

Feb/March 2018



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# VALDEZ NEW BOAT HARBOR

## CONSTRUCTION

**Phase 2 Uplands Facilities and Inner Harbor Facilities** - Phase 2 contractor, Pacific Pile & Marine (PPM) and subcontractors, continued providing submittals and shop drawings for the R&M design team to review. No uplands facilities site work was performed since December 2017.

The barge with PPM's dredging equipment arrived at the new boat basin on March 26th. The heavy equipment, driven off the barge via ramps to the NW corner of the uplands, consisted of two EX1200 and one EX870 excavators with large rock breaking and dredging attachments, two rubber-tired loaders, one small crawler dozer, one 48-foot tug, and one small survey boat. A crawler crane on the barge assisted with setting anchors in the boat basin and placing the ramps for offloading equipment, and subsequently setting the Flexi-float barge modules into the water for assembly and placement of anchoring spuds. The EX1200 with a long boom and clamshell bucket was driven over ramps onto the Flexi-Float barge.

The tug traveled to Seward and returned with the bottom dump barge "Mud Dog" that will be used for disposing dredged material at the offshore site designated by the Corps of Engineers. On March 30th, the tug departed Valdez to Seattle towing the equipment barge and crawler crane. The Contractor installed a "cattleguard" feature in the West Access to South Harbor Drive. On March 31st, the contractor started hauling shot rock from the Sea Otter parcel to begin the construction of temporary access to the West bedrock area.

## PROJECT ACHIEVEMENTS

- Continued fabrication of mooring float and drive-down float components at Seattle area shops
- Inspected mooring and drive-down float sections fabricated at Seattle area shops
- Received PPM's construction updates of the project baseline schedule
- Mobilized and towed dredging equipment from Seattle to Valdez harbor site
- Started constructing temporary access to the West bedrock area



Dredging equipment barge, Flexi-Float barge and tug anchored inside the new basin

## FEB/MARCH 2018 PROJECT UPDATE (CONT.)

### DESIGN

Phase 2 is a single contract package consisting of Uplands Facilities (warehouse building, east restroom, bilge treatment facility, paving and landscaping) and Inner Harbor components (removal of in-water rock, piling, floats, pedestrian ramps, drive-down bridge and float). R&M continued reviewing material and shop drawing submittals, responding to Requests for Information (RFIs) and clarifications of construction documents, and performed an inspection of floats being fabricated and staged in the Seattle area for subsequent delivery by barge to Valdez.

### USACE NAVIGATION IMPROVEMENTS

The USACE is administering the Western Marine Construction (WMC) contract for dredging the navigation channel and float basin and construction of the breakwaters. The USACE notified the City that the dredging and breakwater work has been accepted, the dredge and rock quantities have been reconciled, and the USACE is working toward fiscal closeout of their contract with WMC. It appears to the City, R&M and Arcadis that the hydrographic survey data indicates there might be some high spots along the toe of the breakwaters at the entrance and maneuvering channel inside the entrance. Arcadis is coordinating with the USACE for a meeting to resolve this and several related items. The USACE has provided updated financial information and Arcadis continues to coordinate closeout of the USACE contract with the City.

### FUTURE MILESTONES

- Perform pre-dredge marine and uplands survey for R&M to review and approve
- Calibrate and test the large impact hammer and Xcentric® ripper
- Start rock breaking and dredging at the West basin area
- Install Sediment Containment Berm between Duck Flats and drive-down float basin
- Erect Warehouse Building structural steel and install roofing
- Resume Bilge Treatment Building mechanical, electrical and finish work
- Resolve questions with USACE about potential high spots inside the basin entrance
- Closeout City's contract with USACE for the dredging and breakwater work
- Evaluate response to Fuel Facility Request for Proposals



Flexi-Float barge modules and spuds were off-loaded and assembled next to the equipment barge

