



August 22, 2025

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CONTRACT NO. 1797

OHIO RIVER TUNNEL

ADDENDUM No. 2

All bidders bidding **Contract No. 1797** shall read and take note of this **Addendum No. 2**. The Contract Documents for **Contract No. 1797 – Ohio River Tunnel** are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1797; Addendum No. 2

The Acknowledgement attached to **Addendum No. 2** is to be signed and returned immediately via email to ORT.bids@alcosan.org and acknowledged with Bidder's Proposal.

Michael Lichte, P.E.
Director of Regional Conveyance

ACKNOWLEDGEMENT OF
CONTRACT NO. 1797 – OHIO RIVER TUNNEL
**** return via email to ORT.bids@alcosan.org ****

ADDENDUM No. 2

FIRM NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

**August 22, 2025
CONTRACT NO. 1797
OHIO RIVER TUNNEL
ADDENDUM No. 2**

This Addendum No. 002 consists of 106 total pages including the following attachments:

- Attachment A – APPENDIX A – TECHNICAL SPECIFICATIONS, Section 01 31 00, Attachment 1 - Final Permit: NPDES Individual Permit for Discharges of Stormwater Associated with Construction (28 pages)
- Attachment B – APPENDIX A – TECHNICAL SPECIFICATIONS, Section 01 45 23, Attachment 1 - List of Historic Structures (18 pages)
- Attachment C – APPENDIX E – SUPPLEMENTAL INFORMATION, Revised Table of Contents (12 pages)
- Attachment D – APPENDIX E – SUPPLEMENTAL INFORMATION, Section 8 ORT Material Management Plan – Issued for Permit (29 pages)
- Attachment E – APPENDIX B – CONTRACT DRAWINGS, Revised O41-ST-225 (Sheet 340 of 770) (1 page)

ATTENTION BIDDERS

The following additions to and modifications of the Contract Documents will be included in and become part of the Contract for the Allegheny County Sanitary Authority (ALCOSAN) Ohio River Tunnel. Bidders are instructed to take the following into account in rendering any Bid for this work

The Bidder is responsible for verifying that he/she has received and reviewed all of the pages of the Contract Documents as well as all of the pages and attachments of all addenda. The Bidder shall verify all pages with the table of contents in the Contract Documents and the first page of all Addenda. Receipt of this Addendum No. 2 must be noted on the Bid Form. These items modify the portions of the documents specifically noted; all other provisions of the Contract Documents shall remain in effect.

CONTRACT NO. 1797
OHIO RIVER TUNNEL

ADDENDUM NO. 2

A. QUESTIONS & ANSWERS FROM RFI'S SENT TO
ORT.bids@alcosan.org

- Q1 *Referring to Vol. 1, Art. 3, Sec 3.10-INDEMNIFICATION, can you please confirm whether the intent of this Section is for the Contractor to assume full indemnification responsibility even in circumstances where the Owner, Engineer, or Construction Manager is primarily (but not solely) at fault?*

Specifically, is the Contractor expected to indemnify the Indemnified Parties (Owner, Engineer, Construction Manager) in cases where the Indemnified Parties are, for example, 99% responsible for the issue, so long as their fault does not rise to the level of sole negligence?

- A1 **Yes – the Contractor is expected to indemnify the specified Indemnified Parties with the provision that the foregoing obligations shall not arise if such liabilities, suits, actions claims, losses, expenses and costs are caused by the sole negligence of any of the Indemnified Parties.**

- Q2 *Referring to Vol. 1, Art. 3, Sec 3.10-INDEMNIFICATION, “The Contractor shall be liable for, and shall protect, defend, indemnify and save harmless the Owner, the Consulting Engineer(s), the Construction Manager, and their officers, members, employees, agents and invitees, along with any other parties Owner has agreed to indemnify in connection with Work for the Project (hereinafter, the “Indemnified Parties”)”*

Please advise what other parties Alcosan has agreed to indemnify.

- A2 **A current list is provided in Article 3SC, Section 3.10 in the Supplemental Contract Conditions. Article 3 SC, Section 3.10 INDEMNIFICATION requires the Contractor to indemnify “any other parties Owner has agreed to indemnify in connection with Work for the Project” which includes the temporary construction easement and license agreement holders. This requirement is mirrored in Exhibit A-3SC’s insurance requirements which requires liability policies to include as an additional insured, by broad form endorsement, all those Temporary Construction Easement Property Owners that ALCOSAN has agreed to indemnify.**

- Q3 *Referring to Vol. 1, Art. 3, Sec 3.23-AUTHORITY OF THE OWNER, Can you please clarify whether the Owner’s authority under Section 3.23—to serve as the sole judge*

of the intent and meaning of the Contract Documents, with its interpretations being final, conclusive, and binding—supersedes or otherwise limits the applicability or effectiveness of the dispute resolution procedures outlined in Sections 2.32 (Dispute Review Board) and 3.56 (Disputes and Claims)?

Specifically, is it the intent of the contract that the dispute resolution process effectively starts and ends with the Owner's interpretation (Per Section 3.23), unless the Owner elects to engage the DRB (Section 2.32) or arbitration/legal proceedings (Section 3.56) at its sole discretion?

A3 **Section 3.23 of the of the General Contract Conditions provides that the Owner's interpretation of the contract documents is final and binding. Supplemental Contract Conditions, Sec. 3.56-DISPUTES AND CLAIMS provides a mechanism by which the Contractor may dispute an Owner decision. That Section provides both the Contractor and Owner the right to refer disputes to the DRB, provided the conditions precedent to doing so have been satisfied.**

Q4 *Referring to Vol. 1, Art. 3, Sec 3.29b-TIME FOR COMPLETION, MILESTONE DATES- Schedule, the specifications reference that the Contract Schedule must demonstrate the Contractor's ability to meet "Project Milestones," but no specific Project Milestones appear to be identified in the Contract Documents provided to date.*

Can you please advise if there are any defined Project Milestones required for this project?

Can you please confirm where the specification states "Where the achievement of a Project Milestone is dependent upon the Contractor's completion of all or any portion of the Work to be performed under this Contract, a "Construction Milestone" applicable to the Contractor's Work will be established by the Owner and incorporated by the Contractor into the Contract Schedule." That the only two Construction Milestones required to be incorporated into the Project Schedule are, Substantial Completion and Final Completion, as referenced in the Contract Agreement?

A4 **Please refer to the CONTRACT DOCUMENTS, Article 4, Item 2 (page 4-2) for contract milestones.**

Q5 *Referring to Vol. 1, EXHIBIT A - INSURANCE-Property Insurance (4) - "Include Coverage for loss of use or time delay"*

Please provide a daily cost for the "loss of use" beyond the contractual completion date as well as the coverage duration this policy should be in place through so our Insurance Broker can responsibly provide us with quote for this Builders Risk Insurance requirement.

A5 **Builders Risk insurance is for the term of the contract only.**

Q6 *Corner struts are shown on Drawing O41-ST-200 (Sheet 315 of 770), but the member size/weights appear to be missing from Drawing O41-ST-201 (Sheet 316 of 770) which also includes the bracing schedule for the O-41-RG Support of Excavation which does not include the member size/weight for corner struts.*

Please provide the required member size/weight of the corner struts for bracing levels 1 and 2.

A6 **Corner struts are identical to cross struts in this sheet at this location.**

Q7 *The pile schedule for MH3 shown on Drawing O41-ST-225 (Sheet 340 of 770) indicates an estimated pile tip el. of 684 and estimated pile length of 21' from elevation 705. However, the minimum rock socket required is 5' and the assumed rock elevation is 660', which would equate to a minimum pile length of 50'.*

Please confirm if a minimum rock socket depth of 5' is a requirement.

A7 **Drawing O41-ST-225 is revised and attached as Addendum 2 Attachment E.**

Q8 *Drawings O41-ST-218 (Sheet 333 of 770), A58-ST-417 (Sheet 418 of 770), and O076-ST-707 (Sheet 596 of 770) provide pile schedules which include the vertical and horizontal design load per pile for the different outfall structures. Drawing O41-ST-225 (Sheet 340 of 770) includes a similar pile schedule for SMRT-O41-MH3 but does not provide the vertical and horizontal design load for the piles.*

Please provide the vertical and horizontal design loads for SMRT-O41-MH3.

A8 **Drawing O41-ST-225 is revised and attached as Addendum 2 Attachment E.**

Q9 *Specifications from Section: 01 32 13 - 2, 1.3.D (Sheet:296 of 2656) state work exemptions from regular working hours.*

Bidders will need to rely on the correct working hours and constraints at each site to develop a Project CPM schedule. Please confirm all work performed via work exemptions can be performed 24 hours per day.

A9 **Section: 01 32 13 1.3.D relies upon all of the qualifications in Section 01 32 13, 1.3. Should a Bidder achieve all of the qualifications in Section: 01 32 13, 1.3 A, B, C and D, then the operations can assume to be conducted 24 hours per day.**

Be advised per this Addendum, APPENDIX A, TECHNICAL SPECIFICATIONS, Section 01 32 13, Section 1.3 WORK HOURS has been updated; see B.2 below.

Q10 *Specifications from Section: 01 32 13 - 2, 1.3.D.5 (Sheet:296 of 2656) state that "underground work including probing, grouting, drilling, maintenance and other*

underground blast related work" is exempt from regular working hours.

Please confirm the above referenced specification is inclusive of ancillary work necessary to support each stated operation (i.e., surface support operations) and said ancillary work is considered exempt from regular working hours.

- A10 **Section: 01 32 13, 1.3.D.5 states that "...underground work including probing, grouting, drilling, maintenance, and other underground non-blast related work..." is exempt from regular work hours. Activities which are above ground, onsite, specific and supportive of each stated operation (probing, grouting, drilling, maintenance, and other underground non-blast related work) should be considered included in the exempt work.**

- Q11 *Specifications from Section: 01 45 23 - Paragraph 3.3.G.2 (Sheet: 590 of 2656) states that "Complete internal video survey for all underground sewer utilities and culverts within the limits and distances specified in this Section."*

Specifications from Section: 31 71 16 - Paragraph 1.2.G (Sheet: 2046 of 2656) states that "Blast Zone of Influence... For tunnel excavation by blasting, a zone within 200 feet from centerline... For shaft excavation by blasting, a zone within 300-foot radius from the blast face"

Contract Drawings do not encompass the full zone of influence depicting all utilities which require internal video surveys. Please provide a comprehensive sewer utility map within the extents of the prescribed Zones of Influence as necessary for Bidders to accurately price the Work.

- A11 **Response to be provided with future addendum.**

- Q12 *The Pre-Bid Meeting Presentation Slide 10 states "Subcontractor experience will count towards bidder's qualifications".*

The Bid Documents Article 1 Page 1-33 Schedule B - Reference Projects, and Page 1-34 Schedule C - Personnel do not specifically mention the minimum stated qualifications may be met using a Bidder's Subcontractor.

Please confirm that a Bidder may meet the minimum Schedule B Reference Projects requirements and Schedule C Personnel requirements utilizing Subcontractor(s) that possess the required experience.

Please clarify what information (if any) a Bidder must disclose regarding Subcontractor participation to meet the aforementioned requirements within the Bidder's Qualification Statement. For example, does the Bidder need to clearly state the Subcontractor names performing specific scopes of work validating the required experience? Please note that if Subcontractor experience is not allowed to

- count toward Bidder's minimum requirements, ALCOSAN may preclude themselves from receiving competitive bids.*
- A12 **Subcontractor or Joint Venture Partner experience counts toward bidder qualifications. Bidder is permitted to engage and utilize a subcontractor for their Bid in order to meet the experience and personnel requirements outlined in Schedule B and Schedule C. Where Subcontractor experience and qualifications are utilized to meet the requirements for the Bidder's project experience and personnel, the Bidder shall disclose the Subcontractor and submit the experience documentation listed in Schedule B and Schedule C for that Subcontractor.**
- Q13 *The Legal Notice, and Information to Bidders sections 2.05 and 2.27 state that attendance at both the Pre-Bid Conference and Site Tour is mandatory. ALCOSAN issued Addendum 1 - Attachment D (Site Visit Attendance Sheet).*
- Please confirm that ALCOSAN will disqualify any Bids received from a Bidder not present at both the Pre-Bid Conference and Site Tour.*
- A13 **Bidders are required to attend both the Pre-Bid Conference, Site Tour, and Core Shed Visit, as specified. Joint-Venture Partners or Subcontractors count toward this requirement.**
- Q14 *Specification Section: 03 24 00 - 5 - Paragraph 1.4.H.4.a (Sheet: 985 of 2656) states "Dosage and distribution shall be demonstrated by washout testing in accordance with ."*
- The above referenced specification is incomplete. Please provide a complete specification.*
- A14 **Specification Section 03 24 00, Paragraph 1.4.H.4.a should read: "Dosage and distribution shall be demonstrated by washout testing in accordance with BS EN 14721 + A1, latest version."**
- Q15 *Please provide the CAD files for the Contract Drawings to the Bidders via Addendum.*
- A15 **CAD files will not be provided to the Bidders**
- Q16 *Please reference Specification Section 01 22 00 Measurement and Payment, 3.2 Bid Items, Bid Item 31, 32, 103, and 104 . Please also reference Contract Documents (Front End), Bid Form.*
- These bids items are paid for by the Bank Cubic Yard. It is typical in the industry that handling, transport and disposal of spoils are paid by the ton. Please consider modifying the units for these items to be paid by the ton (transported and disposed).*
- Q16 **There will be no change to the units for these bid items.**

B. CHANGES TO CONTRACT DOCUMENTS

1. APPENDIX A - Specification Section 01 31 00, Attachment 1:
 - a) DELETE the *Draft Permit: NPDES Individual Permit for Discharges of Stormwater Associated with Construction Activities in its entirety.*
 - b) ADD the *Final Permit: NPDES Individual Permit for Discharges of Stormwater Associated with Construction Activities*, issued by PADEP, which is Attachment A to this Addendum, including Attachment 1 flysheet.
2. APPENDIX A – Specification Section 01 32 13, Section 1.3 WORK HOURS:
 - a) DELETE Section 1.3.A. in its entirety.
 - b) ADD the following in its entirety. “Section 1.3.A. Work at the CCT-O06A and the CCT-O07 sites in McKees Rocks Borough is permitted between the Regular Work Hours of 7:00 AM and 7:00 PM Monday through Friday, excluding Legal Holidays. No Work at either site is permitted to occur outside of these hours without written approval of the Owner and the Borough of McKees Rocks.”
3. APPENDIX A – Specification Section 01 32 13, Section 1.3.D. Work exempt from Regular Work Hours includes:
 - a) ADD Section 1.3.D.7. in its entirety as follows: “Bypass pumping and control of groundwater inflow pumping at CCT-O06A and CCT-O07 sites in McKees Rocks Borough.”
4. APPENDIX A – Specification Section 01 45 23, Attachment 1:
 - a) DELETE Attachment 1 – List of Historic Structures in its entirety.
 - b) ADD the revised complete (18-page) Attachment 1 – List of Historic Structures, which is Attachment B to this Addendum. In the revised list, duplicate rows were removed.
5. APPENDIX E - ADD APPENDIX E revised Table of Contents and Section 8, which are Attachments C and D to this Addendum. APPENDIX E (full) Table of Contents, and fly sheet redlines for the sheets with updates, are included in Attachment C to this Addendum. Section 8 is the *ORT Material Management Plan – Issued for Permit* which is Attachment D to this Addendum. The Section 8 document is referenced in Specification Section 01 31 00, Attachment 1, the Final NPDES Individual Permit for Discharges of Stormwater Associated with Construction Activities, issued by PADEP.
6. APPENDIX E - REMOVE the landfill receipt and Non-Hazardous Waste Manifest from Section 1.6.8.

7. APPENDIX E - REMOVE the *Eurofins Analytical Report* from Section 1.6.8 and ADD the *Eurofins Analytical Report* to Section 1.6.4, because it applies to the O14 Battaglia Parcel – 1730 Riverside Street.
8. APPENDIX B – CONTRACT DRAWINGS
 - a) DELETE O41-ST-225 (Sheet 340 of 770).
 - b) ADD Revised O41-ST-225 (Sheet 340 of 770), which is Attachment E to this Addendum.
9. CONTRACT DOCUMENTS, Article 4, Item 3 – ADD the following in **RED TEXT** after the Liquidated Damages table.

Construction Milestone	Liquidated Damages/ Calendar Day
Interim Milestone #1 – Demobilize AS1 Site	\$19,450/calendar day
Substantial Completion of Contract 1797	\$25,840/calendar day
Final Completion of Contract 1797	\$11,120/calendar day

Liquidated Damages shall be capped at 5% of the Contract Value.

10. CONTRACT DOCUMENTS, Article 4, Item 3, 3rd Paragraph – ADD the following in **RED TEXT** after:

The Contractor acknowledges and agrees that the liquidated damages set forth in the provision are not a penalty but instead are intended to compensate the Owner for those losses incurred due to the Contractor's failure to meet the Interim Milestone #1, Substantial Completion or Final Completion. Further, the receipt of liquidated damages by the Owner shall in no way limit or reduce the Owner's right to pursue other rights and remedies as provided in the Contract with the Contractor or otherwise available to the Owner. **The proposed Liquidated Damages shall constitute the sole and exclusive remedy for delay.** The Owner may deduct the aforementioned liquidated damages from any unpaid amounts then or thereafter due to the Contractor. Any liquidated damages remaining unsatisfied shall be due and payable to the Owner by the Contractor upon demand.

11. CONTRACT DOCUMENTS, Article 2 REPLACE Paragraph 2.34 GEOTECHNICAL BASELINE REPORT in its entirety with the following [CHANGES ARE DENOTED IN RED]:
2.34 GEOTECHNICAL BASELINE REPORT

A Geotechnical Baseline Report (GBR) is included as part of the Contract Documents. ~~The GBR is the single interpretive report addressing subsurface conditions in the Contract Documents and takes precedence over the GDR. The GBR is not the sole basis of evaluating what is or is not a Differing Site Condition (DSC).~~ See Article 3 and Article 3SC 3.84 ⁽¹⁾ for the definition and process regarding DSCs. Other indications of site conditions and anticipated quantities or work are contained in other Contract Documents.

The GBR is provided for the Bidder's evaluation of the anticipated ground conditions, in planning the means and methods of construction and in preparing the Bid. In the event that the Bidder has not relied on the GBR in preparing its bid, said Bidder assumes the risk differential between the conditions described in the GBR and the conditions used in preparing its Bid should it execute an Agreement with the Owner for the Project.

**** ⁽¹⁾ note: Article 3SC 3.84 added in Addendum #1

12. CONTRACT DOCUMENTS, Article 3 Paragraph 3.3 ADDITIONAL DEFINITIONS Subparagraph J – INSERT “actual” as shown below [CHANGES ARE DENOTED IN RED]:

J. DIFFERING SITE CONDITIONS

Differing Site Conditions are actual subsurface or latent physical conditions at the Job Site(s) that differ materially from those indicated in this Contract; or unknown physical conditions at the Job Site(s) of an unusual nature which differ materially from those ordinarily encountered and generally recognized as inherent to the work of the character provided in the Contract Documents in the general location of and around the Job Site(s).

13. CONTRACT DOCUMENTS, Article 3SC Paragraph 3.3 ADDITIONAL DEFINITIONS Subparagraph SS – REPLACE in its entirety with the following [CHANGES ARE DENOTED IN RED]:

SS. GEOTECHNICAL BASELINE REPORT (GBR) is the only interpretive report in the Contract regarding subsurface conditions ~~at~~ and takes precedence over the Job Site(s). It describes certain GDR. The contractual baseline conditions ~~that~~ established in the GBR are anticipated/intended to be used in the assessment of Differing Site Conditions (DSC) during construction. Whenever there is an inconsistency between conditions indicated in the GBR and conditions indicated in: (a) the GDR; or (b) elsewhere in the Contract Documents, then the conditions indicated in the GBR shall take precedence and shall be the baseline conditions against which actual conditions encountered and can be relied upon are compared for bidding and contract administration purposes, subject to the controlling provisions of the Contract, including the GBR's own terms. If the GBR is silent on a particular matter, the parties may refer the purpose of determining if a DSC exists. The baseline conditions shall not be used to make DSC determinations at locations that have not been baselined in the GBR, or at any location with respect to other indications in the Contract to help resolve the matters subsurface conditions that the baseline conditions do not address.

14. CONTRACT DOCUMENTS, Article 3SC Paragraph 3.31 REQUESTS FOR INFORMATION AND FIELD INSTRUCTIONS, ADD the following subparagraphs after Article 3 - 3.31 B. 3.

4. Upon discovering an alleged Differing Site Condition and before the condition is further disturbed, Contractor shall immediately, after taking appropriate measures to secure the Work: (a) make safe and secure the affected area; and (b) notify Owner of the alleged Differing Site Condition in accordance with Article 3.31.B.2. Contractor's notice to Owner shall provide a brief description of why the condition encountered is considered a Differing Site Condition. If, during tunnel excavation with a tunnel boring machine (TBM), the Contractor encounters an alleged Differing Site Condition, the Contractor shall immediately give written notice and may continue tunneling; provided however that the following documents and information shall be submitted daily:

a. Digital photographs (paper and electronic copy) that detail the Differing Site Conditions.

b. An electronic copy of the TBM data for the previous 24 hours.

c. Provide to the Owner a sample(s) of the excavated ground in the alleged Differing Site Condition area, taken from the TBM spoil discharge point or as directed by the Engineer, equivalent in volume to a full sandbag for each ring advance while the alleged Differing Site Condition exists.

d. Contractor's daily shift reports for the previous 24 hours production for each day that the alleged Differing Site Condition exists; and

e. Records, face logs, and detailed daily records describing the ground conditions and the impact the ground conditions are having on the TBM and productivity.

Within 2 calendar days of discovering an alleged Differing Site Condition the Contractor will produce a plan for the safe continuation of the work, limiting the Owner to increased costs and delays as far as practically possible

Addendum No. 2

Attachment A

**APPENDIX A – TECHNICAL
SPECIFICATIONS, Section 01 31 00,
Attachment 1 - Final Permit: NPDES Individual
Permit for Discharges of Stormwater Associated
with Construction Activities**

Attachment 1

NPDES Individual Permit for Discharges of Stormwater Associated with Construction Activities
issued by Pennsylvania Department of Environmental Protection (PADEP) and Allegheny
County Conservation District (ACCD) (~~Draft; Final is pending~~)



Pennsylvania
**Department of
Environmental Protection**

July 3, 2025

Michelle Buys
Allegheny County Sanitary Authority (ALCOSAN)
3300 Preble Avenue
Pittsburgh, PA 15233
Email: michelle.buys@alcosan.org

Re: Individual NPDES Permit
Allegheny County Sanitary Authority (ALCOSAN)
NPDES Permit No. PAD020084
City of Pittsburgh, Allegheny County

Dear Michelle Buys:

Under the authority of the federal Clean Water Act and Pennsylvania's Clean Streams Law, the Department of Environmental Protection (DEP) approves your application for a new Individual NPDES Permit for Discharges of Stormwater Associated with Construction Activities. Your permit is enclosed. **Please review the permit carefully and contact this office if you have any questions.**

The latest versions of the application and its supporting documents, including the Erosion and Sediment Control (E&S) Plan and Post-Construction Stormwater Management (PCSM) Plan, are incorporated into this approval, including the following plan drawings:

- The E&S Plan drawings, for Ohio River Tunnel Erosion and Sediment Control Plan, dated April 19, 2024, and last revised June 17, 2025.
- The PCSM Plan drawings for Ohio River Tunnel Post Construction Stormwater Management Plan, dated April 19, 2024, and last revised June 17, 2025

Your permit, which has been assigned NPDES Permit No. PAD020084, is effective on **July 3, 2025** and will expire on **July 2, 2030**. **If stormwater discharges associated with construction activities are expected to continue beyond the expiration date of the permit, you must apply to renew your permit at least 180 days prior to the expiration date, unless otherwise approved by DEP.**

Please review the permit carefully and contact this office if you have any questions. Please pay particular attention to the following requirements of the permit:

Prior to commencing earth disturbance activities resulting in stormwater discharges you must complete all of the following:

1. You must obtain all other state and local permits.
2. You must hold a pre-construction meeting unless waived by the District or DEP, in writing.

