated with L1846319-08, -09, -12, and -15, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 11/19/18

ORGANICS

VOLATILES

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-01
Client ID: SHT VOC #1
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:05
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/16/18 23:03
Analyst: MKS
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	0.37	J	ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
Tetrachloroethene	ND		ug/kg	0.65	0.25	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
Acetone	40		ug/kg	13	6.2	1
2-Butanone	ND		ug/kg	13	2.9	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-01 Date Collected: 11/12/18 13:05

Client ID: SHT VOC #1 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	130	46.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	104		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-02
Client ID: SHT VOC #2
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:09
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/16/18 23:31
Analyst: MKS
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	0.30	J	ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.20	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
Acetone	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.6	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.2	0.20	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-02 Date Collected: 11/12/18 13:09

Client ID: SHT VOC #2 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	120	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-03
Client ID: SHT VOC #3
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:16
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/16/18 23:59
Analyst: MKS
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	0.31	J	ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
Tetrachloroethene	ND		ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
Acetone	ND		ug/kg	12	6.0	1
2-Butanone	ND		ug/kg	12	2.8	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-03 Date Collected: 11/12/18 13:16

Client ID: SHT VOC #3 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	120	44.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	106		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-04 Date Collected: 11/12/18 13:27
Client ID: SHT VOC #4 Date Received: 11/12/18
Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/17/18 00:26
Analyst: MKS
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	4.8	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.30	1
Chloroform	0.66	J	ug/kg	3.1	0.29	1
Carbon tetrachloride	ND		ug/kg	2.1	0.48	1
Tetrachloroethene	ND		ug/kg	1.0	0.41	1
Chlorobenzene	ND		ug/kg	1.0	0.26	1
1,2-Dichloroethane	ND		ug/kg	2.1	0.54	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35	1
Benzene	ND		ug/kg	1.0	0.35	1
Toluene	ND		ug/kg	2.1	1.1	1
Ethylbenzene	ND		ug/kg	2.1	0.29	1
Vinyl chloride	ND		ug/kg	2.1	0.70	1
1,1-Dichloroethene	ND		ug/kg	2.1	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	3.1	0.29	1
Trichloroethene	ND		ug/kg	1.0	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.30	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.31	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.36	1
Methyl tert butyl ether	ND		ug/kg	4.2	0.42	1
p/m-Xylene	ND		ug/kg	4.2	1.2	1
o-Xylene	ND		ug/kg	2.1	0.61	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	0.36	1
Acetone	ND		ug/kg	21	10.	1
2-Butanone	ND		ug/kg	21	4.6	1
n-Butylbenzene	ND		ug/kg	2.1	0.35	1
sec-Butylbenzene	ND		ug/kg	2.1	0.30	1
tert-Butylbenzene	ND		ug/kg	4.2	0.25	1
n-Propylbenzene	ND		ug/kg	2.1	0.36	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-04 Date Collected: 11/12/18 13:27

Client ID: SHT VOC #4 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.40	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.70	1
1,4-Dioxane	ND		ug/kg	210	73.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	106		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-05
Client ID: SHT VOC #5
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:29
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/17/18 00:55
Analyst: MKS
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.23	J	ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Acetone	ND		ug/kg	11	5.3	1
2-Butanone	ND		ug/kg	11	2.5	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-05 Date Collected: 11/12/18 13:29

Client ID: SHT VOC #5 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	110	39.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	107		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-06
Client ID: SHT VOC #6
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:32
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/17/18 01:23
Analyst: MKS
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	3.6	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.22	1
Chloroform	0.65	J	ug/kg	2.3	0.22	1
Carbon tetrachloride	ND		ug/kg	1.6	0.36	1
Tetrachloroethene	ND		ug/kg	0.78	0.30	1
Chlorobenzene	ND		ug/kg	0.78	0.20	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	0.26	1
Benzene	ND		ug/kg	0.78	0.26	1
Toluene	ND		ug/kg	1.6	0.84	1
Ethylbenzene	ND		ug/kg	1.6	0.22	1
Vinyl chloride	ND		ug/kg	1.6	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1
Trichloroethene	ND		ug/kg	0.78	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.87	1
o-Xylene	ND		ug/kg	1.6	0.45	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.27	1
Acetone	ND		ug/kg	16	7.5	1
2-Butanone	ND		ug/kg	16	3.4	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
n-Propylbenzene	ND		ug/kg	1.6	0.26	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-06 Date Collected: 11/12/18 13:32

Client ID: SHT VOC #6 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1
1,4-Dioxane	ND		ug/kg	160	54.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	105		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-07
Client ID: SHT VOC #7
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:35
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/17/18 01:52
Analyst: MKS
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.1	4.2	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.26	1
Chloroform	0.89	J	ug/kg	2.7	0.26	1
Carbon tetrachloride	ND		ug/kg	1.8	0.42	1
Tetrachloroethene	ND		ug/kg	0.91	0.36	1
Chlorobenzene	ND		ug/kg	0.91	0.23	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.47	1
1,1,1-Trichloroethane	ND		ug/kg	0.91	0.30	1
Benzene	ND		ug/kg	0.91	0.30	1
Toluene	ND		ug/kg	1.8	0.99	1
Ethylbenzene	ND		ug/kg	1.8	0.26	1
Vinyl chloride	ND		ug/kg	1.8	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	0.25	1
Trichloroethene	ND		ug/kg	0.91	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	3.6	0.26	1
1,3-Dichlorobenzene	ND		ug/kg	3.6	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	3.6	0.31	1
Methyl tert butyl ether	ND		ug/kg	3.6	0.37	1
p/m-Xylene	ND		ug/kg	3.6	1.0	1
o-Xylene	ND		ug/kg	1.8	0.53	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.32	1
Acetone	ND		ug/kg	18	8.8	1
2-Butanone	ND		ug/kg	18	4.0	1
n-Butylbenzene	ND		ug/kg	1.8	0.30	1
sec-Butylbenzene	ND		ug/kg	1.8	0.27	1
tert-Butylbenzene	ND		ug/kg	3.6	0.22	1
n-Propylbenzene	ND		ug/kg	1.8	0.31	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-07 Date Collected: 11/12/18 13:35

Client ID: SHT VOC #7 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	3.6	0.35	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.6	0.61	1
1,4-Dioxane	ND		ug/kg	180	64.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	106		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-10 Date Collected: 11/12/18 13:47
Client ID: SHT VOC #8 Date Received: 11/12/18
Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/17/18 02:19
Analyst: MKS
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	0.37	J	ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Acetone	ND		ug/kg	12	5.7	1
2-Butanone	ND		ug/kg	12	2.6	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
n-Propylbenzene	ND		ug/kg	1.2	0.20	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-10 Date Collected: 11/12/18 13:47

Client ID: SHT VOC #8 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.39	1
1,4-Dioxane	ND		ug/kg	120	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	105		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-11
Client ID: SHT VOC #9
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:53
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/17/18 02:47
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	3.6	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.23	1
Chloroform	0.51	J	ug/kg	2.3	0.22	1
Carbon tetrachloride	ND		ug/kg	1.6	0.36	1
Tetrachloroethene	ND		ug/kg	0.78	0.31	1
Chlorobenzene	ND		ug/kg	0.78	0.20	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	0.26	1
Benzene	ND		ug/kg	0.78	0.26	1
Toluene	ND		ug/kg	1.6	0.85	1
Ethylbenzene	ND		ug/kg	1.6	0.22	1
Vinyl chloride	ND		ug/kg	1.6	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1
Trichloroethene	ND		ug/kg	0.78	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.27	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.87	1
o-Xylene	ND		ug/kg	1.6	0.45	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.27	1
Acetone	ND		ug/kg	16	7.5	1
2-Butanone	ND		ug/kg	16	3.5	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
n-Propylbenzene	ND		ug/kg	1.6	0.27	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-11 Date Collected: 11/12/18 13:53

Client ID: SHT VOC #9 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1
1,4-Dioxane	ND		ug/kg	160	55.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	107		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-13
Client ID: SHT VOC #10
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:07
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/19/18 07:11
Analyst: MV
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	5.1	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.32	1
Chloroform	0.94	J	ug/kg	3.3	0.31	1
Carbon tetrachloride	ND		ug/kg	2.2	0.51	1
Tetrachloroethene	ND		ug/kg	1.1	0.44	1
Chlorobenzene	ND		ug/kg	1.1	0.28	1
1,2-Dichloroethane	ND		ug/kg	2.2	0.57	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.37	1
Benzene	ND		ug/kg	1.1	0.37	1
Toluene	ND		ug/kg	2.2	1.2	1
Ethylbenzene	ND		ug/kg	2.2	0.31	1
Vinyl chloride	ND		ug/kg	2.2	0.74	1
1,1-Dichloroethene	ND		ug/kg	2.2	0.53	1
trans-1,2-Dichloroethene	ND		ug/kg	3.3	0.30	1
Trichloroethene	ND		ug/kg	1.1	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.4	0.32	1
1,3-Dichlorobenzene	ND		ug/kg	4.4	0.33	1
1,4-Dichlorobenzene	ND		ug/kg	4.4	0.38	1
Methyl tert butyl ether	ND		ug/kg	4.4	0.45	1
p/m-Xylene	ND		ug/kg	4.4	1.2	1
o-Xylene	ND		ug/kg	2.2	0.65	1
cis-1,2-Dichloroethene	ND		ug/kg	2.2	0.39	1
Acetone	ND		ug/kg	22	11.	1
2-Butanone	ND		ug/kg	22	4.9	1
n-Butylbenzene	ND		ug/kg	2.2	0.37	1
sec-Butylbenzene	ND		ug/kg	2.2	0.32	1
tert-Butylbenzene	ND		ug/kg	4.4	0.26	1
n-Propylbenzene	ND		ug/kg	2.2	0.38	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-13 Date Collected: 11/12/18 14:07

Client ID: SHT VOC #10 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	4.4	0.43	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.4	0.74	1
1,4-Dioxane	ND		ug/kg	220	78.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	105		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-14
Client ID: SHT VOC #11
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:17
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/17/18 03:15
Analyst: MKS
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	0.60	J	ug/kg	2.2	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
Tetrachloroethene	ND		ug/kg	0.72	0.28	1
Chlorobenzene	ND		ug/kg	0.72	0.18	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	0.24	1
Benzene	ND		ug/kg	0.72	0.24	1
Toluene	ND		ug/kg	1.4	0.79	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1
Trichloroethene	ND		ug/kg	0.72	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.29	1
p/m-Xylene	ND		ug/kg	2.9	0.81	1
o-Xylene	ND		ug/kg	1.4	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Acetone	ND		ug/kg	14	7.0	1
2-Butanone	ND		ug/kg	14	3.2	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.9	0.17	1
n-Propylbenzene	ND		ug/kg	1.4	0.25	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-14 Date Collected: 11/12/18 14:17

Client ID: SHT VOC #11 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	0.28	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	0.48	1
1,4-Dioxane	ND		ug/kg	140	51.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	105		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/16/18 20:15
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,10-11,14 Batch: WG1180645-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.17	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/16/18 20:15
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,10-11,14 Batch: WG1180645-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	103		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/19/18 06:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1180832-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/19/18 06:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1180832-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,10-11,14 Batch: WG1180645-3 WG1180645-4								
Methylene chloride	94		95		70-130	1		30
1,1-Dichloroethane	96		96		70-130	0		30
Chloroform	94		92		70-130	2		30
Carbon tetrachloride	99		97		70-130	2		30
Tetrachloroethene	97		93		70-130	4		30
Chlorobenzene	94		93		70-130	1		30
1,2-Dichloroethane	90		90		70-130	0		30
1,1,1-Trichloroethane	90		87		70-130	3		30
Benzene	100		99		70-130	1		30
Toluene	99		97		70-130	2		30
Ethylbenzene	98		96		70-130	2		30
Vinyl chloride	115		113		67-130	2		30
1,1-Dichloroethene	98		95		65-135	3		30
trans-1,2-Dichloroethene	97		94		70-130	3		30
Trichloroethene	92		89		70-130	3		30
1,2-Dichlorobenzene	101		100		70-130	1		30
1,3-Dichlorobenzene	102		100		70-130	2		30
1,4-Dichlorobenzene	104		100		70-130	4		30
Methyl tert butyl ether	83		83		66-130	0		30
p/m-Xylene	101		99		70-130	2		30
o-Xylene	92		91		70-130	1		30
cis-1,2-Dichloroethene	94		94		70-130	0		30
Acetone	130		132		54-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,10-11,14 Batch: WG1180645-3 WG1180645-4								
2-Butanone	79		81		70-130	3		30
n-Butylbenzene	108		104		70-130	4		30
sec-Butylbenzene	108		104		70-130	4		30
tert-Butylbenzene	106		103		70-130	3		30
n-Propylbenzene	102		100		70-130	2		30
1,3,5-Trimethylbenzene	102		99		70-130	3		30
1,2,4-Trimethylbenzene	101		99		70-130	2		30
1,4-Dioxane	99		99		65-136	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		101		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	93		94		70-130
Dibromofluoromethane	104		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1180832-3 WG1180832-4								
Methylene chloride	90		87		70-130	3		30
1,1-Dichloroethane	91		88		70-130	3		30
Chloroform	88		86		70-130	2		30
Carbon tetrachloride	88		87		70-130	1		30
Tetrachloroethene	87		86		70-130	1		30
Chlorobenzene	89		88		70-130	1		30
1,2-Dichloroethane	87		87		70-130	0		30
1,1,1-Trichloroethane	82		79		70-130	4		30
Benzene	94		92		70-130	2		30
Toluene	91		89		70-130	2		30
Ethylbenzene	90		88		70-130	2		30
Vinyl chloride	103		99		67-130	4		30
1,1-Dichloroethene	86		84		65-135	2		30
trans-1,2-Dichloroethene	87		86		70-130	1		30
Trichloroethene	84		83		70-130	1		30
1,2-Dichlorobenzene	97		95		70-130	2		30
1,3-Dichlorobenzene	98		95		70-130	3		30
1,4-Dichlorobenzene	99		96		70-130	3		30
Methyl tert butyl ether	81		80		66-130	1		30
p/m-Xylene	94		92		70-130	2		30
o-Xylene	86		85		70-130	1		30
cis-1,2-Dichloroethene	89		86		70-130	3		30
Acetone	118		118		54-140	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1180832-3 WG1180832-4								
2-Butanone	**68**	Q	70		70-130	3		30
n-Butylbenzene	96		93		70-130	3		30
sec-Butylbenzene	97		93		70-130	4		30
tert-Butylbenzene	96		93		70-130	3		30
n-Propylbenzene	93		90		70-130	3		30
1,3,5-Trimethylbenzene	93		92		70-130	1		30
1,2,4-Trimethylbenzene	94		91		70-130	3		30
1,4-Dioxane	96		97		65-136	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	92		91		70-130
Dibromofluoromethane	103		104		70-130

SEMIVOLATILES

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-08
Client ID: SHT COMP #1
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:39
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/17/18 01:15
Analyst: IM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	47	J	ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Fluoranthene	1600		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	25.	1
Benzo(a)anthracene	600		ug/kg	120	23.	1
Benzo(a)pyrene	540		ug/kg	160	49.	1
Benzo(b)fluoranthene	760		ug/kg	120	34.	1
Benzo(k)fluoranthene	290		ug/kg	120	32.	1
Chrysene	660		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	180		ug/kg	120	40.	1
Benzo(ghi)perylene	370		ug/kg	160	24.	1
Fluorene	57	J	ug/kg	200	20.	1
Phenanthrene	1000		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	87	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	400		ug/kg	160	28.	1
Pyrene	1300		ug/kg	120	20.	1
Dibenzofuran	24	J	ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-08 Date Collected: 11/12/18 13:39

Client ID: SHT COMP #1 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	73		18-120

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-09
Client ID: SHT COMP #2
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:42
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/17/18 01:41
Analyst: IM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	110	J	ug/kg	130	24.	1
Naphthalene	ND		ug/kg	210	26.	1
Benzo(a)anthracene	47	J	ug/kg	130	24.	1
Benzo(a)pyrene	55	J	ug/kg	170	52.	1
Benzo(b)fluoranthene	82	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	55	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	54	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	40	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	48	J	ug/kg	170	30.	1
Pyrene	90	J	ug/kg	130	21.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-09 Date Collected: 11/12/18 13:42

Client ID: SHT COMP #2 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	90		18-120

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-12
Client ID: SHT COMP #3
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:03
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/17/18 02:07
Analyst: IM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Fluoranthene	320		ug/kg	120	24.	1
Naphthalene	ND		ug/kg	210	25.	1
Benzo(a)anthracene	130		ug/kg	120	23.	1
Benzo(a)pyrene	130	J	ug/kg	160	50.	1
Benzo(b)fluoranthene	190		ug/kg	120	35.	1
Benzo(k)fluoranthene	69	J	ug/kg	120	33.	1
Chrysene	160		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	100	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	140		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	26	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	160	29.	1
Pyrene	260		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-12 Date Collected: 11/12/18 14:03

Client ID: SHT COMP #3 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	73		18-120

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-15
Client ID: SHT COMP #4
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:28
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/17/18 02:33
Analyst: IM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Fluoranthene	30	J	ug/kg	120	24.	1
Naphthalene	ND		ug/kg	210	25.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	25	J	ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	25	J	ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	25	J	ug/kg	120	21.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-15 Date Collected: 11/12/18 14:28

Client ID: SHT COMP #4 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	81		18-120

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/14/18 13:23
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/13/18 09:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-09,12,15 Batch: WG1178830-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	97	18.
Fluoranthene	ND		ug/kg	97	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/14/18 13:23
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/13/18 09:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-09,12,15 Batch: WG1178830-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	67		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09,12,15 Batch: WG1178830-2 WG1178830-3								
Acenaphthene	74		83		31-137	11		50
Hexachlorobenzene	72		81		40-140	12		50
Fluoranthene	81		93		40-140	14		50
Naphthalene	80		90		40-140	12		50
Benzo(a)anthracene	72		85		40-140	17		50
Benzo(a)pyrene	80		95		40-140	17		50
Benzo(b)fluoranthene	78		94		40-140	19		50
Benzo(k)fluoranthene	78		94		40-140	19		50
Chrysene	77		90		40-140	16		50
Acenaphthylene	83		92		40-140	10		50
Anthracene	83		95		40-140	13		50
Benzo(ghi)perylene	82		95		40-140	15		50
Fluorene	76		86		40-140	12		50
Phenanthrene	80		92		40-140	14		50
Dibenzo(a,h)anthracene	78		93		40-140	18		50
Indeno(1,2,3-cd)pyrene	81		95		40-140	16		50
Pyrene	81		93		35-142	14		50
Dibenzofuran	74		84		40-140	13		50
Pentachlorophenol	69		82		17-109	17		50
Phenol	78		86		26-90	10		50
2-Methylphenol	84		97		30-130.	14		50
3-Methylphenol/4-Methylphenol	82		94		30-130	14		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09,12,15 Batch: WG1178830-2 WG1178830-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		88		25-120
Phenol-d6	82		91		10-120
Nitrobenzene-d5	81		91		23-120
2-Fluorobiphenyl	78		87		30-120
2,4,6-Tribromophenol	71		82		10-136
4-Terphenyl-d14	69		79		18-120

PCBS

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-08
Client ID: SHT COMP #1
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:39
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/15/18 18:55
Analyst: WR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:17
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	3.64	1	A
Aroclor 1221	ND		ug/kg	41.0	4.10	1	A
Aroclor 1232	ND		ug/kg	41.0	8.69	1	A
Aroclor 1242	ND		ug/kg	41.0	5.52	1	A
Aroclor 1248	ND		ug/kg	41.0	6.15	1	A
Aroclor 1254	ND		ug/kg	41.0	4.48	1	A
Aroclor 1260	ND		ug/kg	41.0	7.57	1	A
Aroclor 1262	ND		ug/kg	41.0	5.20	1	A
Aroclor 1268	ND		ug/kg	41.0	4.24	1	A
PCBs, Total	ND		ug/kg	41.0	3.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-09
Client ID: SHT COMP #2
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:42
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/15/18 19:07
Analyst: WR
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:17
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.0	3.82	1	A
Aroclor 1221	ND		ug/kg	43.0	4.31	1	A
Aroclor 1232	ND		ug/kg	43.0	9.13	1	A
Aroclor 1242	ND		ug/kg	43.0	5.80	1	A
Aroclor 1248	ND		ug/kg	43.0	6.46	1	A
Aroclor 1254	ND		ug/kg	43.0	4.71	1	A
Aroclor 1260	ND		ug/kg	43.0	7.96	1	A
Aroclor 1262	ND		ug/kg	43.0	5.47	1	A
Aroclor 1268	ND		ug/kg	43.0	4.46	1	A
PCBs, Total	ND		ug/kg	43.0	3.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-12
Client ID: SHT COMP #3
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:03
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/15/18 19:20
Analyst: WR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:17
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.0	3.73	1	A
Aroclor 1221	ND		ug/kg	42.0	4.21	1	A
Aroclor 1232	ND		ug/kg	42.0	8.90	1	A
Aroclor 1242	ND		ug/kg	42.0	5.66	1	A
Aroclor 1248	ND		ug/kg	42.0	6.30	1	A
Aroclor 1254	ND		ug/kg	42.0	4.59	1	A
Aroclor 1260	ND		ug/kg	42.0	7.76	1	A
Aroclor 1262	ND		ug/kg	42.0	5.33	1	A
Aroclor 1268	ND		ug/kg	42.0	4.35	1	A
PCBs, Total	ND		ug/kg	42.0	3.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-15
Client ID: SHT COMP #4
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:28
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/15/18 19:32
Analyst: WR
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:17
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.0	3.56	1	A
Aroclor 1221	ND		ug/kg	40.0	4.01	1	A
Aroclor 1232	ND		ug/kg	40.0	8.49	1	A
Aroclor 1242	ND		ug/kg	40.0	5.40	1	A
Aroclor 1248	ND		ug/kg	40.0	6.00	1	A
Aroclor 1254	ND		ug/kg	40.0	4.38	1	A
Aroclor 1260	ND		ug/kg	40.0	7.40	1	A
Aroclor 1262	ND		ug/kg	40.0	5.08	1	A
Aroclor 1268	ND		ug/kg	40.0	4.15	1	A
PCBs, Total	ND		ug/kg	40.0	3.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/14/18 03:54
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 11/13/18 06:05
Cleanup Method: EPA 3665A
Cleanup Date: 11/13/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/13/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 08-09,12,15 Batch: WG1178774-1						
Aroclor 1016	ND		ug/kg	32.6	2.90	A
Aroclor 1221	ND		ug/kg	32.6	3.27	A
Aroclor 1232	ND		ug/kg	32.6	6.92	A
Aroclor 1242	ND		ug/kg	32.6	4.40	A
Aroclor 1248	ND		ug/kg	32.6	4.90	A
Aroclor 1254	ND		ug/kg	32.6	3.57	A
Aroclor 1260	ND		ug/kg	32.6	6.04	A
Aroclor 1262	ND		ug/kg	32.6	4.15	A
Aroclor 1268	ND		ug/kg	32.6	3.38	A
PCBs, Total	ND		ug/kg	32.6	2.90	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	108		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 08-09,12,15 Batch: WG1178774-2 WG1178774-3									
Aroclor 1016	95		103		40-140	8		50	A
Aroclor 1260	95		104		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		98		30-150	A
Decachlorobiphenyl	96		100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		92		30-150	B
Decachlorobiphenyl	103		104		30-150	B

PESTICIDES

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-08
Client ID: SHT COMP #1
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:39
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/14/18 14:40
Analyst: BM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:15
Cleanup Method: EPA 3620B
Cleanup Date: 11/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.94	0.380	1	A
Lindane	ND		ug/kg	0.809	0.362	1	A
Alpha-BHC	ND		ug/kg	0.809	0.230	1	A
Beta-BHC	ND		ug/kg	1.94	0.736	1	A
Heptachlor	ND		ug/kg	0.971	0.435	1	A
Aldrin	ND		ug/kg	1.94	0.684	1	A
Endrin	ND		ug/kg	0.809	0.332	1	A
Dieldrin	ND		ug/kg	1.21	0.607	1	A
4,4'-DDE	8.48		ug/kg	1.94	0.449	1	B
4,4'-DDD	1.02	JP	ug/kg	1.94	0.693	1	B
4,4'-DDT	8.18		ug/kg	3.64	1.56	1	B
Endosulfan I	ND		ug/kg	1.94	0.459	1	A
Endosulfan II	ND		ug/kg	1.94	0.649	1	A
Endosulfan sulfate	ND		ug/kg	0.809	0.385	1	A
cis-Chlordane	ND		ug/kg	2.43	0.676	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	129		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	112		30-150	A

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-08
Client ID: SHT COMP #1
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:39
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/14/18 20:10
Analyst: KEG
Percent Solids: 81%
Methylation Date: 11/14/18 07:31

Extraction Method: EPA 8151A
Extraction Date: 11/13/18 15:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	205	5.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	75		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-09
Client ID: SHT COMP #2
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:42
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/14/18 14:53
Analyst: BM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:15
Cleanup Method: EPA 3620B
Cleanup Date: 11/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.05	0.402	1	A
Lindane	ND		ug/kg	0.854	0.382	1	A
Alpha-BHC	ND		ug/kg	0.854	0.243	1	A
Beta-BHC	ND		ug/kg	2.05	0.777	1	A
Heptachlor	ND		ug/kg	1.02	0.460	1	A
Aldrin	ND		ug/kg	2.05	0.722	1	A
Endrin	ND		ug/kg	0.854	0.350	1	A
Dieldrin	ND		ug/kg	1.28	0.641	1	A
4,4'-DDE	15.1		ug/kg	2.05	0.474	1	B
4,4'-DDD	0.980	JIP	ug/kg	2.05	0.731	1	B
4,4'-DDT	13.0		ug/kg	3.84	1.65	1	A
Endosulfan I	ND		ug/kg	2.05	0.484	1	A
Endosulfan II	ND		ug/kg	2.05	0.685	1	A
Endosulfan sulfate	ND		ug/kg	0.854	0.407	1	A
cis-Chlordane	ND		ug/kg	2.56	0.714	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	B
Decachlorobiphenyl	128		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-09
Client ID: SHT COMP #2
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:42
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/14/18 20:30
Analyst: KEG
Percent Solids: 76%
Methylation Date: 11/14/18 07:31

