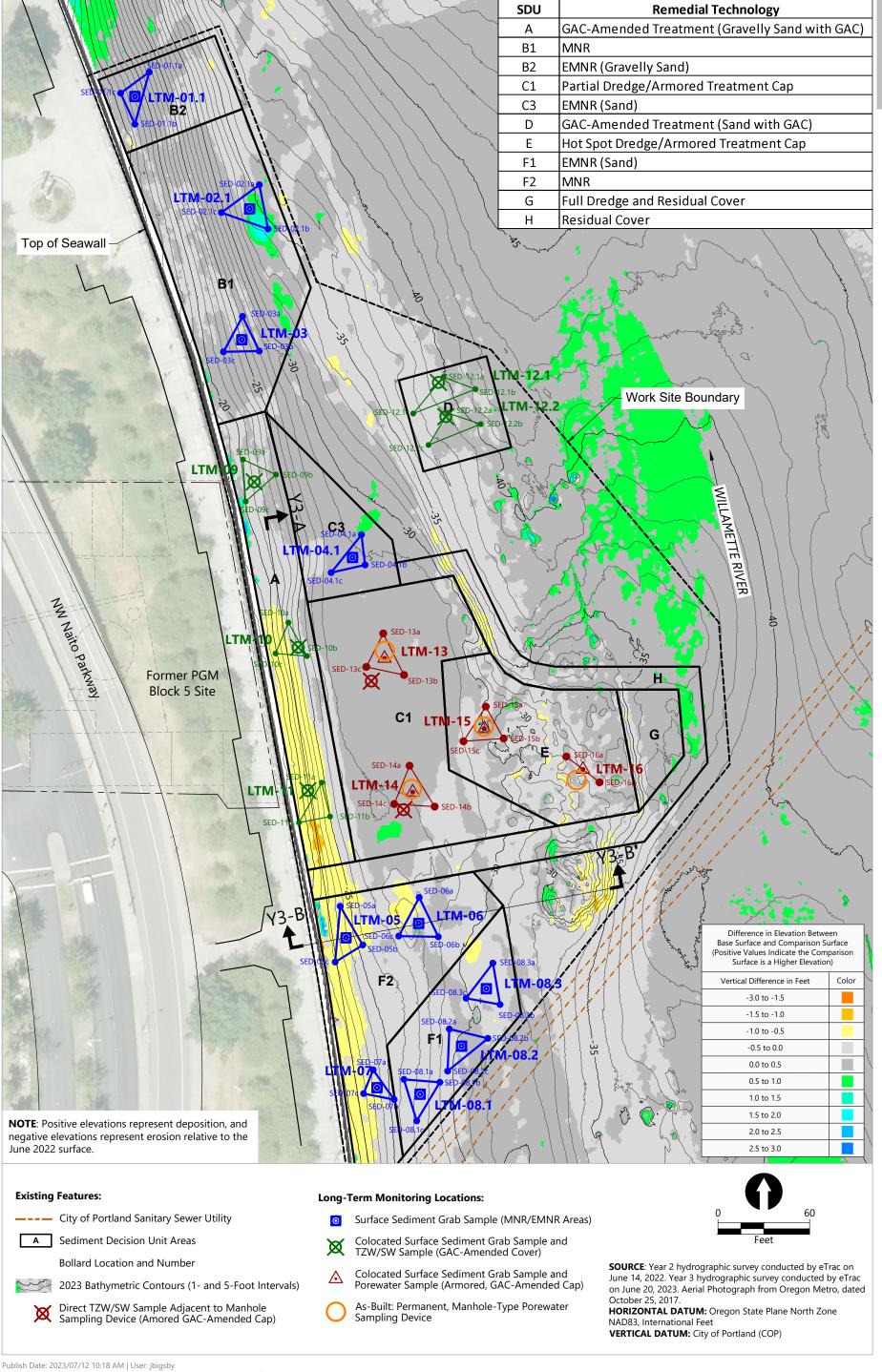


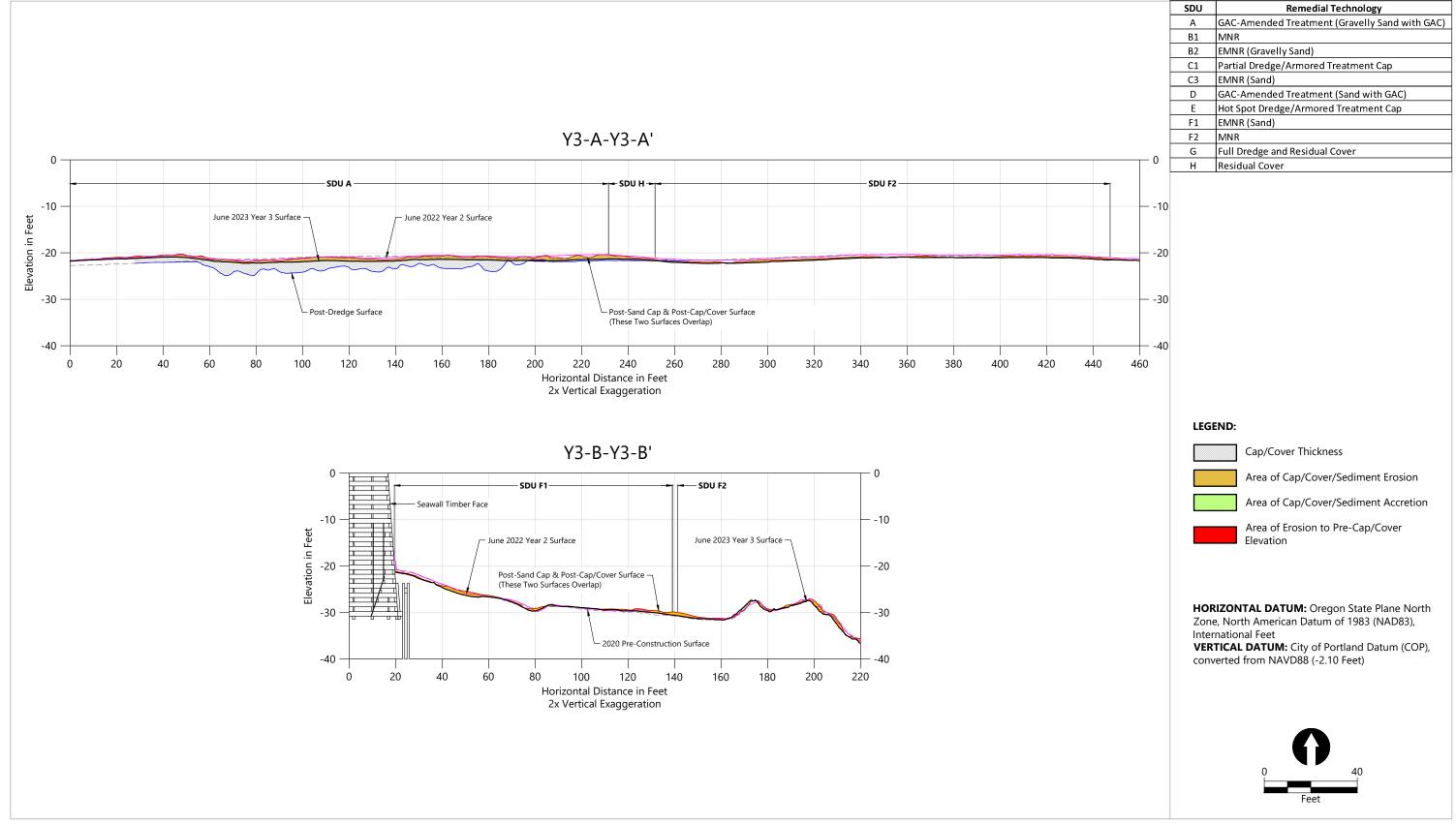
Publish Date: 2023/07/06 4:57 PM | User: jbigsby Filepath: K:\Projects\0029-NW Natural Gas Co\Portland Gas Manufacturing Site_Long Term Monitoring_Year 3 Monitoring Report\0029-RP-003 (2023 Bathy-Year 3 MR).dwg Figure 4





