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October 5, 2026
File No. 0208988

Remedial Bureau B, Section D
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Floor 12
Albany, New York 12233

Corrective Action Section
Land and Redevelopment Programs Branch
Land, Chemicals & Redevelopment Division
U.S. Environmental Protection Agency Region 2
290 Broadway, 25th Floor
New York, New York 10007-1866

Attention: Rafi Alam, Project Manager, NYSDEC
Anna Bachmann, Brownfields and RCRA Project Manager, USEPA

Subject: Addendum No. 01 to the Alternatives Analysis/Remedial Action Work Plan
Operable Unit 1
Site Name: Former Port Mobil Terminal
NYSDEC Site No.: 243016
USEPA ID Number: NYD000824516
NYSDEC Consent Order ID No.: 12-111-A-SBC
USEPA Consent Order ID No.: RCRA-02-2009-7306

Dear Mr. Alam and Ms. Bachmann:

On behalf of NP Staten Island Industrial, LLC, H & A of New York Engineering and Geology, LLP (Haley & Aldrich of New York) is pleased to submit this Addendum No. 01 to the Alternatives Analysis/Remedial Action Work Plan (AA/RAWP) – Operable Unit 1 (OU-1) for the Former Port Mobil Terminal located at 4101 Arthur Kill Road in Staten Island, New York. This Addendum is being submitted to document the expanded treatment area associated with aboveground storage tank (AST) areas AST-09 and AST-10. The area will be treated via in-situ solidification, which is an approved technology in the AA/RAWP, as approved on August 19, 2026. In addition, soil containing grossly contaminated material will be placed in this area for ex-situ solidification.

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely yours,
**H & A OF NEW YORK ENGINEERING AND GEOLOGY, LLP**

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Project Manager

Suzanne M. Bell, P.E.
Senior Associate

Scott A. Underhill, P.E.
Principal

James M. Bellew
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Enclosures

c:

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## *Certification*

*I, Scott A. Underhill, certify that I am currently a New York State-registered professional engineer and that this Addendum to the Alternatives Analysis/Remedial Action Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31).*

*I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.*




| | |
|---|---|
| | *October 5, 2026* |
| *New York Professional Engineer #075332* | *Date* |

*It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.*

**REMEDIAL ACTION WORK PLAN ADDENDUM**
**FORMER PORT MOBIL TERMINAL**
**STATEN ISLAND, NEW YORK**

**ADDENDUM NUMBER:** 01
**ADDENDUM TITLE:** Additional AST-09 and AST-10 ISS Treatment Area

**Reason for Revision/Change:**

☒ Unforeseen or Differing Site Conditions
☒ Design Revision
☐ Other (Describe)

**Description of Revision/Change:**

The proposed in situ solidification (ISS) treatment of aboveground storage tank (AST) areas AST-09 and AST-10 was defined in the July 2026 Alternatives Analysis/Remedial Action Work Plan (AA/RAWP). Solidification of these areas was completed in June 2026. During removal of the berm and grading of the area between AST-09 and AST-10, grossly contaminated material (GCM) was visually observed between the southern bounds of the AST-10 ISS treatment area and the northern bounds of the AST-09 ISS treatment area. The bounds of GCM were delineated vertically and horizontally in this area by conducting test pits and shake tests. Test pit locations and shake test results are shown on Figure 1. Based on the results of the field delineation, Haley & Aldrich of New York is proposing to treat this additional area of GCM via ISS. Additionally, Haley & Aldrich of New York is proposing to treat the adjacent areas connecting AST-09, AST-10, AST-11, and AST-12 to create a single ISS monolith, as shown on Figure 2. The depth of the ISS treatment zone will extend into the underlying clay layer. In addition, GCM from other areas of the site will be placed over the proposed ISS areas to an elevation of no more than 4 feet (ft) below the top of the final grade. Once placed, the GCM soils (both in situ and placed) will be mixed together to a total depth of 12 ft below the top of a proposed ex-situ solidification (ESS) area. The additional treatment volume is approximately 9,500 cubic yards for ISS and 8,000 cubic yards for ESS. ESS source materials and quantities are included in Table 1. The ISS treatment will be performed as described in the AA/RAWP, including the collection of quality control samples and coring/test pitting. A minimum of 4 ft of non-GCM soils, including the 1-ft clean cover, will be installed over this treatment area since the treated soils contain GCM.

**Justification for Revision/Change:**

When removing berm material between AST-09 and AST-10, GCM in the form of light non-aqueous phase liquid (LNAPL) was observed below the berm material and outside of the ISS treatment areas in AST-09 and AST-10. On August 13, 14, and 26, 2026, Haley & Aldrich of New York and Entact conducted test pits and performed shake tests to delineate the extent of the GCM. If the shaker test was positive for LNAPL, lateral step-out trenching was conducted until the shake test was negative. The horizontal extents of the GCM area were considered complete when a shake test of an outer sidewall of a test pit was negative for LNAPL. The vertical bounds of the GCM were determined where the shake test collected at depth was negative for LNAPL, which corresponded to a confining clay layer. The depth of the confining clay layer ranged from 20.8 ft above mean sea level (amsl) to 25.5 ft amsl, or approximately 2 ft to 7.7 ft below the current grade at which the GCM was first identified. Figure 1 shows the locations of the trenches, shake test results, and respective elevations, as well as the approximate depth and elevation of the confining clay layer. The field work to define the GCM limits was completed in coordination with the on-site New York State Department of Environmental Conservation (NYSDEC) field representative.

Haley & Aldrich of New York is proposing to also treat adjacent areas connecting AST-09, AST-10, AST-11, and AST-12 to create a single solidified monolith. Connecting the individual monoliths in these AST areas will

**ADDENDUM NUMBER:** 01
**ADDENDUM TITLE:** Additional AST-09 and AST-10 ISS Treatment Area

| **Justification for Revision/Change:** |
| --- |
| provide a continuous treatment area and would eliminate gaps between treatment areas that could act as preferential pathways for groundwater flow. Figure 2 shows the proposed ISS treatment area. Figure 3 shows the proposed ISS/ESS mix cell layout. Table 2 shows the cell design log with reagent quantities. |

Attachments:

Table 1 – ESS Source Material and Quantities
Table 2 – Wet Bucket Mixing Grout Log
Figure 1 – AST-09/AST-10 Delineation
Figure 2 – Proposed ISS/ESS Treatment Area
Figure 3 – AST-09/AST-10 Proposed ISS/ESS Cell Layout

https://haleyaldrich.sharepoint.com/sites/NorthPointDevelopment/Shared Documents/0208988.FORMER PORT MOBIL TERMINAL/Deliverables/48. AST9-10 Cell Design RAWP Add 01/2026-0924_HANY_RAWP Addendum 01_AST09&AST10_F.docx