Extraction Method: EPA 8151A
Extraction Date: 11/13/18 15:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	215	5.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	76		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-12
Client ID: SHT COMP #3
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:03
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/14/18 15:06
Analyst: BM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:15
Cleanup Method: EPA 3620B
Cleanup Date: 11/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.377	1	A
Lindane	ND		ug/kg	0.803	0.359	1	A
Alpha-BHC	ND		ug/kg	0.803	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.731	1	A
Heptachlor	ND		ug/kg	0.964	0.432	1	A
Aldrin	ND		ug/kg	1.93	0.679	1	A
Endrin	ND		ug/kg	0.803	0.329	1	A
Dieldrin	ND		ug/kg	1.20	0.602	1	A
4,4'-DDE	15.0		ug/kg	1.93	0.446	1	B
4,4'-DDD	1.23	JP	ug/kg	1.93	0.688	1	B
4,4'-DDT	13.0		ug/kg	3.61	1.55	1	A
Endosulfan I	ND		ug/kg	1.93	0.455	1	A
Endosulfan II	ND		ug/kg	1.93	0.644	1	A
Endosulfan sulfate	ND		ug/kg	0.803	0.382	1	A
cis-Chlordane	ND		ug/kg	2.41	0.671	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	116		30-150	B
Decachlorobiphenyl	135		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	95		30-150	A

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-12
Client ID: SHT COMP #3
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:03
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/14/18 20:50
Analyst: KEG
Percent Solids: 79%
Methylation Date: 11/14/18 07:31

Extraction Method: EPA 8151A
Extraction Date: 11/13/18 15:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	208	5.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	66		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-15
Client ID: SHT COMP #4
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:28
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/14/18 15:19
Analyst: BM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 11/13/18 20:15
Cleanup Method: EPA 3620B
Cleanup Date: 11/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.98	0.387	1	A
Lindane	ND		ug/kg	0.823	0.368	1	A
Alpha-BHC	ND		ug/kg	0.823	0.234	1	A
Beta-BHC	ND		ug/kg	1.98	0.749	1	A
Heptachlor	ND		ug/kg	0.988	0.443	1	A
Aldrin	ND		ug/kg	1.98	0.696	1	A
Endrin	ND		ug/kg	0.823	0.338	1	A
Dieldrin	ND		ug/kg	1.24	0.618	1	A
4,4'-DDE	1.36	JP	ug/kg	1.98	0.457	1	B
4,4'-DDD	ND		ug/kg	1.98	0.705	1	A
4,4'-DDT	ND		ug/kg	3.70	1.59	1	A
Endosulfan I	ND		ug/kg	1.98	0.467	1	A
Endosulfan II	ND		ug/kg	1.98	0.660	1	A
Endosulfan sulfate	ND		ug/kg	0.823	0.392	1	A
cis-Chlordane	ND		ug/kg	2.47	0.688	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	112		30-150	B
Decachlorobiphenyl	117		30-150	B
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-15
Client ID: SHT COMP #4
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:28
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/14/18 21:09
Analyst: KEG
Percent Solids: 78%
Methylation Date: 11/14/18 07:31

Extraction Method: EPA 8151A
Extraction Date: 11/13/18 15:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	206	5.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	80		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/14/18 12:31
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 11/13/18 06:43
Cleanup Method: EPA 3620B
Cleanup Date: 11/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 08-09,12,15 Batch: WG1178779-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.635	0.284	A
Alpha-BHC	ND		ug/kg	0.635	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.578	A
Heptachlor	ND		ug/kg	0.762	0.342	A
Aldrin	ND		ug/kg	1.52	0.536	A
Endrin	ND		ug/kg	0.635	0.260	A
Dieldrin	ND		ug/kg	0.952	0.476	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.543	A
4,4'-DDT	ND		ug/kg	2.86	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.509	A
Endosulfan sulfate	ND		ug/kg	0.635	0.302	A
cis-Chlordane	ND		ug/kg	1.90	0.531	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	114		30-150	B
Decachlorobiphenyl	**163**	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	145		30-150	A

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/15/18 12:53
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 11/13/18 15:20

Methylation Date: 11/14/18 07:31

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 08-09,12,15 Batch: WG1179025-1						
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	66		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 08-09,12,15 Batch: WG1178779-2 WG1178779-3									
Delta-BHC	102		101		30-150	1		30	A
Lindane	96		94		30-150	2		30	A
Alpha-BHC	103		99		30-150	4		30	A
Beta-BHC	119		98		30-150	19		30	A
Heptachlor	133		129		30-150	3		30	A
Aldrin	93		89		30-150	4		30	A
Endrin	127		123		30-150	3		30	A
Dieldrin	116		112		30-150	4		30	A
4,4'-DDE	84		81		30-150	4		30	A
4,4'-DDD	112		111		30-150	1		30	A
4,4'-DDT	121		118		30-150	3		30	A
Endosulfan I	99		94		30-150	5		30	A
Endosulfan II	121		118		30-150	3		30	A
Endosulfan sulfate	126		124		30-150	2		30	A
cis-Chlordane	75		73		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		101		30-150	B
Decachlorobiphenyl	**157**	Q	148		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		89		30-150	A
Decachlorobiphenyl	145		122		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 08-09,12,15 Batch: WG1179025-2 WG1179025-3									
2,4,5-TP (Silvex)	71		70		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	78		74		30-150	A
DCAA	74		71		30-150	B

METALS

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1846319
Project Number: 0006-018-001
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-08
Client ID: SHT COMP #1
Sample Location: LACKAWANNA, NY
Date Collected: 11/12/18 13:39
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.96		mg/kg	0.480	0.100	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Barium, Total	61.0		mg/kg	0.480	0.084	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Beryllium, Total	0.600		mg/kg	0.240	0.016	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Cadmium, Total	0.576		mg/kg	0.480	0.047	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Chromium, Total	11.6		mg/kg	0.480	0.046	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Copper, Total	18.5		mg/kg	0.480	0.124	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Lead, Total	18.1		mg/kg	2.40	0.129	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Manganese, Total	407		mg/kg	0.480	0.076	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Mercury, Total	0.053	J	mg/kg	0.078	0.016	1	11/14/18 07:45	11/15/18 12:14	EPA 7471B	1,7471B	MG
Nickel, Total	17.3		mg/kg	1.20	0.116	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Selenium, Total	0.389	J	mg/kg	0.960	0.124	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.480	0.136	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
Zinc, Total	71.9		mg/kg	2.40	0.141	1	11/14/18 20:40	11/15/18 20:56	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.99	0.99	1		11/15/18 20:56	NA	107,-	

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-09 Date Collected: 11/12/18 13:42

Client ID: SHT COMP #2 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.6		mg/kg	0.515	0.107	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Barium, Total	74.2		mg/kg	0.515	0.090	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Beryllium, Total	0.551		mg/kg	0.258	0.017	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Cadmium, Total	0.819		mg/kg	0.515	0.051	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Chromium, Total	12.4		mg/kg	0.515	0.049	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Copper, Total	20.6		mg/kg	0.515	0.133	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Lead, Total	23.6		mg/kg	2.58	0.138	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Manganese, Total	1060		mg/kg	0.515	0.082	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Mercury, Total	0.063	J	mg/kg	0.084	0.018	1	11/14/18 07:45	11/15/18 12:16	EPA 7471B	1,7471B	MG
Nickel, Total	19.6		mg/kg	1.29	0.125	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Selenium, Total	0.484	J	mg/kg	1.03	0.133	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.515	0.146	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
Zinc, Total	76.8		mg/kg	2.58	0.151	1	11/14/18 20:40	11/15/18 21:01	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	1.0	1.1	1		11/15/18 21:01	NA	107,-	

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-12 Date Collected: 11/12/18 14:03

Client ID: SHT COMP #3 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.75		mg/kg	0.493	0.103	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Barium, Total	55.9		mg/kg	0.493	0.086	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Beryllium, Total	0.464		mg/kg	0.247	0.016	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Cadmium, Total	0.548		mg/kg	0.493	0.048	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Chromium, Total	11.9		mg/kg	0.493	0.047	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Copper, Total	21.4		mg/kg	0.493	0.127	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Lead, Total	16.5		mg/kg	2.47	0.132	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Manganese, Total	377		mg/kg	0.493	0.078	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Mercury, Total	0.046	J	mg/kg	0.080	0.017	1	11/14/18 07:45	11/15/18 12:21	EPA 7471B	1,7471B	MG
Nickel, Total	19.2		mg/kg	1.23	0.119	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Selenium, Total	0.330	J	mg/kg	0.987	0.127	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.493	0.140	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
Zinc, Total	70.5		mg/kg	2.47	0.144	1	11/14/18 20:40	11/15/18 21:06	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	1.0	1.0	1		11/15/18 21:06	NA	107,-	

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-15 Date Collected: 11/12/18 14:28

Client ID: SHT COMP #4 Date Received: 11/12/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.71		mg/kg	0.488	0.102	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Barium, Total	66.8		mg/kg	0.488	0.085	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Beryllium, Total	0.517		mg/kg	0.244	0.016	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Cadmium, Total	0.571		mg/kg	0.488	0.048	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Chromium, Total	12.4		mg/kg	0.488	0.047	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Copper, Total	16.2		mg/kg	0.488	0.126	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Lead, Total	16.2		mg/kg	2.44	0.131	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Manganese, Total	430		mg/kg	0.488	0.078	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Mercury, Total	0.030	J	mg/kg	0.081	0.017	1	11/14/18 07:45	11/15/18 12:23	EPA 7471B	1,7471B	MG
Nickel, Total	18.3		mg/kg	1.22	0.118	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Selenium, Total	0.400	J	mg/kg	0.976	0.126	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.488	0.138	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
Zinc, Total	73.3		mg/kg	2.44	0.143	1	11/14/18 20:40	11/15/18 21:10	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12	J	mg/kg	1.0	1.0	1		11/15/18 21:10	NA	107,-	

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1846319

Project Number: 0006-018-001 **Report Date:** 11/19/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08-09,12,15 Batch: WG1179198-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	11/14/18 07:45	11/15/18 09:16	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08-09,12,15 Batch: WG1179509-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB
Zinc, Total	0.848	J	mg/kg	2.00	0.117	1	11/14/18 20:40	11/15/18 19:53	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09,12,15 Batch: WG1179198-2 SRM Lot Number: D102-540								
Mercury, Total	123		-		65-134	-		
Total Metals - Mansfield Lab Associated sample(s): 08-09,12,15 Batch: WG1179509-2 SRM Lot Number: D102-540								
Arsenic, Total	90		-		83-117	-		
Barium, Total	84		-		83-118	-		
Beryllium, Total	86		-		83-116	-		
Cadmium, Total	88		-		83-118	-		
Chromium, Total	84		-		83-117	-		
Copper, Total	85		-		84-116	-		
Lead, Total	89		-		82-118	-		
Manganese, Total	85		-		82-118	-		
Nickel, Total	88		-		83-117	-		
Selenium, Total	93		-		79-121	-		
Silver, Total	81		-		80-120	-		
Zinc, Total	87		-		81-118	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09,12,15 QC Batch ID: WG1179198-3 QC Sample: L1844895-02 Client ID: MS Sample												
Mercury, Total	0.032J	0.163	0.240	**147**	Q	-	-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 08-09,12,15 QC Batch ID: WG1179509-3 WG1179509-4 QC Sample: L1846535-10 Client ID: MS Sample												
Arsenic, Total	2.70	11.3	11.5	78		12.2	84		75-125	6		20
Barium, Total	39.2	188	188	79		197	84		75-125	5		20
Beryllium, Total	0.243J	4.71	4.11	87		4.14	88		75-125	1		20
Cadmium, Total	0.374J	4.8	4.25	88		4.30	90		75-125	1		20
Chromium, Total	9.72	18.8	30.4	110		47.1	**199**	Q	75-125	**43**	Q	20
Copper, Total	30.2	23.6	457	**1810**	Q	107	**327**	Q	75-125	**124**	Q	20
Lead, Total	69.6	48	109	82		95.1	**53**	Q	75-125	14		20
Manganese, Total	375.	47.1	317	**0**	Q	422	100		75-125	**28**	Q	20
Nickel, Total	7.98	47.1	43.9	76		50.2	90		75-125	13		20
Selenium, Total	ND	11.3	8.60	76		8.68	77		75-125	1		20
Silver, Total	ND	28.3	26.0	92		26.4	94		75-125	2		20
Zinc, Total	77.2	47.1	178	**214**	Q	170	**197**	Q	75-125	5		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09,12,15 QC Batch ID: WG1179198-4 QC Sample: L1844895-02 Client ID: DUP Sample						
Mercury, Total	0.032J	0.029J	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-01
Client ID: SHT VOC #1
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:05
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.1		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-02
Client ID: SHT VOC #2
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:09
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.2		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-03
Client ID: SHT VOC #3
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:16
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.7		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-04
Client ID: SHT VOC #4
Sample Location: LACKAWANNA, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/12/18 13:27
Date Received: 11/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-05
Client ID: SHT VOC #5
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:29
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.2		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-06
Client ID: SHT VOC #6
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:32
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.6		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-07
Client ID: SHT VOC #7
Sample Location: LACKAWANNA, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/12/18 13:35
Date Received: 11/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.9		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-08
Client ID: SHT COMP #1
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:39
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.6		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/13/18 18:10	11/14/18 11:05	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.992	0.198	1	11/13/18 10:53	11/13/18 22:45	1,7196A	NH

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-09
Client ID: SHT COMP #2
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:42
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.2		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.28	1	11/13/18 18:10	11/14/18 11:06	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.05	0.210	1	11/13/18 10:53	11/13/18 22:45	1,7196A	NH

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-10
Client ID: SHT VOC #8
Sample Location: LACKAWANNA, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/12/18 13:47
Date Received: 11/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.1		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-11
Client ID: SHT VOC #9
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 13:53
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-12
Client ID: SHT COMP #3
Sample Location: LACKAWANNA, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/12/18 14:03
Date Received: 11/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.8		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/13/18 18:10	11/14/18 11:07	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.02	0.203	1	11/13/18 10:53	11/13/18 22:45	1,7196A	NH

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-13
Client ID: SHT VOC #10
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:07
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-14
Client ID: SHT VOC #11
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:17
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.4		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846319-15
Client ID: SHT COMP #4
Sample Location: LACKAWANNA, NY

Date Collected: 11/12/18 14:28
Date Received: 11/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.3		%	0.100	NA	1	-	11/13/18 11:57	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	11/13/18 18:10	11/14/18 11:08	1,9010C/9012B	LH
Chromium, Hexavalent	0.306	J	mg/kg	1.02	0.204	1	11/13/18 10:53	11/13/18 22:45	1,7196A	NH

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1846319
Report Date: 11/19/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 08-09,12,15 Batch: WG1178877-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/13/18 10:53	11/13/18 22:45	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 08-09,12,15 Batch: WG1178910-1										
Cyanide, Total	ND		mg/kg	0.85	0.18	1	11/13/18 18:10	11/14/18 10:42	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 08-09,12,15 Batch: WG1178877-2								
Chromium, Hexavalent	87		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 08-09,12,15 Batch: WG1178910-2 WG1178910-3								
Cyanide, Total	**71**	Q	**74**	Q	80-120	7		35

Matrix Spike Analysis
Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 08-09,12,15 QC Batch ID: WG1178877-4 QC Sample: L1846319-12 Client ID: SHT COMP #3												
Chromium, Hexavalent	ND	1800	1670	93		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 08-09,12,15 QC Batch ID: WG1178910-4 WG1178910-5 QC Sample: L1846351-17 Client ID: MS Sample												
Cyanide, Total	0.43J	16	15	93		15	91		75-125	0		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1846319

Report Date: 11/19/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 08-09,12,15 QC Batch ID: WG1178877-6 QC Sample: L1846319-12 Client ID: SHT COMP #3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-15 QC Batch ID: WG1178926-1 QC Sample: L1846319-01 Client ID: SHT VOC #1						
Solids, Total	77.1	77.8	%	1		20

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1846319-01A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-01B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-01C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-01D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-01X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-01Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-01Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-02A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-02B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-02C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-02D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-02X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-02Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-02Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-03A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-03B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-03C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-03D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-03X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-03Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-03Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-04A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-04B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1846319-04C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-04D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-04X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-04Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-04Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-05A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-05B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-05C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-05D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-05X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-05Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-05Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-06A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-06B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-06C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-06D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-06X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-06Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-06Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-07A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-07B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-07C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-07D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-07X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-07Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-07Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-08A	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1846319-08B	Glass 60ml unpreserved split	A	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1846319-09A	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1846319-09B	Glass 60ml unpreserved split	A	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1846319-10A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-10B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-10C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-10D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-10X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-10Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-10Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-11A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-11B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-11C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-11D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-11X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-11Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-11Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-12A	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1846319-12B	Glass 60ml unpreserved split	A	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1846319-13A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-13B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1846319
Report Date: 11/19/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1846319-13C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-13D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-13X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-13Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-13Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-14A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-14B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-14C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-14D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1846319-14X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1846319-14Y	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-14Z	Vial Water preserved split	A	NA		3.9	Y	Absent	13-NOV-18 13:13	NYTCL-8260HLW-R2(14)
L1846319-15A	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1846319-15B	Glass 60ml unpreserved split	A	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	SCALE HOUSE TOPSOIL	**Lab Number:**	L1846319
Project Number:	0006-018-001	**Report Date:**	11/19/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	SCALE HOUSE TOPSOIL	**Lab Number:**	L1846319
Project Number:	0006-018-001	**Report Date:**	11/19/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	SCALE HOUSE TOPSOIL	**Lab Number:**	L1846319
Project Number:	0006-018-001	**Report Date:**	11/19/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 11/13/18

ALPHA Job #: L1846319

Client Information
Client: Turnkey Env. Limited
Address: 2558 Hamburg Turnpike
Lackawanna NY 14218
Phone: (716) 828-8358
Fax: (716) 856-0583
Email: TBehrendt@turnkeyllc.com

Project Information
Project Name: Scale House Topsoil
Project Location: Lackawanna NY
Project #: 0006-018-001
(Use Project name as Project #) ☒
Project Manager: Tom Forbes
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAT B

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375 VOC	Part 375 SVOC	Part 375 metals	Part 375 Pest	Part 375 Herb	Part 375 PCB	T. Cyanide	T. Solids	Sample Specific Comments	Total Bottle
L46319 -01	SHT VOC #1	11/12/18	1305	Soil	TAB	X							X		4
-02	SHT VOC #2		1309			X							X		4
-03	SHT VOC #3		1316			X							X		4
-04	SHT VOC #4		1327			X							X		4
-05	SHT VOC #5		1329			X							X		4
-06	SHT VOC #6		1332			X							X		4
-07	SHT VOC #7		1335			X							X		4
-08	SHT COMP #1		1339				X	X	X	X	X	X			1
-09	SHT Comp #2		1342				X	X	X	X	X	X			1

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	~~E~~	A	A	A	A	A	A	P
Preservative	~~A~~	A	A	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	11/12/18 1545		11/12/18 15:55
	11/12/18 16:45		11/13/18 0105

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 2 of 2

Date Rec'd in Lab: 11/13/18

ALPHA Job #: L1846319

Client Information
Client: Turnkey Environmental
Address: 2558 Hamburg Turnpike Suite 30 Lackawanna NY 14218
Phone: (716) 818-8358
Fax: (716) 856-0583
Email: TBetzen@turnkeyllc.com

Project Information
Project Name: Scale house topsoil
Project Location: Lockport NY
Project #: 0006-015-001
(Use Project name as Project #): ☒
Project Manager: Tom Forbes
ALPHAQuote #:

Turn-Around Time
Standard: ☒ Due Date:
Rush (only if pre approved): ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
CAT B

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Pest 375 VOC	T. Solids	Pest 375 SVOC	Pest 375 metals	Pest 375 Pest+PCB	Pest 375 PCB	T. Cyanide		Sample Specific Comments	Total Bottle
L1846319 -10	SHT VOC #8	11/12/18	1347	Soil	TAB	X	X								4
-11	SHT VOC #9		1353			X	X								4
-12	SHT COMP #3		1403					X	X	X	X	X			1
-13	SHT VOC #10		1407			X	X								4
-14	SHT VOC #11		1417			X	X								4
-15	SHT COMP #4		1428					X	X	X	X	X			1

ANALYSIS

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	E	P	A	A	A	A	A	A	
Preservative	A	A	A	A	A	A	A	A	

Relinquished By:	Date/Time	Received By:	Date/Time
	11/12/18 1545	AHL-AHL	11/12/18 15:55
JM AHL-AHL	11/12/18 16:45		11/13/18 0105

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1905403
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	SCALE HOUSE TOPSOIL
Project Number:	0006-018-001
Report Date:	02/18/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1905403
Report Date: 02/18/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1905403-01	SCALE HOUSE TOPSOIL NORTHWEST COMP #5	SOIL	LACKAWANNA, NY	02/11/19 09:30	02/11/19
L1905403-02	SCALE HOUSE TOPSOIL SOUTHEAST COMP #6	SOIL	LACKAWANNA, NY	02/11/19 09:40	02/11/19
L1905403-03	SCALE HOUSE TOPSOIL VOC #12-N	SOIL	LACKAWANNA, NY	02/11/19 09:55	02/11/19
L1905403-04	SCALE HOUSE TOPSOIL VOC #13-W	SOIL	LACKAWANNA, NY	02/11/19 10:00	02/11/19
L1905403-05	SCALE HOUSE TOPSOIL VOC #14-S	SOIL	LACKAWANNA, NY	02/11/19 10:10	02/11/19
L1905403-06	SCALE HOUSE TOPSOIL VOC #15-E	SOIL	LACKAWANNA, NY	02/11/19 10:15	02/11/19

Project Name:	SCALE HOUSE TOPSOIL	**Lab Number:**	L1905403
Project Number:	0006-018-001	**Report Date:**	02/18/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	SCALE HOUSE TOPSOIL	**Lab Number:**	L1905403
Project Number:	0006-018-001	**Report Date:**	02/18/19

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L1905403-01 and -02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 02/18/19

ORGANICS

VOLATILES

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1905403
Project Number: 0006-018-001
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-03
Client ID: SCALE HOUSE TOPSOIL VOC #12-N
Sample Location: LACKAWANNA, NY
Date Collected: 02/11/19 09:55
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/14/19 21:22
Analyst: MV
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.4	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.34	1
Tetrachloroethene	ND		ug/kg	0.74	0.29	1
Chlorobenzene	ND		ug/kg	0.74	0.19	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.38	1
1,1,1-Trichloroethane	ND		ug/kg	0.74	0.25	1
Benzene	ND		ug/kg	0.74	0.25	1
Toluene	22		ug/kg	1.5	0.81	1
Ethylbenzene	2.1		ug/kg	1.5	0.21	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1
Trichloroethene	ND		ug/kg	0.74	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.25	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.83	1
o-Xylene	ND		ug/kg	1.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
Acetone	ND		ug/kg	15	7.2	1
2-Butanone	ND		ug/kg	15	3.3	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
n-Propylbenzene	ND		ug/kg	1.5	0.25	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1905403

Project Number: 0006-018-001 **Report Date:** 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-03 Date Collected: 02/11/19 09:55

Client ID: SCALE HOUSE TOPSOIL VOC #12-N Date Received: 02/11/19

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
1,4-Dioxane	ND		ug/kg	150	52.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	96		70-130

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-04
Client ID: SCALE HOUSE TOPSOIL VOC #13-W
Sample Location: LACKAWANNA, NY
Date Collected: 02/11/19 10:00
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/14/19 21:48
Analyst: MV
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	10	4.8	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.30	1
Chloroform	ND		ug/kg	3.1	0.29	1
Carbon tetrachloride	ND		ug/kg	2.1	0.48	1
Tetrachloroethene	ND		ug/kg	1.0	0.41	1
Chlorobenzene	ND		ug/kg	1.0	0.26	1
1,2-Dichloroethane	ND		ug/kg	2.1	0.54	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35	1
Benzene	ND		ug/kg	1.0	0.35	1
Toluene	ND		ug/kg	2.1	1.1	1
Ethylbenzene	ND		ug/kg	2.1	0.29	1
Vinyl chloride	ND		ug/kg	2.1	0.70	1
1,1-Dichloroethene	ND		ug/kg	2.1	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	3.1	0.28	1
Trichloroethene	ND		ug/kg	1.0	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.30	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.31	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.36	1
Methyl tert butyl ether	ND		ug/kg	4.2	0.42	1
p/m-Xylene	ND		ug/kg	4.2	1.2	1
o-Xylene	ND		ug/kg	2.1	0.61	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	0.36	1
Acetone	ND		ug/kg	21	10.	1
2-Butanone	ND		ug/kg	21	4.6	1
n-Butylbenzene	ND		ug/kg	2.1	0.35	1
sec-Butylbenzene	ND		ug/kg	2.1	0.30	1
tert-Butylbenzene	ND		ug/kg	4.2	0.25	1
n-Propylbenzene	ND		ug/kg	2.1	0.36	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1905403

Project Number: 0006-018-001 **Report Date:** 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-04 Date Collected: 02/11/19 10:00