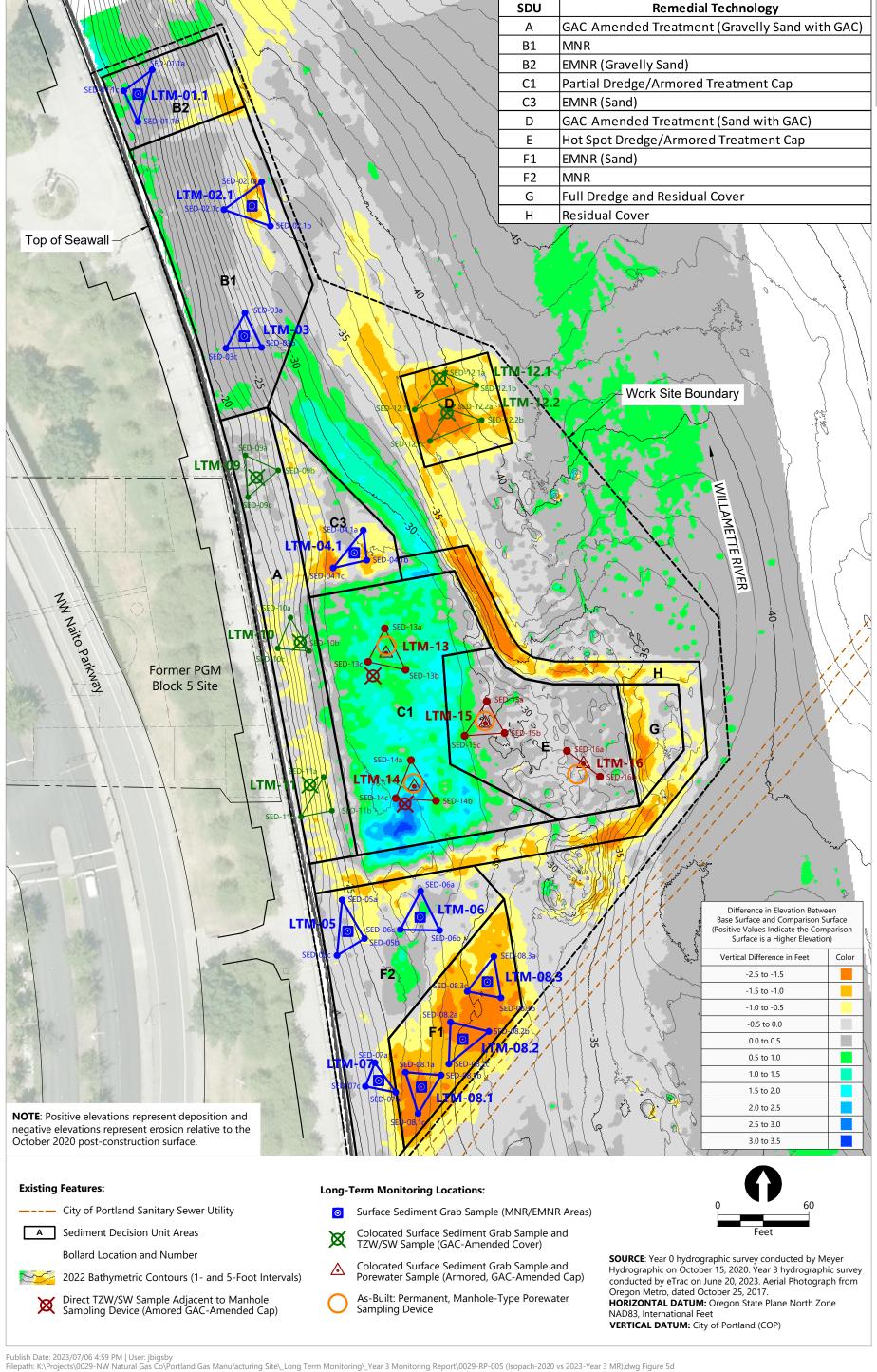
Publish Date: 2023/07/12 10:18 AM | User: jbigsby Filepath: \\gala\cad\Projects\0029-RP-004 (Isopach-2022 vs 2023-Year 3 MR).dwg Figure 5c