# Attachments

**TABLE 1**
**ESS SOURCE MATERIAL AND QUANTITIES**
FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

| ESS Material Source Location | ESS Material Quantity (cu yd) |
|---|---|
| GCM Material from Area East of AST-59 | 3,800 |
| AST-08 Stockpile consisting of above-grade ISS material from AST-08, AST-16, AST-41, and AST-61/GCM material from AST-55 | 2,500 |
| NOAB18 Overburden Material | 600 |
| AST41 Overburden Material | 100 |
| GCM Material from AST-52 | 500 |
| GCM Material from AST-52/AST-17 Area | 500 |
| Total ESS Quantity | 8,000 |

***Notes:***

*ESS = ex situ solidification*
*cu yd = cubic yards*
*ESS quantities are estimated*

# In-Situ Stabilization Wet Bucket Mixing Grout Log

**Project Name:** Former Port Mobil Site - Sitewide Remedy

**Project Date:** 9/22/2026

ENTACT

| DESIGN CELL AND VOLUME DESCRIPTION | | | | | | | | | | | REAGENT ADDITION | | | | | CELL WATER & REAGENT QUANTITIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cell ID | Center Point | Center Point | Existing Grade | Cell Width | Cell Length | Cell Area | Top of ISS | Bottom of ISS | Target Mixing Depth | Cell Volume | Unit Weight | Treatment Weight | Water to Reagent Ratio | Design Cement Addition | Design Slag Addition | Water Addition | Water Addition | Cement Addition | Slag Addition | Grout Addition | Grout Addition | Grout Unit Weight |
| | Northing | Easting | ELEV | FT | FT | SF | ELEV | ELEV | FT | CY | PCF | LBS | | % | % | LBS | GAL | LBS | LBS | GAL | CY | PCF |
| Start of AST-09&10 ISS/ESS | | | | | | | | | | | | | | | | | | | | | | |
| AST09&10 -001 | 137943.0 | 917278.6 | 32.1 | N/A | N/A | 399.2 | 32.1 | 20.1 | 12.0 | 177.4 | 118.5 | 567,676.6 | 0.8 : 1.0 | 5.0% | 2.50% | 34,061 | 4,084 | 28,384 | 14,192 | 5,772 | 28.6 | 99.3 |
| AST09&10 -002 | 137916.3 | 917288.6 | 32.7 | N/A | N/A | 468.0 | 32.7 | 20.7 | 12.0 | 208.0 | 118.5 | 665,439.1 | 0.8 : 1.0 | 5.0% | 2.50% | 39,926 | 4,787 | 33,272 | 16,636 | 6,766 | 33.5 | 99.3 |
| AST09&10 -003 | 137868.2 | 917293.7 | 33.6 | N/A | N/A | 369.1 | 33.6 | 21.6 | 12.0 | 164.1 | 118.5 | 524,902.9 | 0.8 : 1.0 | 5.0% | 2.50% | 31,494 | 3,776 | 26,245 | 13,123 | 5,337 | 26.4 | 99.3 |
| AST09&10 -004 | 137840.5 | 917303.7 | 34.2 | N/A | N/A | 475.7 | 34.2 | 22.2 | 12.0 | 211.4 | 118.5 | 676,488.1 | 0.8 : 1.0 | 5.0% | 2.50% | 40,589 | 4,867 | 33,824 | 16,912 | 6,879 | 34.1 | 99.3 |
| AST09&10 -005 | 137848.2 | 917320.7 | 34.3 | N/A | N/A | 529.9 | 34.3 | 22.3 | 12.0 | 235.5 | 118.5 | 753,560.5 | 0.8 : 1.0 | 5.0% | 2.50% | 45,214 | 5,421 | 37,678 | 18,839 | 7,662 | 37.9 | 99.3 |
| AST09&10 -006 | 137871.8 | 917310.5 | 33.8 | N/A | N/A | 500.0 | 33.8 | 21.8 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -007 | 137894.4 | 917298.1 | 33.2 | N/A | N/A | 500.0 | 33.2 | 21.2 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -008 | 137947.4 | 917293.2 | 32.2 | N/A | N/A | 529.2 | 32.2 | 20.2 | 12.0 | 235.2 | 118.5 | 752,550.8 | 0.8 : 1.0 | 5.0% | 2.50% | 45,153 | 5,414 | 37,628 | 18,814 | 7,652 | 37.9 | 99.3 |
| AST09&10 -009 | 137922.6 | 917305.8 | 32.8 | N/A | N/A | 500.0 | 32.8 | 20.8 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -010 | 137901.2 | 917316.3 | 33.3 | N/A | N/A | 500.0 | 33.3 | 21.3 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -011 | 137879.6 | 917328.2 | 33.9 | N/A | N/A | 563.0 | 33.9 | 21.9 | 12.0 | 250.2 | 118.5 | 800,514.9 | 0.8 : 1.0 | 5.0% | 2.50% | 48,031 | 5,759 | 40,026 | 20,013 | 8,140 | 40.3 | 99.3 |
| AST09&10 -012 | 137858.9 | 917333.3 | 34.3 | N/A | N/A | 276.9 | 34.3 | 22.3 | 12.0 | 123.1 | 118.5 | 393,737.6 | 0.8 : 1.0 | 5.0% | 2.50% | 23,624 | 2,833 | 19,687 | 9,843 | 4,004 | 19.8 | 99.3 |
| AST09&10 -013 | 137909.0 | 917334.5 | 33.5 | N/A | N/A | 587.0 | 33.5 | 21.5 | 12.0 | 260.9 | 118.5 | 834,770.9 | 0.8 : 1.0 | 5.0% | 2.50% | 50,086 | 6,006 | 41,739 | 20,869 | 8,488 | 42.0 | 99.3 |
| AST09&10 -014 | 137933.0 | 917323.8 | 32.9 | N/A | N/A | 500.0 | 32.9 | 20.9 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -015 | 137958.8 | 917311.7 | 32.2 | N/A | N/A | 585.4 | 32.2 | 20.2 | 12.0 | 260.2 | 118.5 | 832,424.6 | 0.8 : 1.0 | 5.0% | 2.50% | 49,945 | 5,989 | 41,621 | 20,811 | 8,464 | 41.9 | 99.3 |
| AST09&10 -016 | 137985.8 | 917334.3 | 32.0 | N/A | N/A | 379.6 | 32.0 | 20.0 | 12.0 | 168.7 | 118.5 | 539,791.2 | 0.8 : 1.0 | 5.0% | 2.50% | 32,387 | 3,883 | 26,990 | 13,495 | 5,489 | 27.2 | 99.3 |
