



February 29, 2024
Project No. 8014.01.82

Heidi Nelson
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, Oregon 97232

Re: Annual Site Activity Summary Report—2023
Zidell Waterfront Property, 3121 SW Moody Avenue, Portland, OR
ECSI No. 689

Dear Heidi Nelson:

On behalf of ZRZ Realty Company, Zidell Marine Corporation, and Tube Forgings of America, Inc. (collectively referred to in this document as Zidell), Maul Foster & Alongi, Inc. (MFA) has completed an assessment of the overall condition of the Zidell Waterfront Property (site) upland, bank, and in-water remedy. Remedy monitoring and reporting requirements are referred to from the Environmental Management Documents letter (MFA 2018a) including the site Operations, Monitoring, and Maintenance Plan (OMMP) (MFA 2013) and the Upland Site Management Plan (SMP) (MFA 2018b). The reporting period for this submittal is the 2023 calendar year, for which required monitoring included upland cap visual inspection and visual inspection of the bank and shore, as well as substrate monitoring.

INSPECTIONS AND MONITORING

Site inspections and monitoring were completed to record conditions of the bank, sediment, and upland caps and to comply with regulatory requirements. The following tasks were completed in the calendar year:

- MFA conducted the final substrate monitoring survey for the site in October of 2023, per the requirements of the U.S. Army Corps of Engineers (USACE) Nationwide Permit 2007-962 (USACE 2011). The survey used photos and videos of the substrate along transects to evaluate substrate conditions. Results from the survey indicate that habitat gravel over the rock-armored sediment cap in the study area complies with the USACE permit (MFA 2023a).
- MFA completed the annual site inspection during the third quarter, consistent with previous years. Conditions encountered during the annual inspection were compared to the previous monitoring report conditions to identify physical changes. Inspections and reporting were completed consistent with the requirements of the site OMMP and the SMP. The inspection noted the following:

- Bank vegetation above elevation of 16 feet is very dense along the slipway reach. Vegetation in the middle bridge reach and north bridge reach was dense in all areas above the rock armor. Vegetation coverage in the downstream reach is dense and has improved from last year's inspection. Vegetation in the 2022 repair areas are well established and stable. Additional live stakes installed in 2022 on lower portions of the bank have generally established. Overall, vegetative coverage is good.
- Rock armor that was placed in 2018 and 2022 repair areas appears to be in good condition and is stable. Habitat gravel on the sediment cap and repair areas has remained. Vegetation in the 2018 and 2022 repair areas has become dense and covers most areas of rock armor.
- The greenway cap south of the slipway is smooth, with no visible erosion. The greenway cap to the north of the slipway is smooth with no visible erosion. There are limited areas of bare soil, but there was no visible erosion. Grass coverage north of the Tilikum Crossing to STA 21+50 is dense and appears to have improved since the previous inspection.
- The sediment cap is in good condition. Sediment accumulation was observed in the slipway, in the shallow areas of the cap beneath the Tilikum Crossing, and over flat portions of the downstream reach cap. Habitat gravel continues to remain generally in place with minor shoaling from tidal influence and waves. No additional areas of exposed rock armor are visible compared to the 2022 site inspection.
- The upland cap west of the greenway is in good condition. No changes to the asphalt or gravel caps were observed. A possible leak from the city water works main on the Ross Island Bridge has created a constant puddle located below the bridge on the southern section of the upland cap. The barge building interior is secured and was not accessible during the inspection.
- The stormwater infiltration facility has dense growth along its slopes and bottom.

The full inspection report including a photographic log of site conditions is attached.

SITE MAINTENANCE

Maintenance activities on the Zidell consisted of invasive vegetation management and weeding by a landscape contractor. Zidell treated and/or removed butterfly bush, thorn apple, and Himalayan blackberry.

SAMPLING

Zidell did not collect samples in 2023.

OTHER SITE ACTIVITY

The site continues to experience trespassers intermittently camping on the property, resulting in some damage to plants. Zidell continues to monitor the site and contracts for the removal of camps and associated litter.

2024 PLANNED ACTIVITIES

The following activities are planned for 2024:

- Weeding and vegetation maintenance
- Monitoring of bank repair areas
- Monitor for trespassers and campers
- Perform annual site inspection
- Prepare annual summary report

RECOMMENDATION

The upland, riverbank, and sediment cap areas have been capped and the monitoring program effort since 2011 has been carried out to ensure that the caps are established and resilient. Annual site inspections have been an important component of identifying where the more sensitive areas of the engineering controls program needed repair and enhancement. The annual inspection program, as described in Section 6.3 the SMP, allows for the summary reporting frequency to decrease from annual to every 5-years. After confirming that the upper riverbank and upland caps have thoroughly stabilized, and having installed riprap in all sensitive areas of the shoreline up to the ordinary high water mark, MFA recommends reducing the frequency of the summary report to be every 5-years. Zidell and MFA will continue to physically inspect the condition of the sediment cap surface, riverbank, and upland caps on an annual basis and will maintain those inspection summaries, to be made available to DEQ upon request. If, however, damage requiring repair of a cap is required, Zidell will notify DEQ upon discovery of the condition and will describe the schedule for the repair. If the reduction of report frequency is agreed to by DEQ, the next annual summary report will be submitted to DEQ in early 2026 to coincide with the review of site conditions as part of DEQ's 5-year review.

