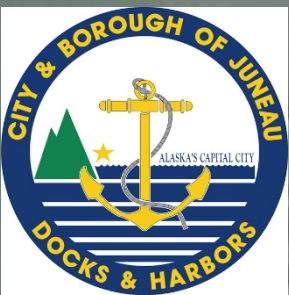


Amalga Harbor Improvements

CBJ Docks and Harbors Board - 5:00 pm
Thursday, May 30, 2019
CBJ Assembly Chambers



ENGINEERS, INC.



Project Purpose

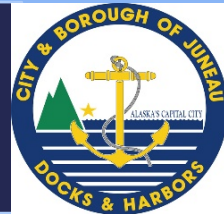
- The purpose of this project is to address the recreational boating needs of the community by improving safety and efficiency of the existing boat launch facility through installation of fish cleaning stations and Private Aids to Navigation (PATON) at Amalga Harbor.

Introduction

Project Team Roles and Responsibilities

Owner

Carl Uchytel, Port Director
Gary Gillette, Port Engineer
Erich Schaal, Deputy Port Engineer



Design Engineers

Dick Somerville, Project Manager
Brandon Ivanowicz, Design Engineer
Bre Lambert, Design/Environmental Engineer



Funding Agency





Tonight's Presentation Agenda & Objectives

- Project Scope, Purpose & Goals
- Project Status to Date
- Best Management Practices (BMP's) and Environmental Permit Requirements for Fish Waste Disposal
- Offsite, Offshore, In-Harbor & Upland Fish Waste Disposal Options
- Private Aid to Navigation (PATON)
- Review Public Comments Received
- Next Steps



Project Scope, Purpose & Goals

- Decrease congestion and boat launch & retrieval wait times, increase safety and efficiency at boarding float
 - Eliminate impact of fish cleaning on boat launching - float is too short to support both simultaneously (**worst congestion at low tide**)
- Provide amenities for fish cleaning that meet Best Management Practice (BMP) guidelines – **provide additional cleaning tables**
- Provide Private Aid to Navigation (PATON) - **identify rock outcropping hazard within harbor**

Project Status to Date

- Cooperative Agreement between CBJ and ADFG SportFish - \$280,000 grant for recreational boating improvements including fish cleaning from ADFG
- Feasibility study performed (December 2015)
- (2) public meetings previously held (June 2015 & October 2018)
- Selection of preferred Alternative by CBJ & ADFG, 12'x75' Fish Cleaning Float at end of existing boarding float
- Contract for design awarded to PND Engineers by CBJ (October 2018)
- PND prepared 75% design level submittal of 12'x75' Fish Cleaning Float (November 2018)
- Contract for public involvement and additional research awarded to PND by CBJ (March 2019)
- 3rd public meeting held on April 2, 2019.



PND Scope - Phase II Public Involvement & Engineering Services

- Project Scoping – research BMP's and permit requirements for disposal
- Public Involvement – 3rd public meeting to solicit stakeholder and user input
- Present options and Preferred Alternative to Harbor Board including summary of public comments received.

- **Site Constraints**
- **Small Harbor Basin**
 - Minimal flushing
 - Relatively shallow, -8-ft MLLW dredged harbor basin
 - Exposed bedrock outcroppings
- **High use facility**
 - Operates at maximum capacity on warm summer days
 - Shared boat launch and fish cleaning facilities impacts efficiency
- **Remote**
 - No nearby Harbor Staffing
 - No City Utilities

EAGLE HARBOR

KAYAK RAMP

LOWER PARKING LOT

BOAT LAUNCH RAMP AND BOARDING FLOAT

UPPER PARKING LOT

FISH CLEANING TABLES

AMALGA HARBOR

ROCK OUTCROPPING

UNPERMITTED FLOAT w/
CLEANING TABLE ON CBJ
TIDELANDS

Existing Conditions - Site Aerial



Fish Waste Disposal Options Researched

- **Offsite Float Disposal** - floating cleaning station outside of Amalga
- **Offshore Disposal** – carcasses cleaned at Amalga and moved offshore by CBJ
 - Submarine Wastewater Disposal Pipe
 - Gut Barge
 - Gut Chute
- **Upland Disposal** – carcasses cleaned upland at Amalga and moved to another upland location by CBJ
 - Landfill
 - Compost
 - Existing Fish Processing Plant
- **In-Harbor Disposal** – connected to existing boarding float, current disposal method
- **No Disposal** – Remove existing fish cleaning tables



Offsite Fish Cleaning Stations

- Not supported by ADFG due to Marine Creel Harvest Study (letter July 2018)
- Many species must to be brought to land before cleaning (lingcod, rockfish, king salmon, coho salmon, king crab, more?) – enforced by AK State Troopers
- Exposed weather/wave conditions at offshore sites
- Land Use and USACE permits required