Client ID: SCALE HOUSE TOPSOIL VOC #13-W Date Received: 02/11/19

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.40	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.70	1
1,4-Dioxane	ND		ug/kg	210	73.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1905403
Project Number: 0006-018-001
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-05
Client ID: SCALE HOUSE TOPSOIL VOC #14-S
Sample Location: LACKAWANNA, NY
Date Collected: 02/11/19 10:10
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/14/19 22:14
Analyst: MV
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	12	5.4	1
1,1-Dichloroethane	ND		ug/kg	2.4	0.34	1
Chloroform	ND		ug/kg	3.5	0.33	1
Carbon tetrachloride	ND		ug/kg	2.4	0.54	1
Tetrachloroethene	0.53	J	ug/kg	1.2	0.46	1
Chlorobenzene	ND		ug/kg	1.2	0.30	1
1,2-Dichloroethane	ND		ug/kg	2.4	0.61	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.39	1
Benzene	ND		ug/kg	1.2	0.39	1
Toluene	2.2	J	ug/kg	2.4	1.3	1
Ethylbenzene	ND		ug/kg	2.4	0.33	1
Vinyl chloride	ND		ug/kg	2.4	0.79	1
1,1-Dichloroethene	ND		ug/kg	2.4	0.56	1
trans-1,2-Dichloroethene	ND		ug/kg	3.5	0.32	1
Trichloroethene	ND		ug/kg	1.2	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	0.34	1
1,3-Dichlorobenzene	ND		ug/kg	4.7	0.35	1
1,4-Dichlorobenzene	ND		ug/kg	4.7	0.40	1
Methyl tert butyl ether	ND		ug/kg	4.7	0.47	1
p/m-Xylene	ND		ug/kg	4.7	1.3	1
o-Xylene	ND		ug/kg	2.4	0.69	1
cis-1,2-Dichloroethene	ND		ug/kg	2.4	0.41	1
Acetone	ND		ug/kg	24	11.	1
2-Butanone	ND		ug/kg	24	5.2	1
n-Butylbenzene	ND		ug/kg	2.4	0.39	1
sec-Butylbenzene	ND		ug/kg	2.4	0.34	1
tert-Butylbenzene	ND		ug/kg	4.7	0.28	1
n-Propylbenzene	ND		ug/kg	2.4	0.40	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1905403

Project Number: 0006-018-001 **Report Date:** 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-05 Date Collected: 02/11/19 10:10

Client ID: SCALE HOUSE TOPSOIL VOC #14-S Date Received: 02/11/19

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	4.7	0.46	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.7	0.79	1
1,4-Dioxane	ND		ug/kg	240	83.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1905403

Project Number: 0006-018-001 **Report Date:** 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-06
Client ID: SCALE HOUSE TOPSOIL VOC #15-E
Sample Location: LACKAWANNA, NY

Date Collected: 02/11/19 10:15
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/14/19 22:40
Analyst: MV
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
Tetrachloroethene	ND		ug/kg	0.65	0.25	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.21	1
Toluene	0.89	J	ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
Acetone	ND		ug/kg	13	6.2	1
2-Butanone	ND		ug/kg	13	2.9	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1905403

Project Number: 0006-018-001 **Report Date:** 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-06 Date Collected: 02/11/19 10:15

Client ID: SCALE HOUSE TOPSOIL VOC #15-E Date Received: 02/11/19

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	130	45.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/14/19 20:30
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-06 Batch: WG1207073-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/14/19 20:30
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-06 Batch: WG1207073-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-06 Batch: WG1207073-3 WG1207073-4								
Methylene chloride	85		84		70-130	1		30
1,1-Dichloroethane	94		93		70-130	1		30
Chloroform	89		91		70-130	2		30
Carbon tetrachloride	85		85		70-130	0		30
Tetrachloroethene	92		91		70-130	1		30
Chlorobenzene	90		89		70-130	1		30
1,2-Dichloroethane	96		96		70-130	0		30
1,1,1-Trichloroethane	87		86		70-130	1		30
Benzene	89		88		70-130	1		30
Toluene	94		93		70-130	1		30
Ethylbenzene	94		93		70-130	1		30
Vinyl chloride	93		90		67-130	3		30
1,1-Dichloroethene	88		84		65-135	5		30
trans-1,2-Dichloroethene	86		83		70-130	4		30
Trichloroethene	88		87		70-130	1		30
1,2-Dichlorobenzene	93		93		70-130	0		30
1,3-Dichlorobenzene	93		94		70-130	1		30
1,4-Dichlorobenzene	94		94		70-130	0		30
Methyl tert butyl ether	89		90		66-130	1		30
p/m-Xylene	91		90		70-130	1		30
o-Xylene	90		90		70-130	0		30
cis-1,2-Dichloroethene	86		85		70-130	1		30
Acetone	94		96		54-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-06 Batch: WG1207073-3 WG1207073-4								
2-Butanone	101		103		70-130	2		30
n-Butylbenzene	100		100		70-130	0		30
sec-Butylbenzene	96		97		70-130	1		30
tert-Butylbenzene	92		93		70-130	1		30
n-Propylbenzene	98		97		70-130	1		30
1,3,5-Trimethylbenzene	95		96		70-130	1		30
1,2,4-Trimethylbenzene	95		94		70-130	1		30
1,4-Dioxane	75		80		65-136	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		105		70-130
Toluene-d8	104		105		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	95		96		70-130

SEMIVOLATILES

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-01
Client ID: SCALE HOUSE TOPSOIL NORTHWEST COMP #5
Sample Location: LACKAWANNA, NY

Date Collected: 02/11/19 09:30
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/14/19 19:01
Analyst: SZ
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 02/12/19 14:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	90	J	ug/kg	120	22.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	45	J	ug/kg	120	22.	1
Benzo(a)pyrene	53	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	82	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	55	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	46	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	34	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	48	J	ug/kg	160	27.	1
Pyrene	74	J	ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	200	18.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1905403

Project Number: 0006-018-001 **Report Date:** 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-01 Date Collected: 02/11/19 09:30

Client ID: SCALE HOUSE TOPSOIL NORTHWEST COMP #5 Date Received: 02/11/19

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	66		18-120

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-02
Client ID: SCALE HOUSE TOPSOIL SOUTHEAST COMP #6
Sample Location: LACKAWANNA, NY

Date Collected: 02/11/19 09:40
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/14/19 19:26
Analyst: SZ
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 02/12/19 14:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Fluoranthene	90	J	ug/kg	120	24.	1
Naphthalene	ND		ug/kg	210	25.	1
Benzo(a)anthracene	43	J	ug/kg	120	23.	1
Benzo(a)pyrene	51	J	ug/kg	160	50.	1
Benzo(b)fluoranthene	78	J	ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	55	J	ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	42	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	36	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	41	J	ug/kg	160	29.	1
Pyrene	72	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	160	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1905403

Project Number: 0006-018-001 **Report Date:** 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-02 Date Collected: 02/11/19 09:40

Client ID: SCALE HOUSE TOPSOIL SOUTHEAST COMP #6 Date Received: 02/11/19

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	71		18-120

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/13/19 00:39
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 02/12/19 11:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1205961-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/13/19 00:39
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 02/12/19 11:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1205961-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	79		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1205961-2 WG1205961-3								
Acenaphthene	69		66		31-137	4		50
Hexachlorobenzene	77		76		40-140	1		50
Fluoranthene	76		76		40-140	0		50
Naphthalene	76		72		40-140	5		50
Benzo(a)anthracene	75		74		40-140	1		50
Benzo(a)pyrene	82		80		40-140	2		50
Benzo(b)fluoranthene	78		77		40-140	1		50
Benzo(k)fluoranthene	81		78		40-140	4		50
Chrysene	76		73		40-140	4		50
Acenaphthylene	80		78		40-140	3		50
Anthracene	76		73		40-140	4		50
Benzo(ghi)perylene	82		81		40-140	1		50
Fluorene	72		71		40-140	1		50
Phenanthrene	73		72		40-140	1		50
Dibenzo(a,h)anthracene	78		77		40-140	1		50
Indeno(1,2,3-cd)pyrene	81		80		40-140	1		50
Pyrene	75		75		35-142	0		50
Dibenzofuran	73		71		40-140	3		50
Pentachlorophenol	72		71		17-109	1		50
Phenol	86		79		26-90	8		50
2-Methylphenol	88		82		30-130.	7		50
3-Methylphenol/4-Methylphenol	88		81		30-130	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1905403
Report Date: 02/18/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1205961-2 WG1205961-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	92		81		25-120
Phenol-d6	91		83		10-120
Nitrobenzene-d5	82		75		23-120
2-Fluorobiphenyl	75		73		30-120
2,4,6-Tribromophenol	90		90		10-136
4-Terphenyl-d14	76		77		18-120

PCBS

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1905403
Project Number: 0006-018-001
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-01
Client ID: SCALE HOUSE TOPSOIL NORTHWEST COMP #5
Sample Location: LACKAWANNA, NY

Date Collected: 02/11/19 09:30
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/15/19 22:10
Analyst: WR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 02/12/19 16:46
Cleanup Method: EPA 3665A
Cleanup Date: 02/13/19
Cleanup Method: EPA 3660B
Cleanup Date: 02/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	3.32	1	A
Aroclor 1221	ND		ug/kg	37.4	3.75	1	A
Aroclor 1232	ND		ug/kg	37.4	7.93	1	A
Aroclor 1242	ND		ug/kg	37.4	5.04	1	A
Aroclor 1248	ND		ug/kg	37.4	5.61	1	A
Aroclor 1254	ND		ug/kg	37.4	4.09	1	A
Aroclor 1260	ND		ug/kg	37.4	6.91	1	A
Aroclor 1262	ND		ug/kg	37.4	4.75	1	A
Aroclor 1268	ND		ug/kg	37.4	3.88	1	A
PCBs, Total	ND		ug/kg	37.4	3.32	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-02
Client ID: SCALE HOUSE TOPSOIL SOUTHEAST COMP #6
Sample Location: LACKAWANNA, NY

Date Collected: 02/11/19 09:40
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/15/19 22:23
Analyst: WR
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 02/12/19 16:46
Cleanup Method: EPA 3665A
Cleanup Date: 02/13/19
Cleanup Method: EPA 3660B
Cleanup Date: 02/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.4	3.59	1	A
Aroclor 1221	ND		ug/kg	40.4	4.05	1	A
Aroclor 1232	ND		ug/kg	40.4	8.57	1	A
Aroclor 1242	ND		ug/kg	40.4	5.45	1	A
Aroclor 1248	ND		ug/kg	40.4	6.06	1	A
Aroclor 1254	ND		ug/kg	40.4	4.42	1	A
Aroclor 1260	ND		ug/kg	40.4	7.47	1	A
Aroclor 1262	ND		ug/kg	40.4	5.13	1	A
Aroclor 1268	ND		ug/kg	40.4	4.19	1	A
PCBs, Total	ND		ug/kg	40.4	3.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/13/19 13:35
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 02/12/19 16:46
Cleanup Method: EPA 3665A
Cleanup Date: 02/13/19
Cleanup Method: EPA 3660B
Cleanup Date: 02/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1206049-1						
Aroclor 1016	ND		ug/kg	32.5	2.89	A
Aroclor 1221	ND		ug/kg	32.5	3.26	A
Aroclor 1232	ND		ug/kg	32.5	6.89	A
Aroclor 1242	ND		ug/kg	32.5	4.38	A
Aroclor 1248	ND		ug/kg	32.5	4.88	A
Aroclor 1254	ND		ug/kg	32.5	3.56	A
Aroclor 1260	ND		ug/kg	32.5	6.01	A
Aroclor 1262	ND		ug/kg	32.5	4.13	A
Aroclor 1268	ND		ug/kg	32.5	3.37	A
PCBs, Total	ND		ug/kg	32.5	2.89	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	43		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1206049-2 WG1206049-3									
Aroclor 1016	79		85		40-140	7		50	A
Aroclor 1260	72		79		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		82		30-150	A
Decachlorobiphenyl	69		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		77		30-150	B
Decachlorobiphenyl	44		48		30-150	B

PESTICIDES

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-01
Client ID: SCALE HOUSE TOPSOIL NORTHWEST COMP #5
Sample Location: LACKAWANNA, NY

Date Collected: 02/11/19 09:30
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/14/19 11:40
Analyst: KEG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 02/12/19 19:27
Cleanup Method: EPA 3620B
Cleanup Date: 02/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.749	0.335	1	A
Alpha-BHC	ND		ug/kg	0.749	0.213	1	A
Beta-BHC	ND		ug/kg	1.80	0.682	1	A
Heptachlor	ND		ug/kg	0.899	0.403	1	A
Aldrin	ND		ug/kg	1.80	0.633	1	A
Endrin	ND		ug/kg	0.749	0.307	1	A
Dieldrin	ND		ug/kg	1.12	0.562	1	A
4,4'-DDE	16.1		ug/kg	1.80	0.416	1	B
4,4'-DDD	1.91		ug/kg	1.80	0.641	1	B
4,4'-DDT	17.0		ug/kg	3.37	1.45	1	B
Endosulfan I	ND		ug/kg	1.80	0.425	1	A
Endosulfan II	ND		ug/kg	1.80	0.601	1	A
Endosulfan sulfate	ND		ug/kg	0.749	0.357	1	A
cis-Chlordane	ND		ug/kg	2.25	0.626	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	93		30-150	A

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-01
Client ID: SCALE HOUSE TOPSOIL NORTHWEST COMP #5
Sample Location: LACKAWANNA, NY

Date Collected: 02/11/19 09:30
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 02/14/19 11:15
Analyst: DGM
Percent Solids: 84%
Methylation Date: 02/13/19 22:52

Extraction Method: EPA 8151A
Extraction Date: 02/12/19 15:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	195	5.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**154**	Q	30-150	A
DCAA	106		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1905403
Project Number: 0006-018-001
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-02
Client ID: SCALE HOUSE TOPSOIL SOUTHEAST COMP #6
Sample Location: LACKAWANNA, NY

Date Collected: 02/11/19 09:40
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/14/19 11:53
Analyst: KEG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 02/12/19 19:27
Cleanup Method: EPA 3620B
Cleanup Date: 02/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.378	1	A
Lindane	ND		ug/kg	0.803	0.359	1	A
Alpha-BHC	ND		ug/kg	0.803	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.731	1	A
Heptachlor	ND		ug/kg	0.964	0.432	1	A
Aldrin	ND		ug/kg	1.93	0.679	1	A
Endrin	ND		ug/kg	0.803	0.329	1	A
Dieldrin	ND		ug/kg	1.20	0.602	1	A
4,4'-DDE	14.9		ug/kg	1.93	0.446	1	B
4,4'-DDD	3.57	P	ug/kg	1.93	0.688	1	A
4,4'-DDT	13.5		ug/kg	3.61	1.55	1	B
Endosulfan I	ND		ug/kg	1.93	0.455	1	A
Endosulfan II	ND		ug/kg	1.93	0.644	1	A
Endosulfan sulfate	ND		ug/kg	0.803	0.382	1	A
cis-Chlordane	ND		ug/kg	2.41	0.672	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-02
Client ID: SCALE HOUSE TOPSOIL SOUTHEAST COMP #6
Sample Location: LACKAWANNA, NY

Date Collected: 02/11/19 09:40
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 02/14/19 11:34
Analyst: DGM
Percent Solids: 80%
Methylation Date: 02/13/19 22:52

Extraction Method: EPA 8151A
Extraction Date: 02/12/19 15:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	208	5.53	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	149		30-150	A
DCAA	93		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 02/14/19 10:18
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 02/12/19 15:14

Methylation Date: 02/13/19 22:52

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1206027-1						
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	105		30-150	B

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/14/19 11:02
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 02/12/19 19:27
Cleanup Method: EPA 3620B
Cleanup Date: 02/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1206086-1						
Delta-BHC	ND		ug/kg	1.54	0.302	A
Lindane	ND		ug/kg	0.642	0.287	A
Alpha-BHC	ND		ug/kg	0.642	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.584	A
Heptachlor	ND		ug/kg	0.770	0.345	A
Aldrin	ND		ug/kg	1.54	0.542	A
Endrin	ND		ug/kg	0.642	0.263	A
Dieldrin	ND		ug/kg	0.963	0.481	A
4,4'-DDE	ND		ug/kg	1.54	0.356	A
4,4'-DDD	ND		ug/kg	1.54	0.549	A
4,4'-DDT	ND		ug/kg	2.89	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.364	A
Endosulfan II	ND		ug/kg	1.54	0.515	A
Endosulfan sulfate	ND		ug/kg	0.642	0.306	A
cis-Chlordane	ND		ug/kg	1.92	0.536	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	97		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1206027-2 WG1206027-3									
2,4,5-TP (Silvex)	95		86		30-150	10		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	107		93		30-150	A
DCAA	115		104		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1206086-2 WG1206086-3									
Delta-BHC	104		87		30-150	18		30	A
Lindane	103		87		30-150	17		30	A
Alpha-BHC	106		89		30-150	17		30	A
Beta-BHC	105		86		30-150	20		30	A
Heptachlor	112		94		30-150	17		30	A
Aldrin	105		83		30-150	23		30	A
Endrin	118		97		30-150	20		30	A
Dieldrin	116		93		30-150	22		30	A
4,4'-DDE	101		83		30-150	20		30	A
4,4'-DDD	109		89		30-150	20		30	A
4,4'-DDT	116		93		30-150	22		30	A
Endosulfan I	107		85		30-150	23		30	A
Endosulfan II	112		92		30-150	20		30	A
Endosulfan sulfate	116		87		30-150	29		30	A
cis-Chlordane	97		73		30-150	28		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		76		30-150	B
Decachlorobiphenyl	113		95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		75		30-150	A
Decachlorobiphenyl	114		87		30-150	A

METALS

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1905403
Project Number: 0006-018-001
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-01
Client ID: SCALE HOUSE TOPSOIL NORTHWEST
Sample Location: COMP #5 LACKAWANNA, NY
Sample Depth:
Matrix: Soil
Percent Solids: 84%

Date Collected: 02/11/19 09:30
Date Received: 02/11/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8200		mg/kg	9.28	2.51	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Antimony, Total	1.24	J	mg/kg	4.64	0.353	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Arsenic, Total	9.68		mg/kg	0.928	0.193	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Barium, Total	64.7		mg/kg	0.928	0.162	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Beryllium, Total	0.511		mg/kg	0.464	0.031	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Cadmium, Total	0.167	J	mg/kg	0.928	0.091	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Calcium, Total	7920		mg/kg	9.28	3.25	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Chromium, Total	11.0		mg/kg	0.928	0.089	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Cobalt, Total	6.52		mg/kg	1.86	0.154	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Copper, Total	16.1		mg/kg	0.928	0.240	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Iron, Total	19300		mg/kg	4.64	0.838	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Lead, Total	20.0		mg/kg	4.64	0.249	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Magnesium, Total	2310		mg/kg	9.28	1.43	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Manganese, Total	362		mg/kg	0.928	0.148	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Mercury, Total	0.084		mg/kg	0.074	0.016	1	02/13/19 03:00	02/13/19 15:43	EPA 7471B	1,7471B	GD
Nickel, Total	19.5		mg/kg	2.32	0.225	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Potassium, Total	441		mg/kg	232	13.4	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Selenium, Total	1.05	J	mg/kg	1.86	0.240	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.928	0.263	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Sodium, Total	48.9	J	mg/kg	186	2.92	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.86	0.292	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Vanadium, Total	21.3		mg/kg	0.928	0.188	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC
Zinc, Total	79.0		mg/kg	4.64	0.272	2	02/13/19 17:45	02/14/19 00:34	EPA 3050B	1,6010D	MC

Project Name: SCALE HOUSE TOPSOIL
Lab Number: L1905403
Project Number: 0006-018-001
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-02
Client ID: SCALE HOUSE TOPSOIL SOUTHEAST
Sample Location: COMP #6 LACKAWANNA, NY
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 02/11/19 09:40
Date Received: 02/11/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8050		mg/kg	9.57	2.58	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Antimony, Total	1.66	J	mg/kg	4.78	0.364	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Arsenic, Total	14.9		mg/kg	0.957	0.199	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Barium, Total	51.1		mg/kg	0.957	0.166	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Beryllium, Total	0.536		mg/kg	0.478	0.032	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.957	0.094	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Calcium, Total	3140		mg/kg	9.57	3.35	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Chromium, Total	11.9		mg/kg	0.957	0.092	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Cobalt, Total	7.97		mg/kg	1.91	0.159	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Copper, Total	24.4		mg/kg	0.957	0.247	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Iron, Total	23400		mg/kg	4.78	0.864	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Lead, Total	18.1		mg/kg	4.78	0.256	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Magnesium, Total	2360		mg/kg	9.57	1.47	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Manganese, Total	287		mg/kg	0.957	0.152	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Mercury, Total	0.071	J	mg/kg	0.079	0.017	1	02/13/19 03:00	02/13/19 15:45	EPA 7471B	1,7471B	GD
Nickel, Total	20.3		mg/kg	2.39	0.232	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Potassium, Total	479		mg/kg	239	13.8	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Selenium, Total	1.01	J	mg/kg	1.91	0.247	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.957	0.271	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Sodium, Total	51.7	J	mg/kg	191	3.01	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.91	0.301	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Vanadium, Total	23.9		mg/kg	0.957	0.194	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC
Zinc, Total	83.0		mg/kg	4.78	0.280	2	02/13/19 17:45	02/14/19 00:38	EPA 3050B	1,6010D	MC

Project Name: SCALE HOUSE TOPSOIL **Lab Number:** L1905403

Project Number: 0006-018-001 **Report Date:** 02/18/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1206100-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	02/13/19 03:00	02/13/19 14:56	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1206355-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Antimony, Total	ND		mg/kg	2.00	0.152	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Barium, Total	ND		mg/kg	0.400	0.070	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Calcium, Total	ND		mg/kg	4.00	1.40	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Chromium, Total	ND		mg/kg	0.400	0.038	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Copper, Total	ND		mg/kg	0.400	0.103	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Iron, Total	ND		mg/kg	2.00	0.361	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Lead, Total	ND		mg/kg	2.00	0.107	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Manganese, Total	ND		mg/kg	0.400	0.064	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Nickel, Total	ND		mg/kg	1.00	0.097	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Potassium, Total	ND		mg/kg	100	5.76	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Selenium, Total	ND		mg/kg	0.800	0.103	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Silver, Total	ND		mg/kg	0.400	0.113	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Sodium, Total	9.18	J	mg/kg	80.0	1.26	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Thallium, Total	ND		mg/kg	0.800	0.126	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC
Zinc, Total	ND		mg/kg	2.00	0.117	1	02/13/19 17:45	02/13/19 22:42	1,6010D	MC

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1206100-2 SRM Lot Number: D101-540								
Mercury, Total	101		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1206355-2 SRM Lot Number: D101-540					
Aluminum, Total	61	-	50-151	-	
Antimony, Total	148	-	3-196	-	
Arsenic, Total	90	-	83-117	-	
Barium, Total	86	-	83-118	-	
Beryllium, Total	96	-	83-117	-	
Cadmium, Total	92	-	83-117	-	
Calcium, Total	95	-	81-119	-	
Chromium, Total	87	-	81-118	-	
Cobalt, Total	92	-	84-116	-	
Copper, Total	87	-	83-116	-	
Iron, Total	77	-	62-138	-	
Lead, Total	86	-	83-117	-	
Magnesium, Total	79	-	76-124	-	
Manganese, Total	85	-	82-118	-	
Nickel, Total	92	-	82-117	-	
Potassium, Total	82	-	71-130	-	
Selenium, Total	91	-	79-121	-	
Silver, Total	85	-	80-120	-	
Sodium, Total	104	-	72-127	-	
Thallium, Total	92	-	81-119	-	
Vanadium, Total	84	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1206355-2 SRM Lot Number: D101-540					
Zinc, Total	90	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1905403
Report Date: 02/18/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1206100-3 QC Sample: L1905389-01 Client ID: MS Sample												
Mercury, Total	0.049J	0.142	0.238	**167**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1905403
Report Date: 02/18/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1206355-3 QC Sample: L1905333-01 Client ID: MS Sample										
Aluminum, Total	1570	235	2490	**392**	Q	-	-	75-125	-	20
Antimony, Total	ND	58.7	56.3	96		-	-	75-125	-	20
Arsenic, Total	1.63	14.1	16.6	106		-	-	75-125	-	20
Barium, Total	6.11	235	226	94		-	-	75-125	-	20
Beryllium, Total	0.174J	5.87	6.01	102		-	-	75-125	-	20
Cadmium, Total	ND	5.99	5.81	97		-	-	75-125	-	20
Calcium, Total	362	1170	1550	101		-	-	75-125	-	20
Chromium, Total	8.96	23.5	35.0	111		-	-	75-125	-	20
Cobalt, Total	0.617J	58.7	56.0	95		-	-	75-125	-	20
Copper, Total	0.943J	29.3	28.2	96		-	-	75-125	-	20
Iron, Total	5240	117	7170	**1640**	Q	-	-	75-125	-	20
Lead, Total	2.34J	59.9	61.4	102		-	-	75-125	-	20
Magnesium, Total	424	1170	1740	112		-	-	75-125	-	20
Manganese, Total	7.61	58.7	62.6	94		-	-	75-125	-	20
Nickel, Total	1.23J	58.7	57.6	98		-	-	75-125	-	20
Potassium, Total	558	1170	1920	116		-	-	75-125	-	20
Selenium, Total	0.535J	14.1	14.3	102		-	-	75-125	-	20
Silver, Total	ND	35.2	36.2	103		-	-	75-125	-	20
Sodium, Total	717	1170	1990	108		-	-	75-125	-	20
Thallium, Total	ND	14.1	13.6	96		-	-	75-125	-	20
Vanadium, Total	11.2	58.7	70.0	100		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1905403
Report Date: 02/18/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1206355-3 QC Sample: L1905333-01 Client ID: MS Sample									
Zinc, Total	7.36	58.7	68.7	104	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1206100-4 QC Sample: L1905389-01 Client ID: DUP Sample						
Mercury, Total	0.049J	0.059J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1206355-4 QC Sample: L1905333-01 Client ID: DUP Sample						
Aluminum, Total	1570	1830	mg/kg	15		20
Antimony, Total	ND	0.650J	mg/kg	NC		20
Arsenic, Total	1.63	2.26	mg/kg	**32**	Q	20
Barium, Total	6.11	7.43	mg/kg	19		20
Beryllium, Total	0.174J	0.285J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	362	611	mg/kg	**51**	Q	20
Chromium, Total	8.96	9.59	mg/kg	7		20
Cobalt, Total	0.617J	0.799J	mg/kg	NC		20
Copper, Total	0.943J	1.58	mg/kg	NC		20
Iron, Total	5240	10700	mg/kg	**69**	Q	20
Lead, Total	2.34J	2.61J	mg/kg	NC		20
Magnesium, Total	424	476	mg/kg	12		20
Manganese, Total	7.61	8.71	mg/kg	13		20
Nickel, Total	1.23J	1.43J	mg/kg	NC		20
Potassium, Total	558	569	mg/kg	2		20
Selenium, Total	0.535J	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	717	1050	mg/kg	**38**	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1206355-4 QC Sample: L1905333-01 Client ID: DUP Sample						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	11.2	13.3	mg/kg	17		20
Zinc, Total	7.36	9.66	mg/kg	**27**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-01
Client ID: SCALE HOUSE TOPSOIL NORTHWEST COMP #5
Sample Location: LACKAWANNA, NY
Sample Depth:
Matrix: Soil
Date Collected: 02/11/19 09:30
Date Received: 02/11/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	02/12/19 06:43	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	02/12/19 12:00	02/12/19 14:17	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.950	0.190	1	02/12/19 17:15	02/13/19 11:36	1,7196A	NH