SUMMARY

The bank, sediment, and upland caps are in good condition and have improved from the previous annual inspection. Repair work completed in 2018 and 2022 is stable and well vegetated.

Sincerely,

Maul Foster & Alongi, Inc.



Garrick Kalmeta, PE
Project Engineer



Erik Bakkom, PE
Principal Engineer

Attachments: Limitations
2023 Annual Site Inspection Summary

cc: Kathryn Silva, Zidell Companies
Alan Park, Zidell Companies

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

REFERENCES

MFA. 2013. Bank and sediment remedy Operations, Maintenance, and Monitoring Plan. Zidell waterfront property, Portland, Oregon. Maul Foster & Alongi, Inc., Portland, Oregon. June 12.

MFA. 2018a. Letter (re: environmental management documents, Zidell waterfront property [ECSI No. 689]) to M. Novak, Oregon Department of Environmental Quality, from E. Bakkom, Maul Foster & Alongi, Inc., Portland, Oregon. April 24.

MFA. 2018b. Zidell Upland Site Management Plan. 3121 SW Moody Avenue, ECSI 689. Maul Foster & Alongi, Inc., Portland, Oregon. February 27.

MFA. 2023. Year 12 (2023) Substrate Monitoring Report. ZRZ Realty Company, USACE NWP-2007-962. Maul Foster & Alongi, Inc., Portland, Oregon. December 4.

USACE. 2011. Department of the Army Permit, NWP-2007-96. Portland District. U.S. Army Corps of Engineers: Portland, OR.

ATTACHMENT

2023 ANNUAL SITE INSPECTION SUMMARY





MEMORANDUM

To: Kathryn Silva, ZRZ Realty
Alan Park, ZRZ Realty

Date: February 29, 2024
Project: 8014.01.083

From: Garrick Kalmeta, PE

RE: 2023 Annual Site Inspection Summary

Maul Foster & Alongi, Inc., has prepared this monitoring event memorandum to summarize observations from the October 04, 2023 inspection of the 3121 S Moody Avenue property. This report was prepared according to the requirements of the site Operations, Monitoring, and Maintenance Plan (OMMP)¹ and the Site Management Plan (SMP).²

SUMMARY OF FIELD ACTIVITIES

Visual monitoring was completed for the bank cap, visible (i.e., above water) near-shore sediment cap, and upland caps. The performance criteria described in the OMMP and the SMP were used as a basis for observation and recording. Bank and sediment cap observations are referenced spatially to the bank and sediment cap baseline alignment, and upland cap observations are logged with descriptions of existing site features (see the attached figure). All elevations described in this document refer to the City of Portland vertical datum (COP). Photographs taken to catalog observations and general views of the site are attached to this memorandum.

¹ MFA. 2013. Operations, Monitoring, and Maintenance Plan. Maul Foster & Alongi, Inc., Portland, Oregon, June 12.

² MFA. 2018. Site management plan. Maul Foster & Alongi, Inc., Portland, Oregon, January 31.

OBSERVATION SUMMARY

Details, including site conditions, of this monitoring event are as follows:

Inspectors	Jacob Faust, PE; Garrick Kalmeta, PE
Quarter and Inspection	Annual Site Inspection
Date	Wednesday, October 04, 2023
Time	11:30 a.m.–2:00 p.m.
River Elevation (beginning–end)	1.0–0.6 ft (City of Portland Vertical Datum)
Weather	Overcast, 68° Fahrenheit, wind SW 4–8 mph
NOTES: ft = feet. mph = miles per hour. SE = southeast.	

A photographic log of this inspection event is attached.

Slipway Reach (STA: 0+00 to 3+00)

Greenway Cap

The Greenway Cap in the south slipway is smooth with no visible erosion exceeding performance criteria. Most of the grass is dense, providing approximately 100 percent coverage³.

Slipway Ramp

The ramp area is in good condition. Gravel cover is consistent, with some minor shifting occurring in the lower elevations above the Type C rock armor (elevation above 5 feet COP)⁴. Ground cover vegetation is established in upper elevations, and wood debris is scattered throughout. Sedimentation is visible over the in-water portions of the ramp.

Bank Vegetation

Bank vegetation above elevation 16 feet as well as beneath the barge building is very dense. Overall, vegetative coverage is good.

Bank Condition

The bank is in good condition with no noticeable erosion above the rock armor between elevation 15 and 18 feet.

³ The inspector uses visual observation to qualitatively estimate coverage percentages. No quantitative measurements were taken during this inspection.