You will need to visit DEP's website to download and use the following forms throughout your term of permit coverage. Go to www.dep.pa.gov/constructionstormwater, select E&S Resources, and click on the links under "Published Forms."

- **Visual Site Inspection Report (3800-FM-BCW0271d)** – You must use this report or an alternative document or electronic form that collects and retains identical information to document self-inspections of your project site. Inspections must occur weekly, following storm events of at least 0.25 inch, and in response to deficiencies. You must maintain these reports on-site and submit the reports upon request.
- **New Property Owner Notification Form (3800-FM-BCW0271i)** – If you sell property within your project site that contains a PCSM SCM, you must submit this form to the District and/or DEP within 30 days of the date of the sale.
- **SCM Construction Certification Form (3800-FM-BCW0271j)** – You must submit this form to the District and/or DEP within 30 days of the completion of any structural PCSM SCM, as determined by a licensed professional. The permittee and licensed professional responsible for oversight of critical stages of SCM construction must sign the form.
- **Annual Report (3800-PM-BCW0405e)** – You must submit the annual report by December 7 of each year; your first report is due December 7, 2026
- **Notice of Termination (NOT) (3800-PM-BCW0229b)** – You must submit the NOT following installation of erosion and sediment control (E&S) best management practices (BMPs) and PCSM SCMs; permanent stabilization of earth disturbance activities; and removal of temporary E&S BMPs.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800-654-5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <https://ehb.pa.gov> or by contacting the Secretary to the Board at 717-787-3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717-787-3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

If you have questions, please contact Ryan McNatt by e-mail at rmcnatt@pa.gov or by telephone at 412-442-4076 and refer to Permit No. PAD020084.

Sincerely,

Dana Drake

Dana Drake
Environmental Program Manager
PA DEP, SWRO

cc: Kathy Chavara, Mott MacDonald (Kathy.chavara@mottmac.com)
Allegheny County Conservation District
City of Pittsburgh

Enclosures: Individual NPDES Permit



**AUTHORIZATION TO DISCHARGE UNDER THE
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 INDIVIDUAL PERMIT FOR DISCHARGES OF
 STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES**

NPDES PERMIT NO: PAD020084

In compliance with the provisions of the Clean Water Act, 33 U.S.C.A. §§ 1251--1387 and the Clean Streams Law, as amended, 35 P.S. §§ 691.1--691.1001,

**Allegheny County Sanitary Authority (ALCOSAN)
 3300 Preble Avenue
 Pittsburgh, PA 15233-1092**

(permittee) is authorized to discharge from a project site known as **ALCOSAN Ohio River Tunnel (ORT)**, located in **City of Pittsburgh & McKees Rocks Borough, Allegheny County** to **Ohio River (WWF), Allegheny River (WWF) & Chartiers Creek (WWF)** in accordance with the effluent limitations, monitoring and reporting requirements, best management practices (BMPs), stormwater control measures (SCMs) and other conditions set forth in Parts A, B, and C herein.

THIS PERMIT SHALL BECOME EFFECTIVE ON JULY 3, 2025

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON JULY 2, 2030

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
2. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (40 CFR 122.41(a))
3. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. (40 CFR 122.41(b), 122.21(d))

In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. (25 Pa. Code §§ 92a.7(b), (c))

ISSUANCE DATE:

JULY 3, 2025

Dana Drake

Dana Drake

Environmental Program Manager

Southwest Regional Office

PART A

EFFLUENT LIMITATIONS, MONITORING AND REPORTING REQUIREMENTS

I. DEFINITIONS

Antidegradation Best Available Combination of Technologies (ABACT) means environmentally sound and cost-effective treatment, land disposal, pollution prevention and stormwater re-use BMPs that individually or collectively manage the difference in the net change in stormwater volume, rate, and quality for storm events up to and including the 2 year/24 hour storm when compared to the stormwater rate, volume, and quality prior to the earth disturbance activities to maintain and protect the existing quality of the receiving surface waters of this Commonwealth. (25 Pa. Code § 102.1)

Accelerated Erosion means the removal of the surface of the land through the combined action of human activities and the natural processes, at a rate greater than would occur because of the natural process alone. (25 Pa. Code § 102.1)

Best Management Practices (BMPs) means activities, facilities, measures, planning, or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters of this Commonwealth before, during, and after earth disturbance activities. (25 Pa. Code § 102.1)

Clean Fill means uncontaminated, nonwater-soluble, nondecomposable, inert solid material used to level an area or bring an area to grade. The term does not include materials placed in or on the waters of the Commonwealth. Although the placement of clean fill in or on waters of the Commonwealth cannot be managed under this policy, placement of clean fill in or on waters of the Commonwealth may be approved under a separate DEP authorization. The term includes only those materials that are identified as "fill," as the term is defined in this policy. The term does not include fill that has been blended, mixed or treated with the purpose of meeting the definition of "clean fill" and that without being blended, mixed or treated would fail to meet the numeric limits identified in the definition of "uncontaminated material" contained in this policy.

Clean Streams Law means the Act of June 22, 1937, P.L. 1987, No. 394, as amended. (35 P.S. §§ 691.1--691.1001)

Clean Water Act means the Federal Water Pollution Control Act, as amended. (33 U.S.C.A. §§ 1251--1387)

Combined Sewer System means a sewer system that has been designed to serve as both a sanitary sewer and a storm sewer. (25 Pa. Code § 92a.2)

Co-Permittee means a person identified on the Authorization to Discharge page of this permit as responsible for the discharges of stormwater associated with construction activity who is jointly and individually responsible together with the permittee for compliance with all terms and conditions of this permit and applicable laws.

County Conservation District (CCD) means a conservation district, as defined in Section 3(c) of the Conservation District Law (3 P.S. § 851(c)), which has the authority under a delegation agreement executed with DEP to administer and enforce all or a portion of the erosion, sediment, and stormwater management program in this Commonwealth. (25 Pa. Code § 102.1)

Critical Stages means the installation of underground treatment BMPs, structurally engineered BMPs, or other BMPs or components thereof as deemed appropriate by DEP or a CCD and that require the oversight of a licensed professional or designee.

DEP means the Department of Environmental Protection.

Designated uses means those uses specified in 25 Pa. Code §§ 93.4(a) and 93.9a--93.9z for each water body or segment, whether or not they are being attained, to be achieved as part of Pennsylvania's water quality standards. (25 Pa. Code § 93.1)

Designee means a licensed professional as defined in this permit or someone acting on behalf of a licensed professional who has knowledge, skill, experience, training and education in the field of engineering, landscape

architecture, geology, or land surveying that is beyond that possessed by a layperson and upon which a licensed professional can rely upon to provide oversight of critical stages of PCSM Plan implementation. A designee must be independent from the operator co-permittee(s) responsible for the construction or installation of SCMs on a project site.

Dewatering means the act of draining accumulated stormwater and/or groundwater from building foundations, vaults, and trenches, or other similar points of accumulation.

Disturbed area means unstabilized land area where an earth disturbance activity is occurring or has occurred. (25 Pa. Code § 102.1)

Earth Disturbance Activity means a construction or other human activity which disturbs the surface of the land, including land clearing and grubbing, grading, excavations, embankments, land development, agricultural plowing or tilling, operation of animal heavy use areas, timber harvesting activities, road maintenance activities, oil and gas activities, well drilling, mineral extraction, and the moving, depositing, stockpiling, or storing of soil, rock, or earth materials. (25 Pa. Code § 102.1)

Environmental Due Diligence means investigative techniques, including visual property inspections, electronic database searches, review of ownership and use history of property, Sanborn maps, environmental questionnaires, transaction screens, analytical testing, and environmental assessments or audits.

EPA means the United States Environmental Protection Agency.

Erosion means the natural process by which the surface of the land is worn away by water, wind, or chemical action. (25 Pa. Code § 102.1)

Erosion and Sediment Control Plan (E&S Plan) – A site-specific plan consisting of both drawings and a narrative that identifies BMPs to minimize accelerated erosion and sedimentation before, during, and after earth disturbance activities. (25 Pa. Code § 102.1)

Exceptional Value Waters means surface waters of high quality which satisfy 25 Pa. Code § 93.4b(b) (relating to antidegradation). (25 Pa. Code § 93.1)

Existing uses means those uses actually attained in the water body on or after November 28, 1975, whether or not they are included in Pennsylvania's water quality standards. (25 Pa. Code § 93.1)

Impaired Waters means surface waters that fail to attain one or more of its designated uses under 25 Pa. Code Chapter 93 and is listed in Categories 4 and 5 of Pennsylvania's Integrated Report.

Integrated Water Quality Monitoring and Assessment Report (Integrated Report) means DEP's report on the conditions of Pennsylvania's surface waters to satisfy Sections 305(b) and 303(d) of the Clean Water Act when approved by EPA.

Intermittent stream means a body of water flowing in a channel or bed composed primarily of substrates associated with flowing water which, during periods of the year, is below the local water table and obtains its flow from both surface runoff and groundwater discharges. (25 Pa. Code § 102.1)

High Quality Waters means surface waters having quality which exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water by satisfying 25 Pa. Code § 93.4b(a). (25 Pa. Code § 93.1)

Infiltration-based SCM means an SCM that principally functions by allowing stormwater to infiltrate through the bottom and/or sides of the SCM to the subsurface environment.

Licensed Professional means professional engineers, landscape architects, geologists, and land surveyors licensed to practice in the Commonwealth. (25 Pa. Code § 102.1)

Long-Term Operation and Maintenance (O&M) means the routine inspection, maintenance, repair, or replacement of a BMP to ensure proper function for the duration of time that the BMP is needed. (25 Pa. Code § 102.1)

Municipal Separate Storm Sewer System (MS4) means all separate storm sewers that are defined as “large” or “medium” or “small” municipal separate storm sewer systems pursuant to 40 CFR §§ 122.26(b)(4), (b)(7), and (b)(16), respectively, or designated under 40 CFR § 122.26(a)(1)(v). (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(18))

Municipality means a county, city, borough, town, township, school district, institution, or authority, or another public body created by or pursuant to State Law. For the purposes of this definition, town includes an incorporated town. (25 Pa. Code § 102.1)

Notice of Termination (NOT) – A request, on a form provided by DEP, to terminate coverage under a General NPDES Permit for Discharges of Stormwater Associated with Construction Activities. (25 Pa. Code § 102.1)

Non-discharge alternative – Environmentally sound and cost effective BMPs that individually or collectively eliminate the net change in stormwater volume, rate, and quality for stormwater events up to and including the 2-year/24-hour storm when compared to the stormwater rate, volume, and quality prior to the earth disturbance activities to maintain and protect the existing quality of the receiving surface waters of this Commonwealth. (25 Pa. Code § 102.1)

Non-Stormwater Discharges means discharges that do not originate from storm events, which may include, but are not limited to, discharges of air conditioner condensate, non-contact cooling water, pavement wash water, external building washdown, irrigation water, or uncontaminated ground water or spring water.

Off-Site Construction Support Activities or Off-Site Support Activities means activities providing support for construction and earth disturbance activities covered by this permit, including but not limited to concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas (spoil), borrow areas, stockpiling of topsoil, transfer of topsoil to other locations, and turnaround areas.

Operator or Operator Co-Permittee means a person who has one or more of the following: (i) oversight responsibility of earth disturbance activity on a project site or a portion thereof who has the ability to make modifications to the E&S Plan, PCSM Plan or site specifications, (ii) day-to-day operational control over earth disturbance activity on a project site or a portion thereof to ensure compliance with the E&S Plan or PCSM Plan. (25 Pa. Code § 102.1)

Owner means a person who holds the legal title to the land subject to construction activity. This term also includes the person who held legal title to the land subject to construction activity at the time such activity was commenced on a site.

PCSM SCM means an SCM that is designed and implemented to satisfy the requirements of 25 Pa. Code § 102.8(g).

Perennial stream means a body of water flowing in a channel or bed composed primarily of substrates associated with flowing waters and capable, in the absence of pollution or other manmade stream disturbances, of supporting a benthic macro-invertebrate community which is composed of two or more recognizable taxonomic groups of organisms which are large enough to be seen by the unaided eye and can be retained by a United States Standard No. 30 sieve (28 meshes per inch, 0.595 mm openings) and live at least part of their life cycles within or upon available substrates in a body of water or water transport system. (25 Pa. Code § 102.1)

Permittee means a person who has coverage under this permit.

Permanent Stabilization means long-term protection of soil and water resources from accelerated erosion. (25 Pa. Code § 102.1)

Person – Any operator, individual, public or private corporation, partnership, association, municipality or political subdivision of this Commonwealth, institution, authority, firm, trust, estate, receiver, guardian, personal representative, successor, joint venture, joint stock company, fiduciary; Department, agency or instrumentality of state, federal, or local government, or an agent or employee thereof; or any other legal entity. Whenever used in any clause prescribing and imposing a penalty, or imposing a fine or imprisonment or both, the term "person" may not exclude the members of an association and the directors, officers, or agents of a corporation. (25 Pa. Code § 102.1)

Point Source means any discernable, confined, and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, Concentrated Aquatic Animal Production Facility (CAAP), Concentrated Animal Feeding Operation (CAFO), landfill leachate collection system, or vessel, or other floating craft, from which pollutants are or may be discharged. (25 Pa. Code § 92a.2)

Post-Construction Stormwater means stormwater associated with a project site after the earth disturbance activity has been completed and the project site is permanently stabilized.

Post-Construction Stormwater Management Plan (PCSM Plan) means a site-specific plan consisting of both drawings and a narrative that identifies BMPs to manage changes in stormwater runoff volume, rate, and water quality after earth disturbance activities have ended and the project site is permanently stabilized. (25 Pa. Code § 102.1)

Preparedness, Prevention, and Contingency Plan (PPC Plan) means a written plan that identifies an emergency response program, material and waste inventory, spill and leak prevention and response, inspection program, housekeeping program, security and external factors, and that is developed and implemented at the construction site to control potential discharges of pollutants other than sediment into waters of this Commonwealth. (25 Pa. Code § 102.1)

Project Site means the entire area of activity, development, lease, or sale including: (i) the area of the earth disturbance activity; (ii) the area planned for the earth disturbance activity; and (iii) Other areas which are not subject to earth disturbance activity. (25 Pa. Code § 102.1)

Record Drawings means drawings that wholly and accurately depict as-built conditions of a project site following completion of an earth disturbance activity including but not limited to land covers, structures, grades, and SCMs and components thereof.

Regulated Fill means fill, as the term is defined in DEP's Management of Fill Policy (DEP ID No. 258-2182-773), that has been affected by release of a regulated substance and is not "uncontaminated material," as the term is defined in this policy. The term does not include fill that has been blended, mixed or treated with the purpose of meeting the definition of "regulated fill" and that without being blended, mixed or treated would fail to meet the regulated fill concentration limits, as the term is defined in this policy.

Snowmelt means the conversion of snow into overland stormwater and ground water flow as a result of warmer temperatures.

Stabilization means the proper placing, grading, constructing, reinforcing, lining, and covering of soil, rock, or earth to ensure their resistance to erosion, sliding, or other movement. (25 Pa. Code § 102.1)

Stormwater means runoff from precipitation, snowmelt, surface runoff, and drainage. (25 Pa. Code § 102.1)

Stormwater Control Measure (SCM) means any natural feature or manmade structure designed or utilized to reduce or manage the volume, pollutant load, and/or the peak rate of stormwater runoff. SCMs are BMPs that are implemented to treat stormwater from impervious surfaces and/or post-construction stormwater.

Structural PCSM SCM means a PCSM SCM that is a manmade structure used to manage post-construction stormwater, including but not limited to infiltration-based SCMs.

Surface Waters means perennial and intermittent streams, rivers, lakes, reservoirs, ponds, wetlands, springs, natural seeps, and estuaries, excluding water at facilities approved for wastewater treatment such as wastewater treatment impoundments, cooling water ponds, and constructed wetlands used as part of a wastewater treatment process. (25 Pa. Code § 102.1)

Total Maximum Daily Load (TMDL) means the sum of the individual wasteload allocations for point sources, load allocations for nonpoint sources and natural quality, and a margin of safety expressed in terms of mass per time, toxicity, or other appropriate measures. (25 Pa. Code § 96.1)

Toxic Pollutant (Toxics) means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly

from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. (25 Pa. Code § 92a.2)

Wasteload Allocation (WLA) means the portion of a surface water's loading capacity that is allocated to existing and future point source discharges. (25 Pa. Code § 96.1)

Waters of this Commonwealth means rivers, streams, creeks, rivulets, impoundments, ditches, watercourses, storm sewers, lakes, dammed water, wetlands, ponds, springs, and other bodies or channels of conveyance of surface and underground water, or parts thereof, whether natural or artificial, within or on the boundaries of this Commonwealth. (25 Pa. Code § 102.1)

Wetlands means areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, including swamps, marshes, bogs, and similar areas. (25 Pa. Code § 105.1)

II. EFFLUENT LIMITATIONS

A. This permit establishes effluent limitations through the implementation of BMPs, including E&S BMPs and PCSM SCMs, to reduce the discharge of pollutants in stormwater discharges associated with construction activities. All stormwater discharges must comply with all applicable requirements established in accordance with 25 Pa. Code Chapters 91-96, 102, and 105 of DEP's rules and regulations. Permittees must implement BMPs exceeding those identified in approved E&S and PCSM Plans to protect and maintain water quality when notified in writing to do so by DEP/CCD.

B. BMPs and SCMs.

1. The permittee must design, install, and maintain E&S BMPs and PCSM SCMs, as identified in the approved E&S and PCSM Plans, respectively, to minimize the discharge of pollutants. At a minimum, such BMPs and SCMs must be designed, installed, and maintained to: (25 Pa. Code § 102.11(c) and 40 CFR § 450.22(c))
 - a. Control stormwater volume and velocity to minimize soil erosion in order to minimize pollutant discharges.
 - b. Control stormwater discharges, including both peak flow rates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points.
 - c. Minimize the amount of soil exposed during construction activity.
 - d. Minimize the disturbance of slopes exceeding 15%.
 - e. Minimize sediment discharges from the site. The design, installation and maintenance of E&S BMPs must address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting stormwater runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site.
 - f. Provide and maintain natural buffers around surface waters of the Commonwealth, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible.
 - g. Avoid or minimize soil compaction in all areas where SCMs utilizing infiltration to manage stormwater is proposed. If the areas planned for infiltration SCMs are compromised through compaction or other means, the permittee must conduct soil testing to verify that the SCM will perform as designed and implement measures to decompact the soils, as applicable.
 - h. Preserve topsoil unless the intended function of a specific area of the project site dictates that the topsoil be disturbed or removed.

2. Site Stabilization. (25 Pa. Code § 102.22)

a. Temporary Stabilization.

- (i) Upon temporary cessation of an earth disturbance activity or any stage or phase of an activity where a cessation of earth disturbance activities will exceed four (4) days, the site must be immediately seeded, mulched, or otherwise protected from accelerated erosion and sedimentation pending future earth disturbance activities.
- (ii) For an earth disturbance activity or any stage or phase of an activity to be considered temporarily stabilized, the disturbed areas must be covered with one of the following:
 - (1) A minimum uniform coverage of mulch and seed, with a density capable of resisting accelerated erosion and sedimentation.
 - (2) An acceptable BMP which temporarily minimizes accelerated erosion and sedimentation.

b. Permanent Stabilization – Upon final completion of an earth disturbance activity or any stage or phase of an activity, the site must immediately have topsoil restored, replaced, or amended, seeded, mulched or otherwise permanently stabilized and protected from accelerated erosion and sedimentation.

- (i) E&S BMPs must be implemented and maintained until the permanent stabilization is completed. Once permanent stabilization has been established, the temporary E&S BMPs must be removed or converted to PCSM SCMs. Any areas disturbed in the act of removing temporary E&S BMPs must be permanently stabilized upon completion of the temporary E&S BMP removal or conversion activity.
- (ii) For an earth disturbance activity or any stage or phase of an activity to be considered permanently stabilized, the disturbed areas must be covered with one of the following:
 - (1) A minimum uniform 70% perennial vegetative cover, with a density capable of resisting accelerated erosion and sedimentation.
 - (2) An acceptable BMP which permanently minimizes accelerated erosion and sedimentation.

c. The permittee may not utilize seed mixtures containing invasive species or species that may be harmful to native plant communities.

3. Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed as follows: (25 Pa. Code § 102.11(c) and 40 CFR § 450.22(e))

- a. The permittee must utilize upland vegetated areas of the project site to infiltrate construction dewatering water prior to discharge, to the extent feasible.
- b. For construction dewatering water that cannot be infiltrated in accordance with paragraph 3.a, above, construction dewatering water must be treated by an approved series of two or more BMPs prior to discharge to surface waters to reduce discharges with visual turbidity, unless the permittee can document that the outflow from a single BMP will achieve a turbidity of 50 Nephelometric Turbidity Units (NTUs) or less and receives written approval from DEP/CCD.
- c. The permittee must notify in writing DEP/CCD at least seven (7) days prior to discharges if the permittee has reason to believe that dewatering water may contain pollutants other than sediment. The permittee must collect sample(s) of the dewatering water and analyze the water for the pollutants specified by DEP/CCD when notified by DEP/CCD in writing. If the dewatering water is found by the permittee or DEP/CCD to contain concentrations of pollutants exceeding numeric water quality criteria under Chapter 93 or may otherwise adversely affect surface waters, DEP/CCD may require the permittee to cease discharging and submit an application for an individual permit.