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-02
Client ID: SCALE HOUSE TOPSOIL SOUTHEAST COMP #6
Sample Location: LACKAWANNA, NY
Date Collected: 02/11/19 09:40
Date Received: 02/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	02/12/19 06:43	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	02/12/19 12:00	02/12/19 14:18	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.00	0.201	1	02/12/19 17:15	02/13/19 11:36	1,7196A	NH

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-03
Client ID: SCALE HOUSE TOPSOIL VOC #12-N
Sample Location: LACKAWANNA, NY
Sample Depth:
Matrix: Soil
Date Collected: 02/11/19 09:55
Date Received: 02/11/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	02/12/19 06:43	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-04
Client ID: SCALE HOUSE TOPSOIL VOC #13-W
Sample Location: LACKAWANNA, NY
Sample Depth:
Matrix: Soil
Date Collected: 02/11/19 10:00
Date Received: 02/11/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	02/12/19 06:43	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-05
Client ID: SCALE HOUSE TOPSOIL VOC #14-S
Sample Location: LACKAWANNA, NY
Sample Depth:
Matrix: Soil
Date Collected: 02/11/19 10:10
Date Received: 02/11/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.5		%	0.100	NA	1	-	02/12/19 06:43	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

SAMPLE RESULTS

Lab ID: L1905403-06
Client ID: SCALE HOUSE TOPSOIL VOC #15-E
Sample Location: LACKAWANNA, NY
Sample Depth:
Matrix: Soil
Date Collected: 02/11/19 10:15
Date Received: 02/11/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	02/12/19 06:43	121,2540G	RI

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001
Lab Number: L1905403
Report Date: 02/18/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1205946-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	02/12/19 12:00	02/12/19 14:06	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1206077-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	02/12/19 17:15	02/13/19 11:36	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1205946-2 WG1205946-3								
Cyanide, Total	87		84		80-120	1		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1206077-2								
Chromium, Hexavalent	86		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1905403
Report Date: 02/18/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1205946-4 WG1205946-5 QC Sample: L1905474-01 Client ID: MS Sample												
Cyanide, Total	ND	11	10	90		10	90		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1206077-4 QC Sample: L1905403-02 Client ID: SCALE HOUSE TOPSOIL SOUTHEAST COMP #6												
Chromium, Hexavalent	ND	970	746	77		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCALE HOUSE TOPSOIL

Project Number: 0006-018-001

Lab Number: L1905403

Report Date: 02/18/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1205818-1 QC Sample: L1905389-01 Client ID: DUP Sample						
Solids, Total	87.9	87.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1206077-6 QC Sample: L1905403-02 Client ID: SCALE HOUSE TOPSOIL SOUTHEAST COMP #6						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1905403
Report Date: 02/18/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1905403-01A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1905403-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1905403-01C	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1905403-01D	Glass 500ml/16oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1905403-02A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1905403-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1905403-02C	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1905403-02D	Glass 500ml/16oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1905403-03A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-03B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-03C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-03D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1905403-03X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-03Y	Vial Water preserved split	A	NA		3.8	Y	Absent	12-FEB-19 07:45	NYTCL-8260HLW-R2(14)
L1905403-03Z	Vial Water preserved split	A	NA		3.8	Y	Absent	12-FEB-19 07:45	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: SCALE HOUSE TOPSOIL
Project Number: 0006-018-001

Lab Number: L1905403
Report Date: 02/18/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1905403-04A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-04B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-04C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-04D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1905403-04X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-04Y	Vial Water preserved split	A	NA		3.8	Y	Absent	12-FEB-19 07:45	NYTCL-8260HLW-R2(14)
L1905403-04Z	Vial Water preserved split	A	NA		3.8	Y	Absent	12-FEB-19 07:45	NYTCL-8260HLW-R2(14)
L1905403-05A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-05B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-05C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-05D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1905403-05X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-05Y	Vial Water preserved split	A	NA		3.8	Y	Absent	12-FEB-19 07:45	NYTCL-8260HLW-R2(14)
L1905403-05Z	Vial Water preserved split	A	NA		3.8	Y	Absent	12-FEB-19 07:45	NYTCL-8260HLW-R2(14)
L1905403-06A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-06B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-06C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-06D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1905403-06X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1905403-06Y	Vial Water preserved split	A	NA		3.8	Y	Absent	12-FEB-19 07:45	NYTCL-8260HLW-R2(14)
L1905403-06Z	Vial Water preserved split	A	NA		3.8	Y	Absent	12-FEB-19 07:45	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	SCALE HOUSE TOPSOIL	**Lab Number:**	L1905403
Project Number:	0006-018-001	**Report Date:**	02/18/19

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total'

result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	SCALE HOUSE TOPSOIL	**Lab Number:**	L1905403
Project Number:	0006-018-001	**Report Date:**	02/18/19

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 2/12/19

ALPHA Job #: L1905403

Client Information

Client: Turney Env Restoration, LLC
Address: 1558 Hamburg Turnpike
Buffalo NY 14218
Phone: 716-856-0599
Fax:
Email:

Project Information

Project Name: Scale House Topsoil
Project Location: Lackawanna, NY
Project #: 0006-018-001
(Use Project name as Project #) ☑
Project Manager: Tom Forbes
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAT "B" Deliverables

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375 VOC +TICs	Part 375 SVOC +TICs	PCBs HWB RCS	Part 375 TCL Pest for CCR	Herb CCR	TCL Solids			Sample Specific Comments
05403-01	Scale House Topsoil Comp #5	2/11/19	0930	S	RLD		V	V	V	V	V			
02	Scale House Topsoil South East Comp #6	2/11/19	0940	S	RLD		V	V	V	V	V			
03	Scale House Topsoil VOC # 12		0935	S	RLD	V					V			
04	Scale House Topsoil VOC # 13		1000	S		V					V			
05	Scale House Topsoil VOC # 14		1010	S		V					V			
06	Scale House Topsoil VOC # 15		1015	S		V					V			

Container Type	E	A	A	A	A	P		
Preservative	A	A	A	A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
JM AL AAL	2/11/19 13:20	JM AL AAL	2/11/19 13:20
AAL	2/11/19 14:40		2/12/19 0805

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

GRANULAR MATERIALS DOCUMENTATION FORM

ORIGINATOR:	Region 5	SOURCE NAME:	Gernatt - Middle Road
CONTRACT:	NA	SOURCE #:	2997
PIN:	NA	USGS LOCATION:	18-8-E-20
PROJECT:	NA	TOWNSHIP:	Concord
SAMPLED BY:	M. Ryan	COUNTY:	Erie
DATE:	6/22/2018		

STOCKPILE #: Future Source Evaluation NSM
ITEM: 203.21 203.07
ESTIMATED QTY: CM 0 CY
TIER:
CASE:

TEST RESULTS

GEB SAMPLE #:			5-2936G-79			
REG. SAMPLE #:			PIT-A			
GRADATION						
SIEVE SIZES	100.0mm	4"	100			
	75.0mm	3"	100			
	50.0mm	2"	90			
	37.5mm	1 ½"	--			
	25.0mm	1"	75			
	19.0mm	¾"	68			
	12.5mm	½"	58			
	6.30mm	¼"	42			
	2.00mm	#10	24			
	0.850mm	#20	15			
	0.425mm	#40	10			
	0.150mm	#100	6			
	0.075mm	#200	5			
% PASSING BY WEIGHT						
QUALITY		Avg				
Soundness (% Loss)		11	11			
Plasticity Index		--	NP		--	--
pH			8.8		--	--

☑ ACCEPTED: MATERIAL MEETS ALL SPECIFICATION REQUIREMENTS
☐ REJECTED: MATERIAL FAILS TO MEET SPECIFICATION REQUIREMENTS

Comments: For the year 2018 material from this source has a maximum magnesium sulfate soundness loss of 32 and maximum plasticity index of 5. Recommended monitoring every 3 week(s) 2 samples.

NAME: Todd Nelson Greg Khanlip

SIGNATURE: (Designee)

TITLE: Regional Geotechnical Engineer (or designee)

DATE: August 10, 2018

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GRANULAR MATERIALS DOCUMENTATION FORM

ORIGINATOR:	Region 5	SOURCE NAME:	County Line Stone
CONTRACT:	N.P.S.	SOURCE #:	2908
PIN:	NA	USGS LOCATION:	23-1-I-12
PROJECT:	NA	TOWNSHIP:	Newstead
SAMPLED BY:	M. Ryan	COUNTY:	Erie
DATE:	9/12/2018		

STOCKPILE #: 18-07
ITEM: 304.12
ESTIMATED QTY: 3386 CM 4428 CY
TIER: 2
CASE: B

TEST RESULTS

GEB SAMPLE #:			NA	NA	NA	NA
REG. SAMPLE #:			2908-18-07-A	2908-18-07-B	2908-18-07-C	2908-18-07-D
GRADATION			North	South	East	West
SIEVE SIZES	100.0mm	4"	100	100	100	100
	75.0mm	3"	100	100	100	100
	50.0mm	2"	100	100	100	100
	37.5mm	1½"	98	95	97	96
	25.0mm	1"	82	69	75	73
	19.0mm	¾"	73	52	62	61
	12.5mm	½"	57	38	49	48
	6.30mm	¼"	41	27	35	34
	2.00mm	#10	25	19	20	18
	0.850mm	#20	15	12	13	11
	0.425mm	#40	10	9	10	8
	0.150mm	#100	7	6	7	6
	0.075mm	#200	6	5	6	5
% PASSING BY WEIGHT						
QUALITY		AVE				
Soundness (% Loss)						
Plasticity Index		--				
pH						

☑ ACCEPTED: MATERIAL MEETS ALL SPECIFICATION REQUIREMENTS
☐ REJECTED: MATERIAL FAILS TO MEET SPECIFICATION REQUIREMENTS

Comments: Non-Project Specific

NAME: Todd Nelson Greg Khavlip
SIGNATURE: (designee)
TITLE: Regional Geotechnical Engineer (or designee)
DATE: September 14, 2018

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APPENDIX C

CAMP Air Monitoring Data

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	8:08:38 AM	
Test Start Date	12/4/2018	
Test Length [D:H:M]	0:06:15	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.006	
Mass Minimum [mg/m3]	0.003	
Mass Maximum [mg/m3]	0.014	
Mass TWA [mg/m3]	0.005	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	25	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.012		
1800	0.003		
2700	0.003		
3600	0.005		
4500	0.006		
5400	0.005		
6300	0.004		
7200	0.005		
8100	0.005		
9000	0.006		
9900	0.006		
10800	0.006		
11700	0.006		
12600	0.01		
13500	0.014		
14400	0.005		
15300	0.006		
16200	0.005		
17100	0.004		
18000	0.005		
18900	0.005		
19800	0.005		
20700	0.007		
21600	0.005		
22500	0.007		

Instrument Name	DustTrak II	Instrument ID	
Model Number	8530		54
Serial Number	8530092510		
Firmware Version	3.7		
Calibration Date	5/24/2016		
Test Name	MANUAL_001		
Test Start Time	8:35:26 AM		
Test Start Date	12/4/2018		
Test Length [D:H:M]	0:06:00		
Test Interval [M:S]	15:00		
Mass Average [mg/m3]	0.004		
Mass Minimum [mg/m3]	0		
Mass Maximum [mg/m3]	0.03		
Mass TWA [mg/m3]	0.003		
Photometric User Cal	1		
Flow User Cal	0		
Errors			
Number of Samples	24		

Elapsed Time [s]	Mass [mg/m3]	Mass [ug/m3]	Alarms	Errors
900	0.001			
1800	0			
2700	0.001			
3600	0			
4500	0.003			
5400	0.004			
6300	0.004			
7200	0.004			
8100	0.004			
9000	0.003			
9900	0.004			
10800	0.012			
11700	0.001			
12600	0.03			
13500	0.003			
14400	0.001			
15300	0.001			
16200	0.002			
17100	0.001			
18000	0			
18900	0.001			
19800	0.001			
20700	0.001			
21600	0.002			

Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	8:38:49 AM	
Test Start Date	12/4/2018	
Test Length [D:H:M]	0:06:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.007	
Mass Minimum [mg/m3]	0.003	
Mass Maximum [mg/m3]	0.009	
Mass TWA [mg/m3]	0.005	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	24	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.003		
1800	0.004		
2700	0.005		
3600	0.007		
4500	0.006		
5400	0.007		
6300	0.006		
7200	0.007		
8100	0.006		
9000	0.007		
9900	0.007		
10800	0.008		
11700	0.008		
12600	0.008		
13500	0.008		
14400	0.008		
15300	0.008		
16200	0.009		
17100	0.008		
18000	0.008		
18900	0.009		
19800	0.008		
20700	0.008		
21600	0.009		

Instrument Name	DustTrak II	82	BG
Model Number	8530		
Serial Number	8530172023		
Firmware Version	3.7		
Calibration Date	7/26/2018		
Test Name	MANUAL_002		
Test Start Time	9:37:11 AM		
Test Start Date	12/5/2018		
Test Length [D:H:M]	0:04:45		
Test Interval [M:S]	15:00		
Mass Average [mg/m3]	0.016		
Mass Minimum [mg/m3]	0.009		
Mass Maximum [mg/m3]	0.037		
Mass TWA [mg/m3]	0.01		
Photometric User Cal	1		
Flow User Cal	0		
Errors			
Number of Samples	19		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.022		
1800	0.02		
2700	0.021		
3600	0.02		
4500	0.019		
5400	0.014		
6300	0.015		
7200	0.015		
8100	0.011		
9000	0.037		
9900	0.014		
10800	0.016		
11700	0.012		
12600	0.016		
13500	0.011		
14400	0.015		
15300	0.01		
16200	0.009		
17100	0.013		

Instrument Name	DustTrak II	54 UW
Model Number	8530	
Serial Number	8530092510	
Firmware Version	3.7	
Calibration Date	5/24/2016	
Test Name	MANUAL_002	
Test Start Time	9:40:43 AM	
Test Start Date	12/5/2018	
Test Length [D:H:M]	0:04:30	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.014	
Mass Minimum [mg/m3]	0.006	
Mass Maximum [mg/m3]	0.041	
Mass TWA [mg/m3]	0.008	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	18	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.041		
1800	0.022		
2700	0.02		
3600	0.019		
4500	0.013		
5400	0.012		
6300	0.01		
7200	0.009		
8100	0.008		
9000	0.011		
9900	0.011		
10800	0.01		
11700	0.01		
12600	0.025		
13500	0.009		
14400	0.007		
15300	0.006		
16200	0.006		

Instrument Name	DustTrak II	82 DW
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_002	
Test Start Time	9:44:38 AM	
Test Start Date	12/5/2018	
Test Length [D:H:M]	0:04:30	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.023	
Mass Minimum [mg/m3]	0.013	
Mass Maximum [mg/m3]	0.059	
Mass TWA [mg/m3]	0.013	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	18	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.028		
1800	0.038		
2700	0.059		
3600	0.038		
4500	0.021		
5400	0.024		
6300	0.016		
7200	0.014		
8100	0.017		
9000	0.018		
9900	0.017		
10800	0.022		
11700	0.02		
12600	0.027		
13500	0.015		
14400	0.013		
15300	0.013		
16200	0.013		

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	7:56:39 AM	
Test Start Date	12/7/2018	
Test Length [D:H:M]	0:06:30	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.004	
Mass Minimum [mg/m3]	0.001	
Mass Maximum [mg/m3]	0.011	
Mass TWA [mg/m3]	0.003	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	26	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.001		
1800	0.001		
2700	0.002		
3600	0.002		
4500	0.003		
5400	0.003		
6300	0.003		
7200	0.003		
8100	0.004		
9000	0.003		
9900	0.004		
10800	0.005		
11700	0.003		
12600	0.003		
13500	0.004		
14400	0.004		
15300	0.003		
16200	0.003		
17100	0.006		
18000	0.004		
18900	0.004		
19800	0.011		
20700	0.005		
21600	0.003		
22500	0.003		
23400	0.003		

Instrument Name	DustTrak II	54
Model Number	8530	
Serial Number	8530092510	
Firmware Version	3.7	
Calibration Date	5/24/2016	
Test Name	MANUAL_001	
Test Start Time	8:10:27 AM	
Test Start Date	12/7/2018	
Test Length [D:H:M]	0:06:15	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0	
Mass Minimum [mg/m3]	0	
Mass Maximum [mg/m3]	0.002	
Mass TWA [mg/m3]	0	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	25	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.001		
1800	0.001		
2700	0		
3600	0.001		
4500	0		
5400	0		
6300	0		
7200	0		
8100	0		
9000	0.001		
9900	0.002		
10800	0		
11700	0		
12600	0		
13500	0		
14400	0		
15300	0		
16200	0.001		
17100	0		
18000	0		
18900	0.001		
19800	0		
20700	0		
21600	0		
22500	0		

Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	8:13:00 AM	
Test Start Date	12/7/2018	
Test Length [D:H:M]	0:06:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.017	
Mass Minimum [mg/m3]	0.006	
Mass Maximum [mg/m3]	0.077	
Mass TWA [mg/m3]	0.013	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	24	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.006		
1800	0.008		
2700	0.007		
3600	0.008		
4500	0.007		
5400	0.007		
6300	0.007		
7200	0.007		
8100	0.008		
9000	0.013		
9900	0.011		
10800	0.009		
11700	0.009		
12600	0.008		
13500	0.009		
14400	0.014		
15300	0.024		
16200	0.015		
17100	0.01		
18000	0.012		
18900	0.068		
19800	0.077		
20700	0.05		
21600	0.012		

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	8:26:07 AM	
Test Start Date	12/10/2018	
Test Length [D:H:M]	0:06:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.049	
Mass Minimum [mg/m3]	0.046	
Mass Maximum [mg/m3]	0.054	
Mass TWA [mg/m3]	0.037	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	24	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.054		
1800	0.05		
2700	0.05		
3600	0.05		
4500	0.049		
5400	0.053		
6300	0.049		
7200	0.047		
8100	0.047		
9000	0.046		
9900	0.047		
10800	0.046		
11700	0.049		
12600	0.047		
13500	0.05		
14400	0.049		
15300	0.049		
16200	0.053		
17100	0.051		
18000	0.052		
18900	0.052		
19800	0.049		
20700	0.049		
21600	0.047		

Instrument Name	DustTrak II	54
Model Number	8530	
Serial Number	8530092510	
Firmware Version	3.7	
Calibration Date	5/24/2016	
Test Name	MANUAL_001	
Test Start Time	8:43:50 AM	
Test Start Date	12/10/2018	
Test Length [D:H:M]	0:05:30	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.041	
Mass Minimum [mg/m3]	0.039	
Mass Maximum [mg/m3]	0.045	
Mass TWA [mg/m3]	0.028	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	22	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.044		
1800	0.043		
2700	0.043		
3600	0.042		
4500	0.043		
5400	0.041		
6300	0.04		
7200	0.039		
8100	0.039		
9000	0.04		
9900	0.04		
10800	0.04		
11700	0.039		
12600	0.04		
13500	0.04		
14400	0.04		
15300	0.041		
16200	0.045		
17100	0.044		
18000	0.042		
18900	0.041		
19800	0.041		

Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	8:47:21 AM	
Test Start Date	12/10/2018	
Test Length [D:H:M]	0:05:30	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.058	
Mass Minimum [mg/m3]	0.048	
Mass Maximum [mg/m3]	0.094	
Mass TWA [mg/m3]	0.04	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	22	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.048		
1800	0.06		
2700	0.049		
3600	0.049		
4500	0.05		
5400	0.048		
6300	0.063		
7200	0.06		
8100	0.061		
9000	0.05		
9900	0.064		
10800	0.063		
11700	0.054		
12600	0.094		
13500	0.08		
14400	0.049		
15300	0.05		
16200	0.055		
17100	0.052		
18000	0.053		
18900	0.079		
19800	0.051		

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	8:07:32 AM	
Test Start Date	12/11/2018	
Test Length [D:H:M]	0:06:30	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.071	
Mass Minimum [mg/m3]	0.051	
Mass Maximum [mg/m3]	0.096	
Mass TWA [mg/m3]	0.058	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	26	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.052		
1800	0.051		
2700	0.052		
3600	0.055		
4500	0.058		
5400	0.061		
6300	0.064		
7200	0.066		
8100	0.068		
9000	0.069		
9900	0.065		
10800	0.065		
11700	0.069		
12600	0.069		
13500	0.07		
14400	0.096		
15300	0.08		
16200	0.076		
17100	0.087		
18000	0.079		
18900	0.08		
19800	0.082		
20700	0.083		
21600	0.084		
22500	0.083		
23400	0.082		

Instrument Name	DustTrak II	54
Model Number	8530	
Serial Number	8530092510	
Firmware Version	3.7	
Calibration Date	5/24/2016	
Test Name	MANUAL_001	
Test Start Time	8:21:16 AM	
Test Start Date	12/11/2018	
Test Length [D:H:M]	0:06:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.065	
Mass Minimum [mg/m3]	0.053	
Mass Maximum [mg/m3]	0.078	
Mass TWA [mg/m3]	0.049	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	24	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.053		
1800	0.053		
2700	0.055		
3600	0.056		
4500	0.058		
5400	0.06		
6300	0.062		
7200	0.063		
8100	0.063		
9000	0.06		
9900	0.059		
10800	0.06		
11700	0.061		
12600	0.062		
13500	0.065		
14400	0.067		
15300	0.07		
16200	0.072		
17100	0.074		
18000	0.074		
18900	0.076		
19800	0.077		
20700	0.077		
21600	0.078		

Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	8:13:40 AM	
Test Start Date	12/11/2018	
Test Length [D:H:M]	0:06:15	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.072	
Mass Minimum [mg/m3]	0.054	
Mass Maximum [mg/m3]	0.109	
Mass TWA [mg/m3]	0.056	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	25	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.071		
1800	0.054		
2700	0.054		
3600	0.06		
4500	0.061		
5400	0.063		
6300	0.064		
7200	0.065		
8100	0.068		
9000	0.066		
9900	0.064		
10800	0.065		
11700	0.068		
12600	0.068		
13500	0.07		
14400	0.108		
15300	0.109		
16200	0.075		
17100	0.076		
18000	0.077		
18900	0.078		
19800	0.079		
20700	0.082		
21600	0.083		
22500	0.078		

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	7:59:20 AM	
Test Start Date	12/12/2018	
Test Length [D:H:M]	0:07:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.053	
Mass Minimum [mg/m3]	0.023	
Mass Maximum [mg/m3]	0.069	
Mass TWA [mg/m3]	0.047	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	28	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.061		
1800	0.061		
2700	0.065		
3600	0.068		
4500	0.069		
5400	0.062		
6300	0.058		
7200	0.06		
8100	0.066		
9000	0.067		
9900	0.064		
10800	0.064		
11700	0.062		
12600	0.061		
13500	0.058		
14400	0.057		
15300	0.05		
16200	0.046		
17100	0.044		
18000	0.043		
18900	0.047		
19800	0.047		
20700	0.044		
21600	0.041		
22500	0.041		
23400	0.034		
24300	0.03		
25200	0.023		

Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	8:22:01 AM	
Test Start Date	12/12/2018	
Test Length [D:H:M]	0:06:15	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.054	
Mass Minimum [mg/m3]	0.031	
Mass Maximum [mg/m3]	0.086	
Mass TWA [mg/m3]	0.042	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	25	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.06		
1800	0.067		
2700	0.086		
3600	0.067		
4500	0.066		
5400	0.064		
6300	0.063		
7200	0.065		
8100	0.061		
9000	0.06		
9900	0.058		
10800	0.058		
11700	0.054		
12600	0.054		
13500	0.05		
14400	0.045		
15300	0.042		
16200	0.04		
17100	0.038		
18000	0.046		
18900	0.043		
19800	0.043		
20700	0.041		
21600	0.038		
22500	0.031		