| AST09&10 -017 | 137965.6 | 917330.2 | 32.4 | N/A | N/A | 500.0 | 32.4 | 20.4 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -018 | 137941.1 | 917340.6 | 33.0 | N/A | N/A | 500.0 | 33.0 | 21.0 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -019 | 137917.5 | 917354.0 | 33.6 | N/A | N/A | 575.5 | 33.6 | 21.6 | 12.0 | 255.8 | 118.5 | 818,332.6 | 0.8 : 1.0 | 5.0% | 2.50% | 49,100 | 5,887 | 40,917 | 20,458 | 8,321 | 41.2 | 99.3 |
| AST09&10 -020 | 137898.3 | 917396.5 | 34.6 | N/A | N/A | 449.0 | 34.6 | 22.6 | 12.0 | 199.5 | 118.5 | 638,449.6 | 0.8 : 1.0 | 5.0% | 2.50% | 38,307 | 4,593 | 31,922 | 15,961 | 6,492 | 32.1 | 99.3 |
| AST09&10 -021 | 137908.3 | 917382.4 | 34.2 | N/A | N/A | 250.3 | 34.2 | 22.2 | 12.0 | 111.2 | 118.5 | 355,926.6 | 0.8 : 1.0 | 5.0% | 2.50% | 21,356 | 2,561 | 17,796 | 8,898 | 3,619 | 17.9 | 99.3 |
| AST09&10 -022 | 137926.8 | 917371.2 | 33.7 | N/A | N/A | 547.1 | 33.7 | 21.7 | 12.0 | 243.1 | 118.5 | 777,919.3 | 0.8 : 1.0 | 5.0% | 2.50% | 46,675 | 5,597 | 38,896 | 19,448 | 7,910 | 39.2 | 99.3 |
| AST09&10 -023 | 137948.6 | 917361.0 | 33.1 | N/A | N/A | 500.0 | 33.1 | 21.1 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -024 | 137973.7 | 917349.1 | 32.5 | N/A | N/A | 500.0 | 32.5 | 20.5 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -025 | 138001.8 | 917358.1 | 32.1 | N/A | N/A | 305.8 | 32.1 | 20.1 | 12.0 | 135.9 | 118.5 | 434,819.2 | 0.8 : 1.0 | 5.0% | 2.50% | 26,089 | 3,128 | 21,741 | 10,870 | 4,421 | 21.9 | 99.3 |
| AST09&10 -026 | 137982.9 | 917365.9 | 32.5 | N/A | N/A | 500.0 | 32.5 | 20.5 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -027 | 137957.1 | 917378.3 | 33.2 | N/A | N/A | 500.0 | 33.2 | 21.2 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -028 | 137935.0 | 917388.5 | 33.8 | N/A | N/A | 522.2 | 33.8 | 21.8 | 12.0 | 232.1 | 118.5 | 742,611.1 | 0.8 : 1.0 | 5.0% | 2.50% | 44,557 | 5,343 | 37,131 | 18,565 | 7,551 | 37.4 | 99.3 |
| AST09&10 -029 | 137914.4 | 917397.7 | 34.3 | N/A | N/A | 361.7 | 34.3 | 22.3 | 12.0 | 160.7 | 118.5 | 514,309.0 | 0.8 : 1.0 | 5.0% | 2.50% | 30,859 | 3,700 | 25,715 | 12,858 | 5,230 | 25.9 | 99.3 |
| AST09&10 -030 | 137910.7 | 917427.1 | 34.8 | N/A | N/A | 413.7 | 34.8 | 22.8 | 12.0 | 183.8 | 118.5 | 588,224.5 | 0.8 : 1.0 | 5.0% | 2.50% | 35,293 | 4,232 | 29,411 | 14,706 | 5,981 | 29.6 | 99.3 |
| AST09&10 -031 | 137923.6 | 917417.7 | 34.4 | N/A | N/A | 411.1 | 34.4 | 22.4 | 12.0 | 182.7 | 118.5 | 584,555.8 | 0.8 : 1.0 | 5.0% | 2.50% | 35,073 | 4,205 | 29,228 | 14,614 | 5,944 | 29.4 | 99.3 |
| AST09&10 -032 | 137945.5 | 917405.5 | 33.8 | N/A | N/A | 519.3 | 33.8 | 21.8 | 12.0 | 230.8 | 118.5 | 738,401.9 | 0.8 : 1.0 | 5.0% | 2.50% | 44,304 | 5,312 | 36,920 | 18,460 | 7,508 | 37.2 | 99.3 |
| AST09&10 -033 | 137967.1 | 917396.0 | 33.3 | N/A | N/A | 500.0 | 33.3 | 21.3 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -034 | 137989.5 | 917386.8 | 32.7 | N/A | N/A | 500.0 | 32.7 | 20.7 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -035 | 138014.0 | 917373.7 | 32.0 | N/A | N/A | 438.9 | 32.0 | 20.0 | 12.0 | 195.1 | 118.5 | 624,115.8 | 0.8 : 1.0 | 5.0% | 2.50% | 37,447 | 4,490 | 31,206 | 15,603 | 6,346 | 31.4 | 99.3 |
| AST09&10 -036 | 138018.6 | 917397.2 | 32.3 | N/A | N/A | 547.5 | 32.3 | 20.3 | 12.0 | 243.4 | 118.5 | 778,601.9 | 0.8 : 1.0 | 5.0% | 2.50% | 46,716 | 5,601 | 38,930 | 19,465 | 7,917 | 39.2 | 99.3 |
| AST09&10 -037 | 137996.5 | 917402.6 | 32.8 | N/A | N/A | 500.0 | 32.8 | 20.8 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -038 | 137974.4 | 917414.3 | 33.4 | N/A | N/A | 500.0 | 33.4 | 21.4 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -039 | 137954.0 | 917425.7 | 34.0 | N/A | N/A | 516.3 | 34.0 | 22.0 | 12.0 | 229.5 | 118.5 | 734,178.6 | 0.8 : 1.0 | 5.0% | 2.50% | 44,051 | 5,282 | 36,709 | 18,354 | 7,465 | 37.0 | 99.3 |
| AST09&10 -040 | 137931.9 | 917435.7 | 34.6 | N/A | N/A | 460.5 | 34.6 | 22.6 | 12.0 | 204.7 | 118.5 | 654,802.6 | 0.8 : 1.0 | 5.0% | 2.50% | 39,288 | 4,711 | 32,740 | 16,370 | 6,658 | 33.0 | 99.3 |
| AST09&10 -041 | 137849.4 | 917497.4 | 37.0 | N/A | N/A | 538.0 | 37.0 | 25.0 | 12.0 | 239.1 | 118.5 | 765,064.4 | 0.8 : 1.0 | 5.0% | 2.50% | 45,904 | 5,504 | 38,253 | 19,127 | 7,779 | 38.5 | 99.3 |
| AST09&10 -042 | 137871.3 | 917485.8 | 36.5 | N/A | N/A | 547.7 | 36.5 | 24.5 | 12.0 | 243.4 | 118.5 | 778,815.2 | 0.8 : 1.0 | 5.0% | 2.50% | 46,729 | 5,603 | 38,941 | 19,470 | 7,919 | 39.2 | 99.3 |
| AST09&10 -043 | 137895.3 | 917473.4 | 35.8 | N/A | N/A | 578.5 | 35.8 | 23.8 | 12.0 | 257.1 | 118.5 | 822,555.9 | 0.8 : 1.0 | 5.0% | 2.50% | 49,353 | 5,918 | 41,128 | 20,564 | 8,364 | 41.4 | 99.3 |
| AST09&10 -044 | 137918.0 | 917463.9 | 35.3 | N/A | N/A | 584.7 | 35.3 | 23.3 | 12.0 | 259.9 | 118.5 | 831,400.7 | 0.8 : 1.0 | 5.0% | 2.50% | 49,884 | 5,981 | 41,570 | 20,785 | 8,454 | 41.9 | 99.3 |