### PROJECT TEAM

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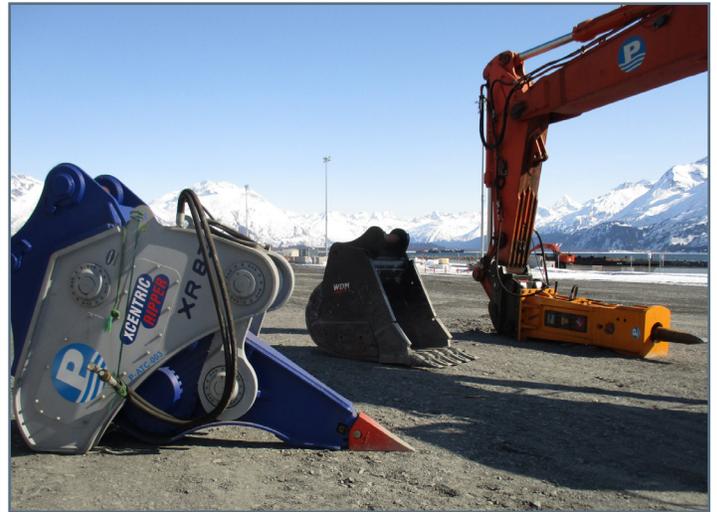
Tug moves barge with dredging equipment to uplands ramp area



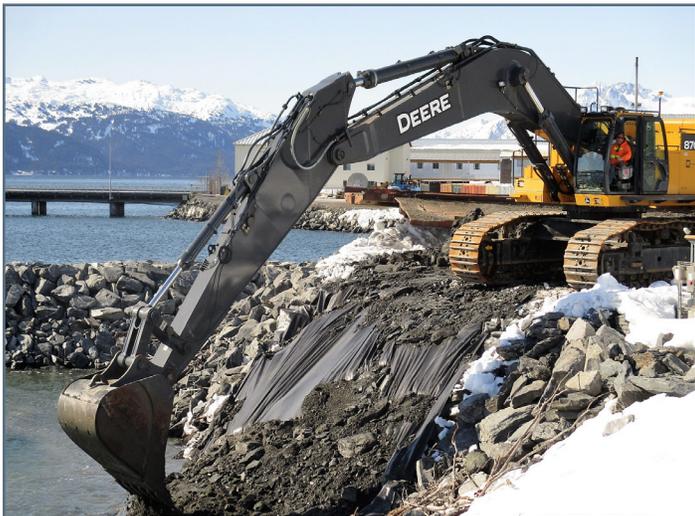
EX1200-5 excavator with Xcentric ripper crossing off-loading ramps



EX1200-6 long-boom excavator with dredging clamshell bucket



Xcentric ripper, heavy duty bucket and impact breaker have disconnect attachment for use with EX1200-5 excavator



EX 870 placing rock on fabric over riprap for temporary ramp to access the bedrock along north side of mooring basin



Backing down ramp with rock fill for temporary access road

# PROJECT SCHEDULE

Task	2016	2017				2018				2019			
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>CITY OF VALDEZ WORK</b>													
<b>Phase 1 Uplands</b> (Civil work except paving)	■												
<b>Phase 2 *</b>													***
<b>Design/Bid/Award/NTP</b>	■	■	■										
<b>Mooring Floats</b>													
Fabrication/Delivery			■	■	■	■	■	■	■				
On-site Construction							■	■	■	■	■	■	■
<b>Drive Down Float</b>													
Fabrication/Delivery			■	■	■	■	■	■	■	■	■	■	■
On-site Construction								■	■	■	■	■	■
<b>In-water Rock Removal</b>													
West Rock							■	■	■	■	■	■	■
East Rock							■	■	■	■	■	■	■
<b>Uplands Facilities</b> (Warehouse, East Restroom, Bilge Water Bldg.)													
Fabrication/Delivery			■	■	■	■	■	■	■	■	■	■	■
On-site Construction				■	■	■	■	■	■	■	■	■	■
Paving/Landscaping								■	■	■	■	■	■
<b>Master Waterfront Plan</b> (To be determined)													
<b>Phase 3 Future Facilities</b> (To be determined with Master Plan)													
Launch Ramp, Fish Cleaning Station, Wash-Down Pad, W. Restroom													
<b>CORPS OF ENGINEERS (USACE) WORK</b>													
<b>Harbor Dredging and Breakwater Construction**</b>	■		■	■	■								

\* Solid lines show PPM's updated schedule (Uplands Facilities adjusted by Arcadis for Warehouse steel delay). Dotted lines are Contract defined schedule.  
 \*\* WMC finished dredging and breakwater; contract closeout continues. \*\*\* Contract requires Phase 2 work to be completed by October 1, 2019