⁴ City of Portland Vertical Datum equal to National Geodetic Vertical Datum 29 +1.375 feet, and U.S. Geological Survey Morrison Bridge river gauge +2.1 feet.

Sediment Cap Condition

The sediment cap is in generally good condition. Sediment buildup was observed in the slipway.

South/Middle Bridge Reach (STA: 3+00 to 7+00)

Greenway Cap

The Greenway Cap vegetation is in good condition and provides approximately 90 percent coverage. Recent site activity had resulted in a few spots of bare soil. There was no notable erosion.

Bank Vegetation

Bank vegetation above 16 feet in elevation is very dense and provides good coverage.

Bank Condition

Bank armor is in good condition, with no noticeable erosion.

Sediment Cap Condition

Sediment cap is generally in good condition. Minor pockets of sediment deposition were observed at the toe of the bank where the rock armor intersects gravel and cobble armor around STA 5+00. There was no notable erosion along the south/middle bridge reach.

North Bridge Reach (STA: 7+00 to 11+50)

Greenway Cap

The greenway cap vegetation is in good condition and providing approximately 85 percent coverage. Recent site activity (public events) resulted in a few spots of bare soil, but there was no visible erosion.

Bank Vegetation

Bank vegetation above elevation of 15 feet is very dense.

Bank Condition

No new bank erosion was observed above the top of the rock armor. Rock armor, including 2018 repair areas, appears to be in good shape and stable, with little movement or change compared to the 2022 site inspection.

Sediment Cap Condition

The sediment cap condition is good, with no erosion or elevation changes observed.

Downstream Reach (STA: 11+50 to 27+00)

Greenway Cap

Grass growth is good over most of the greenway cap. The overall condition has improved compared to the 2022 inspection.

Bank Vegetation

Vegetation coverage is dense above elevation of 10 feet in most areas. A human started fire has caused damage to vegetation in the bank area underneath the Tilikum Crossing bridge envelope. The 2022 repair areas are revegetating through the newly placed rock armor. The majority of live stakes planted in 2022 are growing, though some appear to have been pulled as a result of human activity. Overall, vegetative coverage is good.

Bank Condition

The bank appears to be in good condition, with armor from both 2018 and 2022 repairs having stabilized the riverbank. Vegetation is well established along the 2018 repair areas, while vegetation is beginning to establish in the 2022 repair areas. Habitat gravel on the repair areas appears to have remained in place.

Sediment Cap Condition

The sediment cap condition appears consistent with the previous inspection, with no notable changes. Sedimentation continues to be evident over the shallow portions of the cap beneath the Tilikum Crossing.

Upland Cap Observations

The upland gravel cap north of the Ross Island Bridge appears in good condition. No changes to the asphalt cap were observed to the south of the Ross Island Bridge. A possible leak from the city water works main on the Ross Island Bridge has created a constant puddle located below the south side of the bridge. Equipment and materials were removed from the operational areas following closure of barge building operations. The building's interior is secured and was not accessible during the inspection.

Other Observations

The stormwater infiltration facility has dense growth along its slopes and bottom.

A higher homeless population along the downstream reach of the cap has led to more human activity and damage, including encampments, presence of debris, damage to plants, and fire damage to the bank in an area located below the Tilikum Crossing.

RECOMMENDATIONS

MFA recommends the following for cap maintenance and monitoring:

- Repair and replace burned coir matting as needed.