# In-Situ Stabilization Wet Bucket Mixing Grout Log

**Project Name:** Former Port Mobil Site - Sitewide Remedy

**Project Date:** 9/22/2026

ENTACT

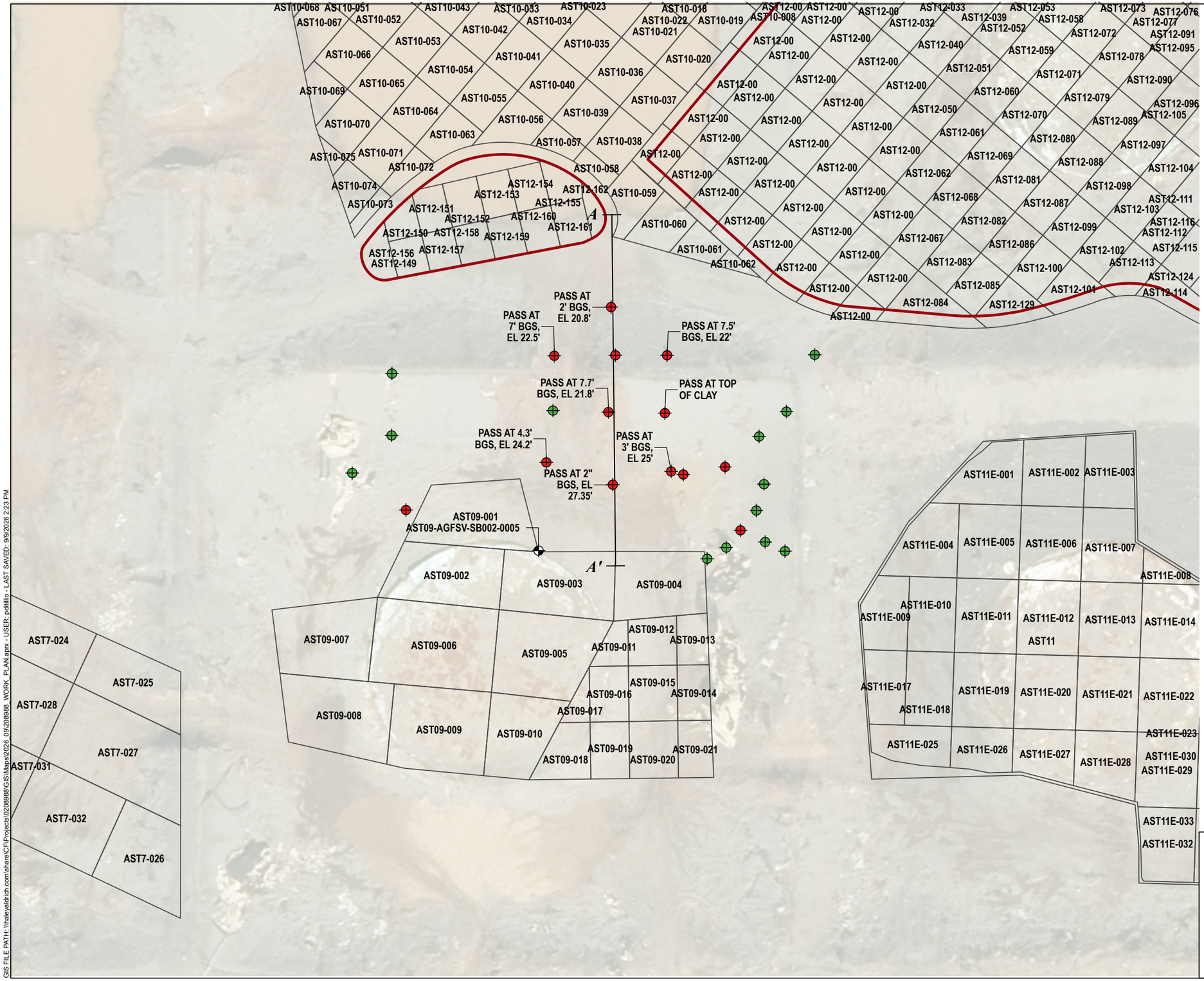
| DESIGN CELL AND VOLUME DESCRIPTION | | | | | | | | | | | REAGENT ADDITION | | | | | CELL WATER & REAGENT QUANTITIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cell ID | Center Point | Center Point | Existing Grade | Cell Width | Cell Length | Cell Area | Top of ISS | Bottom of ISS | Target Mixing Depth | Cell Volume | Unit Weight | Treatment Weight | Water to Reagent Ratio | Design Cement Addition | Design Slag Addition | Water Addition | Water Addition | Cement Addition | Slag Addition | Grout Addition | Grout Addition | Grout Unit Weight |
| | Northing | Easting | ELEV | FT | FT | SF | ELEV | ELEV | FT | CY | PCF | LBS | | % | % | LBS | GAL | LBS | LBS | GAL | CY | PCF |
| AST09&10 -045 | 137939.9 | 917452.9 | 34.7 | N/A | N/A | 486.7 | 34.7 | 22.7 | 12.0 | 216.3 | 118.5 | 692,030.5 | 0.8 : 1.0 | 5.0% | 2.50% | 41,522 | 4,979 | 34,602 | 17,301 | 7,037 | 34.8 | 99.3 |
| AST09&10 -046 | 137962.1 | 917443.2 | 34.1 | N/A | N/A | 513.3 | 34.1 | 22.1 | 12.0 | 228.2 | 118.5 | 729,969.5 | 0.8 : 1.0 | 5.0% | 2.50% | 43,798 | 5,252 | 36,498 | 18,249 | 7,422 | 36.7 | 99.3 |
| AST09&10 -047 | 137985.1 | 917432.3 | 33.5 | N/A | N/A | 500.0 | 33.5 | 21.5 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -048 | 138007.7 | 917420.8 | 32.8 | N/A | N/A | 500.0 | 32.8 | 20.8 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -049 | 138017.2 | 917437.6 | 32.9 | N/A | N/A | 470.0 | 32.9 | 20.9 | 12.0 | 208.9 | 118.5 | 668,382.7 | 0.8 : 1.0 | 5.0% | 2.50% | 40,103 | 4,809 | 33,419 | 16,710 | 6,796 | 33.6 | 99.3 |
| AST09&10 -050 | 137992.2 | 917450.0 | 33.6 | N/A | N/A | 500.0 | 33.6 | 21.6 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -051 | 137971.0 | 917460.5 | 34.2 | N/A | N/A | 510.4 | 34.2 | 22.2 | 12.0 | 226.8 | 118.5 | 725,746.1 | 0.8 : 1.0 | 5.0% | 2.50% | 43,545 | 5,221 | 36,287 | 18,144 | 7,380 | 36.5 | 99.3 |
| AST09&10 -052 | 137946.7 | 917472.4 | 34.8 | N/A | N/A | 489.6 | 34.8 | 22.8 | 12.0 | 217.6 | 118.5 | 696,253.9 | 0.8 : 1.0 | 5.0% | 2.50% | 41,775 | 5,009 | 34,813 | 17,406 | 7,080 | 35.0 | 99.3 |
| AST09&10 -053 | 137925.8 | 917484.1 | 35.4 | N/A | N/A | 500.0 | 35.4 | 23.4 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -054 | 137902.9 | 917493.6 | 36.0 | N/A | N/A | 500.0 | 36.0 | 24.0 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -055 | 137880.3 | 917504.7 | 36.6 | N/A | N/A | 500.0 | 36.6 | 24.6 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -056 | 137859.2 | 917515.5 | 37.2 | N/A | N/A | 500.0 | 37.2 | 25.2 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -057 | 137866.4 | 917530.8 | 37.3 | N/A | N/A | 336.8 | 37.3 | 25.3 | 12.0 | 149.7 | 118.5 | 478,858.5 | 0.8 : 1.0 | 5.0% | 2.50% | 28,732 | 3,445 | 23,943 | 11,971 | 4,869 | 24.1 | 99.3 |