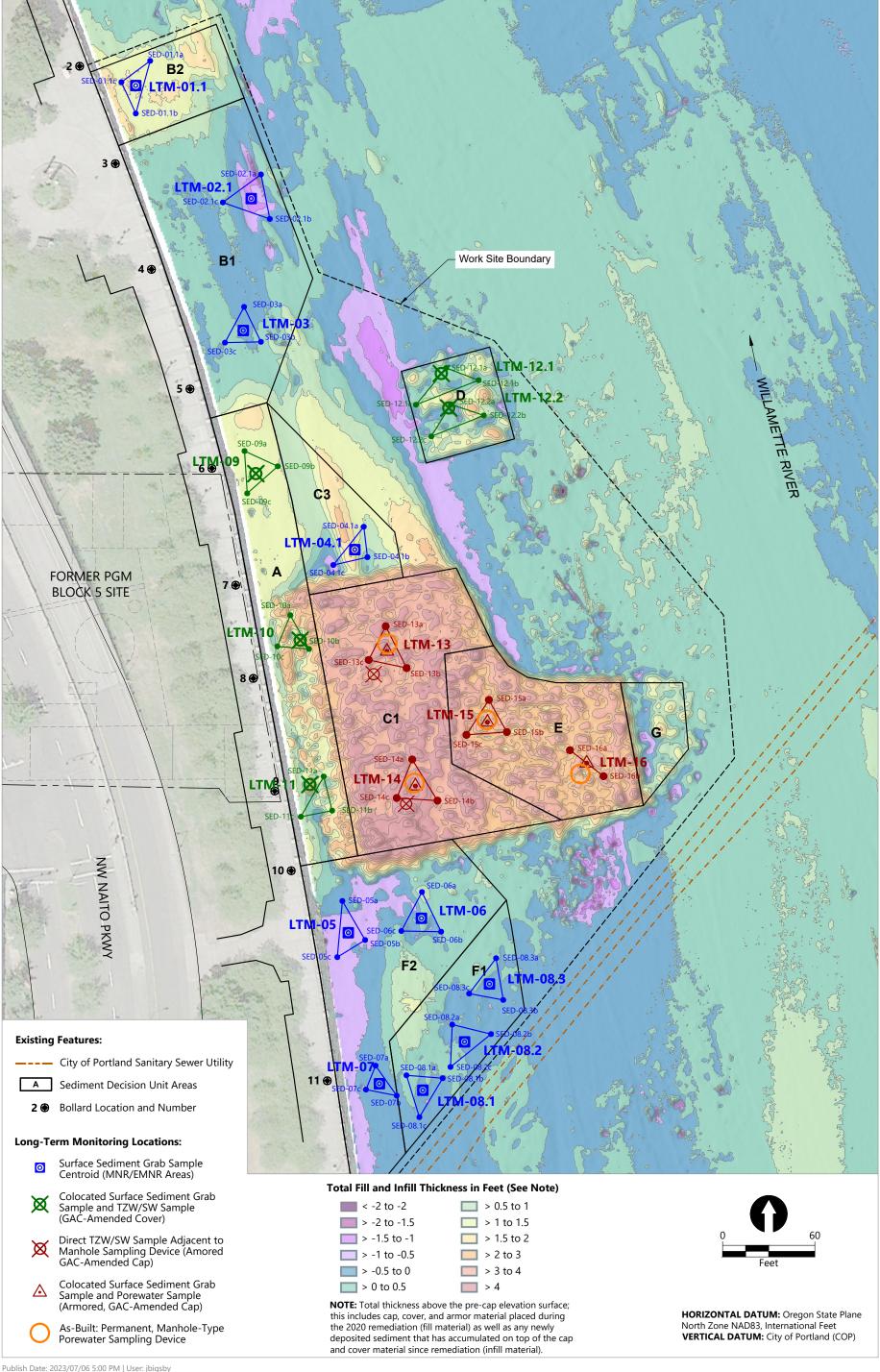


Publish Date: 2023/07/12 10:18 AM | User: jbigsby Filepath: \gala\cad\Projects\0029-RP-004 (Isopach-2022 vs 2023-Year 3 MR).dwg Figure 7a









Publish Date: 2023/07/06 5:00 PM | User: jbigsby Filepath: K:\Projects\0029-NW Natural Gas Co\Portland Gas Manufacturing Site_Long Term Monitoring_Year 3 Monitoring Report\0029-RP-006 (Cap_Cover_Infill Thickness-Year 3 MR).dwg Figure 9