- d. The permittee must use an oil-water separator or suitable filtration device that is designed to remove oil, grease, or other products if dewatering water is found to contain those materials.
 - e. The permittee must collect and dispose of materials and substances collected by filtration devices and backwash from these devices off-site unless otherwise authorized by DEP/CCD.
4. The permittee must design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented, and maintained to: (25 Pa. Code § 102.11(c) and 40 CFR § 450.22(f))
- a. Prevent the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated or otherwise controlled prior to discharge.
 - b. Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on the project site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use).
 - c. Prevent the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures. The permittee must prepare and implement a Preparedness, Prevention, and Contingency (PPC) Plan when storing, using, or transporting materials including: fuels, chemicals, solvents, pesticides, fertilizers, lime, petrochemicals, wastewater, wash water, core drilling wastewater, cement, sanitary wastes, solid wastes, or hazardous materials onto, on, or from the project site during earth disturbance activities. The PPC Plan must be available upon request by DEP/CCD. (25 Pa. Code § 102.5(l))
5. The permittee may not discharge the following:
- a. Wastewater from washout of concrete. (25 Pa. Code § 102.11(c))
 - b. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials. (25 Pa. Code § 102.11(c))
 - d. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance. (25 Pa. Code § 102.11(c))
 - e. Soaps or solvents used in vehicle and equipment washing. (25 Pa. Code § 102.11(c))
 - f. Floating solids, scum, sheen or substances that result in observed deposits in the receiving water, and foam or substances that produce an observable change in the color, taste, odor or turbidity of the receiving water. (25 Pa. Code § 92a.41(c))
 - g. Substances in concentration or amounts sufficient to be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life. (25 Pa. Code § 93.6(a))
6. The permittee shall utilize outlet structures that withdraw water from the surface when discharging from basins and impoundments, unless infeasible. (25 Pa. Code § 102.11(c) and 40 CFR § 450.22(h))

III. MONITORING, REPORTING, AND RECORDKEEPING

- A. When stormwater samples are collected and analyzed or measurements are taken under this permit, the permittee must ensure:
1. Samples and measurements taken for the purpose of monitoring are representative of the monitored activity. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(j)(1))
 2. Records of monitoring information includes: (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(j)(3))
 - a. The date, exact place, and time of sampling or measurements.
 - b. The individual(s) who performed the sampling or measurements.
 - c. The date(s) analyses were performed.
 - d. The individual(s) who performed the analyses.
 - e. The analytical techniques or methods used.
 - f. The results of such analyses.
 3. Monitoring is conducted according to test procedures approved under 40 CFR Part 136 unless another method is required under 40 CFR Subchapters N or O. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(j)(4))
 4. Sampling and analysis of samples meet proper quality assurance and quality control (QA/QC) procedures. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(i) and 40 CFR §§ 122.41(e), 122.41(i)(3), 122.41(i)(4))
- B. Records Retention.
1. The permittee must retain all records of monitoring activities and results, copies of all plans and reports required by this permit, and records of all data used to complete the application for this permit for at least three (3) years from the date of the Notice of Termination (NOT) approval. The permittee must submit such records to DEP/CCD or EPA upon request. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(j)(2))
 2. The permittee must retain a physical or electronic copy of the following documents on-site during earth disturbance activities at all times, and must make this information available for review and inspection by DEP/CCD or EPA during all stages of the earth disturbance activity: this permit, the application submitted for permit coverage, all attachments to the application, and the E&S Plan, PCSM Plan, and PPC Plan, as applicable.
- C. Inspection and Oversight Requirements. (25 Pa. Code § 102.4(b)(5)(x))
1. Site Inspections – The permittee must conduct visual site inspections throughout the duration of construction and until the NOT has been approved by DEP/CCD (unless otherwise approved in writing by DEP/CCD), at the following frequencies:
 - Routine Inspections must be conducted weekly.
 - Post-Storm Event Inspections must be conducted within 24 hours after the conclusion of each measurable storm event (i.e., precipitation in an amount of 0.25 inch or greater over a 24-hour period) or the occurrence of snowmelt sufficient to cause a discharge.
 - Corrective Action Inspections must be conducted anytime the permittee observes a deficiency in implementation of the E&S or PCSM Plans.
 - a. The permittee must document each site inspection on DEP's Chapter 102 Visual Site Inspection Report (3800-FM-BCW0271d) or alternative document or electronic form that collects and retains identical information. All requested information on the Visual Site Inspection Report must be completed as instructed. The permittee must take color photographs of E&S BMPs and PCSM SCMs on the project site at least monthly, unless otherwise approved in writing by DEP/CCD, and when deficiencies in BMPs and SCMs are identified. The photographs must have a date and time stamp and be made available for DEP/CCD review upon request.
 - b. The permittee must make Visual Site Inspection Reports available upon request during inspections, submit and provide copies of Visual Site Inspection Reports to DEP/CCD upon request, and submit

Visual Site Inspection Reports to DEP/CCD as part of the notification requirements identified in Paragraph III.D.2, below.

- c. Effective December 8, 2025, site inspections must be performed and Visual Site Inspection Reports must be completed by qualified personnel that are trained and experienced in E&S BMP and PCSM SCM construction, function, and maintenance and are familiar with the E&S and PCSM Plans for the project site. A person is qualified when one or more of the following conditions are satisfied:
 - (i) They have completed the Qualified Site Inspector Training Program in DEP's Clean Water Academy initially and every two years thereafter;
 - (ii) They hold active certification as a Certified Professional in Erosion and Sediment Control (CPESC) or as a Certified Erosion, Sediment, and Stormwater Inspector (CESSWI) from a recognized organization; or
 - (iii) They can demonstrate to the satisfaction of DEP/CCD that they have qualifications equivalent to or exceeding those identified in Paragraphs (i) or (ii). If this option is selected, the person must submit documentation of their training and experience to DEP/CCD and receive written approval from DEP/CCD prior to conducting site inspections, unless waived by DEP/CCD.

For site inspectors satisfying Paragraph (i) or (ii), the permittee must provide documentation (e.g., completion certificate) of the inspector's qualifications upon the request of DEP/CCD.

- d. To determine if a storm event of 0.25 inch or greater has occurred on a project site, the permittee must either maintain a rain gauge on-site or obtain storm event information from a weather station that is representative of the project site location.

2. Licensed Professional Oversight of Critical Stages (25 Pa. Code § 102.8(k))

- a. The permittee must ensure that a licensed professional or a designee is present on-site and is responsible for oversight of critical stages of implementation of approved PCSM SCMs, unless the project meets the requirements of 25 Pa. Code § 102.8(n) and does not include PCSM SCMs. The critical stages that must receive licensed professional oversight are identified in the approved PCSM Plan.
- b. The permittee must document the implementation of each structural PCSM SCM using DEP's SCM Construction Certification Form (3800-FM-BCW0271j) and submit the completed form to DEP/CCD within 30 days of the completion of SCM construction, as determined by a licensed professional. The form must be signed by the licensed professional responsible for oversight of critical stages.

D. Reporting and Fee Requirements.

1. Annual Report.

- a. The permittee shall submit a complete Annual Report to the CCD by December 7 each year using DEP's Annual Report template (3800-PM-BCW0405e). The Annual Report must address activities under this permit for the reporting period of October 1 – September 30.
- b. The first annual report is due on December 7, 2026 and shall cover the period from permit issuance to 2026. Following the first annual report, the reporting period shall thereafter be October 1 – September 30, and the report shall be due by December 7.
- c. The permittee must submit the Annual Report to DEP/CCD in electronic format upon receipt of written notification from DEP/CCD.

2. Annual Fee. (25 Pa. Code § 92a.62)

- a. Permittees shall pay an annual fee in accordance with 25 Pa. Code § 92a.62. As of the effective date of this permit, the facility covered by the permit is classified in the **Chapter 102 Individual NPDES Permit** fee category, which has an annual fee of **\$500**.

- b. Invoices for annual fees will be mailed to permittees approximately three months prior to the due date. In the event that an invoice is not received, the permittee is nonetheless responsible for payment. Permittees may contact DEP's Bureau of Clean Water at 717-787-6744 with questions related to annual fees. The fee identified above is subject to change if DEP publishes changes to 25 Pa. Code § 92a.62.
- c. Payment for annual fees shall be remitted to DEP at the address below or through DEP's electronic payment system (www.depgreenport.state.pa.us/NPDESpay) by the due date specified on the invoice. Checks, if used for payment, should be made payable to the Commonwealth of Pennsylvania.

PA Department of Environmental Protection
Bureau of Clean Water
Re: Chapter 92a Annual Fee
P.O. Box 8466
Harrisburg, PA 17105-8466

3. Unanticipated Non-Compliance or Potential Pollution Reporting

- a. Immediate Reporting – The permittee must immediately report any incident causing or threatening pollution in accordance with the requirements of 25 Pa. Code §§ 91.33 and 92a.41(b) listed below:
 - (i) If, because of an accident or other activity or incident, a toxic substance or another substance is discharged which would endanger downstream users of the water receiving the discharge or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee must immediately notify DEP by telephone of the location and nature of the danger. Verbal notification to DEP is required as soon as possible, but no later than four (4) hours after the permittee becomes aware of the incident causing or threatening pollution. Emergency response phone numbers for DEP are available on DEP's website (www.dep.pa.gov, select "Report an Incident").
 - (ii) The permittee must immediately notify known downstream users of the waters of the Commonwealth to which the substance was discharged if notice is reasonably possible. Notice must include the location and nature of the danger.
 - (iii) The permittee must immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, must remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.
- b. The permittee must report any non-compliance to DEP/CCD which may endanger health or the environment in accordance with the requirements of 40 CFR § 122.41(l)(6) (incorporated by 25 Pa. Code § 92a.3(c)). These requirements include the following obligations:
 - (i) 24-Hour Reporting – The permittee must verbally report any non-compliance with this permit to DEP/CCD that may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances.
 - (ii) Written Report – A written submission must also be provided to DEP/CCD within five (5) days of the time the permittee becomes aware of any non-compliance that may endanger health or the environment. The written submission must contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance. The written submission must include a Visual Site Inspection Report that documents the incident.
 - (iii) Waiver of Written Report – DEP/CCD may waive the written report on a case-by-case basis if the associated verbal report has been received within 24 hours from the time the permittee becomes aware of the circumstances that may endanger health or the environment. Unless such a waiver

is expressly granted in writing by DEP/CCD, the permittee must submit a written report in accordance with this paragraph.

3. Other Non-Compliance

The permittee must identify all instances of non-compliance not reported under paragraph D.3.b of this section on the Visual Site Inspection Report. The reports must contain the information listed in paragraph D.3.b.(ii) of this section. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(l)(7))

E. Signatory Requirements.

1. Applications, reports, and other information submitted to DEP/CCD must be signed and certified by either of the following applicable persons, in accordance with 40 CFR § 122.22 (incorporated by 25 Pa. Code § 92a.22):
 - For a corporation – by a president, secretary, treasurer, or vice president in charge of a principal business function of the corporation or a duly authorized representative.
 - For a partnership or sole proprietorship – by a general partner or the proprietor, respectively.
 - For a municipality, state, federal, or other public agency – by a principal executive officer or ranking elected official.
2. If signed on behalf of a corporation by a duly authorized representative of the permittee, the authorization must meet the following:
 - The authorization must be made in writing by a person described in Paragraph 1, above, consistent with the corporation's delegation procedures and must be attached to the application or otherwise be submitted to DEP/CCD.
 - The authorization must specify either an individual or a position having responsibility for the operation of the regulated system, facility, or activity consistent with the corporation's delegation procedures, such as the position of manager, operator, superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the corporation.
3. Changes in Signatory Authorization – If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the project site, a new authorization satisfying the requirements of Paragraphs 1 and 2, above, must be submitted to DEP/CCD prior to or together with any reports or information to be signed by an authorized representative.

- F. Planned Changes to Physical Facilities – The permittee must give notice to DEP/CCD as soon as possible but no later than 30 days prior to planned physical alterations or additions to the permitted project site or activity. An application or other written submission to DEP/CCD providing equivalent information can be used to satisfy the notification requirements of this section.

Notice is required when:

1. The alteration or addition to a permitted facility or activity may meet one of the criteria for determining whether a facility or activity is a new source in 40 CFR § 122.29(b). (25 Pa. Code § 92a.41(a) and 40 CFR § 122.41(l)(1)(i))
2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. (25 Pa. Code § 92a.41(a) and 40 CFR § 122.41(l)(1)(ii))

This may include:

- a. The construction of additional impervious surfaces not reported in the application.
- b. Increases in earth disturbance compared to the original planned limit of disturbance.
- c. Modifications to the design standards, BMPs, or SCMs used for the project.

- d. Proposals to eliminate structural or non-structural BMPs or SCMs planned for in the original design or reduce the dimensions and/or capacities of structural BMPs or SCMs that may affect performance of those BMPs or SCMs.
 - e. Proposed site alterations that would allow new stormwater flows from off-site to flow onto the site.
3. The planned change may result in non-compliance with permit requirements. (25 Pa. Code § 92a.41(a) and 40 CFR § 122.41(l)(2))

G. Monitoring

DEP/CCD may require additional monitoring where an increased risk of potential water pollution is present, or water pollution is suspected to be occurring from a construction activity subject to this permit, or for any reason in accordance with 25 Pa. Code § 92a.61 (relating to monitoring). The permittee or co-permittee must commence such monitoring upon notification from DEP/CCD. (25 Pa. Code § 92a.61(b))

PART B

STANDARD CONDITIONS

I. MANAGEMENT REQUIREMENTS

A. Compliance

The permittee must comply with all conditions of this permit. Any permit non-compliance constitutes a violation of the Act and Clean Streams Law and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or denial of a permit renewal application. (25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR § 122.41(a))

B. Permit Modification, Termination, or Revocation and Reissuance

1. DEP may modify, terminate, or revoke and reissue this permit during its term. (25 Pa. Code §§ 92a.3, 92a.41(a), 92a.72 – 92a.75 and 40 CFR § 122.41(f))
2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated non-compliance, does not stay any permit condition. (25 Pa. Code §§ 92a.3, 92a.41(a) and 40 CFR § 122.41(f))
3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee must comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. (25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR § 122.41(a)(1))
4. DEP may terminate coverage under this permit for the reasons specified at 40 CFR § 122.64(a). (25 Pa. Code §§ 92a.74(c) and 40 CFR § 122.64(a))

C. Requirement to Submit NOT (25 Pa. Code §§ 102.7, 92a.74(c), 92a.76 and 40 CFR § 122.64(c))

The permittee or a co-permittee must submit a complete NOT form to the DEP/CCD office that approved coverage, utilizing DEP's NOT for Chapter 102 Permits form (3800-PM-BCW0229b), when the project site has been permanently stabilized, all temporary E&S BMPs have been removed, and construction of all approved PCSM SCMs have been completed, in accordance with 25 Pa. Code § 102.7. An operator co-permittee may submit the NOT only when documentation is provided with the NOT that the permittee or co-permittee is unable or unwilling to sign the NOT.

1. The permittee or co-permittee must submit the NOT electronically when required by DEP in writing.
2. The permittee and co-permittee must continue complying with the terms and conditions of this permit until the NOT is approved by DEP/CCD.
3. Until the permittee or co-permittee has received written approval of the NOT from DEP/CCD, the permittee and co-permittee remains responsible for compliance with the terms and conditions of this permit, including the submission of annual reports and long-term operation and maintenance (O&M) of all PCSM SCMs on the project site in accordance with 25 Pa. Code § 102.8(m).
4. The permittee must retain a copy of record drawings required by 25 Pa. Code § 102.8(l) as part of the approved PCSM Plan and must provide a copy of the record drawings to the persons identified as responsible for the long-term O&M of PCSM SCMs.

D. Duty to Provide Information

1. The permittee must provide to DEP/CCD, within a reasonable time, any information which DEP/CCD may request to determine whether cause exists for modifying, revoking and reissuing, or terminating coverage under this permit, or to determine compliance with this permit. (25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR § 122.41(h))

2. The permittee must provide to DEP/CCD copies of records required to be kept by this permit upon request. (25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR § 122.41(h))
 3. Other Information – Where the permittee becomes aware that it failed to submit any relevant facts in an application or submitted incorrect information in an application or in any report to DEP/CCD, it must promptly submit the correct and complete facts or information. (25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR § 122.41(l)(8))
- E. Proper Operation and Maintenance (25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR § 122.41(e))
1. The permittee must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), including BMPs, which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes adequate laboratory controls such as appropriate quality assurance procedures. The permittee must properly operate and maintain backup or auxiliary facilities or similar systems installed by the permittee, as necessary to achieve compliance with the terms and conditions of this permit.
 2. Removed Substances – Solids, sediments, and other pollutants removed in the course of treatment or control of stormwater must be disposed of in accordance with federal and state law and regulations, to prevent any pollutant in these materials from adversely affecting public health or the environment.
 3. Reduction, Loss, or Failure of BMP or SCM – Upon the reduction, loss, or failure of any E&S BMP or PCSM SCM, the permittee and co-permittee(s) must initiate the repair or replacement of the BMP or SCM as follows:
 - Immediately upon discovery if the reduction, loss, or failure of a BMP or SCM has resulted in or is likely to result in sediment or other pollutants flowing off the project site and/or discharging to surface waters. Completion of the repair or replacement of the BMP or SCM must occur within 24 hours unless otherwise required by DEP/CCD.
 - Within 24 hours of discovery for all other situations where there is a reduction, loss, or failure of a BMP or SCM. Completion of the repair or replacement of the BMP or SCM must occur within seven (7) days unless otherwise required by DEP/CCD.
- F. Duty to Mitigate

The permittee must take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. (25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR § 122.41(d))

II. PENALTIES AND LIABILITY

A. Violations of Permit Conditions

DEP may take an enforcement action to restrain violations, to impose criminal or civil penalties, to withhold a permit, or to seek other remedies or relief as authorized by law against a permittee that violates any condition or limitation of this permit, or any rule, regulation or order issued by DEP pursuant to the Clean Streams Law.

In addition, EPA may take an enforcement action to restrain violations, to impose criminal or civil penalties, or to seek other remedies or relief as authorized by the Clean Water Act against a permittee that violates any condition or limitation of this permit, or any rule, regulation or order issued by EPA pursuant to the Clean Water Act.

B. Falsifying Information

The permittee or any person who engages in the conduct described below may, upon conviction, be punished by a fine and/or imprisonment pursuant to 18 Pa.C.S. § 4904, or 40 CFR §§ 122.41(j)(5) or (k)(2). (25 Pa. Code §§ 92a.3(c), 92a.41(c))

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or

- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or non-compliance).

C. Liability

Nothing in this permit will be construed to relieve the permittee from civil or criminal penalties for non-compliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603 or 605 of the Clean Streams Law.

Nothing in this permit will be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the Clean Water Act and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

The permittee may not maintain as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR § 122.41(c))

III. OTHER RESPONSIBILITIES

A. Right of Entry

The permittee must allow authorized representatives of DEP/CCD and EPA to conduct the following activities upon the presentation of credentials and other documents as may be required by law (35 P.S. §§ 691.5(b) and 305, 25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR § 122.41(i)(2)):

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; (40 CFR § 122.41(i)(1))
2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; (40 CFR § 122.41(i)(2))
3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and (40 CFR § 122.41(i)(3))
4. To sample or monitor at reasonable times, for the purposes of ensuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or pollutants at any location. (40 CFR § 122.41(i)(4))

B. Transferring Permit Coverage

1. Transfer Requests by Permittees. (25 Pa. Code § 92a.71 and 40 CFR § 122.61(b))
 - a. If the permittee (i.e., the person identified on the permit application as the applicant) decides to transfer permit coverage to another person prior to submission of an NOT to terminate coverage, the permittee must submit an application to DEP/CCD to transfer permit coverage at least 30 days prior to the proposed date of transfer, using DEP's Application for NPDES or WQM Permit Transfer form (3800-PM-BCW0041) (Transfer Application). Permit coverage will be transferred automatically to the proposed permittee on the date specified in the Transfer Application if all of the following conditions are satisfied:
 1. The Transfer Application is signed by the existing and proposed permittees and contains a specific date for transfer of permit responsibility, coverage and liability between the permittees.
 2. DEP/CCD does not notify the existing permittee and the proposed permittee in writing prior to the transfer date of its intent to modify or revoke and reissue this permit.

3. The proposed permittee is in compliance with existing DEP/CCD issued permits, regulations, orders and schedules of compliance, or has demonstrated that any non-compliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedules set forth in the permit), consistent with 25 Pa. Code § 92a.51 (relating to schedules of compliance) and other appropriate DEP regulations.
- b. If the transfer does not occur automatically as specified in Paragraph B.1.a of this section, permit coverage may be transferred by the existing permittee to a proposed permittee only if both parties request a modification of permit coverage, using the Transfer Application, and DEP/CCD approves the modification or revokes and reissues the permit coverage. Permit coverage may be transferred both during the term of this permit and during a period of administrative extension of this permit.
- c. In the event DEP/CCD does not approve transfer of this permit, the proposed permittee must submit a new application.
- d. Transfer of a portion of a project site is not authorized under this permit unless otherwise approved by DEP.
- e. If the transfer of permit coverage will coincide with a transfer of property containing PCSM SCM(s), the Transfer Application must include a New Property Owner Notification Form (3800-FM-BCW0271i) signed by the existing and proposed permittees.

C. Amending Permit Coverage

The permittee must notify DEP/CCD of any planned change to earth disturbance activities, BMPs, SCMs, or any other change that may affect permit coverage, including planned changes identified in Part A III.F of this permit, at least 30 days prior to implementing the change. DEP/CCD will notify the permittee whether the submission of an application to amend permit coverage is required. The permittee may not proceed to implement the proposed change until the permittee receives written approval for the amendment from DEP/CCD, when applicable.

D. Property Rights

The approval of coverage under this permit does not convey any property rights, or any exclusive privilege. (25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR 122.41(g))

E. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. (25 Pa. Code §§ 92a.3(c), 92a.41(a)(2) and 40 CFR § 122.41(b))

F. Other Laws

The approval of coverage under this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local laws or regulations.

PART C

OTHER CONDITIONS

I. GENERAL

- A. The permittee is authorized to discharge stormwater associated with construction activities from its project site, alone or in combination with authorized non-stormwater discharges, at discharge points identified in the application submitted for coverage under this permit.
- B. Authorized Non-Stormwater Discharges – The following non-stormwater discharges associated with construction activities are authorized under this permit provided that, with the exception of water used to control dust and to irrigate vegetation in stabilized areas, these discharges are not routed to areas of exposed soil on the project site and that the permittee complies with any applicable requirements for these discharges under the permit:
- Discharges from emergency firefighting activities;
 - Potable water – including water line flushings, fire suppression system flushings, and fire hydrant flushings – that does not contain measurable concentrations of Total Residual Chlorine (TRC), and where appropriate control measures are implemented to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement);
 - Uncontaminated condensate from air conditioners, coolers/chillers, and other compressors (if treatment through an oil/water separator is provided) and from the outside storage of refrigerated gases or liquids;
 - Irrigation and dust control drainage;
 - Landscape water if such water does not contain pesticides, herbicides or fertilizers;
 - Pavement wash waters, other than wash waters used on newly sealed pavement (sealant applied within the prior week), where: no detergents or hazardous cleaning products are used; the wash waters do not come into contact with oil and grease deposits, sources of pollutants associated with industrial activities, or any other toxic or hazardous materials; and appropriate control measures are implemented to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement);
 - Routine external building washdown or power wash water that does not contain detergents or hazardous cleaning products (e.g., those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols) and where appropriate control measures are implemented to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement);
 - Uncontaminated ground water or spring water;
 - Foundation or footing drains where flows are not contaminated with process materials; and
 - Construction dewatering water that complies with the construction dewatering discharge requirements of Part A II.B.3 of this permit.
- C. The permittee must handle, recycle and/or dispose of building materials and wastes, collected screenings, slurries, sludges, and other solids generated in the course of treatment or control of stormwater runoff in compliance with state and federal law, including the Solid Waste Management Act (35 P.S. §§ 6018.101, et seq.), 25 Pa. Code Chapters 271-285 (relating to municipal waste), 287-299 (relating to residual waste), Chapters 261a, 262a, 263a, and 270a (related to identification of hazardous waste, requirements for generators and transporters, hazardous waste requirements for generators and transporters, and hazardous waste permit programs), the Clean Streams Law, the federal Clean Water Act, and 40 CFR Part 257 (related to criteria for classification of solid waste disposal facilities and practices) and in a manner that prevents any pollutant from such materials from adversely affecting the environment.