Attachments: Limitations
Figure
Photographic Log

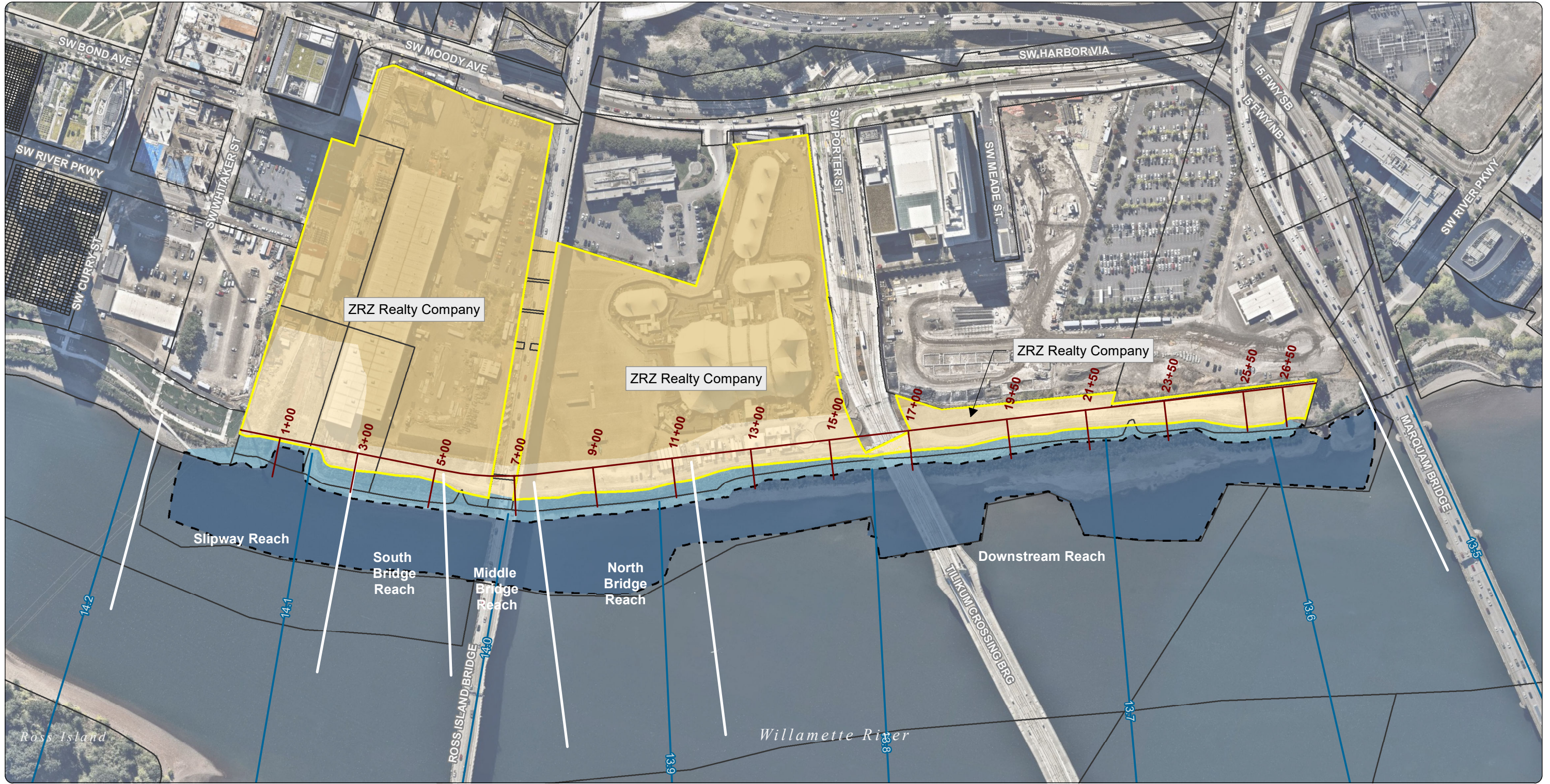
LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

FIGURE





Source: Aerial photograph obtained from Mapbox;
property boundary obtained from
survey (2011) conducted by Olson Engineering;
river miles are based on the FEMA Current
Effective Model.

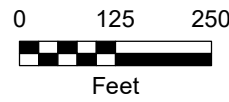


This product is for informational purposes and may not have been prepared for, or be suitable
for legal, engineering, or surveying purposes. Users of this information should review or
consult the primary data and information sources to ascertain the usability of the information.

Legend

- Sediment Cap Area
- Greenway Bank Area
- Greenway Upland Area
- Non-Greenway Upland Area
- Cap Boundary
- Monitoring Station
- River Mile
- Tax Lot Boundary
- ZRZ Realty Company Property Boundary

Figure
Site Features
ZRZ Realty Company
Portland, Oregon



PHOTOGRAPHIC LOG





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 1.

Description

STA 0+00: Top of bank looking east.



Photo No. 2.

Description

STA 0+00: Top of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 3.

Description

STA 0+00: Top of bank looking south.



Photo No. 4.

Description

STA 0+00: Top of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 5.

Description

STA 0+00: Top of rock armor looking east.



Photo No. 6.

Description

STA 0+00: Top of rock armor looking west.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 7.

Description

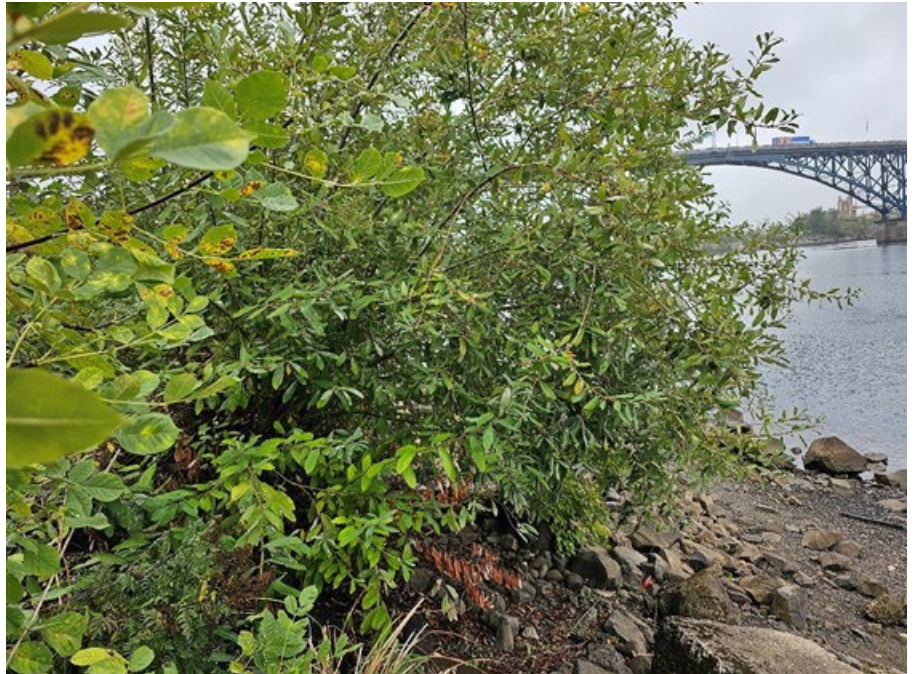
STA 0+00: Top of rock armor looking south.



