

LAKE RIVER CONSTRUCTION COMPLETION REPORT

LAKE RIVER REMEDIAL ACTION

*The material and data in this report were prepared
under the supervision and direction of the undersigned.*

MAUL FOSTER & ALONGI, INC.

EXCERPT FROM MAIN REPORT: APPENDIX C: PHOTO ARRAY OF CONSTRUCTION

10.01.2018

*Joshua Elliott, PE
Senior Engineer*



*Phil Wiescher, PhD
Senior Environmental Scientist*

APPENDIX C

CONSTRUCTION PROGRESS PHOTO ARRAY





Vegetation removal on northern boundary shoreline using excavator.



Excavator loading vegetation removed from the shoreline to the track truck, which transfers it to the MHA.



Using chainsaw to cut vegetation to grade along shoreline.



Removing vegetation along shoreline south of Division Street.



Debris removal along shoreline south of Division Street.



Vegetation and debris removal on shoreline south of Division St.



Limited vegetation removal near Division St.



Assembling Water Treatment Equipment in MHA



Assembling the water treatment system in the MHA.



Setting up water treatment system in MHA.



Pumping MHA stormwater into holding tank from 10/15/14 rainfall event.



Constructing pathway for pipeline in MHA.



Building stormwater extension north of Division St.



Treated dredge water discharged back to Lake River.



Boating across the site for turbidity monitoring.



Straw mulch south of Division St.



Water treatment setup in MHA.



Dredge barge and pipeline



Pumping stormwater accumulated in the MHA to treatment system.



Dredging in shallow water.



Diesel-powered centrifugal pump.



Sand placement and dredging near transload operation.



Dredging in shallow water.



Dredging near transload operation.



Young's Bucket picking up sand from a materials barge.



In-water ENR Sand Placement



In-water ENR Sand Placement



Crane operator grabbing sand.



In-water ENR Sand Placement



Fish Mix Placement from in-water.



Fish Mix Placement on filter fabric.



Fish Mix Placement on filter fabric.



Long reach excavator grading fish mix.



In-water equipment for pile removal and dredging.



Excavator grading fish mix in water.



Over water crane placing fish mix in water.



Remaining material at MHA.



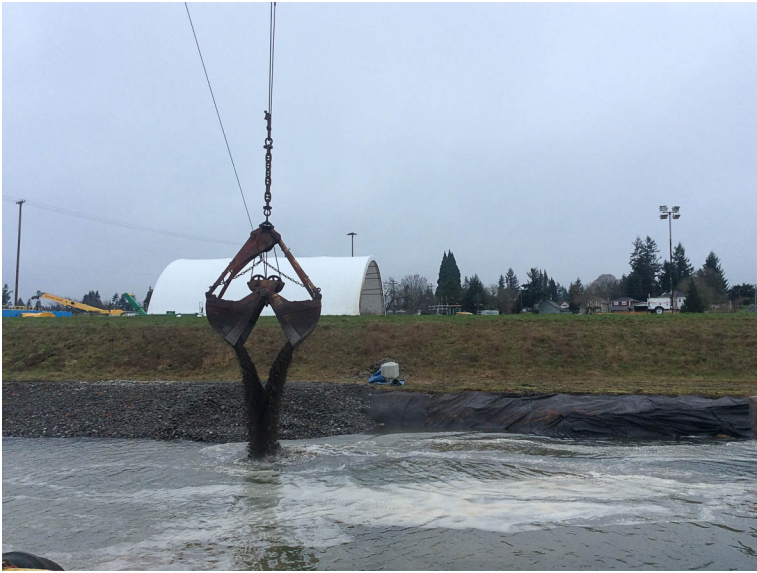
View of MHA and dredge barge.



In-water ENR Sand Placement with Young's Bucket.



In-water ENR Sand Placement



In-water ENR Sand Placement



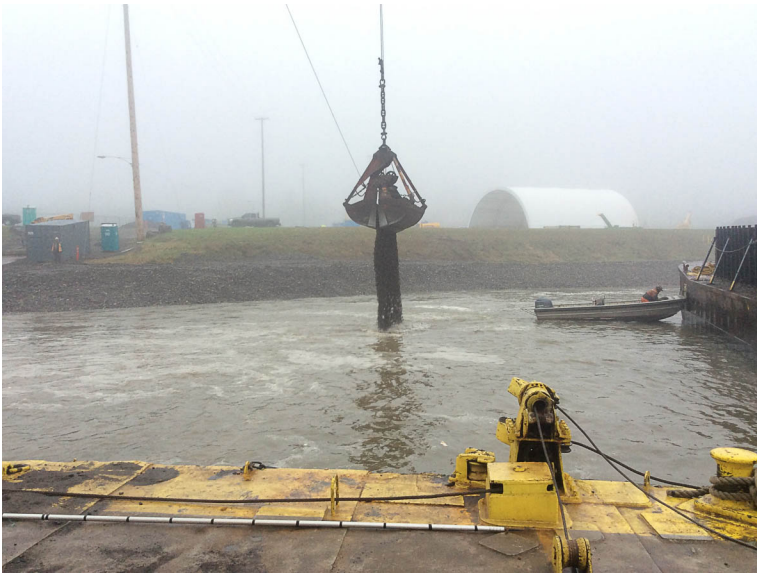
ENR sand placement near Division Street.



In-water ENR Sand Placement next to dock.



ENR sand placement between Division Street and Mill Street.



ENR sand placement below power lines.



In-water ENR Sand Placement



Laying out filter fabric before fish mix placement.



Fish mix and excavator placed in off loading facility.



Fish mix placement near marina.



Fish mix placement north of Division St.



Upstream Fish Mix Placement.



Fish Mix Placement in low spots downstream.



Grading fish mix along shoreline south of Division Street.



Rock removed from MHA exit.



MFA and DMS discussing fish mix placement in archaeological area.



Fish Mix Grading at kayak launch



Fish Mix Placement in water at kayak launch.



Fish mix rock along shoreline near pump house.



Fish mix rock along shoreline north of Division St.



Fish mix rock looking north from Port marina day dock.



Survey of Fish Mix Placement near kayak launch.



Demobilization of materials in MHA.



Long reach excavator grading rock at the kayak launch.



Demobilization of crane mats and piping.



DMS decontaminating the tent.



Clean soil cap placement.



Dismantling tent structure within MHA.



Clean soil cap placement.



Clean soil cap placement progress.



Lake River hydroseeding.



Lake River hydroseeding.



Lake River hydroseeding.



Lake River planting grove #1.



Lake River planting grove #3.



Lake River planting grove #2.



Lake River planting.