The permittee is responsible to obtain or ensure that contracted agents have all necessary permits and approvals for the handling, storage, transport, and disposal of solid waste materials generated as a result of construction activities, stormwater management, and treatment.

II. INITIAL RECORDING

If the approved PCSM Plan includes PCSM SCMs that will be located on non-Commonwealth and non-federal property, the permittee must record a legal instrument with the Recorder of Deeds for each property that will contain SCMs that identifies the planned SCMs, provides access for long-term O&M of the SCMs, and provides notice that the responsibility for long-term O&M of the SCMs is a covenant that runs with the land.

- A. The permittee must provide a copy of the recorded instrument, all attachments or exhibits to the instrument, and proof of recording to DEP/CCD prior to the pre-construction meeting, unless the project is conducted for the benefit of a public utility, as defined in the Public Utility Code (66 Pa.C.S.A. § 102), or otherwise approved by DEP/CCD in writing. The permittee may not schedule the pre-construction meeting or commence the earth disturbance activity until DEP/CCD receives this documentation and determines it is complete. Upon written authorization from DEP/CCD, the permittee may schedule the pre-construction meeting.
- B. For public utility projects and other projects for which written approval is obtained from DEP/CCD to provide the recorded documentation following the pre-construction meeting, the permittee must provide a copy of the recorded instrument, all attachments or exhibits to the instrument, and proof of recording to DEP/CCD within days of permit issuance.
- C. The permittee must record the following documentation under this section:
 - 1. An instrument that is consistent with DEP's Sample Instrument for the Declaration of Restrictions and Covenants, available on DEP's website (www.dep.pa.gov/constructionstormwater, select E&S Resources).
 - 2. Approved PCSM Plan Drawing(s) identifying the SCMs or other documentation that identifies the location of the SCMs on the relevant properties; the planned size (length, width, depth) of the SCMs; depictions of the inlet and outlet structures of the SCMs, as applicable; construction materials and media, as applicable; and the planned vegetation for the SCMs, as applicable.
 - 3. Long-Term O&M Plans for the SCMs, if separate from the documentation in Paragraph II.C.2, above.

III. PRE-CONSTRUCTION MEETING

Upon notification from DEP/CCD that the recorded instrument is complete, if applicable, the permittee must schedule and hold a pre-construction meeting unless the permittee has been notified otherwise in writing by DEP/CCD. The permittee must invite the agency approving coverage under this permit to attend the pre-construction meeting and provide at least seven (7) days' notice of the pre-construction meeting to all invited attendees. The permittee must also invite to the pre-construction meeting co-permittees, operators, municipal representative(s), licensed professionals or designees, and all others responsible for implementing or monitoring the earth disturbance activity and implementation of E&S, PCSM and PPC Plans and critical stages of implementation of the approved PCSM Plan.

IV. NOTIFICATION OF PERIMETER CONTROL BMPs

Upon the installation of all perimeter sediment control BMPs and at least three (3) days prior to proceeding with the bulk earth disturbance activities, the permittee or co-permittee shall provide notification to DEP or CCD by phone or electronic mail.

V. E&S PLANS

- A. The permittee must implement an approved E&S Plan that meets the requirements of 25 Pa. Code § 102.4(b) and contains E&S BMPs that will be designed, implemented and maintained to minimize the potential for accelerated erosion and sedimentation and achieve the effluent limitations set forth in Part A of this permit.
- B. The E&S Plan, including construction sequencing and O&M of BMPs, must be implemented at all times.
- C. The permittee must make the approved E&S Plan available for review and inspection by DEP/CCD and EPA during all stages of earth disturbance activities.

VI. PCSM PLANS

- A. The permittee must implement an approved PCSM Plan that meets the requirements of 25 Pa. Code § 102.8 and contains PCSM SCMs that will be designed, implemented and maintained to achieve the effluent limitations set forth in Part A of this permit.
- B. The PCSM Plan, including construction sequencing and O&M of SCMs, must be implemented at all times.

- C. The permittee must make the approved PCSM Plan available for review and inspection by DEP/CCD and EPA during all stages of earth disturbance activities.

VII. LONG-TERM OPERATION AND MAINTENANCE OF PCSM SCMs

- A. The permittee or co-permittee is responsible for long-term O&M of PCSM SCMs unless a different person is identified in the NOT and that person has agreed to long-term O&M of PCSM SCMs. A permittee or co-permittee that fails to transfer long-term O&M of the PCSM SCMs or otherwise fails to comply with this requirement remains jointly and severally responsible with the landowner for long-term O&M of the PCSM SCMs located on the property. (25 Pa. Code §§ 102.8(m)(1), 102.8(m)(5)
- B. The permittee or co-permittee must record a final instrument with the Recorder of Deeds for each non-Commonwealth and non-federal property containing PCSM SCMs when changes are made following the initial recording. The instrument must identify the implemented SCMs, provide access for long-term O&M of the PCSM SCMs, and provide notice that the responsibility for long-term O&M for the SCMs is a covenant that runs with the land. The final recording must amend the original recording as referenced in Part C II of this permit, as applicable. The permittee or co-permittee must provide a copy of the final instrument, all attachments or exhibits to the instrument, and proof of recording to DEP/CCD with the NOT. The permittee or co-permittee must record the following documentation under this section at a minimum, when applicable:
1. An instrument that is consistent with DEP's Sample Instrument for the Declaration of Restrictions and Covenants, available on DEP's website (www.dep.pa.gov/constructionstormwater, select E&S Resources).
 2. Documentation that identifies the location of the SCMs on the relevant properties; the planned size (length, width, depth) of the SCMs; depictions of the inlet and outlet structures of the SCMs, as applicable; construction materials and media, as applicable; and the vegetation for the SCMs, as applicable; or otherwise record drawings as identified at 25 Pa. Code § 102.8(l).
 3. Long-Term O&M Plans for the SCMs, if separate from the documentation in Paragraph VII.B.2, above.
- C. If a parcel, lot, road, or other real property containing or planned to contain a PCSM SCM is sold during the term of permit coverage, the permittee must provide the new property owner with 1) record drawings or other plans identifying the SCM; 2) a long-term O&M Plan for the SCM; and 3) a completed New Property Owner Notification form (3800-FM-BCW00271i). The permittee must submit copies of completed New Property Owner Notification forms to DEP/CCD and to the municipality where the SCM is located within 30 days of the date of transfer of the property.
1. If a permittee submits to DEP/CCD a New Property Owner Notification form containing the signature of the first owner of a lot containing PCSM SCMs that is acquired from the permittee, the permittee is not obligated to obtain the signatures of any future lot owner unless the permittee failed to record a legal instrument disclosing the PCSM SCMs on the lot.
 2. If the new property owner or subsequent property owners enter into an agreement for a separate party to be responsible for long-term O&M and do not disclose this to the permittee, it is not the permittee's responsibility to disclose this to DEP/CCD.
 3. If there are increases in impervious area on a lot following its sale, in which a New Property Owner Notification form was submitted, the permittee is not responsible for identifying the increase in impervious area if SCMs were designed to manage the maximum allowable impervious under an ordinance or the planned impervious with a factor of safety of at least 10%.
- D. For Commonwealth-owned or federally-owned property, a covenant that runs with the land is not required until the transfer of the land containing a PCSM SCM to a non-Commonwealth or non-federal entity occurs. Upon transfer of the Commonwealth-owned or federally-owned property containing the PCSM SCM, the deed must comply with 25 Pa. Code § 102.8(m). (25 Pa. Code § 102.8(m)(3))
- E. The person responsible for performing long-term O&M may enter into a written agreement with another person, including a CCD, nonprofit organization, municipality, authority, private corporation, or other person, to transfer

the responsibility for PCSM SCMs or to perform long-term O&M and provide notice thereof to DEP/CCD. (25 Pa. Code § 102.8(m)(4))

- F. The recorded instrument must provide for access to the PCSM SCMs in addition to information on inspection, repair, replacement, and routine maintenance to ensure proper function and operation of the PCSM SCMs.
- G. For PCSM SCMs that discharge to an MS4, the permittee must specify in the long-term O&M plan that copies of all inspection reports must be submitted by the person responsible for long-term O&M to the municipality or other entity that owns or operates the MS4.

VIII. PREPAREDNESS, PREVENTION, AND CONTINGENCY PLANS

If toxic, hazardous, or other polluting materials will be on site, the permittee or co-permittee(s) must develop a PPC Plan for use while those materials are on-site in accordance with 25 Pa. Code §§ 91.34 (relating to activities utilizing pollutants) and 102.5(l). The PPC Plan must identify areas which may include waste management areas, raw material storage areas, fuel storage areas, temporary and permanent spoils storage areas, maintenance areas, and any other areas that may have the potential to cause non-compliance with the terms and conditions of this permit due to the storage, handling, or disposal of any toxic or hazardous substances such as oil, gasoline, pesticides, herbicides, solvents, or concrete wash waters. BMPs must be developed and implemented for each identified area. Names and contact information within the PPC Plan must be kept up to date. The PPC Plan must be made available for review at the request of DEP/CCD.

IX. IMPORTED FILL AND SITE CONTAMINATION

A. Imported Fill.

- 1. With the exception of sites enrolled in DEP's Land Recycling and Remediation Standards Act (Act 2) Program and sites with DEP Waste Management General Permit (WMGR096) approval to use regulated fill, all fill material imported to the site must meet the definition of clean fill, as defined in DEP's Management of Fill Policy. Regulated fill used on Act 2 sites must comply with the standards established by the Act 2 Program. Regulated fill used outside of Act 2 sites must comply with DEP Waste Management General Permit WMGR096.
- 2. For areas not enrolled in the Act 2 Program, the permittee must comply with DEP's Management of Fill Policy (Document No. 258-2182-773) if fill is imported to the site, and comply with the following when using fill at the site to level an area or bring it to grade:
 - a. The permittee must conduct environmental due diligence to determine whether the fill has been affected by a release of a regulated substance. If due diligence was conducted prior to submitting the permit application and circumstances have not changed between the due diligence and the use of the fill, due diligence does not need to be repeated.
 - b. If due diligence results in evidence of a release, as defined in DEP's Management of Fill Policy, the permittee must test the material to determine whether it qualifies as clean fill, and if so, DEP's electronic Form FP-001 (Certification of Clean Fill) must be completed, retained by the permittee and be made available to DEP/CCD upon request. If the fill does not qualify as clean fill, but meets the regulated fill standards, it may be used in accordance with an approval for coverage under DEP Waste Management General Permit WMGR096.

B. On-Site Soil Contamination.

- 1. For sites enrolled in the Act 2 Program, if the results of soil sampling in the area of earth disturbance activities demonstrate newly discovered soil contamination with concentrations of regulated substances exceeding the residential or non-residential medium-specific concentrations (MSCs), whichever is applicable, the permittee or operator co-permittee must notify DEP/CCD by phone within 24 hours of receiving the sampling results. Earth disturbance activities in areas of newly discovered contamination need not cease after notification to DEP/CCD unless so directed by DEP/CCD.
- 2. For areas not enrolled in the Act 2 Program, if the permittee or operator co-permittee discovers during earth disturbance activities wastes or other materials or substances that have or have likely caused soil

contamination with concentrations of regulated substances exceeding the residential or non-residential MSCs, whichever is applicable, the permittee must notify DEP/CCD by phone within 24 hours. Earth disturbance activities in areas of newly discovered contamination need not cease after notification to DEP/CCD unless so directed by DEP/CCD.

C. On-Site Groundwater Contamination.

If the results of sampling performed on groundwater encountered during earth disturbance activities demonstrate that the groundwater is contaminated by one or more pollutants at concentrations exceeding water quality criteria contained in 25 Pa. Code Chapter 93, that were not previously disclosed to DEP/CCD, the permittee or operator co-permittee must notify DEP/CCD by phone within 24 hours of receiving the sampling results. Contaminated groundwater may not be pumped or otherwise diverted to surface waters unless specifically authorized by the DEP Clean Water Program.

X. INFILTRATION SCMs

- A. The permittee must protect the infiltration surface for any area on a project site that will be used for infiltration-based SCMs. The surface must be protected from compaction, fines, and sediment unless it is used as an E&S BMP.
- B. Effective December 8, 2025, the permittee must complete confirmation testing for infiltration capacity to verify that infiltration SCMs will perform as designed anytime 1) the area of an infiltration SCM has not been protected, as determined by a licensed professional or DEP/CCD, and 2) an E&S BMP will be converted to a PCSM SCM and used for infiltration. Confirmation testing is a critical stage of SCM construction that must be overseen by a licensed professional or designee.
- C. Confirmation testing for infiltration capacity may be performed by 1) a simulated runoff test using a ponding depth of no less than six (6) inches within the SCM; 2) inspection during and after a storm event that produces a ponding depth of no less than six (6) inches within the SCM; or 3) infiltration testing using acceptable methods from the Pennsylvania Stormwater BMP Manual (363-0300-002), as amended and updated. The testing or inspection must be performed after major earthwork is complete, after permanent stabilization of the SCM's drainage area, and, where an E&S BMP is being converted to a PCSM SCM, prior to placing soil media or stone in an SCM.
- D. The permittee may not proceed to complete construction of the SCM until a licensed professional evaluates the confirmation testing and notifies the permittee that the infiltration SCM meets the purpose and intent of the approved PCSM Plan, without overflowing at the storm event the SCM is designed to manage, and will protect waters of the Commonwealth.
- E. If the licensed professional determines that the SCM will not function as designed, the permittee shall implement corrective measures under the direction of the licensed professional and retest. If the licensed professional recommends changes to the dimensions, location, or type of SCM, the permittee must notify DEP/CCD prior to implementing the changes to determine the possible need for an amendment to the approved PCSM Plan and permit coverage. If an amendment is required, the permittee may not proceed with implementing the changes until written approval is obtained.
- F. Where confirmation testing for infiltration capacity is completed, the permittee must report the results of the testing on the SCM Construction Certification form that is required by Part A III.C.2.b of this permit.

XI. IMPLEMENTATION OF PERMIT REQUIREMENTS

- A. Prior to commencement of construction activities or commencement of work on the project site, the permittee and co-permittee(s) must ensure that the following personnel understand the requirements of, and their specific responsibilities under, this permit:
 - Personnel responsible for the installation, maintenance, and/or repair of E&S BMPs and PCSM SCMs and implementation of the PPC Plan.
 - Personnel responsible for the application and storage of treatment chemicals (if applicable).

- Personnel responsible for conducting inspections.
 - Personnel responsible for taking corrective actions.
- B. The permittee and co-permittees are responsible for ensuring that all activities on the project site comply with the requirements of this permit.
- C. All personnel must have access at all times during earth disturbance activities to an electronic or paper copy of this permit, the approved copies of the E&S, PCSM and PPC Plans, and other relevant documents or information that must be kept with these plans.

XII. OTHER REQUIREMENTS

A. Cessation of Earth Disturbance Activities.

The permittee must cease earth disturbance activities resulting in stormwater discharges during construction upon written notification from DEP/CCD in the form of an order or inspection report, and may not resume such activities until authorized to do so by DEP/CCD. DEP/CCD may require cessation of earth disturbance activities where required plans are not in place, where plans are significantly deficient and could result in environmental harm, where potential or actual harm is identified during on-site inspections, or for other reasons pursuant to applicable law.

B. Compliance and Enforcement.

1. A person aggrieved by an action of a CCD must request an informal hearing with DEP within 30 days following the notice of the action. DEP will schedule the informal hearing and make a final determination within 30 days of the request. Any final determination by DEP under the informal hearing may be appealed to the Environmental Hearing Board (EHB) in accordance with established administrative and judicial procedures. (25 Pa. Code § 102.32(c))
2. For enforcement action taken under this permit, DEP/CCD may collect or recover, from the responsible party, costs and expenses involved in taking enforcement action and initiating cost recovery actions. DEP/CCD may collect the amount in the same manner as civil penalties are collected under Section 605 of The Clean Streams Law (35 P.S. § 691.605). (25 Pa. Code § 102.32(d))

C. Non-Stormwater Discharges.

Except as set forth in Part C I.B of this permit, non-stormwater discharges are not authorized under this permit. The permittee must cease any non-stormwater discharge upon receipt of written notification from DEP/CCD that the discharge is not authorized under this permit.

D. Off-Site Support Activities.

The permittee may utilize only those off-site support activities meeting the following criteria:

1. The off-site support activities have been identified in the application and are eligible for coverage under this permit.
2. If the off-site support activities have not been identified in the application for permit coverage, the permittee has notified DEP/CCD of the identification of the off-site support activities, prior to their use, and DEP/CCD has approved an amendment of the permittee's coverage under this permit.
3. A written E&S Plan that includes all off-site support activities has been developed, submitted for review, and approved by DEP/CCD.

E. Off-Site Discharges.

The permittee must ensure that E&S BMPs and PCSM SCMs are installed and maintained for all off-site discharges to areas other than surface waters, as applicable, including but not limited to swales, ditches, and the ground surface.

F. Archaeological Specimens.

The permittee and its agents must visually inspect for archaeological specimens, as the term is defined in the Pennsylvania State History Code (37 Pa. C.S.A., §§ 101 *et seq.*), during earth disturbance activities, and must immediately cease earth disturbance activities upon discovery of archaeological specimens. Upon discovery the permittee must immediately notify DEP/CCD and the Pennsylvania Historical and Museum Commission (PHMC) (Phone: (717) 783-8947).

G. Threatened and Endangered Species Protection.

1. If applicable, the permittee and co-permittee(s) must comply with the provisions of any Habitat Conservation Plan approved by the jurisdictional resource agencies to protect state or federal threatened and endangered species.
2. If any potential impact to federal or state threatened or endangered species is identified on the Pennsylvania Natural Diversity Inventory (PNDI) receipt, the permittee must implement any avoidance/mitigation measures indicated on the PNDI receipt and/or other measures determined necessary by the resource agencies in a clearance letter, determination or other correspondence to resolve potential species impacts and ensure compliance with applicable federal and State laws pertaining to the protection of state or federal threatened and endangered species.
3. When conducting earth disturbance activities, the permittee and co-permittees have a continuing obligation to ensure compliance with applicable state and federal laws pertaining to the protection of state or federal threatened and endangered species.

H. Special Conditions.

1. Earth disturbance activities shall not commence at the locations (project sites) specified by the Pennsylvania Fish & Boat Commission (PFBC) correspondence dated 1/22/2025 (Site 0-27), where PFBC recommended either mussel salvage work or survey work be completed, until these sites have obtained written clearance from PFBC regarding the potential for impacts to threatened or endangered species. Clearance documentation shall be provided to the Department prior to conducting any earth disturbance associated with these sites. Any alterations to planned outfalls not noted in the approved application or additional outfalls shall be coordinated with the Department and require appropriate PFBC clearances to be submitted to the Department prior to any earth disturbance associated with those alterations.
2. All limitations, conditions, procedures, testing, and monitoring which is in the Material Management Plan/Soil Management Plan (MMP/SMP) and/or any Act 2 approved remediation plan or site characterization provided with this application dated December 2024 are to be followed. No deviation from the MMP/SMP is permitted without written authorization from the Department (DEP).
 - a. If contaminants or conditions with the potential to cause pollution are found during construction which are beyond the scope of the MMP/SMP or Act 2 considerations, DEP and the County Conservation District shall be notified and measures implemented to contain potential pollution sources immediately upon discovery.
 - b. Any contaminated material to be transported and disposed of off-site including but not limited to pumped groundwater may require permitting with DEP's Waste Management or Clean Water programs. These permits should be anticipated and shall be secured prior to earth disturbance.
 - c. The contractor shall develop a written MMP/SMP using the MMP/SMP guidelines provided with this application prior to beginning earth disturbance. The plan shall be submitted to the Department prior to conducting earth disturbance. Should this plan cause any alterations to the approved E&S/PCSM Plans, an amendment application shall be submitted immediately.