| AST09&10 -058 | 137889.5 | 917518.9 | 36.7 | N/A | N/A | 336.8 | 36.7 | 24.7 | 12.0 | 149.7 | 118.5 | 478,858.5 | 0.8 : 1.0 | 5.0% | 2.50% | 28,732 | 3,445 | 23,943 | 11,971 | 4,869 | 24.1 | 99.3 |
| AST09&10 -059 | 137911.6 | 917508.7 | 36.1 | N/A | N/A | 336.8 | 36.1 | 24.1 | 12.0 | 149.7 | 118.5 | 478,858.5 | 0.8 : 1.0 | 5.0% | 2.50% | 28,732 | 3,445 | 23,943 | 11,971 | 4,869 | 24.1 | 99.3 |
| AST09&10 -060 | 137934.8 | 917498.9 | 35.5 | N/A | N/A | 418.4 | 35.5 | 23.5 | 12.0 | 185.9 | 118.5 | 594,922.1 | 0.8 : 1.0 | 5.0% | 2.50% | 35,695 | 4,280 | 29,746 | 14,873 | 6,049 | 29.9 | 99.3 |
| AST09&10 -061 | 137957.8 | 917488.0 | 34.9 | N/A | N/A | 492.6 | 34.9 | 22.9 | 12.0 | 218.9 | 118.5 | 700,463.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,028 | 5,039 | 35,023 | 17,512 | 7,122 | 35.3 | 99.3 |
| AST09&10 -062 | 137980.5 | 917477.8 | 34.3 | N/A | N/A | 507.4 | 34.3 | 22.3 | 12.0 | 225.5 | 118.5 | 721,537.0 | 0.8 : 1.0 | 5.0% | 2.50% | 43,292 | 5,191 | 36,077 | 18,038 | 7,337 | 36.3 | 99.3 |
| AST09&10 -063 | 138002.8 | 917467.1 | 33.6 | N/A | N/A | 500.0 | 33.6 | 21.6 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -064 | 138020.1 | 917458.6 | 33.2 | N/A | N/A | 301.0 | 33.2 | 21.2 | 12.0 | 133.8 | 118.5 | 428,078.9 | 0.8 : 1.0 | 5.0% | 2.50% | 25,685 | 3,080 | 21,404 | 10,702 | 4,353 | 21.5 | 99.3 |
| AST09&10 -065 | 138029.1 | 917485.0 | 33.4 | N/A | N/A | 438.8 | 33.4 | 21.4 | 12.0 | 195.0 | 118.5 | 623,930.9 | 0.8 : 1.0 | 5.0% | 2.50% | 37,436 | 4,489 | 31,197 | 15,598 | 6,344 | 31.4 | 99.3 |
| AST09&10 -066 | 138008.9 | 917484.6 | 33.8 | N/A | N/A | 500.0 | 33.8 | 21.8 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -067 | 137987.8 | 917497.2 | 34.4 | N/A | N/A | 504.5 | 34.4 | 22.4 | 12.0 | 224.2 | 118.5 | 717,327.9 | 0.8 : 1.0 | 5.0% | 2.50% | 43,040 | 5,161 | 35,866 | 17,933 | 7,294 | 36.1 | 99.3 |
| AST09&10 -068 | 137964.7 | 917507.4 | 35.0 | N/A | N/A | 495.6 | 35.0 | 23.0 | 12.0 | 220.2 | 118.5 | 704,672.1 | 0.8 : 1.0 | 5.0% | 2.50% | 42,280 | 5,070 | 35,234 | 17,617 | 7,165 | 35.5 | 99.3 |
| AST09&10 -069 | 137942.8 | 917513.7 | 35.6 | N/A | N/A | 491.3 | 35.6 | 23.6 | 12.0 | 218.3 | 118.5 | 698,600.2 | 0.8 : 1.0 | 5.0% | 2.50% | 41,916 | 5,026 | 34,930 | 17,465 | 7,104 | 35.2 | 99.3 |
| AST09&10 -070 | 137914.4 | 917519.8 | 36.2 | N/A | N/A | 251.7 | 36.2 | 24.2 | 12.0 | 111.9 | 118.5 | 357,974.3 | 0.8 : 1.0 | 5.0% | 2.50% | 21,478 | 2,575 | 17,899 | 8,949 | 3,640 | 18.0 | 99.3 |
| AST09&10 -071 | 137892.7 | 917531.0 | 36.8 | N/A | N/A | 309.1 | 36.8 | 24.8 | 12.0 | 137.4 | 118.5 | 439,483.3 | 0.8 : 1.0 | 5.0% | 2.50% | 26,369 | 3,162 | 21,974 | 10,987 | 4,469 | 22.1 | 99.3 |
| AST09&10 -072 | 137872.3 | 917543.2 | 37.4 | N/A | N/A | 344.4 | 37.4 | 25.4 | 12.0 | 153.1 | 118.5 | 489,779.5 | 0.8 : 1.0 | 5.0% | 2.50% | 29,387 | 3,524 | 24,489 | 12,244 | 4,980 | 24.7 | 99.3 |
| AST09&10 -073 | 137979.5 | 917523.0 | 35.0 | N/A | N/A | 359.0 | 35.0 | 23.0 | 12.0 | 159.6 | 118.5 | 510,526.4 | 0.8 : 1.0 | 5.0% | 2.50% | 30,632 | 3,673 | 25,526 | 12,763 | 5,191 | 25.7 | 99.3 |