Instrument Name	DustTrak II	54
Model Number	8530	
Serial Number	8530092510	
Firmware Version	3.7	
Calibration Date	5/24/2016	
Test Name	MANUAL_001	
Test Start Time	8:17:53 AM	
Test Start Date	12/12/2018	
Test Length [D:H:M]	0:06:30	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.059	
Mass Minimum [mg/m3]	0.032	
Mass Maximum [mg/m3]	0.122	
Mass TWA [mg/m3]	0.048	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	26	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.078		
1800	0.07		
2700	0.095		
3600	0.068		
4500	0.071		
5400	0.07		
6300	0.061		
7200	0.062		
8100	0.059		
9000	0.082		
9900	0.056		
10800	0.055		
11700	0.086		
12600	0.052		
13500	0.056		
14400	0.043		
15300	0.038		
16200	0.037		
17100	0.045		
18000	0.043		
18900	0.04		
19800	0.044		
20700	0.037		
21600	0.038		
22500	0.032		
23400	0.122	1	

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	7:44:13 AM	
Test Start Date	12/13/2018	
Test Length [D:H:M]	0:05:45	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.065	
Mass Minimum [mg/m3]	0.049	
Mass Maximum [mg/m3]	0.085	
Mass TWA [mg/m3]	0.046	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	23	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.071		
1800	0.08		
2700	0.074		
3600	0.072		
4500	0.077		
5400	0.083		
6300	0.085		
7200	0.083		
8100	0.077		
9000	0.063		
9900	0.06		
10800	0.06		
11700	0.059		
12600	0.057		
13500	0.053		
14400	0.056		
15300	0.057		
16200	0.058		
17100	0.057		
18000	0.052		
18900	0.049		
19800	0.05		
20700	0.051		

Instrument Name	DustTrak II	54
Model Number	8530	
Serial Number	8530092510	
Firmware Version	3.7	
Calibration Date	5/24/2016	
Test Name	MANUAL_001	
Test Start Time	8:17:27 AM	
Test Start Date	12/13/2018	
Test Length [D:H:M]	0:05:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.05	
Mass Minimum [mg/m3]	0.04	
Mass Maximum [mg/m3]	0.067	
Mass TWA [mg/m3]	0.031	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	20	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.066		
1800	0.067		
2700	0.063		
3600	0.059		
4500	0.061		
5400	0.059		
6300	0.052		
7200	0.046		
8100	0.047		
9000	0.047		
9900	0.045		
10800	0.043		
11700	0.044		
12600	0.045		
13500	0.045		
14400	0.041		
15300	0.04		
16200	0.04		
17100	0.041		
18000	0.041		

Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	8:24:02 AM	
Test Start Date	12/13/2018	
Test Length [D:H:M]	0:05:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.06	
Mass Minimum [mg/m3]	0.046	
Mass Maximum [mg/m3]	0.126	
Mass TWA [mg/m3]	0.038	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	20	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.072		
1800	0.126		
2700	0.085		
3600	0.065		
4500	0.068		
5400	0.065		
6300	0.057		
7200	0.054		
8100	0.055		
9000	0.054		
9900	0.054		
10800	0.051		
11700	0.055		
12600	0.056		
13500	0.051		
14400	0.049		
15300	0.047		
16200	0.046		
17100	0.047		
18000	0.047		

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	8:06:40 AM	
Test Start Date	12/14/2018	
Test Length [D:H:M]	0:06:30	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.068	
Mass Minimum [mg/m3]	0.049	
Mass Maximum [mg/m3]	0.087	
Mass TWA [mg/m3]	0.055	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	26	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.087		
1800	0.081		
2700	0.08		
3600	0.083		
4500	0.081		
5400	0.076		
6300	0.075		
7200	0.077		
8100	0.076		
9000	0.075		
9900	0.074		
10800	0.072		
11700	0.071		
12600	0.067		
13500	0.06		
14400	0.061		
15300	0.071		
16200	0.063		
17100	0.064		
18000	0.066		
18900	0.053		
19800	0.056		
20700	0.057		
21600	0.05		
22500	0.049		
23400	0.049		

Instrument Name	DustTrak II	54
Model Number	8530	
Serial Number	8530092510	
Firmware Version	3.7	
Calibration Date	5/24/2016	
Test Name	MANUAL_001	
Test Start Time	8:22:23 AM	
Test Start Date	12/14/2018	
Test Length [D:H:M]	0:06:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.048	
Mass Minimum [mg/m3]	0.029	
Mass Maximum [mg/m3]	0.067	
Mass TWA [mg/m3]	0.036	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	24	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.067		
1800	0.063		
2700	0.061		
3600	0.059		
4500	0.058		
5400	0.056		
6300	0.056		
7200	0.055		
8100	0.052		
9000	0.05		
9900	0.049		
10800	0.049		
11700	0.046		
12600	0.044		
13500	0.044		
14400	0.042		
15300	0.04		
16200	0.043		
17100	0.04		
18000	0.037		
18900	0.037		
19800	0.036		
20700	0.031		
21600	0.029		

Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	8:18:15 AM	
Test Start Date	12/14/2018	
Test Length [D:H:M]	0:06:15	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.105	
Mass Minimum [mg/m3]	0.046	
Mass Maximum [mg/m3]	0.25	
Mass TWA [mg/m3]	0.082	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	25	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.103		
1800	0.131		
2700	0.106		
3600	0.13		
4500	0.25		
5400	0.102		
6300	0.087		
7200	0.211		
8100	0.135		
9000	0.146		
9900	0.105		
10800	0.157		
11700	0.167		
12600	0.16		
13500	0.079		
14400	0.059		
15300	0.058		
16200	0.059		
17100	0.06		
18000	0.067		
18900	0.053		
19800	0.066		
20700	0.048		
21600	0.046		
22500	0.046		

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	7:49:47 AM	
Test Start Date	12/17/2018	
Test Length [D:H:M]	0:07:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.055	
Mass Minimum [mg/m3]	0.036	
Mass Maximum [mg/m3]	0.095	
Mass TWA [mg/m3]	0.048	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	28	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.095		
1800	0.093		
2700	0.091		
3600	0.088		
4500	0.079		
5400	0.075		
6300	0.073		
7200	0.071		
8100	0.07		
9000	0.064		
9900	0.06		
10800	0.045		
11700	0.044		
12600	0.042		
13500	0.04		
14400	0.041		
15300	0.041		
16200	0.04		
17100	0.041		
18000	0.039		
18900	0.039		
19800	0.039		
20700	0.037		
21600	0.037		
22500	0.037		
23400	0.037		
24300	0.036		
25200	0.036		

Instrument Name	DustTrak II	54
Model Number	8530	
Serial Number	8530092510	
Firmware Version	3.7	
Calibration Date	5/24/2016	
Test Name	MANUAL_001	
Test Start Time	8:06:00 AM	
Test Start Date	12/17/2018	
Test Length [D:H:M]	0:06:45	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.024	
Mass Minimum [mg/m3]	0.01	
Mass Maximum [mg/m3]	0.061	
Mass TWA [mg/m3]	0.02	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	27	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.061		
1800	0.059		
2700	0.053		
3600	0.046		
4500	0.041		
5400	0.039		
6300	0.037		
7200	0.036		
8100	0.032		
9000	0.028		
9900	0.016		
10800	0.016		
11700	0.013		
12600	0.011		
13500	0.013		
14400	0.012		
15300	0.011		
16200	0.011		
17100	0.01		
18000	0.012		
18900	0.011		
19800	0.017		
20700	0.013		
21600	0.012		
22500	0.013		
23400	0.01		
24300	0.01		

Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	7:58:09 AM	
Test Start Date	12/17/2018	
Test Length [D:H:M]	0:07:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.029	
Mass Minimum [mg/m3]	0.016	
Mass Maximum [mg/m3]	0.061	
Mass TWA [mg/m3]	0.026	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	28	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.061		
1800	0.052		
2700	0.054		
3600	0.05		
4500	0.048		
5400	0.046		
6300	0.043		
7200	0.044		
8100	0.042		
9000	0.046		
9900	0.031		
10800	0.021		
11700	0.019		
12600	0.016		
13500	0.018		
14400	0.017		
15300	0.017		
16200	0.017		
17100	0.018		
18000	0.016		
18900	0.018		
19800	0.017		
20700	0.016		
21600	0.017		
22500	0.018		
23400	0.018		
24300	0.017		
25200	0.022		

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	7:46:38 AM	
Test Start Date	12/18/2018	
Test Length [D:H:M]	0:06:15	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.016	
Mass Minimum [mg/m3]	0.014	
Mass Maximum [mg/m3]	0.019	
Mass TWA [mg/m3]	0.012	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	25	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.019		
1800	0.016		
2700	0.018		
3600	0.017		
4500	0.014		
5400	0.016		
6300	0.016		
7200	0.016		
8100	0.016		
9000	0.016		
9900	0.015		
10800	0.016		
11700	0.016		
12600	0.016		
13500	0.015		
14400	0.015		
15300	0.015		
16200	0.015		
17100	0.015		
18000	0.016		
18900	0.017		
19800	0.016		
20700	0.017		
21600	0.016		
22500	0.016		

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Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	8:21:57 AM	
Test Start Date	12/18/2018	
Test Length [D:H:M]	0:05:30	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.07	
Mass Minimum [mg/m3]	0.01	
Mass Maximum [mg/m3]	0.554	
Mass TWA [mg/m3]	0.048	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	22	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.029		
1800	0.062		
2700	0.051		
3600	0.095		
4500	0.074		
5400	0.04		
6300	0.01		
7200	0.554		
8100	0.219		
9000	0.011		
9900	0.012		
10800	0.021		
11700	0.038		
12600	0.194		
13500	0.014		
14400	0.015		
15300	0.015		
16200	0.015		
17100	0.014		
18000	0.016		
18900	0.014		
19800	0.02		

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	8:13:21 AM	
Test Start Date	1/3/2019	
Test Length [D:H:M]	0:06:15	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.009	
Mass Minimum [mg/m3]	0.004	
Mass Maximum [mg/m3]	0.018	
Mass TWA [mg/m3]	0.007	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	25	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.004		
1800	0.004		
2700	0.004		
3600	0.006		
4500	0.008		
5400	0.008		
6300	0.009		
7200	0.011		
8100	0.014		
9000	0.014		
9900	0.018		
10800	0.018		
11700	0.014		
12600	0.011		
13500	0.01		
14400	0.008		
15300	0.009		
16200	0.008		
17100	0.008		
18000	0.008		
18900	0.008		
19800	0.009		
20700	0.01		
21600	0.008		
22500	0.006		

Instrument Name	DustTrak II	54
Model Number	8530	
Serial Number	8530092510	
Firmware Version	3.7	
Calibration Date	5/24/2016	
Test Name	MANUAL_001	
Test Start Time	8:35:13 AM	
Test Start Date	1/3/2019	
Test Length [D:H:M]	0:05:45	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.016	
Mass Minimum [mg/m3]	0.012	
Mass Maximum [mg/m3]	0.023	
Mass TWA [mg/m3]	0.011	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	23	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.019		
1800	0.014		
2700	0.013		
3600	0.013		
4500	0.013		
5400	0.015		
6300	0.017		
7200	0.019		
8100	0.02		
9000	0.023		
9900	0.023		
10800	0.017		
11700	0.017		
12600	0.013		
13500	0.014		
14400	0.018		
15300	0.013		
16200	0.012		
17100	0.015		
18000	0.013		
18900	0.014		
19800	0.015		
20700	0.012		

Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	8:30:18 AM	
Test Start Date	1/3/2019	
Test Length [D:H:M]	0:05:45	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.021	
Mass Minimum [mg/m3]	0.016	
Mass Maximum [mg/m3]	0.027	
Mass TWA [mg/m3]	0.015	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	23	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.016		
1800	0.016		
2700	0.018		
3600	0.018		
4500	0.019		
5400	0.02		
6300	0.022		
7200	0.024		
8100	0.024		
9000	0.027		
9900	0.027		
10800	0.025		
11700	0.022		
12600	0.022		
13500	0.021		
14400	0.023		
15300	0.022		
16200	0.021		
17100	0.021		
18000	0.02		
18900	0.021		
19800	0.022		
20700	0.02		

Instrument Name	DustTrak II	29
Model Number	8530	
Serial Number	8530172023	
Firmware Version	3.7	
Calibration Date	7/26/2018	
Test Name	MANUAL_001	
Test Start Time	8:09:54 AM	
Test Start Date	1/4/2019	
Test Length [D:H:M]	0:06:30	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.013	
Mass Minimum [mg/m3]	-0.003	
Mass Maximum [mg/m3]	0.105	
Mass TWA [mg/m3]	0.011	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	26	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.011		
1800	0.02		
2700	0.022		
3600	0.022		
4500	0.013		
5400	0.031		
6300	0.105	1	
7200	0.004		
8100	0.011		
9000	0.022		
9900	0.058		
10800	0.013		
11700	0.01		
12600	0		
13500	-0.001		
14400	-0.001		
15300	-0.001		
16200	-0.001		
17100	-0.001		
18000	-0.002		
18900	-0.003		
19800	-0.002		
20700	-0.002		
21600	0.003		
22500	0.005		
23400	0.002		

Instrument Name	DustTrak II	54
Model Number	8530	
Serial Number	8530092510	
Firmware Version	3.7	
Calibration Date	5/24/2016	
Test Name	MANUAL_001	
Test Start Time	8:26:10 AM	
Test Start Date	1/4/2019	
Test Length [D:H:M]	0:06:00	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.01	
Mass Minimum [mg/m3]	0.003	
Mass Maximum [mg/m3]	0.043	
Mass TWA [mg/m3]	0.008	
Photometric User Cal	1	
Flow User Cal	0	
Errors		
Number of Samples	24	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.035		
1800	0.019		
2700	0.018		
3600	0.016		
4500	0.014		
5400	0.012		
6300	0.01		
7200	0.009		
8100	0.008		
9000	0.006		
9900	0.006		
10800	0.005		
11700	0.004		
12600	0.004		
13500	0.004		
14400	0.004		
15300	0.005		
16200	0.005		
17100	0.005		
18000	0.003		
18900	0.004		
19800	0.005		
20700	0.005		
21600	0.043		

Instrument Name	DustTrak II	82
Model Number	8530	
Serial Number	8530164104	
Firmware Version	3.4	
Calibration Date	10/3/2016	
Test Name	MANUAL_001	
Test Start Time	8:19:49 AM	
Test Start Date	1/4/2019	
Test Length [D:H:M]	0:06:15	
Test Interval [M:S]	15:00	
Mass Average [mg/m3]	0.016	
Mass Minimum [mg/m3]	0.009	
Mass Maximum [mg/m3]	0.035	
Mass TWA [mg/m3]	0.012	
Photometric User Cal	0.85	
Flow User Cal	0	
Errors		
Number of Samples	25	

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
900	0.035		
1800	0.023		
2700	0.022		
3600	0.022		
4500	0.021		
5400	0.029		
6300	0.02		
7200	0.017		
8100	0.015		
9000	0.013		
9900	0.013		
10800	0.03		
11700	0.011		
12600	0.011		
13500	0.01		
14400	0.01		
15300	0.011		
16200	0.012		
17100	0.01		
18000	0.009		
18900	0.009		
19800	0.01		
20700	0.01		
21600	0.016		
22500	0.011		

APPENDIX D

Project Photographic Log

Initial Clearing and grubbing of existing trees and overburden

Existing Concrete foundations buried within 2 feet of surface. Concrete removed a minimum 3'-5 1/2" below new finish grade

Initial stripping of overburden for cutting to proposed subgrade. Excavated material staged on bordering parcel within designated zone

Loading out of overburden and former sub-structure material.

Former concrete foundations and bar reinforcement. Metal cut and removed from site, concrete either broken into smaller sizes or larger removed to Zoladz Property located on the former Bethlehem Steel Complex

High water encountered during winter excavation. No odors detected or films observed on water surfaces.

Installation of Turbidity Curtain in Storm Water Return Trench (SWRT) for construction of Large Pipe Culvert

Trench Box filled with natural stone used for dewatering for new culvert. Geotextile fabric installed over stone backfill in undercut SWRT bottom. (RCRA Area)

Leveling of Excavated Overburden from Roadway section DEC II-8

Silt sock in place and water pump in place for dewatering localized areas of trapped water in existing buried foundation

96 inch Coated Steel Culvert Pipe prior to installation in Storm Water Return Trench (SWRT)

Pre-Construction of 96 inch Large Culvert in SWRT

Site clearing and preparation for staging of SWRT excavated material. Staging of excavated material is designated within the top 25 feet of RCRA site.

Grading and placement of containment berm and geotextile fabric for staging of excavated SWRT material. Decanting of water from excavated material is by slow seepage

Installation of North cofferdam in SWRT

Installation of South Coffer dam. Turbidity Curtain in-place. Dewatering and water by-pass hoses seen in picture.

De-watering of containment area in SWRT

De-watering of containment area in SWRT

De-watering and channeling water– preparing for undercutting silty material for large culvert installation

De-watered containment area in SWRT. Existing pipe arches under east retaining wall visible. Visual inspection found the initial 3 feet +/- had voids. Beyond the 3' no voids could be seen.. Pipe arches left in-place and ends sealed with CLSM.

Small controlled channel of water infiltration to sump for maintaining minimum water in containment area.

Staging of SWRT excavated material along top of east bank within the RCRA designated staging area.

Placement of various sized rock for bridging undercut area.

Placement of second layer of various sized rock in undercut area.

Rough grading of undercut rock in SWRT for large culvert pipe stabilization and support

Installation of Geotextile separation fabric for large culvert pipe stone bedding

Installation of Select granular stone fill over geotextile bedding fabric. Hydraulic compactor used for compaction of stone.

Installation of second lift of select granular fill for large culvert.

Culvert pipe bedding stone being placed. Existing pipe in east wall was cut back and infilled with concrete and brick.

Factory Structure First Area Largest—Sub-basement under one story section bordering Winchester Avenue

Large Culvert pipe set to grade on clean bedding stone

Backfill of Large Culvert pipe with Approved select Gravel fill.—spring line up to top of sub-grade

Infill of existing pipe arches in east SWRT retaining wall with flowable concrete material.

Testing of Large culvert stone backfill compaction with nuclear density gauge.

Large culvert installed, Gabion size natural rock used for bank stabilization. Turbidity and cofferdam removed—South End

Large culvert installed, natural rock used for bank stabilization—North end

Loading of clean material at Brush Mountain—February 19, 2019

Loading of Clean Material from Brush Mountain– February 18, 2019

Utility Corridor Trench—North side of new Dona Street Extension

Utility Corridor Trench—Demarcation Material placed in the de-watered trench and backfill with clean approved soil.

Backfill of Utility Corridor Trench with Demarcation material

Last section at Station 14+00 of Utility Corridor Trench

Western End of Utility Corridor Trench backfilled and top soiled.

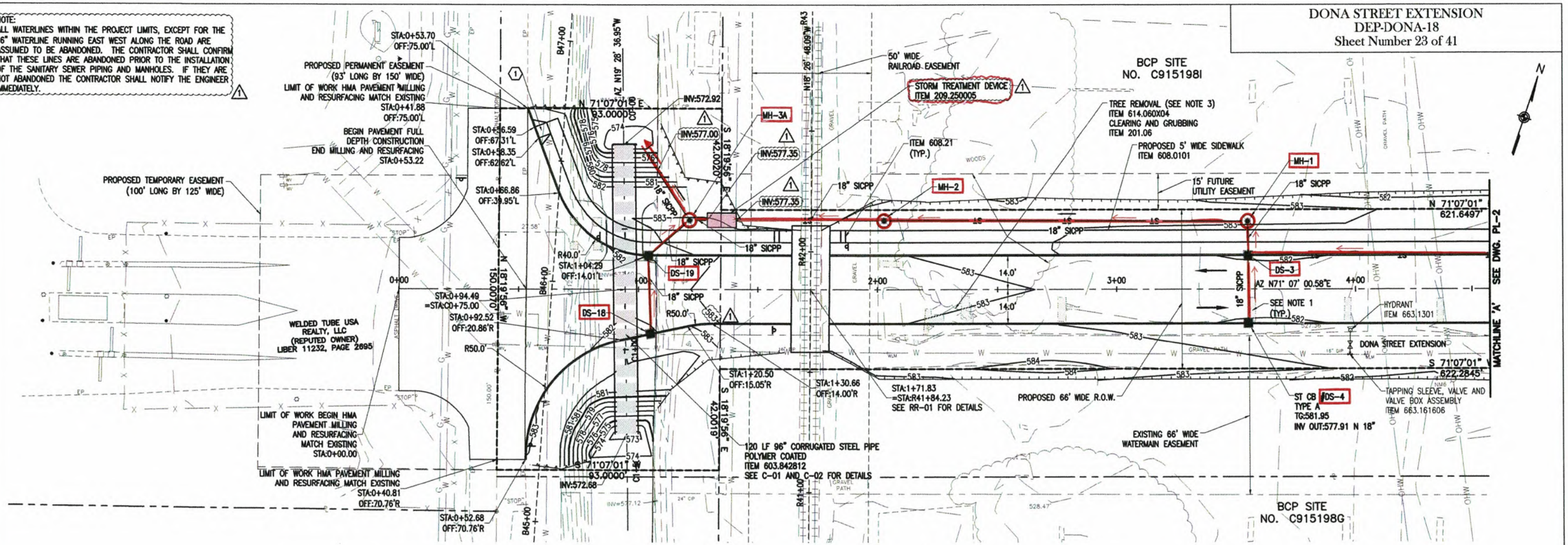
Dona Street Extension—Looking West
Project complete.

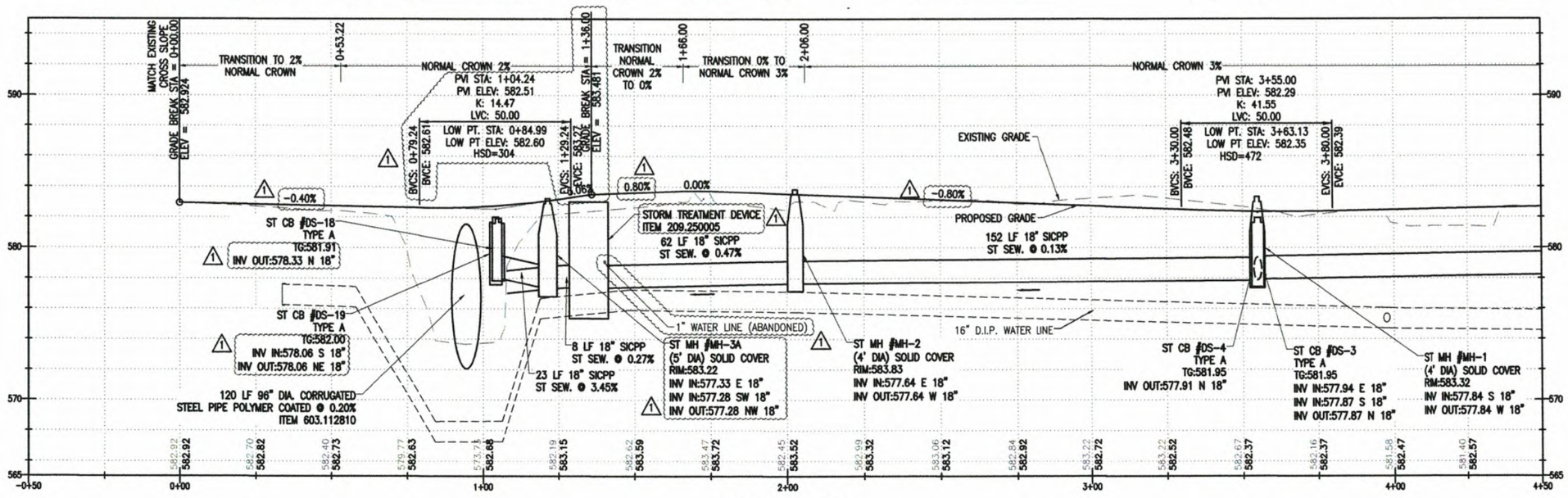
APPENDIX E

Stormwater Management Controls

DONA STREET EXTENSION
DEP-DONA-18
Sheet Number 23 of 41

NOTE:
ALL WATERLINES WITHIN THE PROJECT LIMITS, EXCEPT FOR THE 16" WATERLINE RUNNING EAST WEST ALONG THE ROAD ARE ASSUMED TO BE ABANDONED. THE CONTRACTOR SHALL CONFIRM THAT THESE LINES ARE ABANDONED PRIOR TO THE INSTALLATION OF THE SANITARY SEWER PIPING AND MANHOLES. IF THEY ARE NOT ABANDONED THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. ⚠1





DONA STREET PROFILE
1" = 4' VERTICAL
1" = 20' HORIZONTAL

NOTES:

1. REMOVE EXISTING CONCRETE FOUNDATIONS TO A MINIMUM OF 2'-0" BELOW PROPOSED SUBGRADE OR A.O.B.E.
2. ITEM 418.7603 – ASPHALT PAVEMENT JOINT ADHESIVE SHALL BE USED ON VERTICAL FACES FOR ACC JOINTS ON THE SURFACE COURSE.
3. ALL TREES WITHIN THE RIGHT-OF-WAY SHALL BE REMOVED.
4. ALL REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND THE CITY OF LACKAWANNA ARE THE RESPONSIBILITY OF THE CONTRACTOR.
5. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO INSTALLATION OF THE SANITARY SEWER.