Addendum No. 2

Attachment B

**APPENDIX A – TECHNICAL
SPECIFICATIONS, Section 01 45 23, Attachment
1 - List of Historic Structures**

OHIO RIVER TUNNEL (ORT) PROJECT
ATTACHMENT 1 – LIST OF HISTORIC STRUCTURES^{1,2}

Structure Name or Designation	Resource Name and Number in PA-SHARE	Current NRHP Eligibility	Northing (NAD83 PA South State Plane)	Easting (NAD83 PA South State Plane)	Adjacent Shaft or Tunnel	Property Owner	Property Owner Contact Information ³
CSX Transportation (CSXT) Railroad Bridge, McKees Rocks, PA	Pittsburgh & Lake Erie (PLE) Railroad, Bridge No. 3.36 over Chartiers Creek; 1991RE00847	Eligible	420649.86	1327630.77	CCT-007-AS; Within Area of Potential Effect (APE) for vibrational impacts; not within LOD.	CSXT	Nick Jenkins CSXT 904-279-3837 Nicholas_Jenkins@csx.com
CSXT Railroad, McKees Rocks, PA	PLE Railroad (Mahoning Township to Brownsville); 2001RE01532	Eligible	420831.85	1327577.81	CCT-007-AS; Within APE for vibrational impacts; not within LOD.	CSXT	Nick Jenkins CSXT 904-279-3837 Nicholas_Jenkins@csx.com
CSXT Railroad, McKees Rocks, PA	PLE Railroad; 1991RE00847	Eligible	420806.63	1327490.15	CCT-007-AS; Within APE for vibrational impacts; not within LOD.	CSXT	Nick Jenkins CSXT 904-279-3837 Nicholas_Jenkins@csx.com
McKees Rocks Bottoms Historic District, McKees Rocks, PA	McKees Rocks Bottoms Historic District; 2024RE00552	Eligible	423616.70	1327233.92	ORT-006A-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; within LOD. Structures within the LOD will be demolished in advance of ORT Project construction. Not within LOD: APE – Identified Contributing Structures:	ALCOSAN (owner of parcels in the LOD).	Kim Kennedy ALCOSAN 412-734-6254 kimberly.kennedy@alcosan.org (owner of parcels in the LOD)

**OHIO RIVER TUNNEL (ORT) PROJECT
ATTACHMENT 1 – LIST OF HISTORIC STRUCTURES^{1, 2}**

Structure Name or Designation	Resource Name and Number in PA-SHARE	Current NRHP Eligibility	Northing (NAD83 PA South State Plane)	Easting (NAD83 PA South State Plane)	Adjacent Shaft or Tunnel	Property Owner	Property Owner Contact Information³
					Drop Shaft APE	415 Shingiss St	HANDLOW ROBERT U JR & LAURA E (W) 415 Shingiss St, Apt 3
					Drop Shaft APE	332 Washington St	RICKERD HOWARD G JR 332 WASHINGTON ST
					Drop Shaft APE	330 Washington St	OVA ENTERPRISES LLC 123 REDBUD CT GIBSONIA PA 15044, and DBP RENTAL PROPERTIES LLC 123 REDBUD CT GIBSONIA PA 15044
					Drop Shaft APE	328 Washington St	ORCHAD CAPITAL GROUP LLC PO BOX 11 IMPERIAL PA 15126
					Drop Shaft APE	326 Washington St	NOLTE JACOB JOHN 342 FOREST GROVE RD CORAOPOLIS PA 15108-3749
					Drop Shaft APE	324 Washington St	SWEGER HARRIET 123 PLEASANT DR ALIQUIPPA PA 15001
					Drop Shaft APE	322 Washington St	3 R'S DEVELOPMENT LLC 333 W 12TH AVE HOMESTEAD PA 15120-1403
					Drop Shaft APE	320 Washington St Rear	SAVICKAS GENEVIEVE MELISSA 317 ELLA ST MC KEES ROCKS PA 15136

**OHIO RIVER TUNNEL (ORT) PROJECT
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					Drop Shaft APE	313 Ella St	THIAGARAJAH PRASHAN 244 PINE CT PITTSBURGH PA 15237
					Drop Shaft APE	315 Ella St	SMITH STEVE 366 CLIFF MINE RD CORAOPOLIS PA 15108-7701
					Drop Shaft APE	321 Ella St	VERKAT VENTURES A LLC 42 DUNTWOOD RD PORT WASHINGTON NY 11050
					Drop Shaft APE	325 Ella St	M & M INVESTMENT PROPS LLC 461 COCHRAN RD # 146 PITTSBURGH PA 15228
					Drop Shaft APE	307 Ella St	STONEGATE MORTGAGE CORPORATION 3001 HACKBERRY RD ATTENTION: BILLS RECIEVED IRVING TX 75063
					Drop Shaft APE	310 Ella St	OCWEN LOAN SERVICING LLC 901 CORPORATE CENTER DR POMONA CA 91768

**OHIO RIVER TUNNEL (ORT) PROJECT
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					Drop Shaft APE	314 Ella St	HANDLOW ROBERT U JR & LAURA E (W) 415 SHINGISS ST APT 3 MC KEES ROCKS PA 15136
					Drop Shaft APE	316 Ella St	STRADA INVESTMENTS LLC 1810 REDDY DR UNIT 510 WOODBIDGE VA 22191
					Drop Shaft APE	318 Ella St	RHODES JAMES 1759 WATERFRONT PL APT 329 PITTSBURGH PA 15222
					Drop Shaft APE	320 Ella St	KIBREAB JOSEPH A 1435 FLEMING AVE MC KEES ROCKS PA 15136-2431
					Drop Shaft APE	322 Ella St	PENNYMAC LOAN SERVICES, LLC ATTENTION: BILLS RECEIVED 3001 HACKBERRY RD IRVING TX 75063
					Drop Shaft APE	311 Campbell St	PERSIC CHRISTOPHER J 311 CAMPBELL ST MC KEES ROCKS PA 15136-2727
					Drop Shaft APE	313 Campbell St	BILAK ALEX STEVEN 356 OLIVIA ST MC KEES ROCKS PA 15136-2762

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					Drop Shaft APE	315 Campbell St	WILLIAM J DEVER FAMILY TRUST C/O WILLIAM J DEVER TRUSTEE 1546 INGOMAR HEIGHTS RD PITTSBURGH PA 15237-1607
					Drop Shaft APE	317 Campbell St	GLENN DORRIAN D 317 CAMPBELL ST MC KEES ROCKS PA 15136
					Drop Shaft APE	319 Campbell St	COMMUNITY LOAN SERVICING, INC ATTENTION: BILLS RECIEVED 4425 PONCE DE LEON BLVD MIAMI FL 33146
					Drop Shaft APE	321 Campbell St	OCWEN LOAN SERVICING LLC 901 CORPORATE CENTER DR POMONA CA 91768
					Drop Shaft APE	323 Campbell St	BUCHKO WILLIAM E 323 CAMPBELL ST MC KEES ROCKS PA 15136-2727
					Drop Shaft APE	325 Campbell St	OWGS LLC 3279 W LIBERTY AVE PITTSBURGH PA 15216
					Drop Shaft APE	329 Campbell St	OWGS LLC 3279 W LIBERTY AVE PITTSBURGH PA 15216

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					Drop Shaft APE	316 Campbell St	MAZUREK RONALD & FRANCIS M (W) 155 ROOSEVELT AVE MC KEES ROCKS PA 15136-2403
					Drop Shaft APE	309 Shingiss St	RICCARDI DALE 309 SHINGISS ST MC KEES ROCKS PA 15136-2737
					Drop Shaft APE	307 Shingiss St	N/A
					CCT-O06A-AD	301 Shingiss St	EVANS JOSEPHINE I 301 SHINGISS ST MC KEES ROCKS PA 15136-2737
					Drop Shaft APE	308 Shingiss St	SUN YANBO 1411 BARBARA ST VERONA PA 15147
					Drop Shaft APE	312 Shingiss St	LAVERY ROBERT K 809 HOPKINS ST SEWICKLEY PA 15143-1643
					Drop Shaft APE	314 Shingiss St	JAMES A AULL 314 SHINGISS ST MC KEES ROCKS PA 15136
					Drop Shaft APE	316 Shingiss St	JAMES A AULL 314 SHINGISS ST MC KEES ROCKS PA 15136
					Drop Shaft APE	320 Shingiss St	FAULK TIMOTHY D & JULIE A (W) 320 SHINGISS ST MC KEES ROCKS PA 15136-2738

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					Drop Shaft APE	322 Shingiss St	PORUPSKY BERTHA E & GEORGE C (H) 322 SHINGISS ST MC KEES ROCKS PA 15136-2738
					Drop Shaft APE	324 Shingiss St	BENWOOD L P PO BOX 20524 SAN JOSE CA 95160
					Drop Shaft APE	400 Shingiss St	R&C'S HALL & LOUNGE LLC 48 GRANT AVE PITTSBURGH PA 15202
					Drop Shaft APE	403 Shingiss St	N/A
					Drop Shaft APE	404 Shingiss St (also known as 404A Shingiss St)	WERT STEPHEN & MICHELLE 2339 LOS ANGELES AVE PITTSBURGH PA 15216
					Drop Shaft APE	406 Shingiss St (also known as 406A Shingiss St)	CDL PROPERTIES LLC 1110 STEUBEN SUITE APT 207 PITTSBURGH PA 15220
					Drop Shaft APE	408 Shingiss St (also known as 408A Shingiss St)	TKACZENKO STEPHEN JR 408 SHINGISS ST MC KEES ROCKS PA 15136-2740
					Drop Shaft APE	410 Shingiss St (also known as 410A Shingiss St)	DEGRASSE ELIZABETH JUANITA 3166 FENTON AVE APT 1 BRONX NY 10469-3111

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					Drop Shaft APE	412 Shingiss St (also known as 412A Shingiss St)	PGH CITY PROPERTY LLC 357 FLAUGHERTY RUN RD STE 105 CORAOPOLIS PA 15108
					Drop Shaft APE Drop Shaft APE	414S Shingiss St (also known as 414B Shingiss St) 414A Shingiss St	FEHL DAVID 414 SHINGISS ST MC KEES ROCKS PA 15136-2740 KEVIN J KOCHIRKA 42 EWING RD MC KEES ROCKS PA 15136
					Drop Shaft APE	404B Shingiss St	FRAUENS BRYAN SR 404 SHINGISS ST MC KEES ROCKS PA 15136
					Drop Shaft APE	406B Shingiss St	H & J PROPERTIES LLC 2170 REIS RUN RD PITTSBURGH PA 15237-1425
					Drop Shaft APE	408B Shingiss St	H & J PROPERTIES LLC 2170 REIS RUN RD PITTSBURGH PA 15237-1425
					Drop Shaft APE	410B Shingiss St	WOJCIECHOWSKI THOMAS J & DONNA M (W) 410 SHINGISS ST MC KEES ROCKS PA 15136-2740

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					Drop Shaft APE	412B Shingiss St	SCHWARTZMILLER PATRICIA & WALTER G (H) 159 BROOKMEADE DR PITTSBURGH PA 15237-1709
					Drop Shaft APE	407 Ella St	KINDSVATER KENNETH R & SUZANNE M (W) 325 SQUIRE CIR PITTSBURGH PA 15212-1976
					Drop Shaft APE	408 Ella St	N/A
					Drop Shaft APE	411 Ella St	JP ENTITIES LLC 711 RIDGE AVE MC KEES ROCKS PA 15136
					Drop Shaft APE	412 Ella St	N/A
					Drop Shaft APE	404 Ella St	S & T BANK ATTN: ESCROW DEPARTMENT PO BOX 190 INDIANA PA 15701
					Drop Shaft APE	410 Ella St	WELLS FARGO R E TAX SERVICES MAC F2302-033 1 HOME CAMPUS DES MOINES IA 50328
					Drop Shaft APE	414 Ella St	GROUND LEVEL DEVELOPMENT CO TRUST 236 CHARTIERS AVE PITTSBURGH PA 15205

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					Drop Shaft APE	328, 330, 332, 334, 336, 338, & 340 Gardner St	GMG RENTALS INC 219 MONTCLAIR AVE PITTSBURGH PA 15229-1757
					Drop Shaft APE	325 Gardner St	SPRYS RAYMOND P & BARBARA ANN (W) 325 GARDNER ST MC KEES ROCKS PA 15136-2822
					Drop Shaft APE	323 Gardner St	C/O FBO DONALD J BENNETT TRADITIONAL IRA 8742 E VIA DE COMMERCIA SCOTTSDALE AZ 85258
					Drop Shaft APE	321 Gardner St	HINES ROBERT S & LIANE (W) 321 GARDNER ST MC KEES ROCKS PA 15136-2822
					Drop Shaft APE	319 Gardner St	US BANCORP SERV PROVIDERS ATTENTION: BILLS RECIEVED 6053 S FASHION SQUARE DR MURRAY UT 84107
					Drop Shaft APE	315 Gardner St	HERNIAK EDWARD P 315 GARDNER ST MC KEES ROCKS PA 15136-2822
					CCT-006A-AD	313 Gardner St	NEW LOCKHART LLC 701 HARRIET ST MC KEES ROCKS PA 15136

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					CCT-O06A-AD	311 Gardner St	SCHNEIDER WILLIAM 9800 MCKNIGHT RD STE 227 PITTSBURGH PA 15237
					CCT-O06A-AD	309 Gardner St	BORKOWSKI LAUREN ANNE 28 SCENIC DR CORAOPOLIS PA 15108-3606
					CCT-O06A-AD	307 Gardner St	PHH MORTGAGE SERVICES PO BOX 5452 MT LAUREL NJ 08054
					CCT-O06A-AD	305 Gardner St	CITIMORTGAGE INC ATTENTION: BILLS RECIEVED 3001 HACKBERRY RD IRVING TX 75063
					CCT-O06A-AD	303 Gardner St	HRYADIL NICHOLAS JR 1187 PINE HOLLOW RD MC KEES ROCKS PA 15136-1715
					CCT-O06A-AD	301 Gardner St	INGRAM MARION PUSKAR & STEPHAN P PUSKAR 301 GARDNER ST MC KEES ROCKS PA 15136-2822
					CCT-O06A-AD	324 Catherine St	TRAVELLA MARIA A 324 CATHERINE ST MC KEES ROCKS PA 15136-2868

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					CCT-O06A-AD	329 Catherine St	SCHWAB KEITH A 329 CATHERINE ST MC KEES ROCKS PA 15136-281
					CCT-O06A-AD	139 & 141 Shingiss St	GARY LEE LIVING TRUST 233 WATSON BLVD PITTSBURGH PA 15215
					CCT-O06A-AD	137 Shingiss St	BELLZ REALTY & REMODELING LLC 137 SHINGISS ST MC KEES ROCKS PA 15136
					CCT-O06A-AD	135 Shingiss St	HARVEY SARAH 135 SHINGISS ST MC KEES ROCKS PA 15136
					CCT-O06A-AD	133 Shingiss St	ZAFFINO FRANCIS L 133 SHINGISS ST MC KEES ROCKS PA 15136
					CCT-O06A-AD	125 Shingiss St	CITYLIFE WEST LLC 10 BEDFORD ST PITTSBURGH PA 15203
					CCT-O06A-AD	123 Shingiss St	CITYLIFE WEST LLC 1812 E CARSON ST PITTSBURGH PA 1520
					CCT-O06A-AD	119 & 121 Shingiss St	CITYLIFE ENTITIES 1812 E CARSON ST PITTSBURGH PA 15203

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Structure Name or Designation	Resource Name and Number in PA-SHARE	Current NRHP Eligibility	Northing (NAD83 PA South State Plane)	Easting (NAD83 PA South State Plane)	Adjacent Shaft or Tunnel	Property Owner	Property Owner Contact Information³
					CCT-O06A-AD	117 Shingiss St	ALLEGHENY PROPERTY GROUP LLC 325 SQUIRE CIR PITTSBURGH PA 15212-1976
					CCT-O06A-AD	113 Shingiss St	MELONI MICHAEL 113 SHINGISS ST MC KEES ROCKS PA 15136-2834
					CCT-O06A-AD	111 Shingiss St	MALITS DAWN 111 SHINGISS ST MC KEES ROCKS PA 15136-2834
					CCT-O06A-AD	109 Shingiss St	MATTHEW ROBERT WILSON 508 ISLAND AVE MC KEES ROCKS PA 15136
					CCT-O06A-AD	107 Shingiss St	DRESSLER JOANNE 107 SHINGISS ST MC KEES ROCKS PA 15136-2834
					CCT-O06A-AD	136 Shingiss St	CARE OF CITYLIFE RESIDENTIAL LLC 10 BEDFORD SQ PITTSBURGH PA 15203
					CCT-O06A-AD	118 Shingiss St	BENCHO ROCHELLE A & THOMAS M (H) 1390 CARDINAL DR PITTSBURGH PA 15243-1210
					CCT-O06A-AD	106 Shingiss St	KD1 LLC 126 WAGNER ST LATROBE PA 15650

OHIO RIVER TUNNEL (ORT) PROJECT
ATTACHMENT 1 – LIST OF HISTORIC STRUCTURES^{1, 2}

Structure Name or Designation	Resource Name and Number in PA-SHARE	Current NRHP Eligibility	Northing (NAD83 PA South State Plane)	Easting (NAD83 PA South State Plane)	Adjacent Shaft or Tunnel	Property Owner	Property Owner Contact Information ³
					CCT-O06A-AD	104 Shingiss St	*EBILL*SOVANA PROPERTIES-SOUTH 1 LP 238 VAGABOND CT ALAMO CA 94507
					CCT-O06A-AD	102 Shingiss St	ARLOTT RONALD 102 SHINGISS ST MC KEES ROCKS PA 15136-283
					CCT-O06A-AD	100 Shingiss St	GODFREY BARBARA A 100 SHINGISS ST MC KEES ROCKS PA 15136-2835
					CCT-O06A-AD	501 Robb St	SAFWAY STEEL SCAFFOLDS CO 501 ROBB ST MC KEES ROCKS PA 15136
					CCT-O06A-AD. Within APE for vibrational impacts.	Pittsburgh & Ohio Central Railroad owned by Genesee & Wyoming ²	Jared Rishel jrischel@gwrr.com Greg Breaston greg.breaston@gwrr.com Jeremy Hammond jeremy.hammond@gwrr.com Donna Killingsworth donna.killingsworth@gwrr.com
Former State Correctional Institution Pittsburgh, 3001 Beaver Avenue, Pittsburgh, PA	Western State Penitentiary; 1993RE00198	Listed	423070.93	1330809.58	ORT-O27-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	Commonwealth of PA	Commonwealth of PA Department of General Services Troy Thompson tthompson@pa.gov

**OHIO RIVER TUNNEL (ORT) PROJECT
ATTACHMENT 1 – LIST OF HISTORIC STRUCTURES^{1, 2}**

Structure Name or Designation	Resource Name and Number in PA-SHARE	Current NRHP Eligibility	Northing (NAD83 PA South State Plane)	Easting (NAD83 PA South State Plane)	Adjacent Shaft or Tunnel	Property Owner	Property Owner Contact Information³
West End Bridge (State Route 19), Pittsburgh, PA	West End – North Side Bridge; 1979RE00323	Listed	414052.32	1335027.41	SMRT-O41-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	Commonwealth of PA (PennDOT)	PennDOT Division 11: Michael Simmons 412-429-4879 micsimmons@pa.gov Keith Cornelius 412-429-2855 kcornelius@pa.gov
Hunt Stained Glass Studios 1756 West Carson Street Pittsburgh, PA	1992RE00738	Eligible	412681.14	1334898.78	SMRT-O14-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	Celeste Rose and David Anthony Parrendo	PARRENDO CELESTE ROSE 1756 W CARSON ST PITTSBURGH PA 15219-1036
Norfolk Southern Railroad, Pittsburgh, PA	Pennsylvania Railroad: Main Line (Harrisburg to Pittsburgh); 1993RE00391	Eligible	412559.04	1334724.94	SMRT-O14-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	Norfolk Southern	Timothy Harrison Norfolk Southern Timothy.Harrison@nscorp.com Christopher Cawley Norfolk Southern Christopher.Cawley2@nscorp.com
Norfolk Southern Railroad, Pittsburgh, PA	Pittsburgh & Steubenville Railroad (Pittsburgh to West Virginia line); 1992RE00243	Eligible	412547.12	1334751.56	SMRT-O14-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	Norfolk Southern	Timothy Harrison Norfolk Southern Timothy.Harrison@nscorp.com Christopher Cawley Norfolk Southern Christopher.Cawley2@nscorp.com

OHIO RIVER TUNNEL (ORT) PROJECT
ATTACHMENT 1 – LIST OF HISTORIC STRUCTURES^{1, 2}

Structure Name or Designation	Resource Name and Number in PA-SHARE	Current NRHP Eligibility	Northing (NAD83 PA South State Plane)	Easting (NAD83 PA South State Plane)	Adjacent Shaft or Tunnel	Property Owner	Property Owner Contact Information ³
CSXT Railroad, Pittsburgh, PA	PLE Railroad (Mahoning Township to Brownsville); 2001RE01532	Eligible	412755.61	1335066.95	SMRT-O14-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	CSXT	Nick Jenkins CSXT 904-279-3837 Nicholas_Jenkins@csx.com
CSXT Railroad, Pittsburgh, PA	PLE Railroad; 2010RE03867	Eligible	412804.21	1335011.62	SMRT-O14-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	CSXT	Nick Jenkins CSXT 904-279-3837 Nicholas_Jenkins@csx.com
Allegheny Commons Park West, Pittsburgh, PA	Allegheny Commons; 1999RE00182	Listed	414629.56	1339993.93	ORT-A48-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	City of Pittsburgh	Kyla Prendergast City of Pittsburgh, Department of City Planning kyla.prendergast@pittsburghpa.gov Pittsburgh Parks & Recreation Department 412-255-2539
D.L. Clark Building, 503 Martindale Street, Pittsburgh, PA	D.L. Clark Building; 2001RE00013	Eligible	414470.80	1340007.61	ORT-A48-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	501 Martindale Associates, LP	Merrill Stabile 501 Martindale Associates 412-323-4455 mstabile@alcoparking.com

OHIO RIVER TUNNEL (ORT) PROJECT
ATTACHMENT 1 – LIST OF HISTORIC STRUCTURES^{1,2}

Structure Name or Designation	Resource Name and Number in PA-SHARE	Current NRHP Eligibility	Northing (NAD83 PA South State Plane)	Easting (NAD83 PA South State Plane)	Adjacent Shaft or Tunnel	Property Owner	Property Owner Contact Information ³
Cordia Pittsburgh, 111 South Commons, Pittsburgh, PA	URA Steam/Power Plant; 2024RE00573	Eligible	414710.27	1340688.21	ORT-A48-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	Urban Redevelopment Authority of Pittsburgh (URA)	Corey DeRico (URA - Director of Quality Control and Facilities Management) 412-255-6689 cderico@ura.org; Matthew Brassard (Cordia Pittsburgh) 757-708-4179 matthew.brassard@clearwayenergy.com
Norfolk Southern Railroad, Pittsburgh, PA	Western Pennsylvania Railroad (Pittsburgh to Freeport); 2000RE00239	Eligible	414643.17	1340157.70	ORT-A48-DS; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	Norfolk Southern	Timothy Harrison Norfolk Southern Timothy.Harrison@nscorp.com Christopher Cawley Norfolk Southern Christopher.Cawley2@nscorp.com
Heinz at 950 North Shore, 950 Progress Street, Pittsburgh, PA	H.J. Heinz Company; 1978RE00364	Listed	416026.21	1344486.02	ORT-AS1; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	SB Development LP	Heinz at 950 North Shore 412-863-7964
Norfolk Southern Railroad, Pittsburgh, PA	Pennsylvania Railroad: Western Pennsylvania Line (Pittsburgh to Millvale); 1997RE00885	Eligible	415870.59	1343961.02	ORT-AS1; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	Norfolk Southern	Timothy Harrison Norfolk Southern Timothy.Harrison@nscorp.com Christopher Cawley Norfolk Southern Christopher.Cawley2@nscorp.com

OHIO RIVER TUNNEL (ORT) PROJECT
ATTACHMENT 1 – LIST OF HISTORIC STRUCTURES^{1,2}

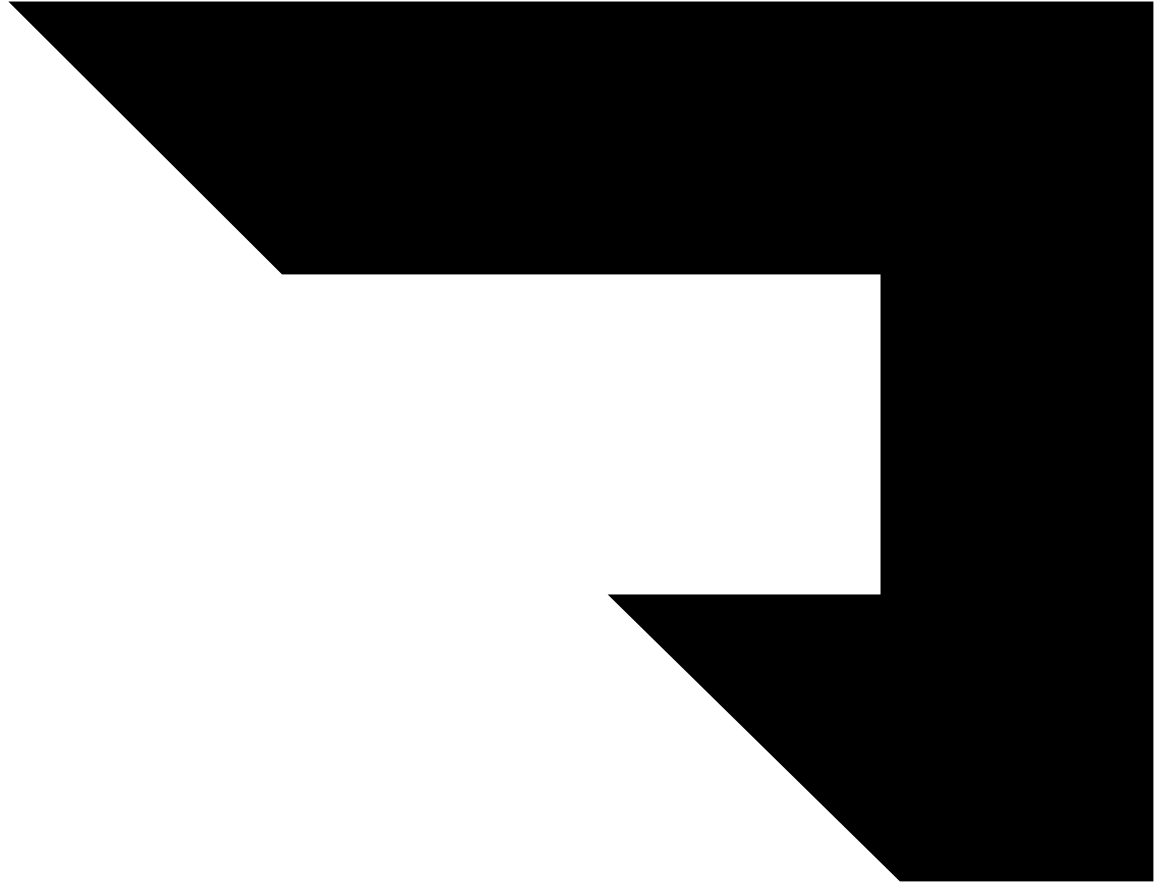
Structure Name or Designation	Resource Name and Number in PA-SHARE	Current NRHP Eligibility	Northing (NAD83 PA South State Plane)	Easting (NAD83 PA South State Plane)	Adjacent Shaft or Tunnel	Property Owner	Property Owner Contact Information ³
881-887 Progress Street, Pittsburgh, PA	Saint Wenceslaus Bohemian Catholic Church Complex; 2002RE02209	Eligible	415684.66	1344349.97	ORT-AS1; Within APE for vibrational impacts; within APE for visual and auditory impacts; not within LOD.	#881, 883: Paul M. Carmody. #885: Paul M. & Sean J. Carmody. #887: Edward S. (deceased) & Celeste M. Vitunic	Paul Carmody 412-322-0364 Sean Carmody 412-790-1382 Celeste Vitunic 412-487-4474
855 South Canal Street, Pittsburgh, PA	Allegheny Turner Hall; 1995RE00396	Eligible	415764.97	1344046.91	ORT-AS1; Within APE for vibrational impacts; within APE for visual and auditory impacts; within LOD.	ALCOSAN	Kim Kennedy ALCOSAN 412-734-6254 kimberly.kennedy@alcosan.org
Lane Steel Company, 4 River Road, McKees Rocks Borough, PA	Lane Steel/Lockhart Complex; 2024RE00566	Eligible	421972.77	1327398.68	CCT Tunnel; Within APE for vibrational impacts; not within LOD.	PMLR Properties	Michael Gedeon Lane Steel Company 412-777-1700

¹ Sources: ALCOSAN's *Identification Level Reconnaissance Documentation, Ohio River Tunnel Segment*, March 29, 2024; ALCOSAN's PA SHPO AG Property Recordation Submissions through PA SHARE in 2024; SHPO correspondence letters through 3/27/25.