# BUDGET SUMMARY

Description	Original Budget	Revised Budget	Committed	Spent as of 2/28/18	% Spent	Estimate at Completion
<b>DESIGN</b>	\$ 2,451,971	\$ 3,659,047	\$ 3,659,047	\$ 2,897,327	79%	\$ 3,683,509
Design	\$ 1,851,971	\$ 2,215,983	\$ 2,215,983	\$ 2,231,917	101%	\$ 2,240,445
Design Team Services During Construction	\$ 600,000	\$ 1,443,064	\$ 1,443,064	\$ 665,410	46%	\$ 1,443,064
<b>PROJECT MANAGEMENT</b>	\$ 2,340,548	\$ 2,922,518	\$ 2,922,518	\$ 2,296,124	79%	\$ 2,919,405
Project Management	\$ 1,740,548	\$ 2,547,868	\$ 2,547,868	\$ 1,924,587	76%	\$ 2,547,868
Inspection/Testing	\$ 600,000	\$ 374,650	\$ 374,650	\$ 371,537	99%	\$ 371,537
<b>USACE CONSTRUCTION - CITY PORTION</b>	\$ 9,345,453	\$ 7,645,453	\$ 7,525,453	\$ 5,141,258	67%	\$ 7,525,453
Initial Basin	\$ 7,145,453	\$ 7,145,453	\$ 7,145,453	\$ 4,761,258	67%	\$ 7,145,453
Other Basin Modifications	\$ 2,200,000	\$ 500,000	\$ 380,000	\$ 380,000	76%	\$ 380,000
<b>CITY CONSTRUCTION</b>	\$ 39,023,904	\$ 44,600,271	\$ 44,523,105	\$ 25,641,092	57%	\$ 44,594,334
Phase 1 Uplands	\$ 19,013,040	\$ 19,191,437	\$ 19,191,437	\$ 19,191,437	100%	\$ 19,191,437
Phase 2 Base/Drivedown Floats, Uplands Fac.	\$ 8,976,100	\$ 24,952,355	\$ 24,952,355	\$ 6,137,343	25%	\$ 24,946,418
Upland Facilities (with Phase 2)	\$ 4,046,643	\$ -	\$ -	\$ -	0%	\$ -
Drive Down Float (with Phase 2)	\$ 4,951,721	\$ -	\$ -	\$ -	0%	\$ -
Drive-Down Float In-water Mods (with Phase 2)	\$ 1,342,500	\$ -	\$ -	\$ -	0%	\$ -
Hotel Hill Clearing	\$ 64,900	\$ 64,900	\$ 64,900	\$ 64,900	100%	\$ 64,900
Fish Cleaning	\$ 324,000	\$ -	\$ -	\$ -	0%	\$ -
Electric Primary	\$ 225,000	\$ 311,579	\$ 311,579	\$ 247,412	79%	\$ 311,579
CCTV/Security/Head End Equipment	\$ 80,000	\$ 80,000	\$ 2,834	\$ -	0%	\$ 80,000
<b>ADMINISTRATION</b>	\$ 60,000	\$ 100,000	\$ 99,245	\$ 88,405	88%	\$ 100,000
<b>FFE</b>	\$ 100,000	\$ 100,000	\$ -	\$ -	0%	\$ 100,000
<b>CONTINGENCY (@ 15% original budget)</b>	\$ 7,998,281	\$ 2,292,868				\$ 2,397,456
<b>TOTAL CITY FUNDED</b>	\$ 61,320,158	\$ 61,320,158	\$ 58,729,368	\$ 36,064,206	59%	\$ 61,320,158
<b>USACE FUNDED**</b>	\$ 21,277,761	\$ 21,277,761	\$ 21,277,761	\$ 19,992,705	94%	\$ 21,277,761
<b>TOTAL CITY/USACE FUNDING</b>	\$ 82,597,919	\$ 82,597,919	\$ 80,007,129	\$ 56,056,912	68%	\$ 82,597,919

\* Data includes expenses from 5/22/14 which is the start of Bond eligible costs authorized by COV Resolution 14-33. \$254,321.77 in R&M expenses and other costs are not included.  
 \*\* Reconciliation with USACE is in process; updates are anticipated.