LEGEND:

REMOVAL OF SUBSTRUCTURES ITEM 202.19 (SEE NOTE 1)

(X) CURB RAMP ID

0 4 8 12 FT
VERTICAL SCALE
1" = 4' SCALE BAR

0 20 40 60 FT
HORIZONTAL SCALE
1" = 20' SCALE BAR

NO.	DATE	DESCRIPTION
1	1/11/19	ADJUSTED GRADES AT RAILROAD TRACKS, REMOVED MH-3 AND RELOCATED WQ STRUCTURE

REVISIONS

LiRo Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

Erie County Department of Public Works - Division of Highways
95 Franklin Street - 14th Floor
Buffalo, New York 14202

DONA STREET EXTENSION

PLAN AND PROFILE SHEET 1 OF 4

Sheet No.	23 of 41
Date	Sept. 2018
Scale	As Noted
DWG.	PL-01A

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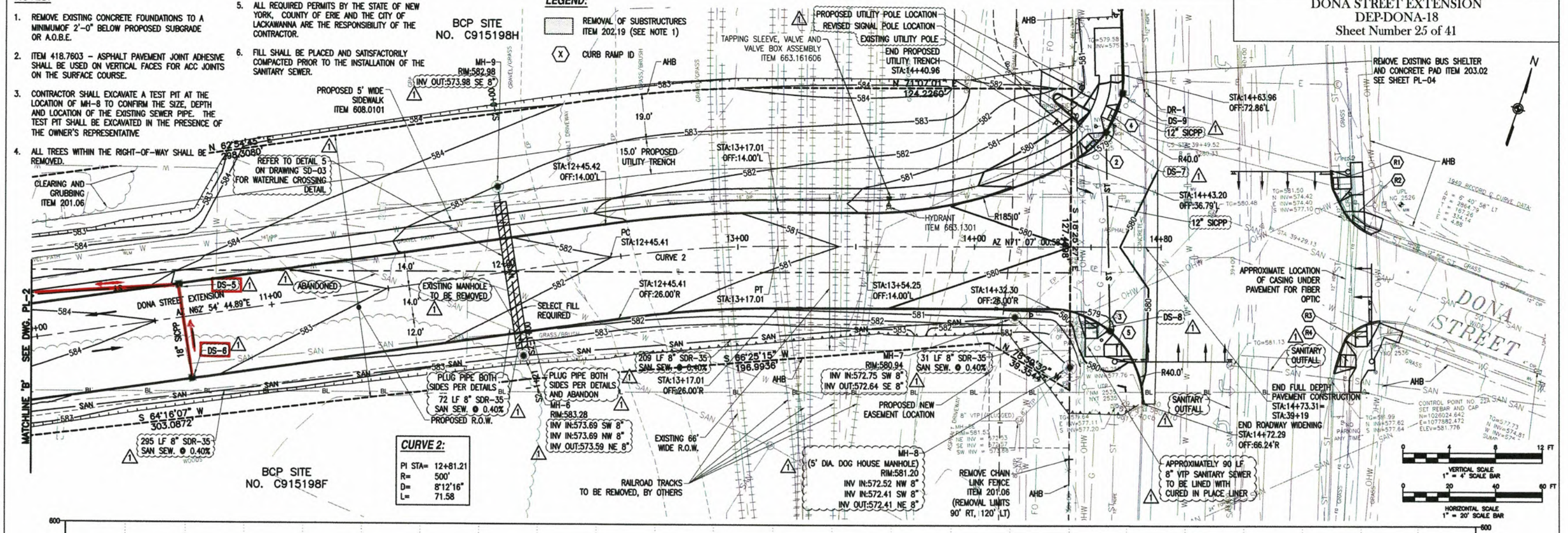
NOTES:

1. REMOVE EXISTING CONCRETE FOUNDATIONS TO A MINIMUMOF 2'-0" BELOW PROPOSED SUBGRADE OR A.O.B.E.
2. ITEM 418.7603 – ASPHALT PAVEMENT JOINT ADHESIVE SHALL BE USED ON VERTICAL FACES FOR ACC JOINTS ON THE SURFACE COURSE.
3. CONTRACTOR SHALL EXCAVATE A TEST PIT AT THE LOCATION OF MH-8 TO CONFIRM THE SIZE, DEPTH AND LOCATION OF THE EXISTING SEWER PIPE. THE TEST PIT SHALL BE EXCAVATED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE
4. ALL TREES WITHIN THE RIGHT-OF-WAY SHALL BE REMOVED.
5. ALL REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND THE CITY OF LACKAWANNA ARE THE RESPONSIBILITY OF THE CONTRACTOR.
6. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO THE INSTALLATION OF THE SANITARY SEWER.

LEGEND:

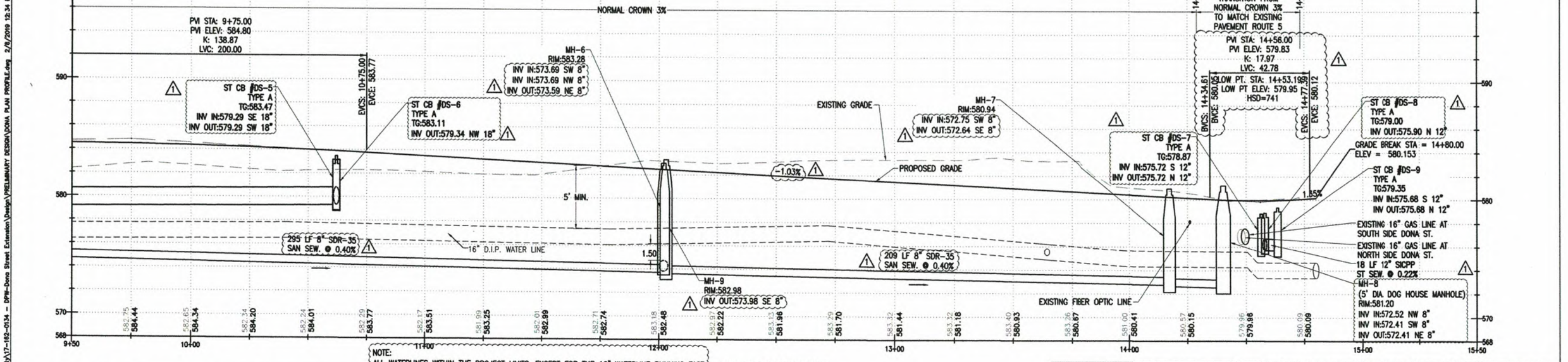
REMOVAL OF SUBSTRUCTURES ITEM 202.19 (SEE NOTE 1)

(X) CURB RAMP ID



CURVE 2:

PI STA=	12+81.21
R=	500'
D=	8°12'16"
L=	71.58



NOTE:
ALL WATERLINES WITHIN THE PROJECT LIMITS, EXCEPT FOR THE 16" WATERLINE RUNNING EAST WEST ALONG THE ROAD ARE ASSUMED TO BE ABANDONED. THE CONTRACTOR SHALL CONFIRM THAT THESE LINES ARE ABANDONED PRIOR TO THE INSTALLATION OF THE SANITARY SEWER PIPING AND MANHOLES. IF THEY ARE NOT ABANDONED THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

DONA STREET PROFILE
1" = 4' VERTICAL
1" = 20' HORIZONTAL

NO.	DATE	DESCRIPTION
1	1/11/19	REVISED SANITARY SEWER AND STORM SEWER, RELO. UTILITY AND SIGNAL POLE

REVISIONS

LiRo Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

Erie County Department of Public Works - Division of Highways
95 Franklin Street - 14th Floor
Buffalo, New York 14202

DONA STREET EXTENSION

PLAN AND PROFILE SHEET 3 OF 4

Sheet No.	25 of 41
Date	Sept. 2018
Scale	As Noted
DWG.	PL-03R1

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NOTE:
ALL WATERLINES WITHIN THE PROJECT LIMITS, EXCEPT FOR THE 16" WATERLINE RUNNING EAST WEST ALONG THE ROAD ARE ASSUMED TO BE ABANDONED. THE CONTRACTOR SHALL CONFIRM THAT THESE LINES ARE ABANDONED PRIOR TO THE INSTALLATION OF THE SANITARY SEWER PIPING AND MANHOLES. IF THEY ARE NOT ABANDONED THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. ⚠1

CURVE 1:
PI STA= 8+28.03
R= 1000'
D= 8°12'16"
L= 143.19

TREE REMOVAL (SEE NOTE 3)
ITEM 614.060X04
CLEARING AND GRUBBING
ITEM 201.06

BCP SITE
NO. C915198I

SANITARY SEWER EASEMENT

BUSINESS PARK
PHASE II, PARCEL "B"
TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
LIBER 11040, PAGE 8953

TREE REMOVAL (SEE NOTE 3)
ITEM 614.060X04
CLEARING AND GRUBBING
ITEM 201.06
TAPPING SLEEVE, VALVE AND VALVE BOX ASSEMBLY
ITEM 663.161606

BCP SITE
NO. C915198H

MH-10
RIM:583.74
INV OUT:575.25 SE 8" ⚠1

BEGIN UTILITY TRENCH
STA:9+44.21

15.0' PROPOSED UTILITY TRENCH

15' WIDE FUTURE UTILITY EASEMENT

PROPOSED 5' WIDE SIDEWALK
ITEM 608.0101

STA:7+56.43
OFF:14.00'L

BCP SITE
NO. C915198I

N 62°54'45" E
42.2991'

18" SICPP

STA:8+99.63
OFF:14.00'L

PROPOSED 100' WIDE R.O.W.

AZ N62° 54' 44.89"E

295 LF 8" PVC
SAN SEW. @ 0.40% ⚠1

HYDRANT
ITEM 663.1301

SELECT FILL REQUIRED

PT
STA:8+99.63

SEE NOTE 1, (TYP.)

DS-2

DS-1

18" SICPP

DONA STREET EXTENSION

CURVE 1

MATCHLINE 'A' SEE DWG. PL-1

MATCHLINE 'B' SEE DWG. PL-3

AZ N71° 07' 00.58" E

ARC LENGTH = 134.17'
RADIUS = 1000.00'

ARC LENGTH = 152.73'
RADIUS = 543.00'

PROPOSED 66' WIDE R.O.W.

START BAY TAPER
STA:7+56.43
OFF:14.00'R

PC
STA:7+56.43

STA:8+38.05
OFF:17.39'R

END BAY TAPER
STA:9+84.00
OFF:26.00'R

BCP SITE
NO. C915198F

WATERLINE EASEMENT TO WELDED TUBE USA REALTY, LLC ~~LIBER 11044, PAGE 7983~~ PARCEL TO BE CONVEYED TO THE COUNTY OF ERIE, FEE, TO CONSTRUCT A ROAD PER INFRASTRUCTURE AGREEMENT

EXISTING 66' WIDE WATERMAIN EASEMENT

BCP SITE
NO. C915198G

TREE REMOVAL (SEE NOTE 3)
ITEM 614.060X04
CLEARING AND GRUBBING
ITEM 201.06

MH-5
RIM:583.87
INV IN:574.97 NW 8"
INV OUT:574.87 NE 8" ⚠1

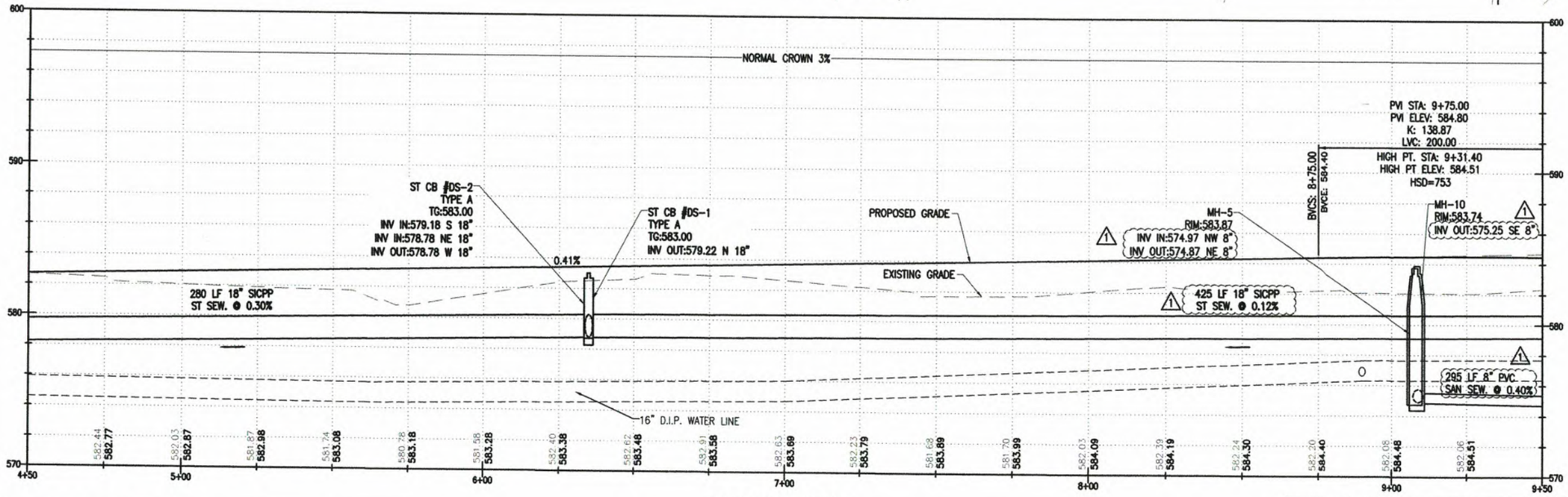
N 27°05'55" W
394.4'

N 18°25'21" W
343.96'

WOODS

GRASS

GRAVEL PATH



DONA STREET PROFILE
1" = 4' VERTICAL
1" = 20' HORIZONTAL

NOTES:

1. REMOVE EXISTING CONCRETE FOUNDATIONS TO A MINIMUM OF 2'-0" BELOW PROPOSED SUBGRADE OR A.O.B.E.
2. ITEM 418.7603 – ASPHALT PAVEMENT JOINT ADHESIVE SHALL BE USED ON VERTICAL FACES FOR ACC JOINTS ON THE SURFACE COURSE.
3. ALL TREES WITHIN THE RIGHT-OF-WAY SHALL BE REMOVED.
4. ALL REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND THE CITY OF LACKAWANNA ARE THE RESPONSIBILITY OF THE CONTRACTOR.
5. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO THE INSTALLATION OF THE SANITARY SEWER.

LEGEND:

REMOVAL OF SUBSTRUCTURES
ITEM 202.19 (SEE NOTE 1)

0 4 8 12 FT
VERTICAL SCALE
1" = 4' SCALE BAR

0 20 40 60 FT
HORIZONTAL SCALE
1" = 20' SCALE BAR

NO.	DATE	DESCRIPTION
1	1/11/19	REVISED SANITARY AND STORM SEWER

REVISIONS

LiRo Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

Erie County Department of Public Works - Division of Highways
95 Franklin Street - 14th Floor
Buffalo, New York 14202

DONA STREET EXTENSION	Sheet No.24 of 41
PLAN AND PROFILESHEET 2 OF 4	Date Sept. 2018
	Scale As Noted
	DWG. PL-02R1

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environment 21
Global Stormwater Solutions
P.O. Box 55 | East Pembroke | NY 14056
www.env21.com | enveng@env21.com

Technology That Separates

Clarence Conrad
Sales/Engineer
Kistner Concrete Products, Inc.
8713 Read Road
East Pembroke, NY 14056

Date: November 13, 2018

Subject: StormPro Calculations/Fabrication Drawings – Dona Street Extension Project

Mr. Conrad,

Per your request, I am submitting this letter as to my review of the StormPro submittal by Environment 21 and the relation of them to the Kistner fabrication drawings submitted for the Dona Street Extension Project. The Environment 21 submittal (pages 2 – 6 of 15) and the Kistner Fabrication Drawings (pages 7 – 15 of 15) reviewed are attached.

The calculations on the submittal from Environment 21 show that the StormPro, as designed hydraulically, will perform to meet the environmental parameters as presented. A comparison of the Kistner Fabrication Drawings to the Environment 21 submittal demonstrate that the proposal, as shown in the Kistner Fabrication Drawings, meets the intent of the Environment 21 Submittal. Therefore, the StormPro built according to the Environment 21 Submittal calculations and the Kistner Fabrication drawings will hydraulically perform to meet the environmental parameters.

Paul Rowe
Director

environment 21

ENVIRONMENT 21 SKETCH PLAN, HYDROLOGY ANALYSIS, AND HYDRAULIC ANALYSIS

Data entry date 11/12/2018

Site/Project	DONA STREET EXPANSION
Municipality	CITY OF LACKAWANNA, NY
Engineer	LIRO ENGINEERING
Owner	NS
Contractor	ZOLADZ
ENV 21 Affiliate	KISTNER CONCRETE

Trunk sewer travel time

Longest travel distance, ft	150	
Average pipe flow velocity, fps	4.0	
Travel time, minutes	0.6	
IDF duration at last inlet, minutes	5.0	
IDF duration at first inlet, minutes	5.0	

Drainage Area Hydrology / Design Storm IDF Values

Specified return interval	10	yrs
Duration	5	min
Average intensity	4.0	in/hr
Rainfall depth	0.33	inches

STORMPRO Inspection and Pumpout Interval

Annual unit pavement pollutant washoff	1000	#/ac/yr
Annual unit roof pollutant washoff	100	#/ac/yr
Pavement pollutant washoff	3220	#/yr
Roof pollutant washoff	0	#/yr
Site pollutant washoff load	3220	#/yr
Washoff trapped at curbs and inlets	644	#/yr
Washoff trapped in STORMPRO	1962	#/yr
Design sediment storage capacity	3780	#
Maximum pumpout interval	1.9	yrs+/-
Recommended inspection interval	0.5	yrs+/-
Design sediment storage capacity	36.0	ft^3
Design sediment storage depth	0.5	ft
Estimated per cent washoff trapped	81	%
STORMPRO sump depth	2.2	ft

STORMPRO Dimensioning

Structure #	MH-3		
Model	SP612		
Width, ft	6	Length, ft	12
Inlet stage		Outlet stage	
rim	583.01	rim	583.01
inlet inv	577.35	outlet inv	577.35
approx. floor	575.18		

Site Drainage Hydrology for Specified IDF Duration

Rainfall rate	12.88	cfs	Area, acres	3.22	C
Ponding/bypassing at inlets	1.29	cfs	% paved	100	0.90
Flow entering inlets	11.59	cfs	%roof	0	0.90
Inflow from offsite	0	cfs	% vegetation	0	0.30
Calculated IDF flow	11.59	cfs	CA	2.90	
Orifice restriction	N/A	cfs			
Flow specified by engineer	N/A	cfs	Flow to StormPro	11.59	cfs

WATER QUALITY VOLUME (WQV)

Drainage area	3.22	ac	Rainfall	1.0	inches
Impervious area	3.22	ac	Runoff	0.95	inches
Impervious area	100.00	%	WQV	0.255	ac-ft
Water Quality Rv	0.95		WQV	11104	cf

WATER QUALITY FLOW RATE (WQFR)

Average intensity	1.00	in/hr	Runoff coefficient	0.90	
Event duration	NS	minutes	Impervious area	3.22	ac
Annual frequency	NS	events/yr	Spec by eng.	N/A	cfs
			WQFR	2.90	cfs

environment 21 Stormwater Solutions

N

STORMPRO inlet pipe

pipe material	SICPP
pipe diameter,in	18
pipe length, ft	70
slope, %	0.4

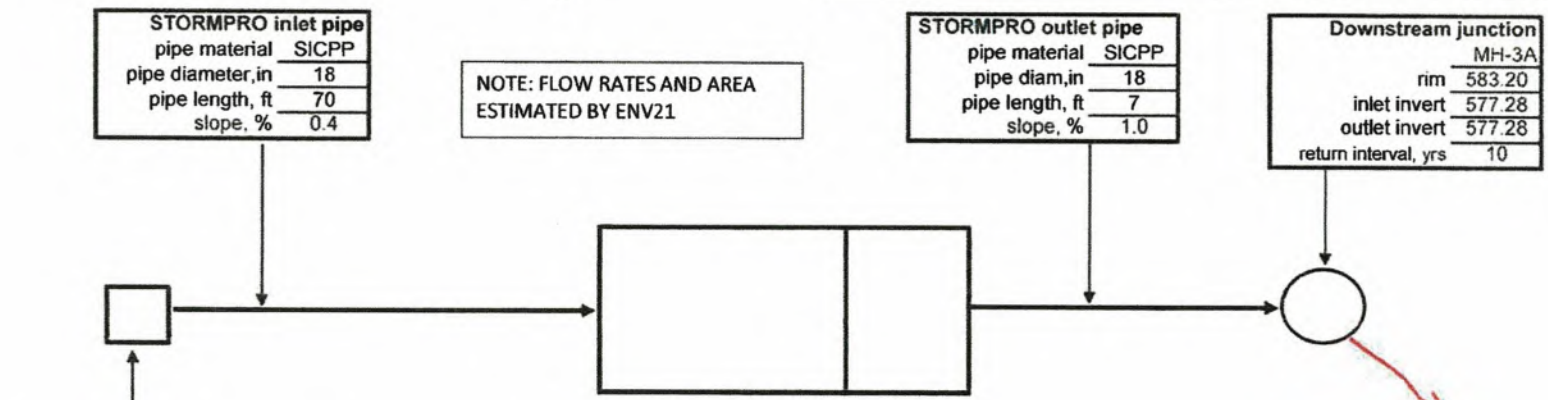
NOTE: FLOW RATES AND AREA ESTIMATED BY ENV21

STORMPRO outlet pipe

pipe material	SICPP
pipe diam,in	18
pipe length, ft	7
slope, %	1.0

Downstream junction

	MH-3A
rim	583.20
inlet invert	577.28
outlet invert	577.28
return interval, yrs	10



Upstream junction

	MH-2
rim	583.15
inlet invert	577.64
outlet invert	577.64
orifice diameter	N/A

PLEASE NOTE: DRAWING IS NOT TO SCALE AND ONLY FOR ORIENTATION

SKETCH PLAN

Environment 21, LLC
8713 Read Road - P.O. Box 55
East Pembroke, New York 14056
ph# 585-762-8314
fax# 585-762-8315
email: envengr@env21.com

Technical Report

Project: DONA STREET EXPANSION
Municipality: CITY OF LACKAWANNA, NY
Engineer: LIRO ENGINEERING
Owner: NS
Contractor: ZOLADZ
Environment 21 Affiliate: KISTNER CONCRETE

Date: 11/12/2018
STS# MH-3

ENV 21 Product STORMPRO
Model SP612

Width	6.0	ft
Length	12	ft
Surface area	72	sf

Drainage Area

Drainage area	3.22	acres
Paved area	100	%
Roof area	0	%
Vegetated area	0	%

Water Quality Volume

Rainfall	1.00	in.
Water Quality Rv	0.95	
Runoff depth	0.95	inches
Drainage area	3.2	acres
Water quality volume	0.25	ac-ft

Design Storm Rainfall IDF Values

Specified return interval	10	yrs
Duration	5	min
Average intensity	4.0	in/hr
Rainfall depth	0.3	inches

Water Quality Flow Rate

Runoff coefficient	0.90	
Average Intensity	1.00	in/hr
Impervious area	3.22	acres
Spec by eng.	N/A	cfs
WQFR	2.9	cfs

Site Drainage Hydrology for Specified IDF Duration

Rainfall rate	12.9	cfs
Ponding/bypassing at inlets	1.3	cfs
Flow entering inlets	11.6	cfs
Inflow from offsite	0	cfs
Flow to StormPro	11.6	cfs
STORMPRO inlet velocity	6.6	fps

Sediment Pumpout Interval

Hydraulic model: Treatment with external bypassing

Estimated Composition for Pollutant Washoff Entering STORMPRO

Annual unit pavement pollutant washoff	1000	**#/ac/yr**
Annual unit roof pollutant washoff	100	**#/ac/yr**
TSS as silt + bouyant organics	30	**wt%**
TSS as fine sand	40	**wt%**
TSS as medium sand	30	**wt%**
Pavement pollutant washoff	3220	**#/yr**
Roof pollutant washoff	0	**#/yr**
Site pollutant washoff load	3220	**#/yr**

Storage Capacity for Washoff of Oil-Floatables

Water surface area	54	**sf**
Floatables depth	0.59	**ft**
Floatables stored	238.0	**gal**
Floatables retained	100	**%**

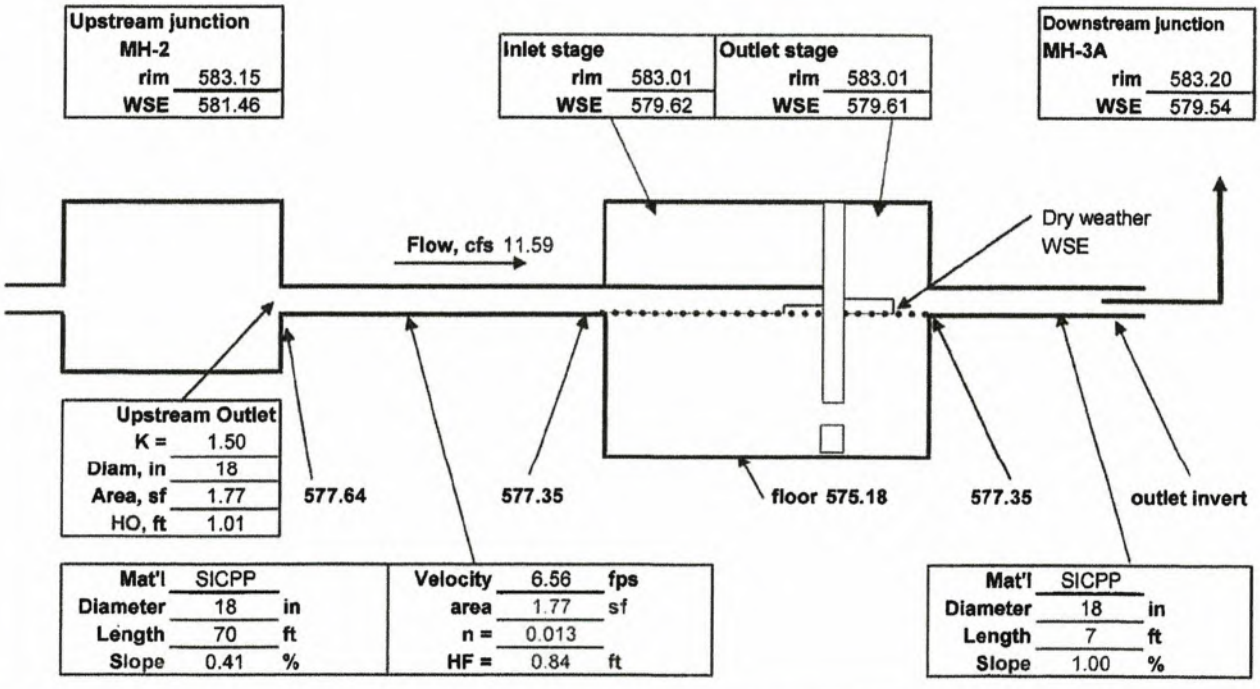
Estimated STORMPRO Pumpout Interval

Washoff trapped at curbs and inlets	644	**#/yr**
Washoff trapped in STORMPRO	1962	**#/yr**
Estimated per cent washoff trapped	81	**%**