² SHPO determined the railroad is ineligible, but it is considered to contribute to the McKees Rocks Bottoms Historic District.

³ Source for residential parcels: Allegheny County Real Estate Portal (<http://realestate.alleghenycounty.us>), accessed on 1/14/25. When property owner information was found to be missing or blank in the Allegheny County Real Estate Portal, "N/A" (not available) is indicated in this column.

Addendum No. 2
Attachment C
APPENDIX E – SUPPLEMENTAL
INFORMATION, Revised Table of Contents



ALCOSAN Ohio River Tunnel (ORT) Final Design

Appendix E - Supplemental Information
(For Reference Only)

August 21, 2025

Issue and revision record

Revision	Date	Originator	Checker	Approver	Description
1	07/30/25	Mott MacDonald	Mott MacDonald	ALCOSAN	Addendum 001.F1-a,b,c – Delete 3 files from Section 7.8.
2	08/21/25	Mott MacDonald	Mott MacDonald	ALCOSAN	Addendum 002.B5, B6, B7 – Delete 3 documents from Section 1.6.8; Add document to Section 1.6.4; Add Section 8 and its report document.

Document reference: ALCOSAN Contract No. 1797 | APPENDIX E | 2 | ADDENDUM002

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1 Environmental Reports

The environmental reports in this section have been organized by site.

	Location	Title
1.1	Site ORT-O27	Phase I Environmental Site Assessment Report – Valspar/Sherwin-Williams Site
1.2	Site SMRT-O41	Phase I Environmental Site Assessment Report – Cardello Electric Supply Company Site
		Phase II Environmental Site Assessment Report – Cardello Electric Supply Company Site
		Cardello Building Asbestos Report – Demolished by Others
		Analytical Report
		Adjoining Property Environmental Covenant
		O41 Sample Points - Exhibits
1.3	Site SMRT-A48	Phase I Environmental Site Assessment Report – Martindale Street Parcels
1.4	Site SMRT-A58	Phase I Environmental Site Assessment Report – River Avenue Parcels
1.5	Site ORT-AS1	Report of Findings Preliminary Environmental Subsurface Investigation – Buncher Property
		Phase I Environmental Site Assessment Report – Buncher Parcels
		Phase I Environmental Site Assessment Report – Non-Buncher Parcels
		837 S Canal Street Asbestos Survey Report
		837 S Canal Street Suspect Lead-Based Paint XRF Testing Report
		876 Progress Street Asbestos Survey Report
		876 Progress Street Suspect Lead-Based Paint XRF Testing Report
		853 S Canal Street Asbestos NESHAP Demolition Survey Report
		853 S Canal Street Suspect Lead-Based Paint XRF Testing Report
1.6	Site SMRT-O14	Phase I Environmental Site Assessment Report - Battaglia Parcel
		Phase II Environmental Site Assessment Report - Battaglia Parcel
		Phase I Environmental Site Assessment Report – Huber Parcels
		Letter Report Disposal Services – Soil Excavation at Battaglia Parcel; Eurofins Analytical Report for the Battaglia Parcel [AD002.B7]

1.6 Environmental Reports for Site SMRT- O14

DOCUMENT #	DESCRIPTION
1.6.1	Phase I Environmental Site Assessment Report - Battaglia Parcel prepared by Civil and Environmental Consultants (August 11, 2020)
1.6.2	Phase II Environmental Site Assessment Report - Battaglia Parcel prepared by Civil and Environmental Consultants (November 2, 2020)
1.6.3	Phase I Environmental Site Assessment Report – Huber Parcels prepared by Civil and Environmental Consultants (August 12, 2022)
1.6.4	Letter Report Disposal Services – Soil Excavation at Battaglia Parcel prepared by Civil and Environmental Consultants (November 10, 2022); Eurofins Analytical Report for Battaglia Parcel (October 4, 2022) [AD002.B7]
1.6.5	1762 West Carson Street Suspect Lead-Based Paint XRF Testing Report prepared by Mid Atlantic Environmental Consultants (December 2023)
1.6.6	1762 West Carson Street Asbestos Survey Report prepared by Mid Atlantic Environmental Consultants (December 2023)
1.6.7	Phase I Environmental Site Assessment Report – Buncher Parcel prepared by Civil and Environmental Consultants (February 9, 2024)
1.6.8	Phase I Environmental Site Assessment Report – Guttman Parcel prepared by Civil and Environmental Consultants (February 2024)

**1.6.4 Letter Report Disposal Services – Soil Excavation at Battaglia Parcel -
1730 Riverside Street; Eurofins Analytical Report for Battaglia Parcel
[AD002.B7]**

Letter Report Date: November 10, 2022

Letter Report Consultant: Civil and Environmental Consultants

Analytical Report Date: October 4, 2022

Analytical Report Laboratory: Eurofins Pittsburgh Laboratory [AD002.B7]

1.6.8 Phase I Environmental Site Assessment Report – Guttman Parcel - West Carson Street

Date: February 2024

Consultant: Civil and Environmental Consultants

In APPENDIX E, which is not part of the Bid Documents – REMOVE the landfill receipt and Non-Hazardous Waste Manifest from Section 1.6.8. [AD002.B6]

In APPENDIX E, which is not part of the Bid Documents - REMOVE the Eurofins Analytical Report from Section 1.6.8 and ADD the Eurofins Analytical Report to Section 1.6.4 because it applies to the O14 Battaglia Parcel – 1730 Riverside Street. [AD002.B7]

7.8 CCTV Data Received from ALCOSAN

[AD001.F1-a,b,c] Delete the following files that are not part of the Bid Documents from Appendix E – 7.8 CCTV

- a) Delete “1756 RedZone Contract Pay Items Only.pdf”*
- b) Delete “1756 RedZone Contract.pdf”*
- c) Delete “1756 Technical Specification.pdf”*

**FILES CAN BE ACCESSED
ELECTRONICALLY**

8 **ORT Material Management Plan – Issued for Permit [AD002.B5]**

	Information
8.1	ORT Material Management Plan – Issued for Permit, prepared by Mott MacDonald, dated December 20, 2024 [AD002.B5]

Addendum No. 2

Attachment D

**APPENDIX E – SUPPLEMENTAL
INFORMATION, Section 8 ORT Material
Management Plan – Issued for Permit**



Ohio River Tunnel Project

Material Management Plan - Issued for Permit

December 2024

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Two Allegheny Center
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United States of America

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Ohio River Tunnel Project

Material Management Plan - Issued for Permit

December 2024

Issue and revision record

Revision	Date	Originator	Checker	Approver	Description
Original	12/20/24	B. Petryna	D. McConnell E. Sibley D. Healey Langley	K. Chavara	Issued for Permit

Document reference: 507105621 |

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1 Introduction

This Material Management Plan (MMP) sample document has been prepared as supporting documentation for Allegheny County Sanitary Authority's (ALCOSAN's) Ohio River Tunnel (ORT) Project NPDES Individual Permit for Discharges of Stormwater Associated with Construction Activities, Application PAD020084.

Site-specific MMPs will be generated by the ORT contractor for each near surface site, including tunnel shafts.

As part of the Clean Water Plan (CWP), ALCOSAN is tasked with delivering the Regional Conveyance Facilities component of the Interim Measures Wet Weather Plan (IWWP) to significantly reduce combined sewage overflows to improve water quality in the region's rivers. The IWWP is the first phase of the CWP. The ORT Project (the Project) is one of the three major tunnel projects included in the Regional Conveyance Facilities. The ORT Project consists of:

- The ORT main tunnel, at 18 feet finished (internal) diameter, approximately 20,000 feet long, and approximately 150 feet below ground.
- Two river crossings, Chartiers Creek Tunnel (CCT) and Saw Mill Run Tunnel (SMRT), both at 14 feet finished (internal) diameter and approximately 4,500 feet and 1,600 feet long, respectively. Both the CCT and SMRT will be constructed approximately 150 feet below ground.
- The dewatering tunnel (DWT), at 8 feet internal diameter, approximately 600 feet long, and approximately 150 feet below ground surface.
- The Ella Street to CCT connector tunnel (CCT-O06A-AD) beneath Shingiss Street, at 7 feet internal diameter, approximately 1,900 feet long, and approximately 140 feet below ground surface.
- Launch and retrieval shafts for tunnel construction, drop shafts with connector tunnels (or adits) to the main tunnels, near surface facilities (NSFs) including regulators, conveyance sewers, and modified outfalls, and ancillary project elements at the identified tunneling and/or flow connection sites ORT-O27, SMRT-O41, ORT-A48, ORT-A58, ORT-AS1, SMRT-O14, CCT-O07, and CCT-O06A. These eight sites where surface disturbance will occur are located in the City of Pittsburgh (six sites) and McKees Rocks (two sites).

Environmental due diligence identified potential historic fill material at all eight of the near surface sites. Environmental due diligence, as defined by the Pennsylvania Department of Environmental Protection (PADEP) Management of Fill Policy, include Phase I Environmental Site Assessments (ESAs), Phase II ESAs, and/or Environmental Due Diligence Reports. Potential environmental contamination from past site uses were identified at sites O27, O41, A58, AS1, O14, O07, and O06A. The Environmental Due Diligence reports reviewed by ALCOSAN can be provided upon request by the PADEP.

Additional geotechnical testing also indicates that rock excavated from the tunnels and shafts at various locations may qualify as acid-producing rock (APR) or potentially APR. Rock testing analytical results will be submitted to the PADEP under separate cover.

The purpose of this MMP is to outline procedures that the ORT contractor will follow so that the soil, rock, and water encountered during project construction are handled in a manner that is protective of human health, safety, and the environment. The ORT Project specifications will

specify the contractor submittal procedures for the site-specific MMP, the timeline for submitting, and how the approval will be documented. An outline of the minimum required components of the contractor's site-specific MMPs is included as Appendix A.

2 Background information

2.1 Near surface sites

Environmental due diligence was conducted for each of the near surface sites prior to ALCOSAN's acquisition of the sites. The environmental due diligence for the near surface sites was limited to potential impacts to soil and groundwater, and not the underlying bedrock material. A summary of the environmental due diligence findings by site is included below:

2.1.1 Site ORT-027

A Phase I Environmental Site Assessment (ESA) was conducted in August 2021. The following Recognized Environmental Concerns (RECs) were identified in the Phase I ESA:

- Historic Site Use (industrial Site use dating back to 1921)
- Vapor encroachment concerns associated with the adjacent Valspar/Sherwin-Williams facility

The following environmental concern was not identified in the Phase I ESA but was identified during the review of supporting documentation for the Phase I ESA.

- Historic Fill

The Phase I ESA did not recommend any additional environmental investigations.

A review of boring logs from the ORT Preliminary Planning and Final Design geotechnical explorations indicated that potential historic fill material was observed to a depth of approximately 18 feet below surface grade.

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material to be disposed of as Clean Fill or Regulated Fill shall be characterized in accordance with the PADEP's "Management of Fill" policy for Historic Fill parameters. Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.2 Site SMRT-O41

A Phase I ESA was conducted in July 2020. The following RECs were identified in the Phase I ESA:

- Potential offsite impacts migrating on-site from the neighboring property identified as Rivers Casino
- Potential offsite impacts migrating on-site from the neighboring property formerly identified as Allentown Vehicle Maintenance Facility

The following environmental concerns were not identified in the Phase I ESA, but were identified during the review of supporting documentation for the Phase I ESA:

- Historic Site use. As the Site was historically utilized by Crucible Steel Co., and at other times was utilized as a coal supply facility, repair shop, wood pump works, and a warehouse, historic site operations should be considered as a REC. Rail spurs were also historically located at the Site, which would be considered a REC.
- Historic Fill

A Phase II Site Investigation was conducted in September 2020. The findings of the Phase II Site Investigation are as follows:

- Sample analytical results revealed exceedances of the PADEP's Non-Residential Soil-to-Groundwater Medium Specific Concentrations (MSC) for arsenic and selenium in one location at the 1 to 3 feet below ground surface soil horizon. No exceedances were detected at this location in a sample collected from the 5 to 7 feet below ground surface soil horizon. No exceedances were detected in the three other soil boring locations. All soil borings were installed in the southern portion of the Site.
- A temporary well point located on the eastern property boundary, towards the Rivers Casino site. Groundwater was not encountered at the maximum explored depth of 15 feet below ground surface in the temporary well point.

A review of boring logs from the ORT Preliminary Planning and Final Design geotechnical explorations indicated that potential historic fill material was observed to a depth of approximately 15 feet below ground surface.

Soil samples were collected during Site demolition activities in 2023-2024 were analyzed for Historic Fill parameters, as defined by the PADEP's "Management of Fill" policy. A review of sample analytical results revealed:

- Lead was detected in exceedance of the Residential and Non-Residential Soil to Groundwater MSC in one soil sample. Additionally, Benzo(b)fluoranthene and Benzo(a)pyrene were detected in exceedance of the Residential Direct Contact MSC. These exceedances are likely associated with the presence of historic fill material.
- Molybdenum was detected in exceedance of the Residential and Non-Residential Soil to Groundwater MSC in two soil samples. The molybdenum is likely associated with steel production byproducts in the historic fill material.
- Manganese and fluoride were detected in exceedance of the Residential and Non-Residential Soil to Groundwater MSC in one soil sample.
- No exceedances of the Residential or Non-Residential MSC were detected in two of the soil samples.
- Toxicity Characteristic Leaching Procedures (TCLP) and Resource Conservation and Recovery Act (RCRA) Characteristics analysis revealed no exceedances of the RCRA Hazardous Waste Thresholds.

A review of the Deed Restriction at the neighboring Rivers Casino site revealed the following:

- Contaminants of concern for the Rivers Casino site consist of volatile organic compounds, semi-volatile organic compounds, and various metals. Soil contamination is attributed to historic site operations and historic fill. Groundwater is impacted with arsenic, manganese, cadmium, cyanide, lead, barium, cobalt, nickel, selenium, zinc, bromodichloromethane, chloroform, ethylbenzene, 1,1,1-trichloroethane, trichloroethene, xylenes, fluoranthene, phenanthrene, and pyrene.

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material to be disposed of as Clean Fill or Regulated Fill shall be characterized in accordance with the PADEP's "Management of Fill" policy for Historic Fill parameters. Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.3 Site ORT-A48

A Phase I ESA was conducted in August 2023. No RECs were identified in the Phase I ESA. The following environmental concern was identified in the Phase I ESA, but is not listed as a REC:

- Historic Fill

The Phase I ESA did not recommend any additional environmental investigations.

A review of boring logs from the ORT Preliminary Planning and Final Design geotechnical explorations indicated that potential historic fill material was observed to a depth of approximately 10 feet below ground surface.

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material to be disposed of as Clean Fill or Regulated Fill shall be characterized in accordance with the PADEP's "Management of Fill" policy for Historic Fill parameters. Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.4 Site ORT-A58

A Phase I ESA was conducted in May 2022. The following REC was identified in the Phase I ESA:

- Historic Site Use (machine shop, lumber yard, and motor freight station)

The following environmental concern was identified in the Phase I ESA, but is not listed as a REC:

- Historic Fill

The following environmental concern was not identified in the Phase I ESA, but was identified during the review supporting documentation for the Phase I ESA.

- Historic Site Use adjacent to the Site. (Rail line formerly located to the south of the property)

The Phase I ESA did not recommend any additional environmental investigations.

A review of boring logs from the ORT Preliminary Planning and Final Design geotechnical explorations indicated that potential historic fill material was observed to a depth of approximately 3 feet below ground surface.

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material to be disposed of as Clean Fill or Regulated Fill shall be characterized in accordance with the PADEP's "Management of Fill" policy for Historic Fill parameters. Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.5 Site ORT-AS1

Former Non-Buncher Parcels (including parcels 9-B-15, 9-B-16, 9-B-19, 9-B-24-A, 9-B-28, 9-B-29, 9-B-30, 24-P-187, 24-P-190, 24-P-192, 24-P-193)

A Phase II Site Investigation was conducted in November 2014. The findings of the Phase II Site Investigation are as follows:

- Various polycyclic aromatic hydrocarbons (PAHs) and metals were detected in soils in concentrations that exceeded the Residential and Non-Residential Direct Contact MSCs. The sample analytical results are indicative of the presence of historic fill. All soil exceedances were limited to samples collected from the 0 to 2-foot soil horizon. Samples collected from the 10 to 12-foot soil horizon revealed no exceedances of the soil MSCs.
- Groundwater analytical results revealed no exceedances of the groundwater MSCs.
- Therefore, it can be assumed the historic fill impacts are present site-wide but are limited to the 0 to 10-foot soil horizon.

A Phase I ESA was conducted in February July 2022. No RECs were identified in the Phase I ESA.

The following environmental concern was identified in the Phase I ESA, but is not listed as a REC.

- Historic Fill

The following environmental concern was not identified in the Phase I ESA, but was identified during the review supporting documentation for the Phase I ESA.

- Historic Site Use adjacent to the Site. (Rail line formerly located to the north of the property)

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material within the vertically delineated extents of historic fill shall not be disposed of as Clean or Regulated fill under the PADEP's "Management of Fill" policy.

Further characterization shall be conducted for the material outside of the vertically delineated extents of historic fill material for Historic Fill parameters in accordance with the PADEP's "Management of Fill" policy.

Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.6 Site ORT-AS1

Former Buncher Parcels (including parcels 24-P-169, 24-P-170, 24-P-171, 24-P-174, 24-P-175, 24-P-176, 24-P-178, 24-P-179, 24-P-180, 24-P-183, 24-P-184, 24-P-185, 24-P-186, 24-P-202, 24-P-205, 24-P-206, 24-P-208, 9-B-17, 9-B-20, 9-B-21, 9-B-22, 9-B-23, 9-B-23-A, 9-B-24, 9-B-25, 9-B-26, 9-B-26-A, 9-B-27, 9-B-31, 9-B-33, 9-B-34, 9-B-35, 9-B-36, 9-B-36-1, 9-B-37, 9-B-38, 9-B-39, 9-B-39-A, 9-B-39-B, 9-B-40, 9-B-41, 9-B-42, 9-B-43, 9-B-44, 9-B-45, 9-B-49, 9-B-50)

A Phase II Site Investigation was conducted in November 2014. The findings of the Phase II Site Investigation are as follows:

- Various PAHs and metals were detected in soils in concentrations that exceeded Residential and Non-Residential Direct Contact MSCs. The sample analytical results are indicative of the presence of historic fill. All soil exceedances were limited to samples collected from the 0 to 2-foot soil horizon. Samples collected from the 10 to 12-foot soil horizon revealed no exceedances of the soil MSCs.
- Groundwater analytical results revealed no exceedances of the groundwater MSCs.
- Therefore, it can be assumed the historic fill impacts are present site-wide but are limited to the 0 to 10-foot soil horizon. Data gaps exist in the eastern portion of the site near the property boundary, as well as the entire western portion of the site.

A Phase I ESA was conducted in July 2022. The following REC was identified in the Phase I ESA:

- Historic Site Use (parking garage with underground storage tank (UST), potential historic auto station, potential historic cleaners)

The following Environmental Concern was identified in the Phase I ESA, but is not listed as a REC.

- Historic Fill

The following environmental concern was not identified in the Phase I ESA, but was identified during the review supporting documentation for the Phase I ESA:

- Historic Site Use adjacent to the site. (Rail line formerly located to the north of the property)
- A review of the Sanborn maps identified additional historic site uses that may be considered RECs (i.e., a metal brazing shop, a pumping supply manufacturer, a wagon shop, a paint manufacturing facility).

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material within the vertically delineated extents of historic fill shall not be disposed of as Clean or Regulated fill under the PADEP's "Management of Fill" policy.

Further characterization shall be conducted for the material outside of the vertically delineated extents of historic fill material for Historic Fill parameters in accordance with the PADEP's "Management of Fill" policy.

Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.7 Site SMRT-O14- (former) Huber Parcels

A Phase I ESA was conducted in August 2022. The following REC was identified in the Phase I ESA:

- Historic Site Use (auto repair shops with UST, the underground storage tank was presumably removed prior to 1949)

The following environmental concern was identified in the Phase I ESA but is not listed as a REC.

- Historic Fill

The Phase I ESA did not recommend any additional environmental investigations.

A review of boring logs from the ORT Preliminary Planning and Final Design geotechnical explorations indicated that potential historic fill material was observed to a depth of approximately 30 feet below ground surface.

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material to be disposed of as Clean Fill or Regulated Fill shall be characterized in accordance with the PADEP's "Management of Fill" policy for Historic Fill parameters. Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.8 Site SMRT-O14- Guttman Parcels

A Phase I ESA was conducted in February 2024. The following RECs were identified in the Phase I ESA:

- Gasoline USTs were identified in the 1949 Sanborn at the adjacent Guttman Parcel. No other information is available regarding these USTs.
- A gasoline station has been located at the adjacent upgradient parcel since the 1930s. A release was reported in 1996. The cleanup was listed as complete in 1996 and was administratively closed in 2010. Offsite impacts may be migrating onsite.