Photo No. 8.

Description

STA 0+00: Top of rock armor looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 9.

Description

STA 0+00: Toe of bank looking east.



Photo No. 10.

Description

STA 0+00: Toe of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 11.

Description

STA 0+00: Toe of bank looking south.



Photo No. 12.

Description

STA 0+00: Toe of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 13.

Description

STA 0+00: Edge of water looking east.



Photo No. 14.

Description

STA 0+00: Edge of water looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 15.

Description

STA 0+00: Edge of water looking south.



Photo No. 16.

Description

STA 0+00: Edge of water looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 17.

Description

STA 0+25: Top of bank looking east.



Photo No. 18.

Description

STA 0+25: Top of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 19.

Description

STA 0+25: Top of bank looking south.



Photo No. 20.

Description

STA 0+25: Top of bank looking north.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 21.

Description

STA 0+25: Top of rock armor looking east.



Photo No. 22.

Description

STA 0+25: Top of rock armor looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 23.

Description

STA 0+25: Top of rock armor looking south.



Photo No. 24.

Description

STA 0+25: Top of rock armor looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 25.

Description

STA 0+25: Toe of bank looking east.



Photo No. 26.

Description

STA 0+25: Toe of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 27.

Description

STA 0+25: Toe of bank looking south.



Photo No. 28.

Description

STA 0+25: Toe of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 29.

Description

STA 0+25: Edge of water looking east.



Photo No. 30.

Description

STA 0+25: Edge of water looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 31.

Description

STA 0+25: Edge of water looking south.



Photo No. 32.

Description

STA 0+25: Edge of water looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 33.

Description

Slipway: North edge looking west.



Photo No. 34.

Description

Slipway: Looking north at east end of structure.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 35.

Description

Middle of slipway looking east.



Photo No. 36.

Description

Middle of slipway looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 37.

Description

Middle of slipway looking south.



Photo No. 38.

Description

Middle of slipway looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 39.

Description

Slipway: Edge of water looking east.



Photo No. 40.

Description

Slipway: Edge of water looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 41.

Description

Slipway: Edge of water looking south.



Photo No. 42.

Description

Slipway: Edge of water looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 43.

Description

STA 3+00: Top of bank looking east.



Photo No. 44.

Description

STA 3+00: Top of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 45.

Description

STA 3+00: Top of bank looking south.



Photo No. 46.

Description

STA 3+00: Top of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 47.

Description

STA 3+00: Top of rock armor looking east.



Photo No. 48.

STA 3+00: Top of rock armor looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 49.

Description

STA 3+00: Top of rock armor looking south



Photo No. 50.

Description

STA 3+00: Top of rock armor looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 51.

Description

STA 3+00: Toe of bank looking east.



Photo No. 52.

Description

STA 3+00: Toe of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 53.

Description

STA 3+00: Toe of bank looking south.



Photo No. 54.

Description

STA 3+00: Toe of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 55.

Description

STA 5+00: Top of bank looking east.



Photo No. 56.

Description

STA 5+00: Top of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 57.

Description

STA 5+00: Top of bank looking south.



Photo No. 58.

Description

STA 5+00: Top of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 59.

Description

STA 5+00: Top of rock armor looking east.



Photo No. 60.

Description

STA 5+00: Top of rock armor looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 61.

Description

STA 5+00: Top of rock armor looking south.



Photo No. 62.

Description

STA 5+00: Top of rock armor looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 63.

Description

STA 5+00: Toe of bank looking east.



Photo No. 64.

Description

STA 5+00: Toe of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 65.

Description

STA 5+00: Toe of bank looking south.



Photo No. 66.

Description

STA 5+00: Toe of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 67.

Description

STA 5+00: Edge of water looking east.



Photo No. 68.

Description

STA 5+00: Edge of water looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 69.

Description

STA 5+00: Edge of water looking south.



Photo No. 70.

Description

STA 5+00: Edge of water looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 71.

Description

STA 7+00: Top of bank looking east.



Photo No. 72.

Description

STA 7+00: Top of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 73.

Description

STA 7+00: Top of bank looking south.



Photo No. 74.