STORMPRO sump depth	2.2	**ft**
Design sediment storage capacity	3780	**#**
Design sediment storage capacity	36	**cf**
Design sediment storage depth	0.5	**ft**
Maximum pumpout interval	1.9	**yrs+/-**
Recommended inspection interval	0.5	**yrs+/-**

Design Storm Backwater Analysis

(1) Downstream Water Elevation Estimated by ENV 21 or Provided by Site Engineer
(2) Outlet pipe hydraulics based on culvert hydraulics

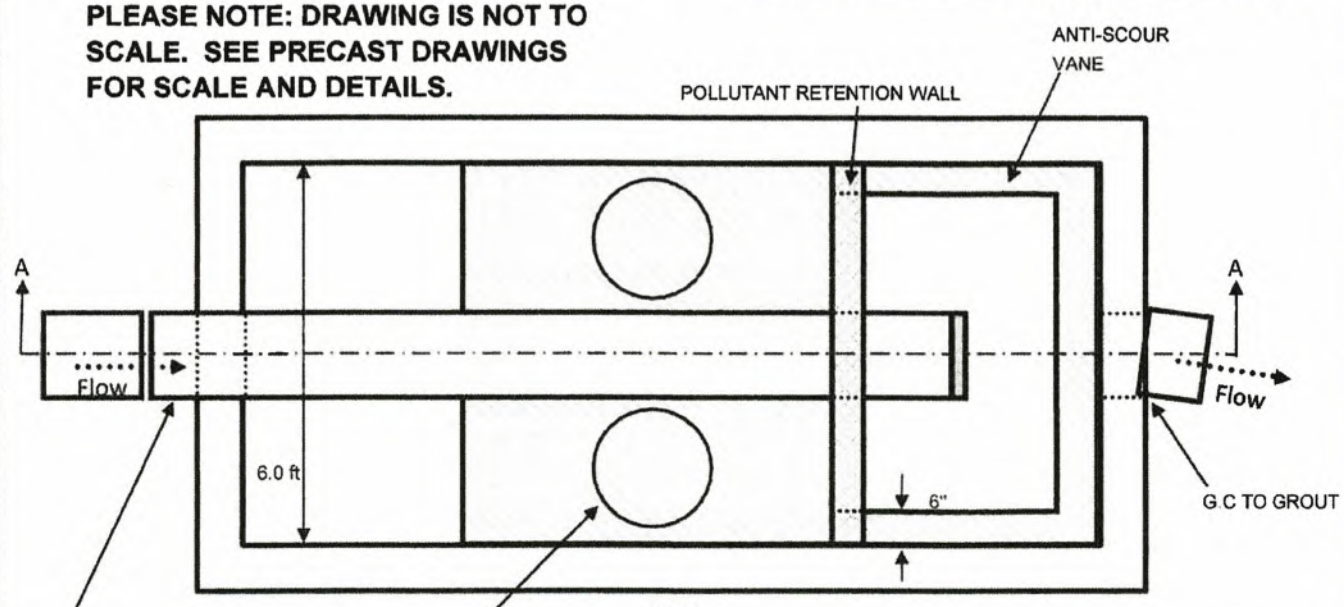


Environment 21, LLC	Site/Project: DONA STREET EXPANSION	
8713 Read Road, P.O. Box 55	Location: CITY OF LACKAWANNA, NY	
East Pembroke, NY 14056-0055	Owner: NS	
Fax: (585) 762-8315	Engineer: LIRO ENGINEERING	
Web: www.env21.com	Contractor: ZOLADZ	
Phone: (800) 809-2801	ENV 21 Affiliate: KISTNER CONCRETE	**Product Name:** STORMPRO
	Data Entry Date: 11/12/2018 DWG No.: 1 of 3	

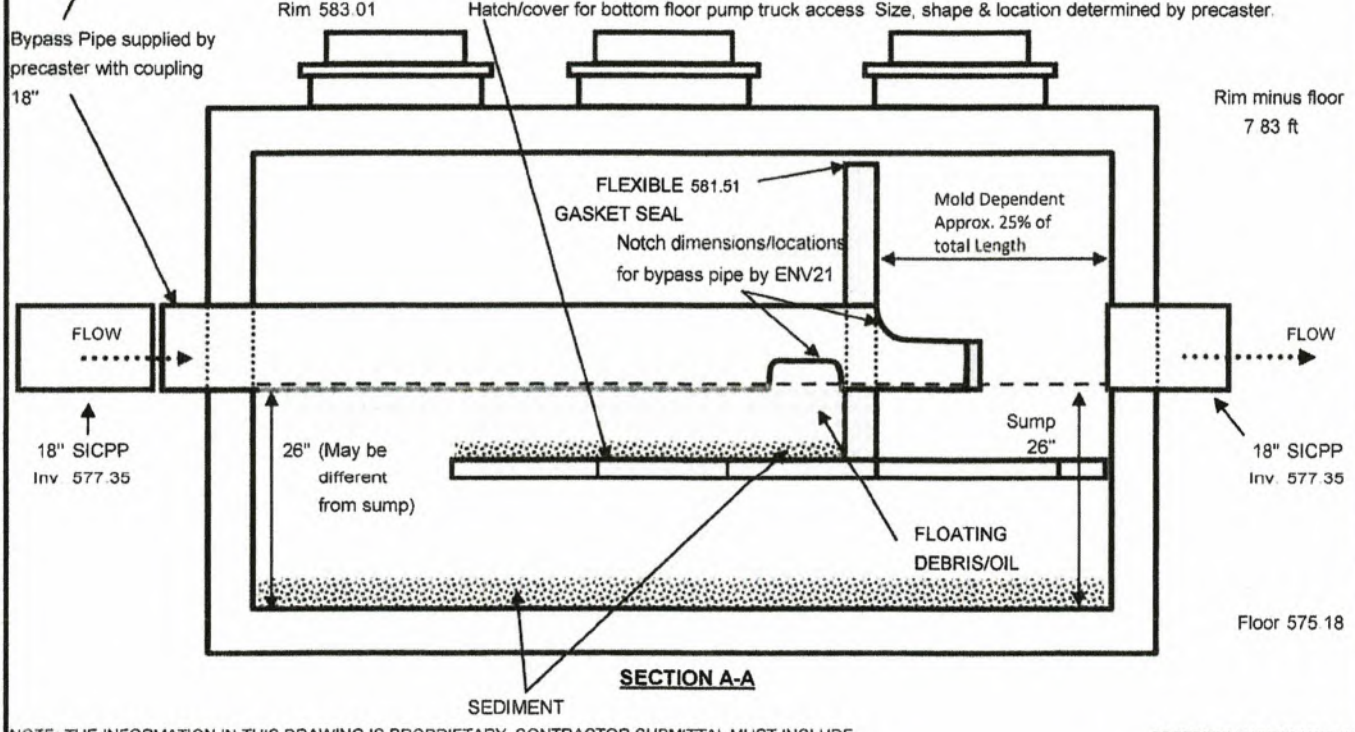
STRUCTURE # MH-3
Model SP612
WIDTH, FT 6
LENGTH, FT 12

DESIGN STORM HYDROLOGY			
Return Interval, yrs	10	Area, acres	3.22
Average Intensity, in/hr	4.0	% paved	100
Average Runoff, cfs	12.88	%roof	0
Flow to STORMPRO, cfs	11.6	%vegetation	0

PLEASE NOTE: DRAWING IS NOT TO SCALE. SEE PRECAST DRAWINGS FOR SCALE AND DETAILS.



PLAN



SECTION A-A

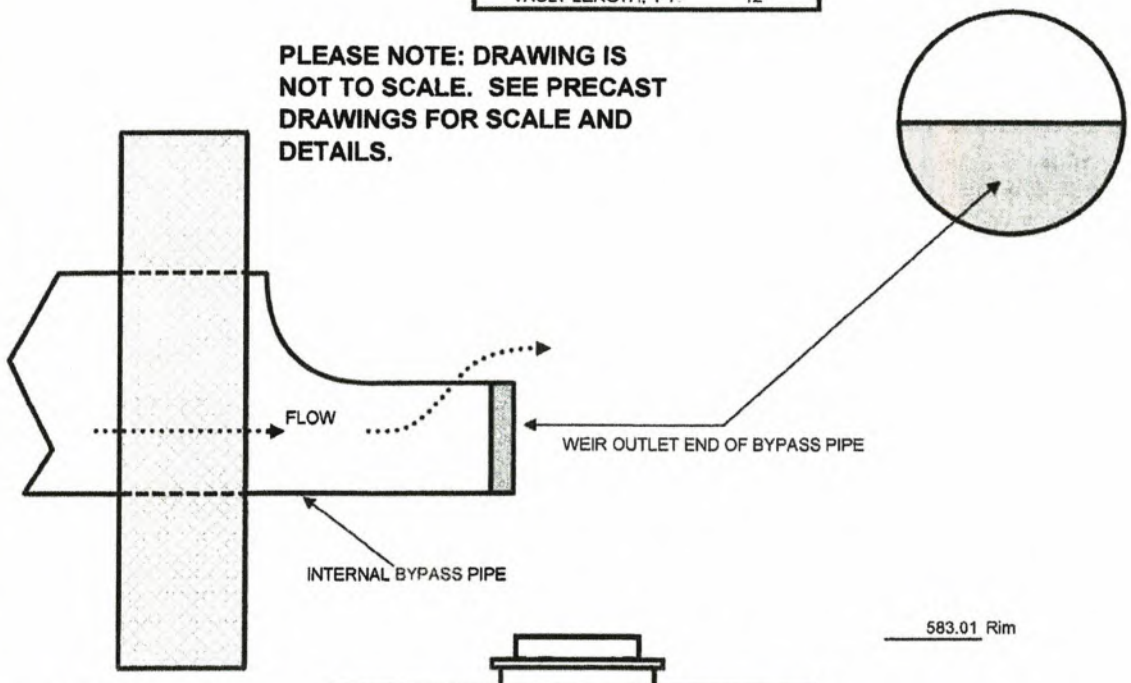
NOTE: THE INFORMATION IN THIS DRAWING IS PROPRIETARY. CONTRACTOR SUBMITTAL MUST INCLUDE ENVIRONMENT 21 TECHNICAL ANALYSIS OF SITE HYDROLOGY AND STORM SEWER SYSTEM HYDRAULICS

PROPRIETARY INFORMATION:
- ALL RIGHTS TO ENVIRONMENT 21, LLC

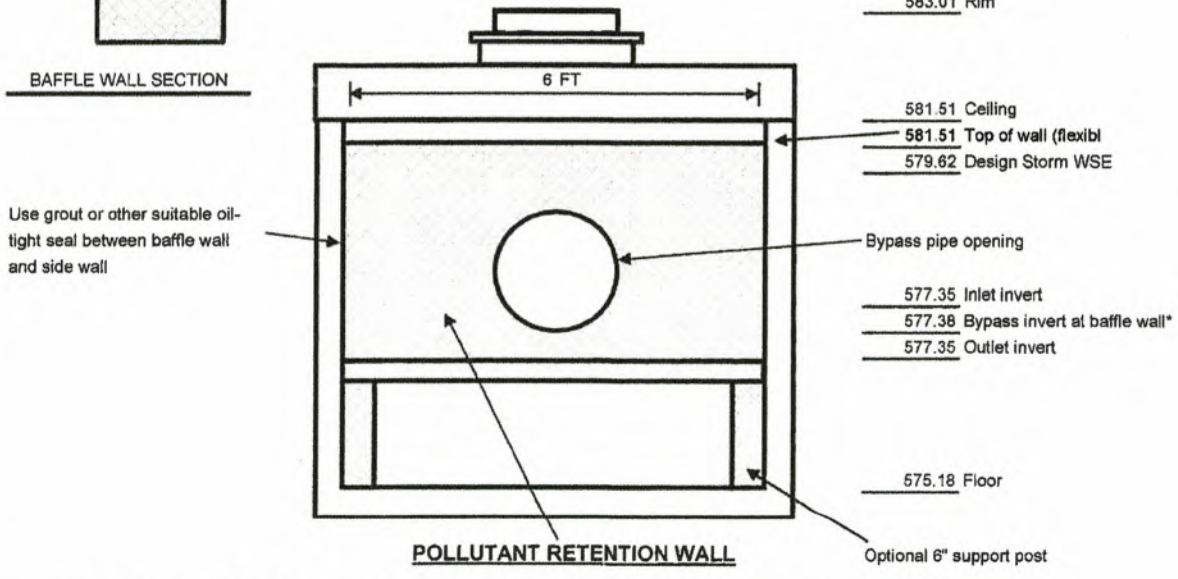
Environment 21, LLC	Site/Project: DONA STREET EXPANSION	
8713 Read Road, P.O. Box 55	Location: CITY OF LACKAWANNA, NY	
East Pembroke, NY 14056-0055	Owner: NS	
Fax: (585) 762-8315	Engineer: LIRO ENGINEERING	
Web: www.env21.com	Contractor: ZOLADZ	
Phone: (800) 809-2801	ENV 21 Affiliate: KISTNER CONCRETE	**Product Name:** STORMPRO
	Data Entry Date: 11/12/2018 DWG No.: 2 of 3	

STRUCTURE NO.	MH-3
Model	SP612
VAULT WIDTH, FT.	6
VAULT LENGTH, FT.	12

PLEASE NOTE: DRAWING IS NOT TO SCALE. SEE PRECAST DRAWINGS FOR SCALE AND DETAILS.



BAFFLE WALL SECTION



POLLUTANT RETENTION WALL

* Please note this will result in the bypass pipe having a REVERSE slope, and will require a drain hole. See dwg 3 of 3.

NOTE: THE INFORMATION IN THIS DRAWING IS PROPRIETARY CONTRACTOR SUBMITTAL MUST INCLUDE ENVIRONMENT 21 TECHNICAL ANALYSIS OF SITE HYDROLOGY AND STORM SEWER SYSTEM HYDRAULICS

PROPRIETARY INFORMATION: - ALL RIGHTS TO ENVIRONMENT 21, LLC

Environment 21, LLC	Site/Project: DONA STREET EXPANSION
8713 Read Road, P O Box 55	Location: CITY OF LACKAWANNA, NY
East Pembroke, NY 14056-0055	Owner: NS
Fax: (585) 815-4701	Engineer: LIRO ENGINEERING
Web: www env21 com	Contractor: ZOLADZ
Phone: (800) 809-2801	ENV 21 Affiliate: KISTNER CONCRETE
	Data Entry Date: 11/12/2018

environment 21 Global Stormwater Solutions

Product Name: STORMPRO

CALCULATED REMOVAL EFFICIENCIES BASED ON ANNUAL RAINFALL DATA

STORMPRO CHAMBER DIMENSIONING			
Structure #	MH-3		
Model #	SP612		
Width, ft	6.0		
Length, ft	12.0		
Rim	583.01	Rim	583.01
inlet inv	577.35	outlet i	577.35
floor	575.18		

Area treated by STORMPRO		
Area, acres	3.22	C
% paved	100	0.90
% roof	0	0.90
% vegetation	0.00	0.30
CA	2.90	

WQFR = 2.90 cfs

30 Min. Rainfall Depth (in.)	Rainfall intensity (in/hr)	Water flow rate (cfs)	Percentage of Annual Volume (%)	Percentage of Total Events (%)	Calculated removal efficiency at given flow rate of the 95 micron particle	Calculated critical settling velocity (ft/sec)	SOR (gpm/ft²)
0.25	0.50	1.45	31.1	82.1	86.80 %	0.03	9
0.50	1.00	2.90	23.8	10.2	61.38 %	0.07	18
0.75	1.50	4.35	15.7	3.9	50.11 %	0.10	27
1.00	2.00	5.80	10.0	1.8	43.40 %	0.13	36
1.25	2.50	7.25	6.0	0.8	38.82 %	0.17	45
1.50	3.00	8.69	3.7	0.4	35.44 %	0.20	54
1.75	3.50	10.14	2.8	0.3	32.81 %	0.23	63
2.00	4.00	11.59	1.4	0.1	30.69 %	0.27	72
2.25	4.50	13.04	1.1	0.1	28.93 %	0.30	81
2.50	5.00	14.49	1.4	0.1	27.45 %	0.34	90
2.75	5.50	15.94	0.8	0.1	26.17 %	0.37	99
3.00	6.00	17.39	0.4	0.0	25.06 %	0.40	108
3.25	6.50	18.84	0.1	0.0	24.07 %	0.44	117
3.50	7.00	20.29	0.3	0.0	23.20 %	0.47	127
3.75	7.50	21.74	0.2	0.0	22.41 %	0.50	136
4.00	8.00	23.18	0.4	0.0	21.70 %	0.54	145
4.25	8.50	24.63	0.2	0.0	21.05 %	0.57	154
4.50	9.00	26.08	0.4	0.0	20.46 %	0.60	163
4.75	9.50	27.53	0.0	0.0	19.91 %	0.64	172
5.00	10.00	28.98	0.0	0.0	19.41 %	0.67	181
5.25	10.50	30.43	0.2	0.0	18.94 %	0.70	190
5.50	11.00	31.88	0.0	0.0	18.51 %	0.74	199
5.75	11.50	33.33	0.0	0.0	18.10 %	0.77	208
6.00	12.00	34.78	0.0	0.0	17.72 %	0.81	217
6.25	12.50	36.23	0.0	0.0	17.36 %	0.84	226
6.50	13.00	37.67	0.0	0.0	17.02 %	0.87	235
6.75	13.50	39.12	0.0	0.0	16.70 %	0.91	244
7.00	14.00	40.57	0.0	0.0	16.40 %	0.94	253
7.25	14.50	42.02	0.0	0.0	16.12 %	0.97	262
7.50	15.00	43.47	0.0	0.0	15.85 %	1.01	271
7.75	15.50	44.92	0.0	0.0	15.59 %	1.04	280
8.00	16.00	46.37	0.0	0.0	15.34 %	1.07	289
8.25	16.50	47.82	0.0	0.0	15.11 %	1.11	298
8.35	16.70	48.40	0.0	0.0	15.02 %	1.12	302

Based on a particle size of 95 microns, and the percentage of total storm events, the average annual estimated removal efficiency = → **81%**

Notes:

1. Based on DETPOND Detention Pond Treatment Model by Robert Pitt.
2. Critical settling velocity calculation based on the application of Stokes Law using the water flow rate, a partical specific gravity of 2.6 and a chamber surface area of 72 square feet.
3. Rainfall Depth, Percentage of Total Events, and Percentage of Annual Volume data was obtained at the Buffalo Niagara International Rain Station from 1948 to 2005.

Project: DONA STREET

Location: LACKAWANNA, NY

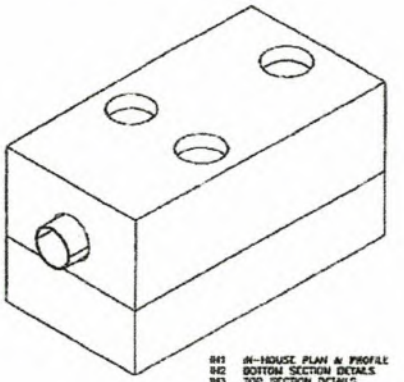
Product: New 6'-0" X 12'-0" StormPro Workbook

Contractor: ZOLADZ **Acct.#** 2423

Engineer: LIRO ENG

Kistner job ID: _____

SHEET NO.	DESCRIPTION
01	TITLE SHEET & INDEX
02	PLAN & PROFILE
03	SECTION VIEWS
04	STANDARD DETAILS
05	STORMPRO ACCESS HATCH PIPE DETAIL
06	ACCESS HATCH DETAILS
07	SHELF DETAILS
08	EJ 1310 FRAME & COVER DETAILS



☐ **MAILING ADDRESS:**
SALES/ENGINEERING & CORPORATE HEADQUARTERS
KISTNER CONCRETE PRODUCTS, INC.
8713 READ ROAD, P.O. BOX 218
EAST PEMBROKE, NEW YORK 14056
(716) 894-2267
(585) 762-8216
FAX: (585) 762-8316

☐ **MANUFACTURING FACILITY**
KISTNER CONCRETE PRODUCTS, INC.
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LOCKPORT, N.Y.
(716) 434-6157
(716) 693-0174
FAX: (716) 434-0138

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KISTNER CONCRETE PRODUCTS, INC.
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10002 EAST ROAD
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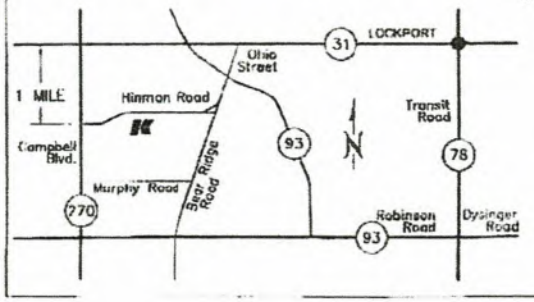


REV. NO.	DATE	SHEETS AFFECTED

PREPARED FOR

JOB NO.: 12/23/15 | SHEET TITLE: TITLE SHEET & INDEX | DRAWN BY: DAR | CHK'D BY: SDA

SCALE: NONE

PRODUCT: 5'-0" X 12'-0" NEW STORMPRO WORKBOOK

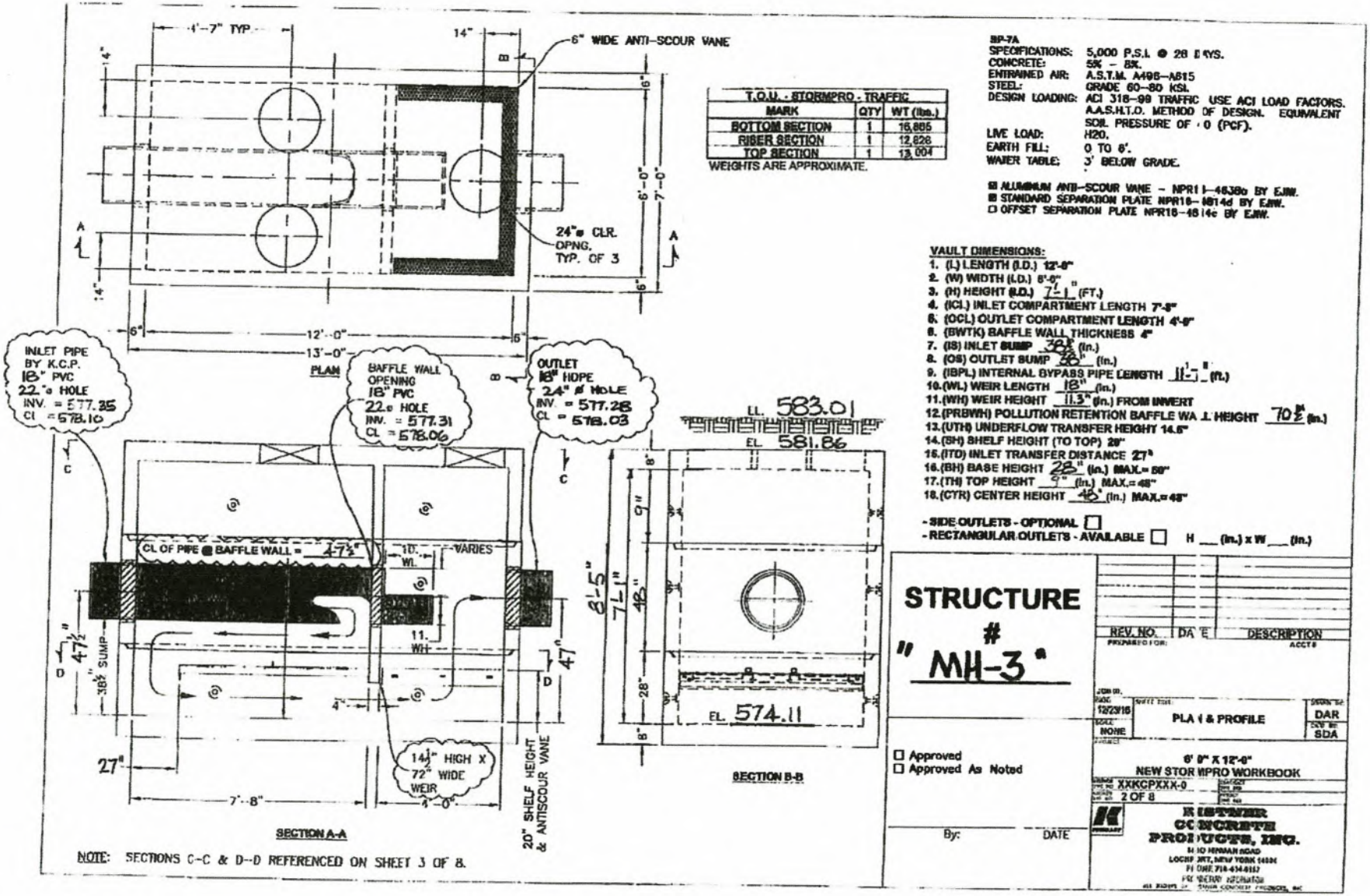
DRAWING NO.: XXKCPXXX-0 | SHEET NO.: 1 OF 8

☐ Approved
☐ Approved As Noted

By: DATE

KISTNER CONCRETE PRODUCTS, INC.
5550 HINMAN ROAD
LOCKPORT, NEW YORK 14094
PHONE 716-434-6157

PROPRIETARY INFORMATION
ALL RIGHTS OF KISTNER CONCRETE PRODUCTS, INC.