The following environmental concern was identified in the Phase I ESA, but is not listed as a REC.

- Historic Fill

The following environmental concern was not identified in the Phase I ESA, but was identified during the review supporting documentation for the Phase I ESA.

- Historic Site Use at the neighboring Buncher Parcels (Railroad tracks, and a building associated with a steel mill were formerly located on-Site from approximately 1906 through 1924). Offsite impacts may be migrating onsite.

Additional investigation was recommended in the Phase I ESA. No additional investigation has occurred as of December 2024.

A review of boring logs from the ORT Preliminary Planning and Final Design geotechnical explorations indicated that potential historic fill material was observed to a depth of approximately 30 feet below ground surface.

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material to be disposed of as Clean Fill or Regulated Fill shall be characterized in accordance with the PADEP's "Management of Fill" policy for Historic Fill parameters, as well as for gasoline parameters. Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.9 Site SMRT-O14- (former) Buncher Parcels

A Phase I ESA was conducted in February 2024. The following RECs were identified in the Phase I ESA:

- Historic Site Use (Railroad tracks, and a building associated with a steel mill were formerly located on-site from approximately 1906 through 1924)
- Gasoline USTs were identified in the 1949 Sanborn at the adjacent Guttman Parcel. No other information is available regarding these USTs. Potential offsite impacts may be migrating on-site from the Guttman Parcels.
- A gasoline station has been located at the adjacent upgradient parcel since the 1930s. A release was reported in 1996. The cleanup was listed as complete in 1996 and was administratively closed in 2010. Offsite impacts may be migrating onsite.

The following environmental concern was identified in the Phase I ESA, but is not listed as a recognized environmental concern.

- Historic Fill

Additional investigation was recommended in the Phase I ESA. No additional investigation has occurred as of December 2024.

A review of boring logs from the ORT Preliminary Planning and Final Design geotechnical explorations indicated that potential historic fill material was observed to a depth of approximately 30 feet below ground surface.

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material to be disposed of as Clean Fill or Regulated Fill shall be characterized in accordance with the PADEP's "Management of Fill" policy for Historic Fill parameters, as well as for gasoline parameters. Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.10 Site SMRT-O14- (former) Battaglia Parcels

A Phase I ESA was conducted in August 2020. The following REC was identified in the Phase I ESA:

- Historic Site Use (railroad tracks with railroad structures, an electrical repair shop, a gasoline station, auto repair shops, a machine shop, and an auto recycling facility)

The following Environmental Concern was not identified in the Phase I ESA, but was identified during the review supporting documentation for the Phase I ESA

- Historic Fill

A Phase II Site Investigation was conducted in September 2020. The findings of the Phase II Site Investigation are as follows:

- Petroleum contamination and contaminated historic fill were identified in soil. Benzene was detected in exceedance of the Non-Residential Soil-to-Groundwater MSC in the location of petroleum staining. PAHs, and lead were detected in exceedance of the Residential and Non-Residential Direct Contact MSC in multiple locations. Arsenic was detected in exceedance of the Residential Direct Contact MSC in one location. Soil contamination was not delineated.
- Historic Fill impacts were identified in groundwater. Various PAH compounds were detected in exceedance of the groundwater MSCs. A review of the groundwater analytical results revealed elevated detection limits for PCBs and volatile organic compounds, indicating that not detected compounds may be present in concentrations above the applicable standards. A review of the environmental due diligence (Phase II ESA) groundwater analytical results revealed no exceedances of the ALCOSAN's Industrial/Commercial Pretreatment Regulation Specific Pollutant Limitations.

Limited remedial actions were conducted in October 2022 through November 2022, and are documented in a Letter Report of Work Performed dated November 2022. The following activities were conducted at this time:

- In October 2022, approximately 12 tons of petroleum impacted soil was excavated and disposed of offsite. No post excavation samples were collected, and no documentation was provided depicting the extents of the excavation. Follow up correspondence with the contractor who conducted the work (Civil and Environmental Consultants, Inc) revealed that only surficial soils were removed, and that contamination may remain in this location.
- In October-November 2022, twenty 55-gallon drums, two 275-gallon totes, and thirty-three tires were removed from the Site. The drums and totes reportedly contained waste oil.

A review of boring logs from the ORT Preliminary Planning and Final Design geotechnical explorations indicated that potential historic fill material was observed to a depth of approximately 30 feet below ground surface.

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material within the vertically delineated extents of historic fill

shall not be disposed of as Clean or Regulated fill under the PADEP's "Management of Fill" policy.

Further characterization shall be conducted for the material outside of the vertically delineated extents of historic fill material for Historic Fill parameters in accordance with the PADEP's "Management of Fill" policy.

Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.11 Site CCT-007- (former) Crivelli Parcels

A Phase I ESA was conducted in February 2020. The following RECs were identified in the Phase I ESA:

- Maintenance garage sumps
- Aboveground storage tanks
- Lead paint and asbestos containing material
- Fluorescent bulbs
- Offsite contamination migrating onsite. Three nearby facilities (Automotive Diagnostics at 400 Locust, the former Pittsburgh & Lake Erie Railroad Facility and the McKees Rocks Facility at 208 Island Avenue) have reportedly had soil and groundwater contamination.

The following Environmental Concerns were not identified in the Phase I ESA, but were identified during the review of supporting documentation for the Phase I ESA:

- the paint booth
- the car wash (potential PFAS contamination)
- potential historic fill
- A gas station was identified on the 1951 Sanborn on the southwestern portion of parcel 43-L-130

A Phase II Site Investigation was conducted in May 2020. The findings of the Phase II Site Investigation are as follows:

- Four (4) soil borings were installed to the east of the RECs identified in the Phase I ESA. The soil boring locations are not close enough to the identified RECs to evaluate the RECs. Sample analytical results are indicative of the presence of historic fill. No exceedances of the PADEP's MSCs were detected. Groundwater was not encountered at the maximum explored depth of 15 feet below ground surface.

A Ground Penetrating Radar Survey was conducted in November 2022 for the parking lot located in the southern portion of the site. Two anomalies which may represent buried objects were identified.

A review of boring logs from the ORT Preliminary Planning and Final Design geotechnical explorations indicated that potential historic fill material was observed to a depth of approximately 11 feet below ground surface.

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material to be disposed of as Clean Fill or Regulated Fill shall be characterized in accordance with the PADEP's "Management of Fill" policy for Historic Fill parameters, as well as for gasoline parameters. Material to be disposed of as residual waste shall be characterized in accordance with the PADEP's Form U.

2.1.12 Site CCT-O06A

A Phase I ESA was conducted in February July 2023. No RECs were identified in the Phase I ESA.

The following environmental concerns were not identified in the Phase I ESA, but were identified during the review of supporting documentation for the Phase I ESA:

- Potential offsite contamination migrating onsite (“Ron’s Waste Oil Service” is mapped 150 feet from the site).
- Potential Heating Oil USTs from residential and commercial properties within the site.

No topographic maps were available from prior to development of area. Therefore, presence or absence of historic fill cannot be evaluated via historic information.

Additional investigation will be required based on the proposed disposal methods for material generated during construction. Material to be disposed of as Clean Fill or Regulated Fill shall be characterized in accordance with the PADEP’s “Management of Fill” policy for Historic Fill parameters, as well as for gasoline parameters. Material to be disposed of as residual waste shall be characterized in accordance with the PADEP’s Form U.

2.2 Rock Due Diligence Testing

Rock due diligence testing was performed on discrete and composite rock samples from Project rock core in 2023 and 2024 and consists of Acid Base Accounting (ABA) testing suite, Total Metals, and TCLP analysis.

2.2.1 Acid Base Accounting

The ORT desktop study and geotechnical exploration identified the presence of pyrite, coal, and carbonaceous material within the Project’s rock excavation profile, which pose the potential to be acid-producing.

Acid Base Accounting (ABA) analysis was conducted on 269 bedrock samples. Analytical results revealed the following:

- 14% of all samples were “Likely to produce acidity” (APR)
- 57% of all samples “May produce acidity or alkalinity” (Potentially APR)
- 29% of all samples were “Likely to produce alkalinity” or “Very likely to produce alkalinity” (not APR)

2.2.2 Total Metals and TCLP Analytical Results

In addition to ABA testing, total metals and TCLP tests were performed on the 269 bedrock samples.

- A review of the analytical data indicates majority (84%) of the tested material had no exceedances of Clean Fill Concentration Limits (CFCLs) or Regulated Fill Concentration Limits (RFCLs) for total metals.
- It is not anticipated that anthropomorphic contamination will be encountered in the rock.
- Analytical results indicate that naturally occurring arsenic, manganese, and iron may be present in select locations. All detected exceedances of the CFCL or RFCL were determined to be naturally occurring background levels in unweathered/fresh rock.

- No exceedance of the RCRA Maximum Concentration of Contaminants for the Toxicity Characteristic Thresholds were detected in any of the rock samples. It is anticipated that RCRA Hazardous Waste will not be generated during tunnel and shaft excavations.

2.2.3 Due Diligence Testing Evaluation

The results from the Rock Due Diligence Testing (APR, Total Metals, TCLP) are included in the ORT Geotechnical Data Report. These results were used to estimate the volume of rock excavated from the ORT tunnels, adits, starter/tail tunnels, and the shaft excavations that is anticipated to be APR/Potentially APR. Areas of rock where testing identified metals exceedances were also identified.

The Contract Documents will identify areas that are anticipated to be APR/Potentially APR or potentially non-Clean Fill based on the due diligence testing correlated with the Project's rock units. For shafts, these are identified as vertical zones of excavated rock along the excavated through the shaft cross section. For the tunnels, these are identified as horizontal areas of excavated rock along the stratigraphic profiles within the tunnel zone.

3 Soil and rock management procedures

ALCOSAN (the Owner) will be constructing wastewater conveyance infrastructure as part of the ORT Project. Excavated materials from the site will generally be characterized and managed in accordance with appropriate management procedures as specified herein.

Please note, this MMP was developed for the NPDES Individual Permit for Discharges of Stormwater Associated with Construction Activities application. The ORT contractor will be required to generate site-specific MMPs for each specific Shaft Site, as well for the rock excavated from the tunnels. The site-specific MMPs shall meet or exceed the requirements outlined in this indicative MMP. An outline of the minimum required components of the contractor's site-specific MMPs is included as Appendix A. Each site-specific MMP is subject to ALCOSAN's approval.

3.1 Excavation considerations

In accordance with the PADEP's *Erosion and Sediment Pollution Control Program Manual*, erosion control management best management practices are to be enacted during earth moving activities, including the excavation of soil and rock. It is the responsibility of the contractor to identify and enact the appropriate erosion control procedures for each site. The proposed erosion control procedures shall be outlined in the contractor generated site-specific MMPs, which are subject to ALCOSAN's approval. Additionally, the contractor shall develop a contingency plan for if unexpected material is encountered at a project site.

3.2 Reuse of excavated material

If excavated material is to be reused as backfill material, the contractor will coordinate the reuse of excavated material with the Owner. The reuse of excavated material on site is not anticipated. If the reuse of excavated material is proposed, procedures regarding the reuse of excavated material shall be outlined in the contractor's site-specific MMP. Please note, if waste characterization sampling reveals exceedances of the Regulated Fill Concentration Limits, as defined by the PADEP's "Management of Fill" policy, then the reuse of the subject material is prohibited.

3.3 Stockpiling/staging requirements and procedures

All proposed stockpile locations (temporary or longer-term) for excavated material will be coordinated with the Owner in advance of stockpiling activities. Each site-specific MMP shall include site plans depicting stockpile locations and the appropriate erosion and sediment controls for these locations.

Material will be stockpiled in conformance with applicable Federal, State, and local regulations and in accordance with the following minimum handling criteria:

- Excavation, material handling, and stockpiling will be performed in a manner that minimizes the mixing of materials containing different types of excavated material to the highest degree possible.
- In accordance with Contract Documents, visual inspection of excavated material will be performed by the contractor's qualified geological engineer/geoscientist for unanticipated

visual indicators of APR/Potentially APR, such as pyrite, pyritic nodules, carbonaceous material (e.g., striations), and potential sulfide materials.

- No re-handling of material in designated temporary stockpile storage areas will be carried out without the presence of the Owner.
- The transfer of all materials from excavation(s) to the on-site designated staging (stockpile) area will be conducted in such a manner as to not allow the spread of contaminated or potentially contaminated materials. Transfer of excavated, potentially contaminated, APR/Potentially APR material will be performed in accordance with all applicable waste transportation and management requirements. At a minimum, all material transported by truck will be covered to minimize fugitive dust. Please note, the on-site staging areas are to be utilized for material being staged for offsite disposal. Double handling of the staged material is to be avoided.
- All material entering or leaving the staging area will be under the direct supervision of the contractor. Stockpiles will be inspected by the contractor a minimum of once each week and after every storm event. Inspection results will be recorded in the Daily Log and maintained at the site and available for inspection by the Owner.
- Stockpiled materials will be placed within the designated temporary stockpile storage areas. Excavated contaminated material will be stockpiled onto an impervious surface lined with polyethylene sheeting (with a minimum thickness of 20 mils). The stockpile will be securely covered with polyethylene sheeting at the end of each work day and maintained throughout the stockpile period to prevent wind dispersion and contact with precipitation. Dust suppression may be required during the material stockpiling, at the discretion of the contractor.
- Stockpile areas will be graded to shed water such that stormwater runoff is diverted from stockpiled materials and sediment filter sock will be placed around the perimeter of the area. In addition to other controls such as inlet protection, sediment filter sock will be used as needed near existing and proposed catch basins. Stockpile slopes will be no steeper than 2 horizontal to 1 vertical (2:1). Stockpiles are not to be placed within 50 feet of the surface waters.
- Excavated material movement on site will be recorded on a Daily Material Tracking Log to record all incoming and outgoing material for the duration of construction activities. The log will include up-to-date records that identify the origin of each waste in the staging area; indicate the date the materials were stockpiled; list the specific stockpile location; indicate the date the materials were transported from the stockpile area to the final destination; and the location of the final destination.
- If required, soils designated for testing will be stockpiled in accordance with this MPP and the contractor's site-specific MMPs for subsequent testing. The types and frequencies of tests to be conducted will be based on knowledge of the material, previous pre-characterization and waste characterization data, conditions encountered during excavation, and the permit requirements of the receiving recycling or disposal facility.
- Following on-going coordination with PADEP, APR and Potentially APR material designated for additional testing will be managed in accordance with this MMP and the contractor's site-specific MMPs. The types and frequencies of tests to be conducted will be based on knowledge of the rock, previous pre-characterization and waste characterization due diligence, conditions encountered during excavation, and the permit requirements of the receiving recycling or disposal facility. Handling and disposal of APR and Potentially APR is being coordinated with the PADEP's Bureau of Mining and/or Bureau of Waste Management. For this MMP, however, the contractor will be required to manage the rock for the zones of APR/Potentially APR identified vertically along the shaft profile and horizontally

along the tunnel alignment (based on the due diligence testing correlated to the different rock units) in accordance with appropriate Federal, State, and local requirements.

3.4 Waste characterization

The disposal facility will dictate the waste characterization analytical parameters and sampling frequency. The contractor is responsible for obtaining laboratory analyses on representative samples of the construction debris and excavated material in strict accordance with Federal, State, and local requirements.

Clean Fill and Regulated Fill are subject to the waste classification requirements prescribed in the PADEP's "Management of Fill" policy. Sampling procedures for Clean Fill and Regulated Fill shall be outlined in the contractor's site-specific MMPs.

Residual waste is subject to the testing requirements outlined in the PADEP's Form U.

The contractor shall handle and dispose of APR/Potentially APR in accordance with Appendix B of the PADEP's "Management of Fill" policy (dated January 16, 2021). Material in identified zones (vertically/horizontally) would be appropriately disposed of as defined in the Contract Documents, based on the ORT due diligence testing evaluation.

ALCOSAN is currently working with the PADEP's Bureau of Mining and Bureau of Waste Management to define the material handling protocols, if required. APR characterization procedures shall be outlined in the contractor's site-specific MMPs.

3.5 Off-site disposal and transportation

Prior to disposal activities, the contractor will confirm that all operations associated with disposal/recycling of materials are in compliance with applicable Federal and Pennsylvania Department of Transportation regulations, as well as all local applicable requirements.

It is the contractor's responsibility to determine the disposal methods for the materials generated during construction. The proposed disposal methods shall be outlined in the contractor's site-specific Material Management Plans.

ALCOSAN is working with the PADEP to better define disposal locations given the volume of material associated with the ORT Project. The contractor will specify the proposed transportation/storage/disposal (TSD) facilities. Commitment letter(s) will be obtained from the TSD facilities indicating the capacity to accept the volume of waste material and stating that it will be open for business during the contract duration to accept the volume of waste materials. The contractor will ensure that the hauler of record and TSD facility possess the proper licenses, credentials, and experience to transport and dispose of the subject material.

The contractor will provide the Owner with a list of permitted alternative TSD facilities to be utilized in the event the approved facility ceases to accept waste materials generated under this contract.

The contractor will maintain Daily Material Tracking Log that will record the source location, type, quantity, and characteristics of all excavated, stockpiled, and transported material.

The contractor shall comply with all applicable regulations, including, but not limited to:

- Title 49 Code of Federal Regulations United States Department of Transportation: (a) 49 CFR 171-180 and amendments related to transportation of hazardous materials

- The Pennsylvania Solid and Hazardous Waste Regulations that govern waste handler responsibilities
- Vehicle placard requirements
- Container requirements
- Manifest requirements
- Responsibilities and requirements for collectors and haulers of hazardous and non-hazardous solid waste
- Posted weight limitations on roads and bridges
- Other local restrictions on storage and transportation of waste/debris

Excess non-hazardous material not designated for reuse as backfill material will be disposed of offsite within 60 days of excavation. A non-hazardous bill-of-lading (BOL) will be used to document the transportation and final disposition of contaminated material during construction. The Owner will be identified as the generator associated with the BOL and will sign each BOL. The material designated for off-site disposal will be trucked off site to the selected licensed TSD facility.

Any materials classified as hazardous waste will be removed within 90 days of excavation. If regulated material is determined to be hazardous waste in accordance with applicable Federal, State, and local requirements, hazardous waste manifests must be generated and comply with the Code of Federal Regulations Title 40 Subpart B Parts 262.20 to 262.23 and the applicable Pennsylvania Solid and Hazardous Waste Regulations. The Owner will be identified as the associated generator and will sign each hazardous waste manifest.

Hazardous materials containers will be labeled when first placed in service, and each container will remain closed at all times except when compatible waste types are added. When moved within the site, each container will remain within the geographic boundaries of the site. Containers of waste will be immediately sealed as each container is filled. The contractor shall continuously maintain custody of all non-hazardous and hazardous material generated at the work site including security, short term storage, transportation and disposition until custody is transferred to the off-site TSD facility.

Should the disposal facility reject material transported from the site and said material is returned to the project site, the material shall be separately stockpiled in an area that does not "cross contaminate" other materials, compromise construction activities, or violate existing permits and approvals. The contractor will assess disposal options for stockpiled material and include contingency approach to deal with material rejected from disposal facility.

3.6 Waste disposal documentation

The contractor will maintain copies of all documentation and submit copies of each of the following to the Owner:

- Waste characterization sampling forms, sampling logs, sample location maps, and laboratory analysis reports
- Documentation of the disposal facility's acceptance of the regulated material prior to transporting any material off-site
- Transportation manifests/bills of lading
- Waste disposal/recycling documentation (e.g., weight tickets) in hard copy and electronic (spreadsheet) formats from the receiving facility

Copies of each manifest shall be submitted to the Owner within seven business days following shipment from the site after delivery to the disposal facility.

3.7 Decontamination procedures

The contractor will designate an area for implementing decontamination procedures (e.g., steam cleaning, manual scrubbing, etc.) for all equipment contacting contaminated material and vehicles leaving the site. The contractor will remove material from the truck tires as needed to ensure that contamination is not tracked off site. In addition, roadways will be swept to remove dirt and debris. Disposal of recovered wastes resulting from decontamination shall be properly characterized, transported, and disposed of offsite in accordance with applicable Federal, State, and local requirements.

4 Dewatering procedures

This section addresses construction water management only, and does not address water runoff management.

A review of the environmental due diligence (Phase II ESA) groundwater analytical results revealed no exceedances of the ALCOSAN's Industrial/Commercial Pretreatment Regulation Specific Pollutant Limitations. Therefore, it is anticipated that groundwater collected during construction dewatering activities will be discharged into 1) the interceptor drop shaft chamber of ALCOSAN's existing diversion chambers where chambers are located in the vicinity of construction sites, or 2) into local combined sewers. Construction water discharges will ultimately be treated at ALCOSAN's WWTP.

The contractor is responsible for obtaining ALCOSAN Industrial/Commercial Pretreatment permits to discharge construction water into ALCOSAN's sewer system, and to obtain applicable permits to discharge to local combined sewers. Permits will require periodic sampling and testing of discharges. The contractor is notified in the Contract Documents that if the contractor would like to discharge treated or non-treated construction water, groundwater, and site wastewater at a new or existing outfall, then the contractor must apply to the PADEP for an Industrial NPDES discharge permit.

Site-specific dewatering procedures shall be included in the contractor's site-specific MMPs. The site-specific MMPs are subject to ALCOSAN's approval.

5 Health and safety procedures

Any person working in an area where the potential for exposure to contaminants exists will only be allowed access after providing proof of proper training and medical documentation. The contractor shall implement a written Health and Safety Plan (HASP) including a Respiratory Protection Plan, and a description of trench safety, personal protection equipment, and any other plans as required by the Occupational Safety and Health Administration.

6 Emergency response procedures

6.1 Notifications

ALCOSAN shall be immediately notified if an Immediate Environmental Concern (IEC) condition is discovered during the construction project.

6.2 Emergency response

If an incident occurs off site (e.g., spill of material in route to disposal facility), local or State police and other first responders will be contacted first, followed by an immediate call to ALCOSAN. The contractor will coordinate with ALCOSAN to determine the need to dispatch an emergency response contractor to the scene.

6.3 Containment and cleanup

Any contaminated material spilled onto paved surfaces will be contained and recovered as quickly as possible to avoid a discharge to any permeable ground surface or any adjacent surface waters. Spilled material will be isolated such that vehicular traffic will not spread the material, and then the recovery will be conducted by use of bucket loaders and broom cleaning any pavement. Recovery will be coordinated by first responders and/or ALCOSAN's emergency response contractor for an off-site spill. If the spill occurs within the site, the contractor will follow similar procedures for recovery, as directed by ALCOSAN. If the spilled material onto paved surfaces includes fluids (such as fuels, lubricants, or hydraulic fluids), a combination of sorbent materials (granular, pads, or pillows) will be used to contain and partially recover the fluids. The used sorbent materials should be drummed for subsequent off-site disposal.

If fluids are discharged over permeable ground surface, a quick response on containment will help prevent the lateral spread of the fluid, but the fluids that penetrate the ground surface will be completely excavated such that there are no visibly impacted material within the excavation. Post-excavation material sampling may be necessary to confirm the effectiveness of the recovery of the impacted material. The contractor will be responsible for the excavation and management of the impacted material. All impacted material will need to be segregated into a separate stockpile.

6.4 Disposal

Disposal of recovered wastes from spill cleanup shall be properly characterized, transported, and disposed of in accordance with applicable Federal, State, and local requirements.

7 Permits and approval requirements

The contractor shall comply with all Federal, State, and local codes, standards, ordinances, and permits.