| AST09&10 -074 | 137998.5 | 917513.1 | 34.4 | N/A | N/A | 501.5 | 34.4 | 22.4 | 12.0 | 222.9 | 118.5 | 713,104.6 | 0.8 : 1.0 | 5.0% | 2.50% | 42,786 | 5,130 | 35,655 | 17,828 | 7,251 | 35.9 | 99.3 |
| AST09&10 -075 | 138020.6 | 917505.3 | 33.9 | N/A | N/A | 500.0 | 33.9 | 21.9 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -076 | 138048.8 | 917524.0 | 33.5 | N/A | N/A | 387.0 | 33.5 | 21.5 | 12.0 | 172.0 | 118.5 | 550,271.3 | 0.8 : 1.0 | 5.0% | 2.50% | 33,016 | 3,959 | 27,514 | 13,757 | 5,595 | 27.7 | 99.3 |
| AST09&10 -077 | 138028.2 | 917520.6 | 33.9 | N/A | N/A | 500.0 | 33.9 | 21.9 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -078 | 138006.3 | 917531.3 | 34.6 | N/A | N/A | 432.4 | 34.6 | 22.6 | 12.0 | 192.2 | 118.5 | 614,830.1 | 0.8 : 1.0 | 5.0% | 2.50% | 36,890 | 4,423 | 30,742 | 15,371 | 6,252 | 30.9 | 99.3 |
| AST09&10 -079 | 138019.9 | 917547.8 | 34.5 | N/A | N/A | 313.6 | 34.5 | 22.5 | 12.0 | 139.4 | 118.5 | 445,967.6 | 0.8 : 1.0 | 5.0% | 2.50% | 26,758 | 3,208 | 22,298 | 11,149 | 4,535 | 22.4 | 99.3 |
| AST09&10 -080 | 138038.9 | 917539.1 | 34.0 | N/A | N/A | 500.0 | 34.0 | 22.0 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -081 | 138063.4 | 917549.0 | 33.6 | N/A | N/A | 307.8 | 33.6 | 21.6 | 12.0 | 136.8 | 118.5 | 437,748.5 | 0.8 : 1.0 | 5.0% | 2.50% | 26,265 | 3,149 | 21,887 | 10,944 | 4,451 | 22.0 | 99.3 |
| AST09&10 -082 | 138046.2 | 917557.3 | 34.1 | N/A | N/A | 500.0 | 34.1 | 22.1 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -083 | 138029.2 | 917566.0 | 34.6 | N/A | N/A | 288.1 | 34.6 | 22.6 | 12.0 | 128.1 | 118.5 | 409,720.9 | 0.8 : 1.0 | 5.0% | 2.50% | 24,583 | 2,948 | 20,486 | 10,243 | 4,166 | 20.6 | 99.3 |
| AST09&10 -084 | 138037.2 | 917583.0 | 34.7 | N/A | N/A | 227.2 | 34.7 | 22.7 | 12.0 | 101.0 | 118.5 | 323,035.7 | 0.8 : 1.0 | 5.0% | 2.50% | 19,382 | 2,324 | 16,152 | 8,076 | 3,285 | 16.3 | 99.3 |
| AST09&10 -085 | 138055.6 | 917574.8 | 34.1 | N/A | N/A | 445.8 | 34.1 | 22.1 | 12.0 | 198.1 | 118.5 | 633,913.4 | 0.8 : 1.0 | 5.0% | 2.50% | 38,035 | 4,561 | 31,696 | 15,848 | 6,446 | 31.9 | 99.3 |
| AST09&10 -086 | 138072.6 | 917568.0 | 33.7 | N/A | N/A | 385.4 | 33.7 | 21.7 | 12.0 | 171.3 | 118.5 | 548,081.5 | 0.8 : 1.0 | 5.0% | 2.50% | 32,885 | 3,943 | 27,404 | 13,702 | 5,573 | 27.6 | 99.3 |
| AST09&10 -087 | 137871.2 | 917465.5 | 36.1 | N/A | N/A | 330.9 | 36.1 | 29.2 | 7.0 | 85.8 | 118.5 | 274,440.1 | 0.8 : 1.0 | 5.0% | 2.50% | 16,466 | 1,974 | 13,722 | 6,861 | 2,791 | 13.8 | 99.3 |
| AST09&10 -088 | 137967.4 | 917273.3 | 31.6 | N/A | N/A | 288.4 | 31.6 | 19.6 | 12.0 | 128.2 | 118.5 | 410,076.4 | 0.8 : 1.0 | 5.0% | 2.50% | 24,605 | 2,950 | 20,504 | 10,252 | 4,170 | 20.6 | 99.3 |
| AST09&10 -089 | 137973.4 | 917292.1 | 31.7 | N/A | N/A | 500.0 | 31.7 | 19.7 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 : 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |

# In-Situ Stabilization Wet Bucket Mixing Grout Log

**Project Name:** Former Port Mobil Site - Sitewide Remedy

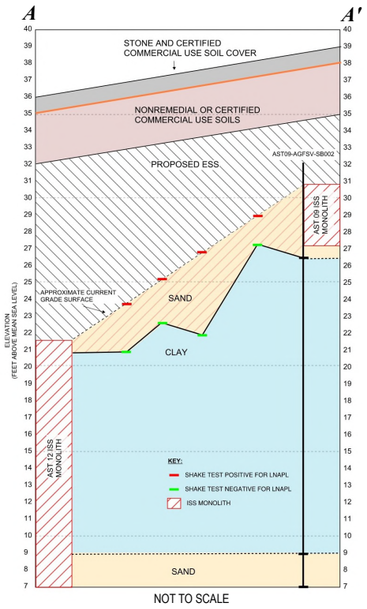
**Project Date:** 9/22/2026

| DESIGN CELL AND VOLUME DESCRIPTION | | | | | | | | | | | REAGENT ADDITION | | | | | CELL WATER & REAGENT QUANTITIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cell ID | Center Point | Center Point | Existing Grade | Cell Width | Cell Length | Cell Area | Top of ISS | Bottom of ISS | Target Mixing Depth | Cell Volume | Unit Weight | Treatment Weight | Water to Reagent Ratio | | | Design Cement Addition | Design Slag Addition | Water Addition | Water Addition | Cement Addition | Slag Addition | Grout Addition | Grout Addition | Grout Unit Weight |
| | Northing | Easting | ELEV | FT | FT | SF | ELEV | ELEV | FT | CY | PCF | LBS | | | | % | % | LBS | GAL | LBS | LBS | GAL | CY | PCF |
| AST09&10 -090 | 137990.2 | 917280.2 | 31.2 | N/A | N/A | 460.0 | 31.2 | 19.2 | 12.0 | 204.4 | 118.5 | 654,120.0 | 0.8 | : | 1.0 | 5.0% | 2.50% | 39,247 | 4,706 | 32,706 | 16,353 | 6,651 | 32.9 | 99.3 |
| AST09&10 -091 | 138019.0 | 917291.9 | 30.8 | N/A | N/A | 347.1 | 30.8 | 18.8 | 12.0 | 154.3 | 118.5 | 493,547.8 | 0.8 | : | 1.0 | 5.0% | 2.50% | 29,613 | 3,551 | 24,677 | 12,339 | 5,018 | 24.8 | 99.3 |
| AST09&10 -092 | 138003.1 | 917300.8 | 31.3 | N/A | N/A | 500.0 | 31.3 | 19.3 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 | : | 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -093 | 137989.0 | 917312.6 | 31.7 | N/A | N/A | 500.0 | 31.7 | 19.7 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 | : | 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -094 | 138002.3 | 917335.8 | 31.7 | N/A | N/A | 500.0 | 31.7 | 19.7 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 | : | 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -095 | 138018.5 | 917318.8 | 31.2 | N/A | N/A | 500.0 | 31.2 | 19.2 | 12.0 | 222.2 | 118.5 | 711,000.0 | 0.8 | : | 1.0 | 5.0% | 2.50% | 42,660 | 5,115 | 35,550 | 17,775 | 7,230 | 35.8 | 99.3 |
| AST09&10 -096 | 138031.1 | 917311.0 | 30.8 | N/A | N/A | 320.3 | 30.8 | 18.8 | 12.0 | 142.3 | 118.5 | 455,423.9 | 0.8 | : | 1.0 | 5.0% | 2.50% | 27,325 | 3,276 | 22,771 | 11,386 | 4,631 | 22.9 | 99.3 |
| AST09&10 -097 | 138029.2 | 917341.5 | 31.3 | N/A | N/A | 379.8 | 31.3 | 19.3 | 12.0 | 168.8 | 118.5 | 540,032.9 | 0.8 | : | 1.0 | 5.0% | 2.50% | 32,402 | 3,885 | 27,002 | 13,501 | 5,491 | 27.2 | 99.3 |
| AST09&10 -098 | 138016.8 | 917351.3 | 31.7 | N/A | N/A | 447.8 | 31.7 | 19.7 | 12.0 | 199.0 | 118.5 | 636,828.5 | 0.8 | : | 1.0 | 5.0% | 2.50% | 38,210 | 4,581 | 31,841 | 15,921 | 6,475 | 32.1 | 99.3 |
| AST09&10 -099 | 138030.9 | 917395.3 | 32.0 | N/A | N/A | 432.3 | 32.0 | 20.0 | 12.0 | 192.1 | 118.5 | 614,702.2 | 0.8 | : | 1.0 | 5.0% | 2.50% | 36,882 | 4,422 | 30,735 | 15,368 | 6,250 | 30.9 | 99.3 |




**LEGEND**

- SHAKE TEST - POSITIVE (FAIL) FOR LNAPL
- SHAKE TEST - NEGATIVE (PASS) FOR LNAPL
- SOIL BORING
- CROSS-SECTION LINE
- PREVIOUSLY DELINEATED LNAPL AREA
- PREVIOUSLY TREATED ISS CELL




NOT TO SCALE

**NOTES**

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. DEFINITIONS:
   LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
   ISS = IN SITU SOLIDIFICATION
3. AERIAL IMAGERY SOURCE: ESRI