Description

STA 7+00: Top of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 75.

Description

STA 7+00: Top of rock armor looking east.



Photo No. 76.

Description

STA 7+00: Top of rock armor looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 77.

Description

STA 7+00: Top of rock armor looking south.



Photo No. 78.

Description

STA 7+00: Top of rock armor looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 79.

Description

STA 7+00: Toe of bank looking east.



Photo No. 80.

Description

STA 7+00: Toe of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 81.

Description

STA 7+00: Toe of bank looking south.



Photo No. 82.

Description

STA 7+00: Top of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 83.

Description

STA 7+00: Edge of water looking east.



Photo No. 84.

Description

STA 7+00: Edge of water looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 85.

Description

STA 7+00: Edge of water looking south.



Photo No. 86.

Description

STA 7+00: Edge of water looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 87.

Description

STA 9+00: Top of bank looking east.



Photo No. 88.

Description

STA 9+00: Top of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 89.

Description

STA 9+00: Top of bank looking south.



Photo No. 90.

Description

STA 9+00: Top of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 91.

Description

STA 9+00: Top of rock armor looking east.



Photo No. 92.

Description

STA 9+00: Top of rock armor looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 93.

Description

STA 9+00: Top of rock armor looking south.



Photo No. 94.

Description

STA 9+00: Top of rock armor looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 95.

Description

STA 9+00: Toe of bank looking east.



Photo No. 96.

Description

STA 9+00: Toe of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 97.

Description

STA 9+00: Toe of bank looking south.



Photo No. 98.

Description

STA 9+00: Toe of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 99.

Description

STA 9+00: Edge of water looking east.



Photo No. 100.

Description

STA 9+00: Edge of water looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 101.

Description

STA 9+00: Edge of water looking south.



Photo No. 102.

STA 9+00: Edge of water looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 103.

Description

STA 11+00: Top of bank looking east.



Photo No. 104.

Description

STA 11+00: Top of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 105.

Description

STA 11+00: Top of bank looking south.



Photo No. 106.

Description

STA 11+00: Top of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 107.

Description

STA 11+00: Top of rock armor looking east.



Photo No. 108.

Description

STA 11+00: Top of rock armor looking west.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 109.

Description

STA 11+00: Top of rock armor looking south.



Photo No. 110.

Description

STA 11+00: Top of rock armor looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 111.

Description

STA 11+00: Toe of bank looking east.



Photo No. 112.

Description

STA 11+00: Toe of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 113.

Description

STA 11+00: Toe of bank looking south.



Photo No. 114.

Description

STA 11+00: Toe of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 115.

Description

STA 11+00: Edge of water looking east.



Photo No. 116.

Description

STA 11+00: Edge of water looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 117.

Description

STA 11+00: Edge of water looking south.



Photo No. 118.

Description

STA 11+00: Edge of water looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 119.

Description

STA 13+00: Top of bank looking east.



Photo No. 120.

Description

STA 13+00: Top of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 121.

Description

STA 13+00: Top of bank looking south.



Photo No. 122.

Description

STA 13+00: Top of bank looking north.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 123.

Description

STA 13+00: Top of rock armor looking east.



Photo No. 124.

Description

STA 13+00: Top of rock armor looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 125.

Description

STA 13+00: Top of rock armor looking south.



Photo No. 126.

Description

STA 13+00: Top of rock armor looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 127.

Description

STA 13+00: Toe of bank looking east.



Photo No. 128.

Description

STA 13+00: Toe of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 129.

Description

STA 13+00: Toe of bank looking south.



Photo No. 130.

Description

STA 13+00: Toe of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 131.

Description

STA 13+00: Edge of water looking east.



Photo No. 132.

Description

STA 13+00: Edge of water looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 133.

Description

STA 13+00: Edge of water looking south.



Photo No. 134.

Description

STA 13+00: Edge of water looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 135.

Description

STA 15+00: Top of bank looking east.



Photo No. 136.

Description

STA 15+00: Top of bank looking west.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 137.

Description

STA 15+00: Top of bank looking south.



Photo No. 138.

Description

STA 15+00: Top of bank looking north.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 139.

Description

STA 15+00: Toe of bank looking east.



Photo No. 140.

Description

STA 15+00: Toe of bank looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 141.

Description

STA 15+00: Toe of bank looking south.



Photo No. 142.

Description

STA 15+00: Toe of bank looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 143.

Description

STA 15+00: Edge of water looking east.



Photo No. 144.

Description

STA 15+00: Edge of water looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 145.

Description

STA 15+00: Edge of water looking south.



Photo No. 146.

Description

STA 15+00: Edge of water looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 147.

Description

STA 17+00: Burnt erosion control mat beneath the Tilikum Crossing bridge deck. Soil is stable.



Photo No. 148.

Description

STA 17+00: Top of bank looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 149.

Description

STA 17+00: Top of bank looking south.



Photo No. 150.