All necessary approvals for the disposal of material shall be obtained prior to transporting material off-site for disposal.

Clean Fill and Regulated Fill shall be characterized and managed in accordance with the PADEP's "Management of Fill" policy (dated January 16, 2021). The contractor shall obtain ALCOSAN's approval prior to disposing of material as clean fill or regulated fill.

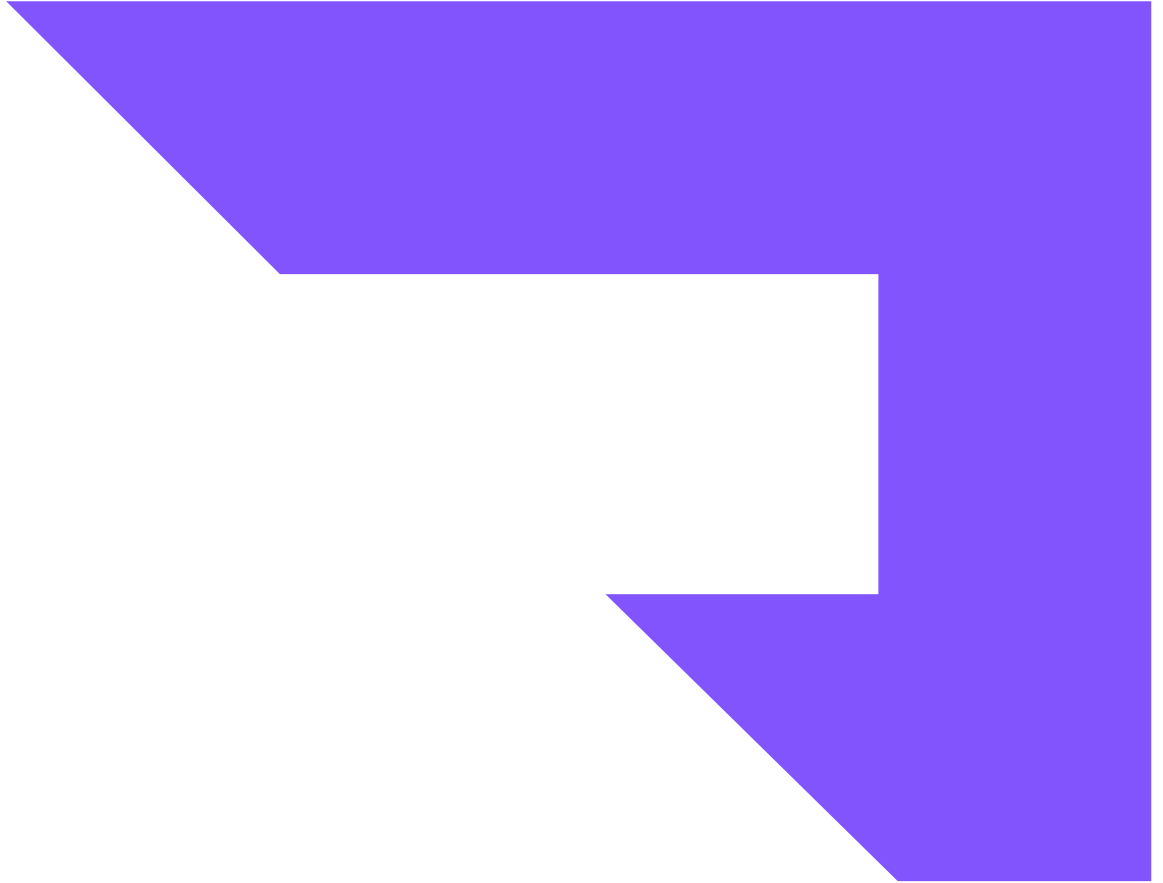
The PADEP's Form U requires one waste classification sample per 250 cubic yards of material for residual waste, with a provision that the sampling frequency may be reduced with the PADEP's approval.

If required, the handling and disposal of APR/Potentially APR shall be coordinated with the PADEP's Bureau of Mining and/or Bureau of Waste Management to ensure that all applicable permits are acquired.

If it is necessary to transport material offsite for temporary storage prior to final disposal, the contractor shall obtain all applicable permits and approvals for the offsite storage locations.

Appendix A – Site-Specific Plan Outline

- 1 Introduction**
- 2 Site Background**
- 3 Soil Management Procedures**
 - 3.1 Excavation Considerations**
 - 3.2 Reuse of Contaminated Material**
 - 3.3 Stockpiling/Staging Requirements and Procedures**
 - 3.3.1 Soil**
 - 3.3.2 Rock**
 - 3.4 Waste Characterization**
 - 3.4.1 Soil**
 - 3.4.2 Rock**
 - 3.5 Off-Site Disposal and Transportation**
 - 3.5.1 Soil**
 - 3.5.2 Rock**
 - 3.6 Waste Disposal Documentation**
 - 3.7 Backfilling**
 - 3.8 Decontamination Procedures**
- 4 Dewatering Procedures**
- 5 Health and Safety Procedures**
- 6 Emergency Response Procedures**
 - 6.1 Notifications**
 - 6.2 Emergency Response**
 - 6.3 Containment and Cleanup**
- 7 Permits and Approval Requirements**

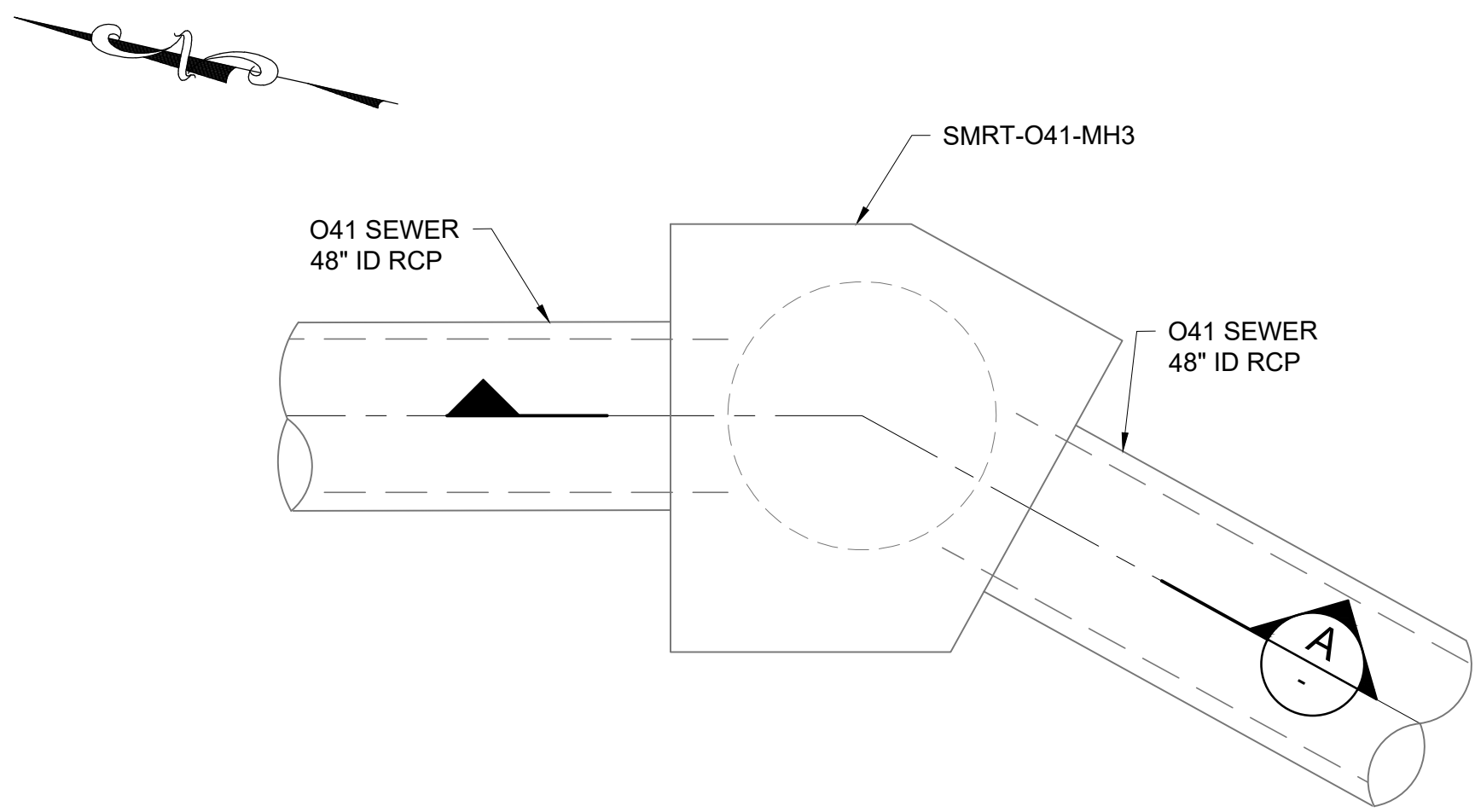


Addendum No. 2

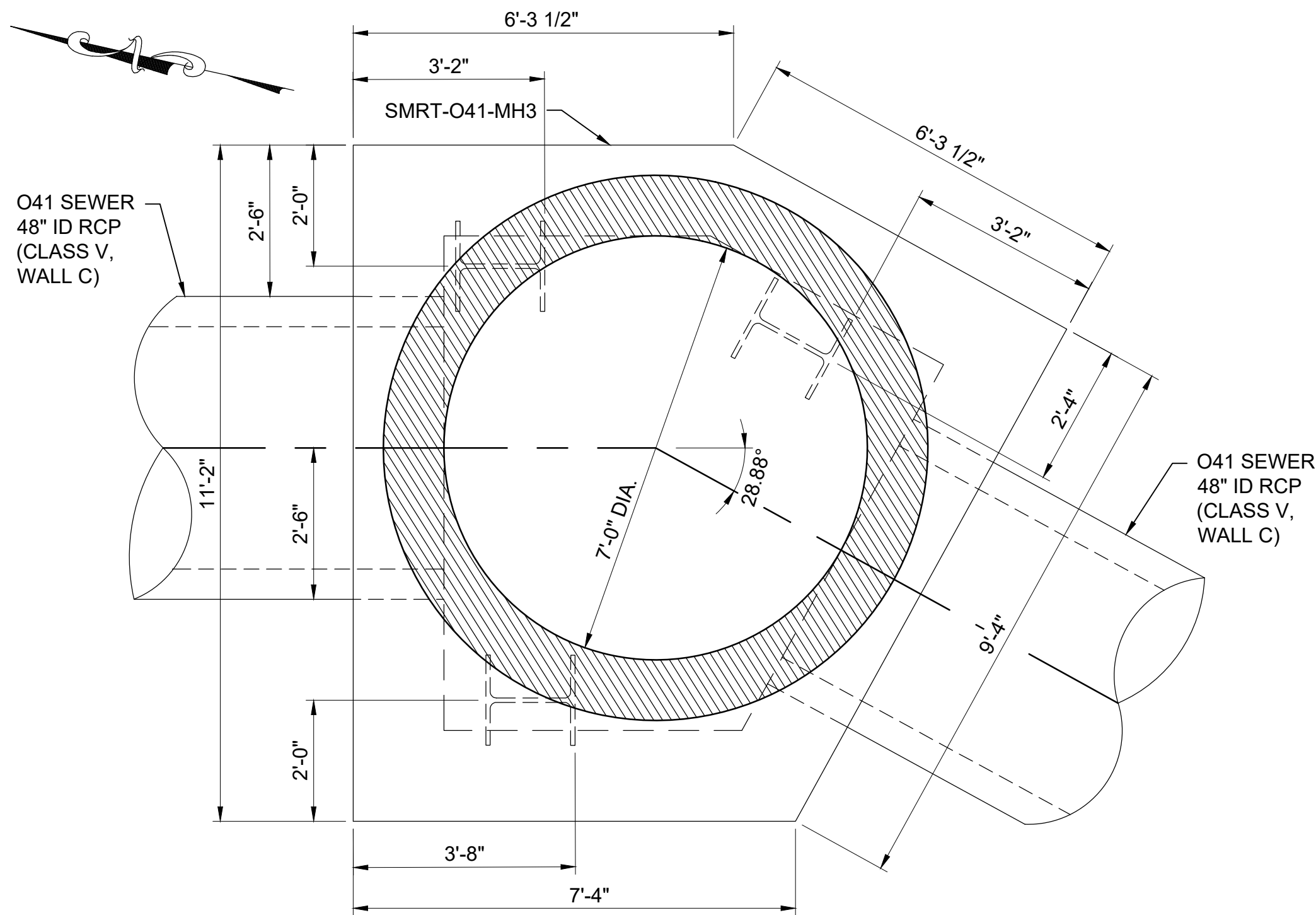
Attachment E

**APPENDIX B – CONTRACT DRAWINGS,
Revised O41-ST-225 (Sheet 340 of 770)**

FILE NAME: C:\Users\JPLE92468\Documents\Mott MacDonal\07106621 - ALCOSAN Ohio River Tunnel Design - T&M\Project Files\4 - O41\05-Structural\Sheets - O41-ST-225 PLOT DATE: 8/19/2025 1:51:22 PM LAST SAVED BY: PLE92468



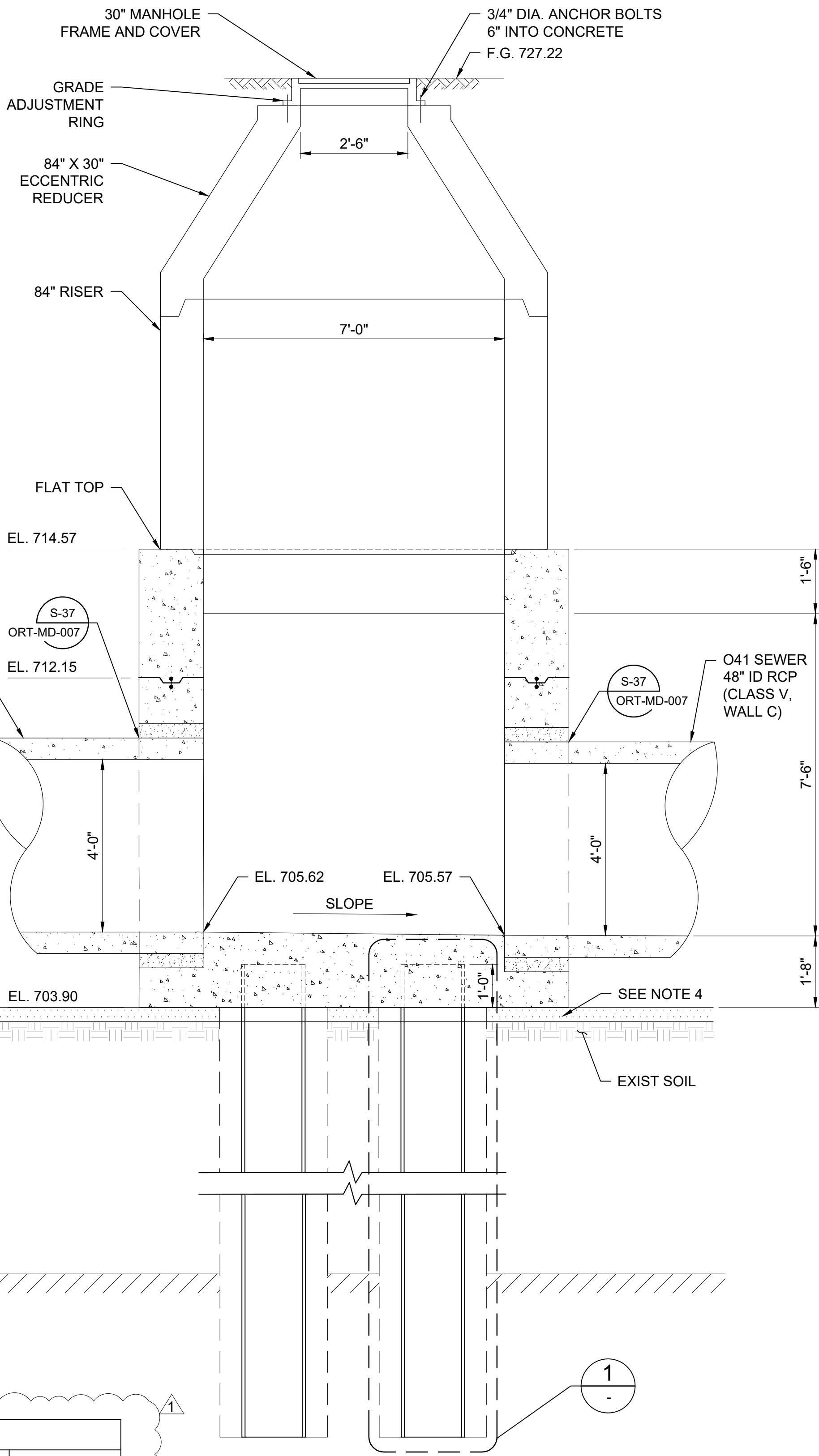
PLAN @ EL. 707± (SEWER S/L)
SCALE: N.T.S.



PLAN @ EL. 715
SCALE: 1/2" = 1'-0"

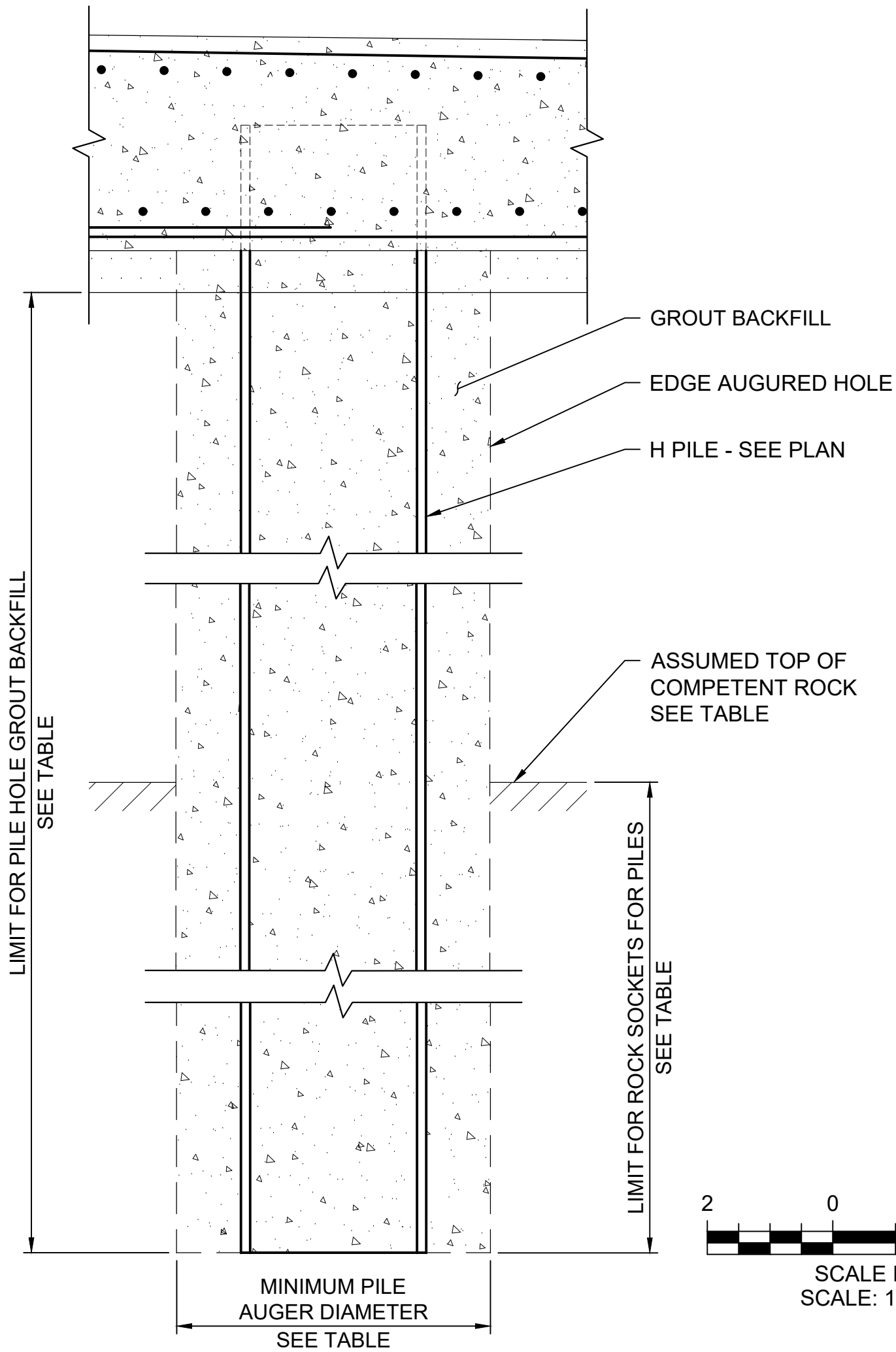
PILE SCHEDULE (SEE NOTES 6 & 7)

CALLOUT	PILE TOP EL. (FEET)	ESTIMATED PILE TIP EL. (FEET)	ESTIMATED PILE LENGTH (FEET)	ASSUMED ROCK EL. (FEET)	MINIMUM ROCK SOCKET DEPTH (FEET)	MINIMUM PILE SECTION MODULUS (CUBIC INCHES)	PILE SECTION	QUANTITY	MINIMUM DIA. OF HOLE (INCHES)
1	705	651	54	661	5	290	HP 18x157	3	30



SECTION

SCALE: 1/2" = 1'-0"



DETAIL

SCALE: 1" = 1'-0"

NOTES

1. THE CONTRACTOR TO COORDINATE ALL WORK WITH THE SEWERS AND MANHOLES SUPPORT OF EXCAVATION DRAWINGS. SEE SHEETS O41-ST-200 TO O41-ST-206.
2. THE CONTRACTOR TO COORDINATE ALL WORK WITH THE CIVIL SITE DRAWINGS. SEE SHEETS O41-CI-200 TO O41-CI-215.
3. SOE NOT SHOWN FOR CLARITY - SEE SOE DRAWINGS.
4. PROVIDE 4" MUD SLAB AT BASE OF EXCAVATION.
5. FOR TYPICAL REINFORCEMENT, SEE SHEET O41-ST-224.
6. VERTICAL DESIGN LOAD PER PILE = 118 KIPS
7. HORIZONTAL DESIGN LOAD PER PILE = 10 KIPS

Designed by:	REV No.	DATE	REVISION DESCRIPTION	APPV
ZC	1	8/21/25	PILE SCHEDULE / NOTES UPDATE	SBP
Drawn by:				
MJN				
Checked by:				
DLM				

M
MOTT MACDONALD

Two Allegheny Center
Nova Tower 2, Suite 1301
Pittsburgh, PA 15212
(412) 497 - 2900

811

Dial 8-1-1 or 1-800-242-1776 not less than 3 business days nor more than 10 business days prior to the start of excavation.

Pennsylvania One Call System Serial Number
FINAL DESIGN TICKET # 20250040206

REGISTERED PROFESSIONAL
STEPHEN B. POLEY
ENGINEER
040366-R

alcosan
alleggheny county sanitary authority

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY (ALCOSAN)
OHIO RIVER TUNNEL (ORT)

O41-ST-225
SMRT-O41-MH3 DETAILS

Contract: 1797

File: O41-ST-225.dwg

Date: 07/30/2025

Sheet: 340 OF 770