T.O.U. - STORMPRO - TRAFFIC		
MARK	QTY	WT (lbs.)
BOTTOM SECTION	1	16,885
RISER SECTION	1	12,826
TOP SECTION	1	13,004

WEIGHTS ARE APPROXIMATE.

BP-7A
SPECIFICATIONS: 5,000 P.S.I. @ 28 DAYS.
CONCRETE: 5% - 8%.
ENTRAINED AIR: A.S.T.M. A496-A615
STEEL: GRADE 60-80 KSI.
DESIGN LOADING: ACI 318-99 TRAFFIC USE ACI LOAD FACTORS. A.A.S.H.T.O. METHOD OF DESIGN. EQUIVALENT SOIL PRESSURE OF 80 (PCF).
LIVE LOAD: H20.
EARTH FILL: 0 TO 8'.
WATER TABLE: 3' BELOW GRADE.

☒ ALUMINUM ANTI-SCOUR VANE - NPR1 I-4636b BY EJW.
☒ STANDARD SEPARATION PLATE NPR18-4814d BY EJW.
☐ OFFSET SEPARATION PLATE NPR18-4814c BY EJW.

VAULT DIMENSIONS:
1. (L) LENGTH (I.D.) 12'-0"
2. (W) WIDTH (I.D.) 6'-0"
3. (H) HEIGHT (I.D.) 7'-1" (FT.)
4. (ICL) INLET COMPARTMENT LENGTH 7'-8"
5. (OCL) OUTLET COMPARTMENT LENGTH 4'-0"
6. (BWTK) BAFFLE WALL THICKNESS 4"
7. (IS) INLET SUMP 38½" (in.)
8. (OS) OUTLET SUMP 36" (in.)
9. (IBPL) INTERNAL BYPASS PIPE LENGTH 11'-1" (ft.)
10. (WL) WEIR LENGTH 18" (in.)
11. (WH) WEIR HEIGHT 11.3" (in.) FROM INVERT
12. (PRBWH) POLLUTION RETENTION BAFFLE WALL HEIGHT 70¾" (in.)
13. (UTH) UNDERFLOW TRANSFER HEIGHT 14.6"
14. (SH) SHELF HEIGHT (TO TOP) 29"
15. (ITD) INLET TRANSFER DISTANCE 27"
16. (BH) BASE HEIGHT 28" (in.) MAX.= 50"
17. (TH) TOP HEIGHT 9" (in.) MAX.= 48"
18. (CTR) CENTER HEIGHT 45" (in.) MAX.= 48"

- SIDE OUTLETS - OPTIONAL ☐
- RECTANGULAR OUTLETS - AVAILABLE ☐ H ___ (in.) x W ___ (in.)

STRUCTURE # "MH-3"

☐ Approved
☐ Approved As Noted

By: DATE

REV. NO.	DATE	DESCRIPTION
		PREPARED FOR: ACCT#

JOB NO. 12/2/16 | SHEET TITLE: PLAN & PROFILE | DRAWN BY: DAR | CHK'D BY: SDA
SCALE: NONE
6' 0" X 12'-0" NEW STORMPRO WORKBOOK
DRAWING NO. XXKCPXXX-0 | SHEET NO. 2 OF 8

KRISTAR CONCRETE PRODUCTS, INC.
H HO HAVAN ROAD
LOCKPORT, NEW YORK 14094
PHONE 716-434-8855
FOR SHOP INFORMATION

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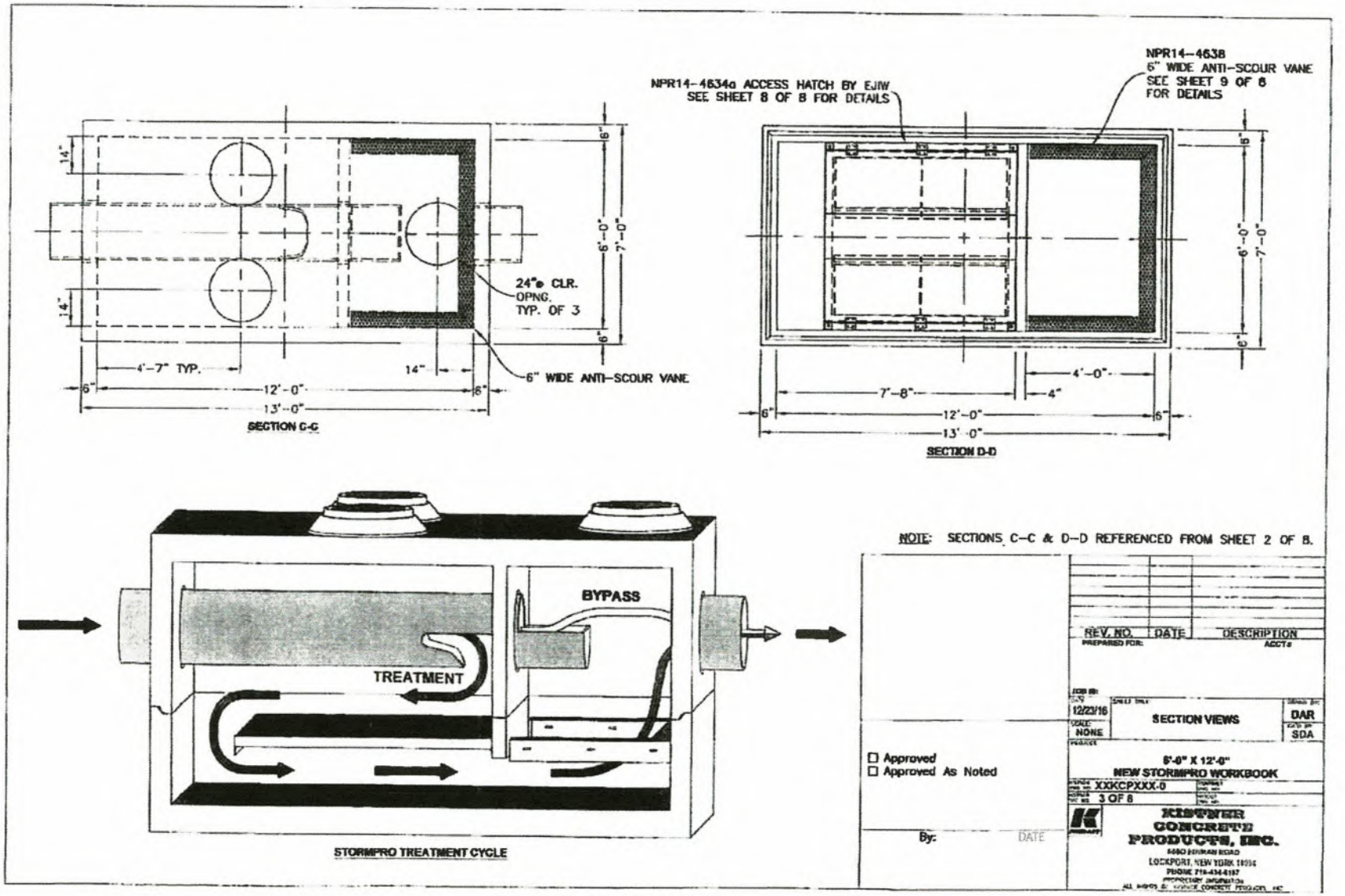

NPR14-4638
6" WIDE ANTI-SCOUR VANE
SEE SHEET 9 OF 8
FOR DETAILS
NPR14-4634a ACCESS HATCH BY EJIW
SEE SHEET 8 OF 8 FOR DETAILS
24"ø CLR.
OPNG.
TYP. OF 3
6" WIDE ANTI-SCOUR VANE
4'-7" TYP.
14"
6"
12'-0"
13'-0"
6'-0"
7'-0"
SECTION C-C
7'-8"
4'-0"
4"
SECTION D-D
BYPASS
TREATMENT
STORMPRO TREATMENT CYCLE
NOTE: SECTIONS C-C & D-D REFERENCED FROM SHEET 2 OF 8.
REV. NO.
DATE
DESCRIPTION
12/23/16
SECTION VIEWS
DAR
SDA
NONE
5'-0" X 12'-0"
NEW STORMPRO WORKBOOK
XXXCPXXX-0
3 OF 8
Approved
Approved As Noted
By:
DATE
KRISTER
CONCRETE
PRODUCTS, INC.
LOCKPORT, NEW YORK

KISTNER CONCRETE PRODUCTS INC. 8713 READ ROAD E. PEMBROKE, N.Y. 14056 (716) 894-2267

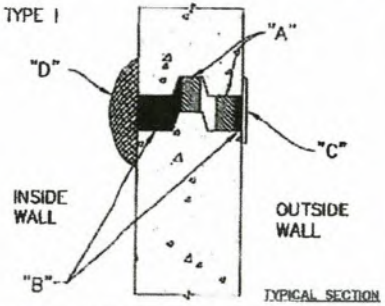
PRODUCT DESIGNATION

WATERTIGHT JOINT INSTALLATION PROCEDURE FOR STANDARD PRECAST STRUCTURES - BUTYL WRAP & GROUT

DWG. NO. ST-TJD-BW2 ©

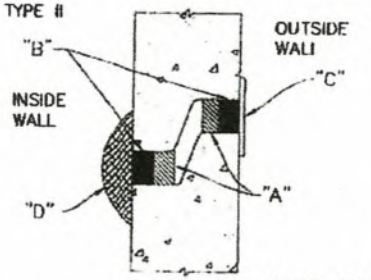
1-8-15

☐ TYPE I



TYPICAL SECTION

☒ TYPE II



TYPICAL SECTION

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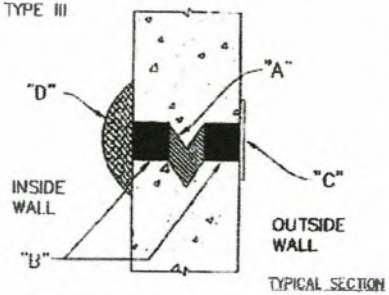
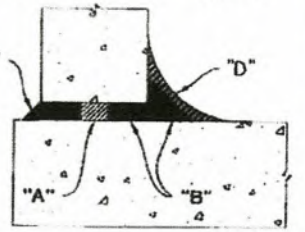


TYPICAL SECTION

☐ TYPE IV



TYPICAL SECTION

GENERAL NOTES:

"A" - JOINT SEALANT BY K.C.P.
"B" - NONSHRINK GROUT BY G.C. AVAILABLE UPON REQUEST.
"C" - 6" BUTYL WRAP INSTALLATION BY G.C. - AVAILABLE UPON REQUEST.
"D" - TAR BY G.C.

"A", "B" & "C" AVAILABLE THROUGH KISTNER CONCRETE. PURCHASED & INSTALLED BY CONTRACTOR.

JOINT DETAILS FOR WATERTIGHT INSTALLATION.

NOTE: NON-POTABLE INSTALLATIONS ONLY.

ABOVE INFORMATION IS SUPPLIED FOR CONTRACTOR KNOWLEDGE AND IS ONLY ONE OF THE MANY ACCEPTABLE SEALING METHODS IN THE INDUSTRY. CONTRACTOR IS RESPONSIBLE FOR PROPER APPLICATION AND ULTIMATE WATERTIGHT INSTALLATION OF STRUCTURE.

"A" JOINT SEALANT
"BUTYL RUBBER"
MEETS FEDERAL SPECIFICATION
#SS-S-00210 (210-A)
AASHTO M-198
SERVICE TEMP: -65° TO +200°F

PROCEDURE:

1) INSTALL STRUCTURE BOTTOM SECTION
2) LOCATE 1" SQ. BUTYL JOINT SEALANT "A" PER DETAIL.
3) INSTALL NEXT STRUCTURE SECTION.
4) WATERPLUG "B" INTERIOR & EXTERIOR, ALL GAPS.
5) BUTYL WRAP "C" USING ADHESIVE TO ASSIST DURING APPLICATION (BY CONTR.).

REV. NO.	DATE	DESCRIPTION

PREPARED FOR: ACCT #

JOB NO:
DATE: 12/23/10
SHEET TITLE: S 'ANDARD ETAILS
DRAWN BY: DAR
CHK'D BY: SDA
SCALE: NONE
PROJECT: 6' 3" X 12'-0" NEW STOR MPRO WORKBOOK
MATERIAL SPEC. NO.: XXKCPXXX-0
SHEET NO.: 4 OF 8

☐ Approved
☐ Approved As Noted

By: DATE:

KISTNER CONCRETE PRODUCTS, INC.
81 HOWARD ROAD
LOCKPORT, NEW YORK 14094
PHONE 716-434-8187
FOR ADDITIONAL INFORMATION
ALL RIGHTS OF KISTNER CONCRETE PRODUCTS, INC.

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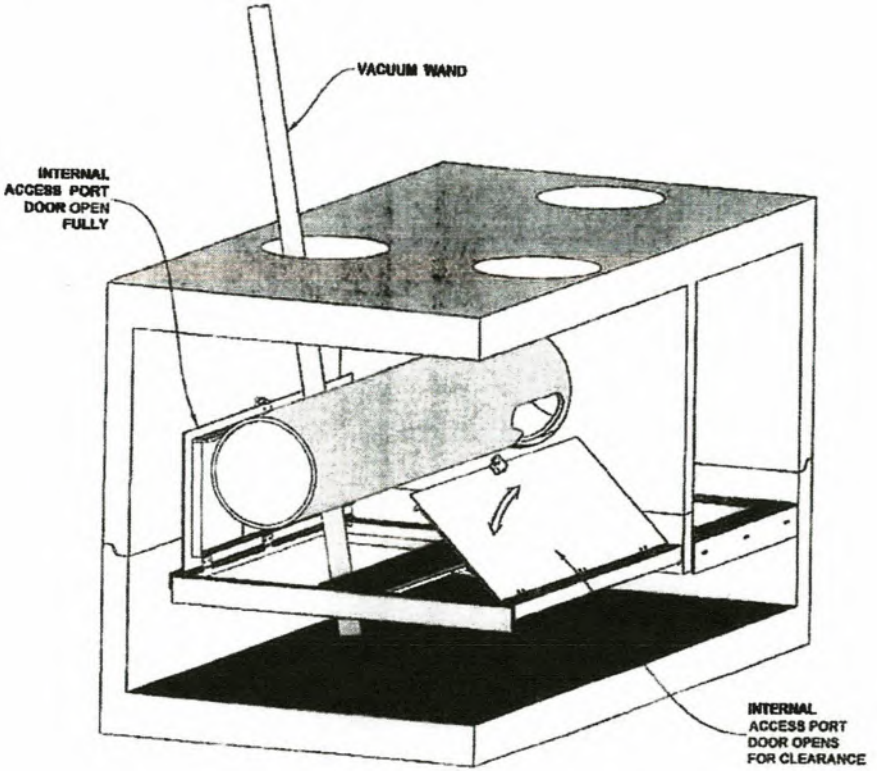

CLEANING/VACUUMING OF STORMPRO UNIT

1) REMOVE CAST IRON LIDS AT GRADE TO ALLOW ACCESS TO BOTH COMPARTMENTS. ROPING OFF OF OPEN MANWAYS IS RECOMMENDED.
2) INSERT VACUUM LINE INTO TANK THROUGH ANY OF THE OPENINGS TO REMOVE LIQUIDS, FLOATABLES AND SOLIDS.
3) REMOVE LIQUID AT LEAST DOWN TO LEVEL OF THE TOP OF THE INTERMEDIATE SHELF.
4) REMOVE GRITS AND SOLID BUILDUP ON TOP OF THE INTERMEDIATE SHELF DOOR(S) TO ALLOW EASE OF LIFTING TO ACCESS LOWER GRIT COLLECTION AREA.
5) USE AN EXTENDABLE POLE WITH A HOOK ON THE END TO ENGAGE THE LOOP HANDLE ON THE DOOR TO ALLOW FOR CLEANING OF LOWER LEVEL.
6) REACH INTO THE FIRST COMPARTMENT THROUGH EACH OPENING(S), LIFT DOORS AND LEAN AGAINST WALL OF STRUCTURE, IN THE OPEN POSITION.
7) VACUUM GRIT AND LIQUID IN LOWER LEVEL OF UNIT.
8) SOME BACKWASHING/JETTING/FLUSHING MAY BE REQUIRED TO FLUSH OUT GRIT IN HARD-TO-REACH AREAS.
9) UPON COMPLETION OF GRIT REMOVAL FROM BOTH CHAMBERS, LOWER INTERMEDIATE SHELF ACCESS DOORS DOWN INTO PLACE.
10) PLACE LIDS BACK INTO FRAMES TO SECURE THE TOP OF STRUCTURE.

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By: DATE

REV. NO.	DATE	DESCRIPTION

PREPARED FOR:
ACCT #
JOB ID:

DATE: 8/14/17
SCALE: NONE
SHEET TITLE: STORMPRO ACCESS HATCH PIPE DETAIL
DRAWN BY: DAR
CHK'D BY: SDA
9'-0" X 12'-0" NEW STORMPRO WORKBOOK
DRAWING NO: XXKCPXXX-0
SHEET NO: 5 OF 8

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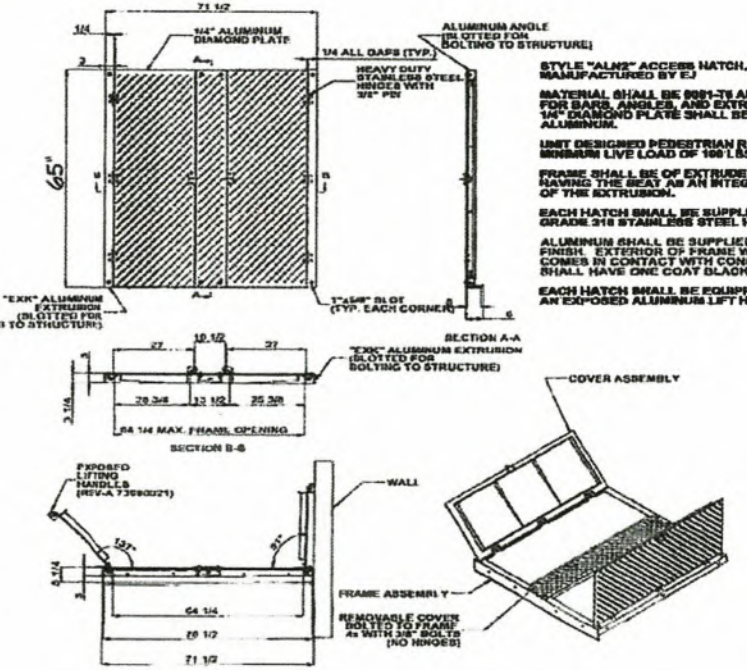
ALN2 - ALUMINUM ACCESS HATCH

ej



STYLE "ALN2" ACCESS HATCH, AS MANUFACTURED BY EJ

MATERIAL SHALL BE 6061-T6 ALUMINUM FOR BARS, ANGLES, AND EXTRUSIONS. 1/4" DIAMOND PLATE SHALL BE 5086 ALUMINUM.

UNIT DESIGNED PEDESTRIAN RATED, FOR A MINIMUM LIVE LOAD OF 100 LBS./SQ.FT.

FRAME SHALL BE OF EXTRUDED ALUMINUM HAVING THE SEAT AS AN INTEGRAL PART OF THE EXTRUSION.

EACH HATCH SHALL BE SUPPLIED WITH GRADE 316 STAINLESS STEEL HINGES.

ALUMINUM SHALL BE SUPPLIED WITH MILL FINISH. EXTERIOR OF FRAME WHICH COMES IN CONTACT WITH CONCRETE SHALL HAVE ONE COAT BLACK PRIMER.

EACH HATCH SHALL BE EQUIPPED WITH AN EXPOSED ALUMINUM LIFT HANDLES.

Product Number
NPR16-4814d
Design Features

Certification

Drawing Revision

Disclaimer

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☐ Approved As Noted

By: DATE

REV. NO.	DATE	DESCRIPTION

PREPARED FOR:

ACCT #

JOB ID:

DATE: 12/23/16
SCALE: NONE
SHEET TITLE: ACCESS HATCH DETAILS
DRAWN BY: DAR
CHK'D BY: SDA
6'-8" X 12'-8" NEW STORMPRO WORKBOOK
XXKCPXXX-0
6 OF 8

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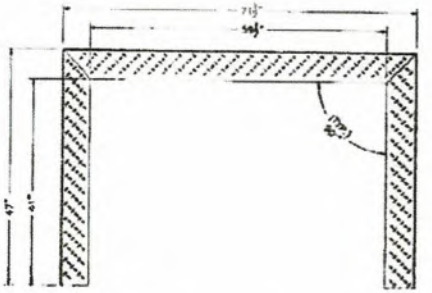

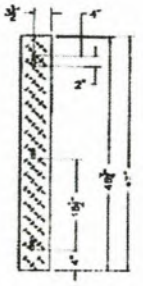

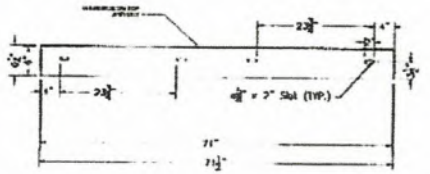

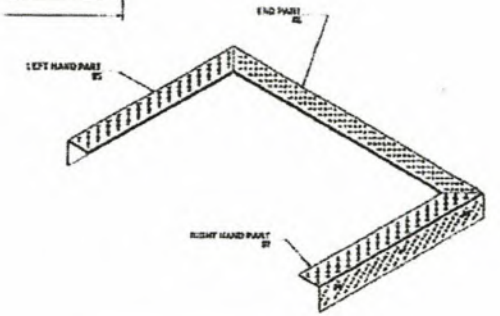

ej

Product Number
NPR14-4638a

Design Features
-Materials
8061 & 5086 Aluminum
-Design Load
100 psf
-Open Area

-Coating
Mill Finish
-√Designates Machined Surface

Certification
- NPR14-4638
- WT 48 lbs
-
-Country of Origin: USA

Drawing Revision
11/19/2014 Designer: SB
12/2/14 Revised By: SB

Disclaimer
Weights (body), dimensions (exclusive) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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Contact
800 626 4653
ejco.com

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By: DATE

REV. NO.	DATE	DESCRIPTION

PREPARED FOR: ACCT #

JOB ID:

DATE: 12/23/15
SCALE: NONE
SHEET TITLE: SHELF DETAILS
DRAWN BY: DAR
CHK'D BY: SDA

PROJECT: 8'-0" X 12'-0" NEW STORMPRO WORKBOOK
PART ID: XXKCPXXX-0
SHEET: 7 OF 8

PRIMARY

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LOCKPORT, NEW YORK 14094
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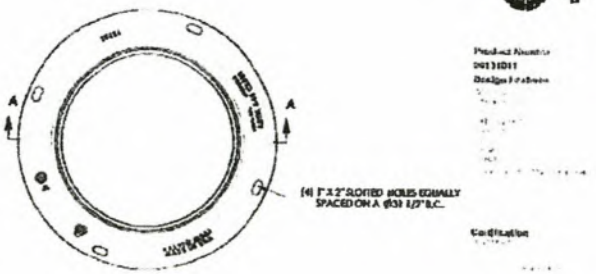
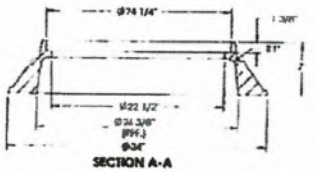
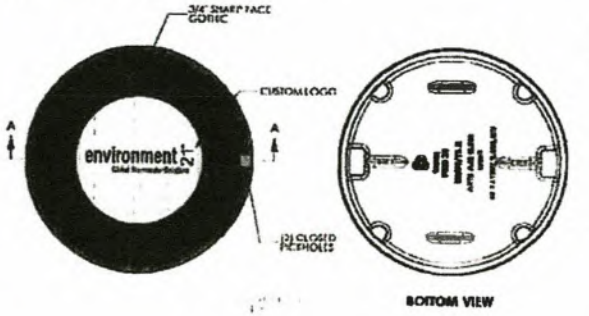
1310 Frame



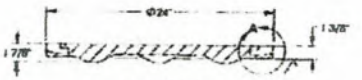


SECTION A-A

1310A2 Cover



BOTTOM VIEW



SECTION A-A

DETAIL A
PICKHOLE

PRELIMINARY

☐ Approved ☐ Approved As Noted		
By DATE	REV. NO. / DATE / DESCRIPTION	DATE: 7/7/17
	PREPARED FOR: ACC1#	SCALE: NONE
	JOB NO:	SHEET TITLE: EJ 1310 FRAME & COVER DETAILS
		DRAWN BY: DAR
		CHK'D BY: SDA
		6'-0" X 12'-0" NEW STORMPRO WORKBOOK
		DWG NO: XXKCPXXX-0
		SHEET NO: 8 OF 8

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