Description

STA 17+00: Top of bank looking north.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 151.

Description

STA 17+00: Burnt brush located beneath Tilikum Crossing. Surface soil is protected by bridge deck.



Photo No. 152.

Description

STA 17+00: Top of rock armor looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 153.

Description

STA 17+00: Top of rock armor looking west towards burnt area.



Photo No. 154.

Description

STA 17+00: Toe of bank looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 155.

Description

STA 17+00: Toe of bank looking west.



Photo No. 156.

Description

STA 17+00: Toe of bank looking south.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 157.

Description

STA 17+00: Toe of bank looking north.



Photo No. 158.

Description

STA 17+00: Edge of water looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 159.

Description

STA 17+00: Edge of water looking west.



Photo No. 160.

Description

STA 17+00: Edge of water looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 161.

Description

STA 17+00: Edge of water looking north.



Photo No. 162.

Description

STA 19+50: Top of bank looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 163.

Description

STA 19+50: Top of bank looking west.



Photo No. 164.

Description

STA 19+50: Top of bank looking south.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 165.

Description

STA 19+50: Top of bank looking north.



Photo No. 166.

Description

STA 19+50: Top of rock armor looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 167.

Description

STA 19+50: Top of rock armor looking west.



Photo No. 168.

Description

STA 19+50: Top of rock armor looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 169.

Description

STA 19+50: Top of bank armor looking north.



Photo No. 170.

Description

STA 19+50: Toe of bank looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 171.

Description

STA 19+50: Toe of bank looking west.



Photo No. 172.

Description

STA 19+50: Toe of bank looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 173.

Description

STA 19+50: Toe of bank looking north.



Photo No. 174.

Description

STA 19+50: Edge of water looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 175.

Description

19+50: Edge of water looking west.



Photo No. 176.

Description

STA 19+50: Edge of water looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 177.

Description

STA 19+50: Edge of water looking north.



Photo No. 178.

Description

STA 21+50: Top of bank looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 179.

Description

STA 21+50: Top of bank looking west.



Photo No. 180.

Description

STA 21+50: Top of bank looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 181.

Description

STA 21+50: Top of bank looking north.



Photo No. 182.

Description

STA 21+50: Top of rock armor looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 183.

Description

STA 21+50: Top of rock armor looking west.



Photo No. 184.

Description

STA 21+50: Top of rock armor looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 185.

Description

STA 21+50: Top of rock armor looking north.



Photo No. 186.

Description

STA 21+50: Toe of bank looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 187.

Description

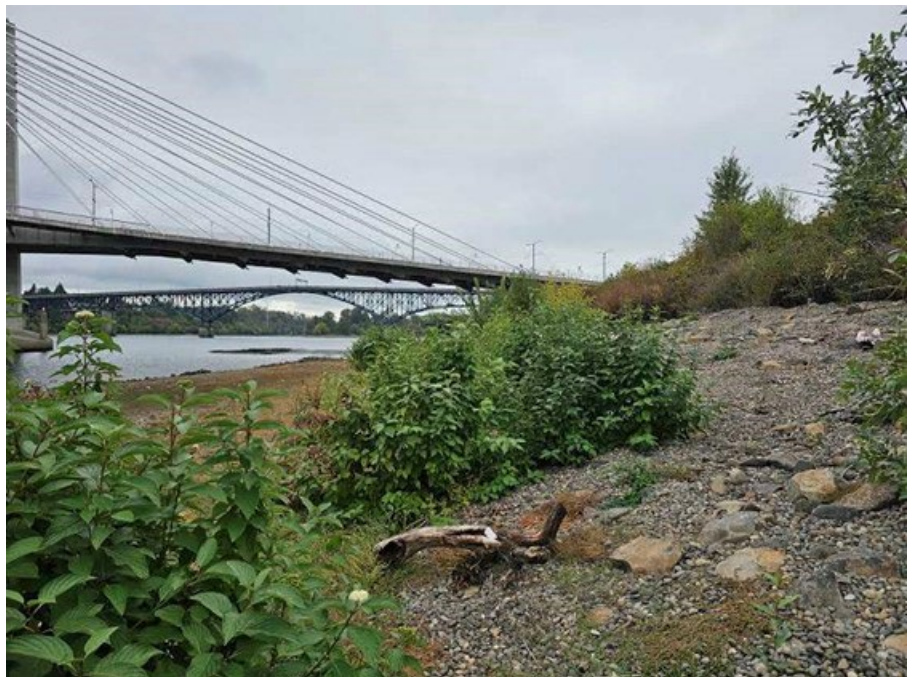
STA 21+50: Toe of bank looking west.



Photo No. 188.

Description

STA 21+50: Toe of bank looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 189.

Description

STA 21+50: Toe of bank looking north.



Photo No. 190.

Description

STA 21+50: Edge of water looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 191.

Description

STA 21+50: Edge of water looking west.



Photo No. 192.