0 40 80

SCALE IN FEET

HALEY ALDRICH

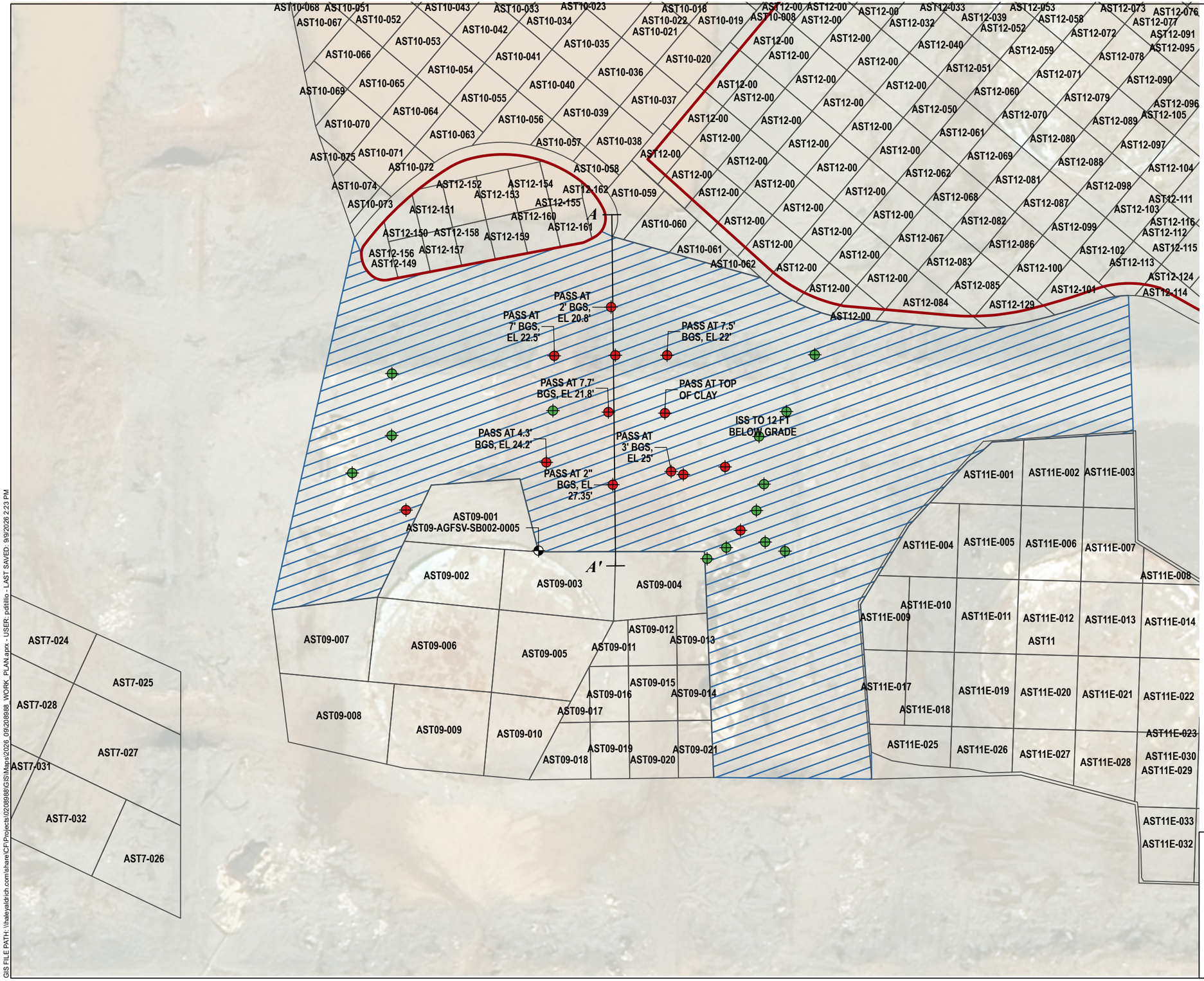
FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEWYORK

# AST-09/AST-10 DELINEATION

FIGURE 1

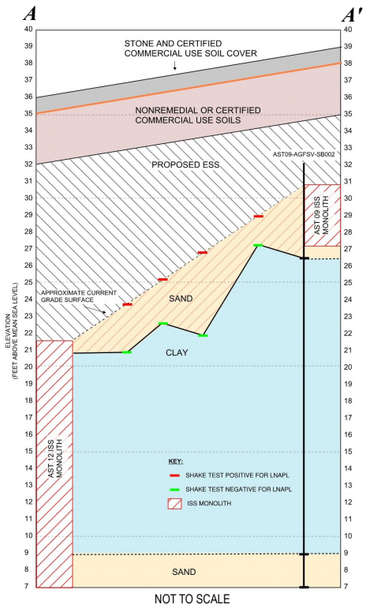
SEPTEMBER 2026

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\0208988\GIS\Maps\2026_09\208988_WORK_PLAN.aprx - USER: pdilillo - LAST SAVED: 9/9/2026 2:23 PM




**LEGEND**

- SHAKE TEST - POSITIVE (FAIL) FOR LNAPL
- SHAKE TEST - NEGATIVE (PASS) FOR LNAPL
- SOIL BORING
- CROSS-SECTION LINE
- PREVIOUSLY DELINEATED LNAPL AREA
- ISS/ESS TO 12 FT BELOW TOP OF PROPOSED ESS
- PREVIOUSLY TREATED ISS CELL




NOT TO SCALE

**NOTES**

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. DEFINITIONS:
   LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
   ISS = IN SITU SOLIDIFICATION
3. AERIAL IMAGERY SOURCE: ESRI

0 40 80

SCALE IN FEET

HALEY ALDRICH

FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEWYORK

# PROPOSED ISS/ESS TREATMENT AREA

SEPTEMBER 2026

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\02089888\GIS\Maps\2026_09\208988_WORK_PLAN.aprx - USER: pdilillo - LAST SAVED: 9/9/2026 2:23 PM

**LEGEND**

- CONTAINMENT BERM
- STRUCTURES
- COMPLETED ISS
- PROPOSED ISS/ESS MIX CELL
- ESS CELL PREVIOUSLY MIXED
- HISTORICALLY PROPOSED ESS CELL NOT YET MIXED

**NOTES**

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

2. DEFINITIONS:
   ISS = IN-SITU SOLIDIFICATION
   ESS = EX-SITU SOLIDIFICATION

3. AERIAL IMAGERY SOURCE: NEARMAP, APRIL 9, 2025

0 40 80
SCALE IN FEET

FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEWYORK

# AST-09/AST-10
# PROPOSED ESS CELL LAYOUT

OCTOBER 2026

FIGURE 3

GIS FILE PATH: \\haleyaldrich.com\share\CP\Projects\0208988\GIS\Maps\2026_05\208988_AST_ISS_AREAS.aprx - USER: pdilillo - LAST SAVED: 10/2/2026 3:11 PM