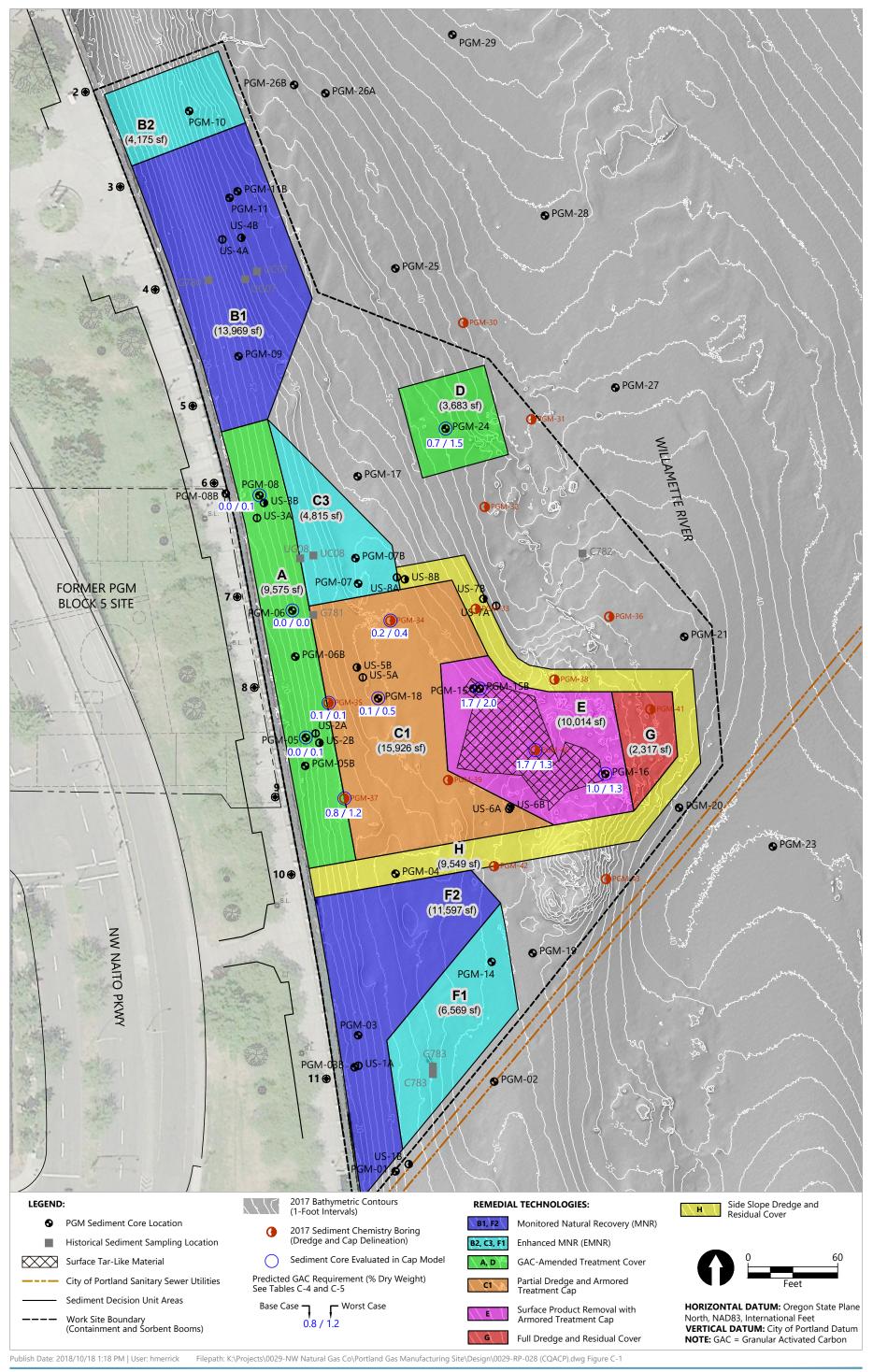




Table x

Average SDU and Site-Wide Bathymetric Differences and Cap/Cover/Infill Thicknesses

| | Average Bathymetric Difference Measurement (feet) | | | | Estimated Cap/Cover/Infill |
|--------------------|---|-----------|-----------|--------------|-------------------------------|
| SDU | Year 1 | Year 2 | Year 3 | Cumulative | Thickness (feet) |
| Start: | October 2020 | July 2021 | June 2022 | October 2020 | June/August 2020 ¹ |
| End: | July 2021 | June 2022 | June 2023 | June 2023 | June 2023 |
| Armored Cap | | | | | |
| C1 | 0.90 | -0.01 | 0.16 | 1.05 | 3.85 |
| E | 0.52 | -0.28 | -0.03 | 0.21 | 3.11 |
| GAC/Sand Cover | | | | | |
| А | 0.38 | -0.29 | -0.36 | -0.24 | 1.42 |
| D | -0.89 | -0.24 | -0.03 | -1.17 | 0.61 |
| Sand Cover (EMNR) | | | | | |
| B2 | 0.26 | -0.30 | -0.01 | -0.04 | 1.20 |
| C3 | -0.26 | -0.36 | 0.24 | -0.38 | 1.13 |
| F1 | -0.63 | -0.58 | -0.13 | -1.33 | 0.04 |
| MNR | | | | | |
| B1 | 0.32 | -0.38 | 0.10 | 0.06 | 0.07 |
| F2 | 0.43 | -0.35 | -0.37 | -0.27 | -0.16 |
| Residuals Cover | | | | | |
| G | -0.44 | -0.34 | 0.13 | -0.65 | 0.60 |
| Н | -0.23 | -0.26 | -0.04 | -0.52 | 0.57 |
| No Action | | | • | - | _ |
| Other ² | 0.09 | -0.22 | 0.10 | -0.03 | 0.13 |
| Work Site Total | 0.19 | -0.26 | 0.00 | -0.06 | 0.97 |

Legend for Average Bathymetric Difference Measurements:

Measurable deposition occurred during the specified time interval.

Measurable erosion occurred during the specified time interval.

Bathymetric difference greater than \pm 0.3 feet (Year 3 only)

Bathymetric difference is within the range of survey measurement accuracy (± 0.5 feet), indicating deposition and/or erosion are uncertain.

Notes:

- 1. Post-dredge/post-debris removal surface (pre-cap/pre-cover) merged with pre-construction surface in undredged areas.
- 2. Includes outer peripheral areas within the PGM Work Site not assigned to an SDU.

EMNR: enhanced monitored natural recovery

GAC: granular activated carbon MNR: monitored natural recovery PGM: Portland Gas Manufacturing SDU: Sediment Decision Unit