Description

STA 21+50: Edge of water looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 193.

Description

STA 21+50: Edge of water looking north.



Photo No. 194.

Description

STA 23+50: Top of bank looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 195.

Description

STA 23+50: Top of bank looking west.



Photo No. 196.

Description

STA 23+50: Top of bank looking south.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 197.

Description

STA 23+50: Top of bank looking north.



Photo No. 198.

Description

Top of rock armor looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 199.

Description

STA 23+50: Top of rock armor looking west.



Photo No. 200.

Description

STA 23+50: Top of rock armor looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 201.

Description

STA 23+50: Top of rock armor looking north.



Photo No. 202.

Description

STA 23+50: Toe of bank looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 203.

Description

STA 23+50: Toe of bank looking west.



Photo No. 204.

Description

STA 23+50: Toe of bank looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 205.

Description

STA 23+50: Toe of bank looking north.



Photo No. 206.

Description

STA 23+50: Edge of water looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 207.

Description

STA 23+50: Edge of water looking west.



Photo No. 208.

Description

STA 23+50: Edge of water looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 209.

Description

STA 23+50: Edge of water looking north.



Photo No. 210.

Description

STA 25+50: Top of bank looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 211.

Description

STA 25+50: Top of bank looking west.



Photo No. 212.

Description

STA 25+50: Top of bank looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 213.

Description

STA 25+50: Top of bank looking north.



Photo No. 214.

Description

STA 25+50: Top of rock armor looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 215.

Description

STA 25+50: Top of rock armor looking west.



Photo No. 216.

Description

STA 25+50: Top of rock armor looking south.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 217.

Description

STA 25+50: Top of rock armor looking north.



Photo No. 218.

Description

STA 25+50: Toe of bank looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 219.

Description

STA 25+50: Toe of bank looking west.



Photo No. 220.

Description

STA 25+50: Toe of bank looking south.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 221.

Description

STA 25+50: Toe of bank looking north.



Photo No. 222.

Description

STA 25+50: Edge of water looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 223.

Description

STA 25+50: Edge of water looking west.



Photo No. 224.

Description

STA 25+50: Edge of water looking south.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 225.

Description

STA 25+50: Edge of water looking north.



Photo No. 226.

Description

Northern edge of the upland cap, located just south of the Tilikum Crossing, looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 227.

Description

Northern edge of the upland cap, located just south of the Tilikum Crossing, looking southeast.



Photo No. 228.

Description

Northern edge of the upland cap, located just south of the Tilikum Crossing, looking south.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 229.

Description

Northern edge of the upland cap, located just south of the Tilikum Crossing, looking west.



Photo No. 230.

Description

Northwest corner of the upland cap, located just south of the Tilikum Crossing, looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 231.

Description

Northwest corner of the upland cap, located just south of the Tilikum Crossing, looking southeast.



Photo No. 232.

Description

Northern edge of the upland cap, located just south of the Tilikum Crossing, looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 233.

Description

Western edge of the upland cap, looking north.



Photo No. 234.

Description

Western edge of the upland cap, looking northeast.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 235.

Description

Western edge of the upland cap, looking east.



Photo No. 236.

Description

Northern edge of the upland cap, located just south of the Tilikum Crossing, looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 237.

Description

Northwest entrance of the upland cap, looking west.



Photo No. 238.

Description

Northwest entrance of the upland cap, looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 239.

Description

Northwest entrance of the upland cap, looking northeast.



Photo No. 240.

Description

Northwest entrance of the upland cap, looking east.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 241.

Northwest entrance of the upland cap, looking southeast.



Photo No. 242.

Description

Western edge of the upland cap, located beneath the Sellwood Bridge, looking northwest.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 243.

Description

Western edge of the upland cap, located below the Sellwood Bridge, looking east.



Photo No. 244.

Description

Standing water beneath the Sellwood Bridge, looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 245.

Description

View of the old storm treatment pond, looking southwest.



Photo No. 246.

Description

Puddle from suspected water works pipe leak at Ross Island Bridge, looking east.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 247.

Description

Closeup view of the old storm treatment pond looking southwest.



Photo No. 248.

Description

The southern section of the upland cap, looking southwest.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 249.

Description

The southern section of the upland cap, looking southeast.



Photo No. 250.

Description

A view from the southern section of the upland cap, looking north.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 251.

Description

A view from the southern section of the upland cap, looking northwest.



Photo No. 252.

Description

A view from the southern section of the upland cap, looking west.





Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 253.

Description

Southwest corner of the upland cap, looking southwest.



Photo No. 254.

Description

Southwest corner of the upland cap, looking northwest.



Photographs

Project Name: 2023 Annual Site Inspection Summary—Zidell Waterfront
Project Number: M8014.01.083
Location: Zidell, Portland, OR

Photo No. 255.

Description

Southwest corner of the upland cap, looking northeast.



Photo No. 256.

Description

Southwest corner of the upland cap, looking northeast.