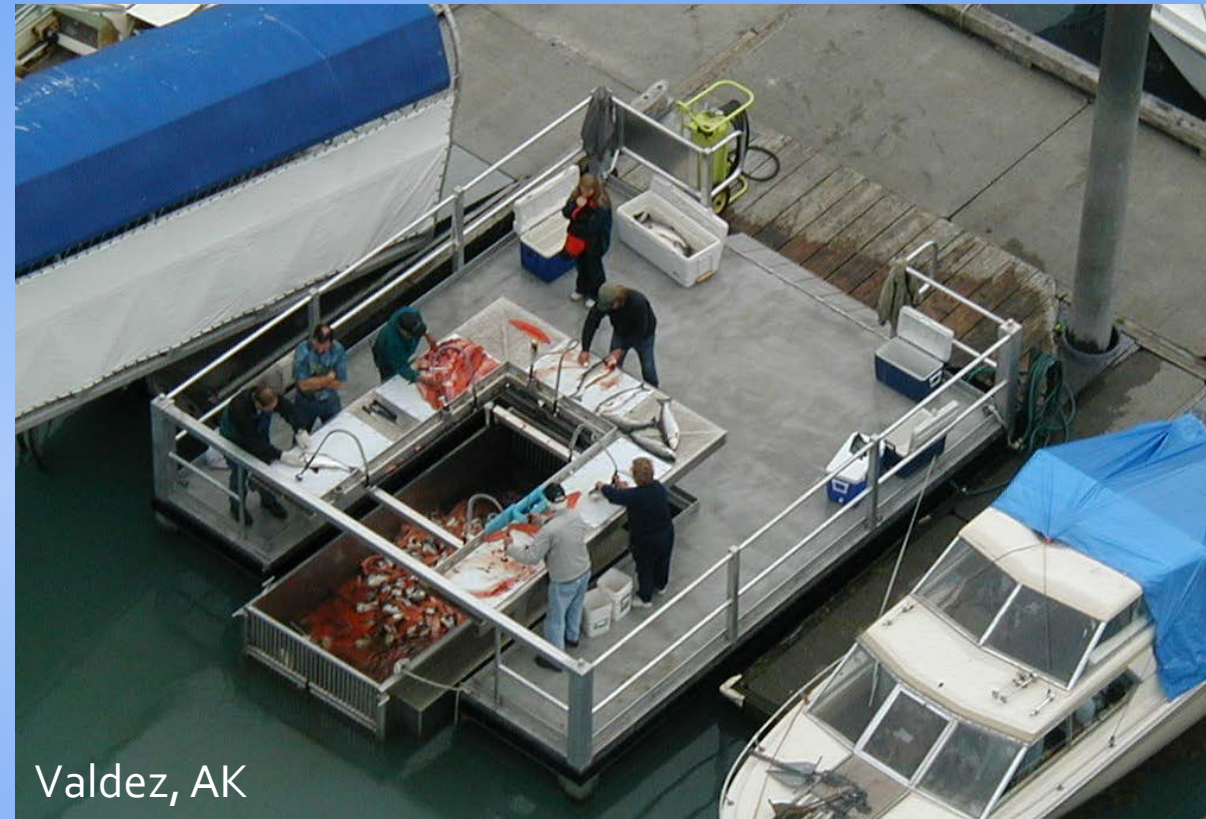


Offshore Disposal – Gut Barge



Valdez, AK

- Requires coverage under AKG523000 for disposal in State waters with ongoing permit inspections
- Disposal to occur between 0.25 and 3 miles nautical miles offshore at a depth of at least -60' MLLW.
- Waste must be ground to 1/2 inch or smaller – on site macerator
- Need to consider what to do with any process wastewater
- Must store waste awaiting disposal to avoid attracting bears, marine mammals and sea birds
- Harbor staff must tow barge offshore – personnel and vessel needed at Amalga Harbor



Valdez, AK

- **Gut Chute**

- Disposal requirements same as 'Gut Barge' but cleaning would take place uplands with waste transferred to in-water holding tank



Submarine Wastewater Outfall

- An option only if discharging greater than 30,000 lbs/yr or more than 1,000 lbs/day, ADEC does not have a permit available for smaller operations at this time – Amalga likely does not meet this quantity
- Requires grinding of fish waste to 1/2 inch or smaller – on site macerator
- Disposal to occur between 0.25 and 3 nautical miles offshore at a depth of at least -60' MLLW.
- Requires large pumping system to move waste.



Upland Disposal

- **Landfill**
 - Fish waste can be taken directly to a permitted landfill that will accept it – CBJ landfill is permitted
 - Need to consider how to store waste awaiting disposal to avoid attracting bears, marine mammals and sea birds
- **Compost**
 - Fish waste can be composted to create a usable product
 - May require a solid waste treatment permit or plan approval from ADEC depending on the volume of waste in
 - Need to consider where this would occur and ways to minimize animal attraction, odors and pathogens
- **Fish Processing Plant**
 - Find a permitted processing plant to dispose of waste
 - May require further cleaning of waste to avoid damage to processors equipment



Upland Disposal

- Removes cleaning from float reducing congestion
- Parking/traffic flow redirected to Amalga Harbor Road
- Requires significant infrastructure – covered shelter, holding tank & grinder and wash water source
- CBJ pumping and disposal of fish waste



Covered shelter for cleaning tables

Covered Fish Cleaning Stations and Holding Tank



Underground holding tank

Existing Conditions - Site Aerial

In-Harbor Disposal – Current Disposal Method

- (2) fish cleaning tables currently exist in Amalga Harbor. (1) at the seaward end of the boarding float and (1) on an unpermitted private float anchored on CBJ tidelands.
- State law requires that fish waste disposal not cause any impairment to water quality. Currently it is unknown if fish disposal at current levels within the harbor has resulted in any impairment to water quality.
- Residents have shared concerns about increased bear activity, foul odors, and drifting fish carcasses.
- The parking facility currently operates at maximum capacity. It is unknown how much fish waste would increase with each additional increase to the number of cleaning stations.



In-Harbor Disposal – Currently Preferred Alternative

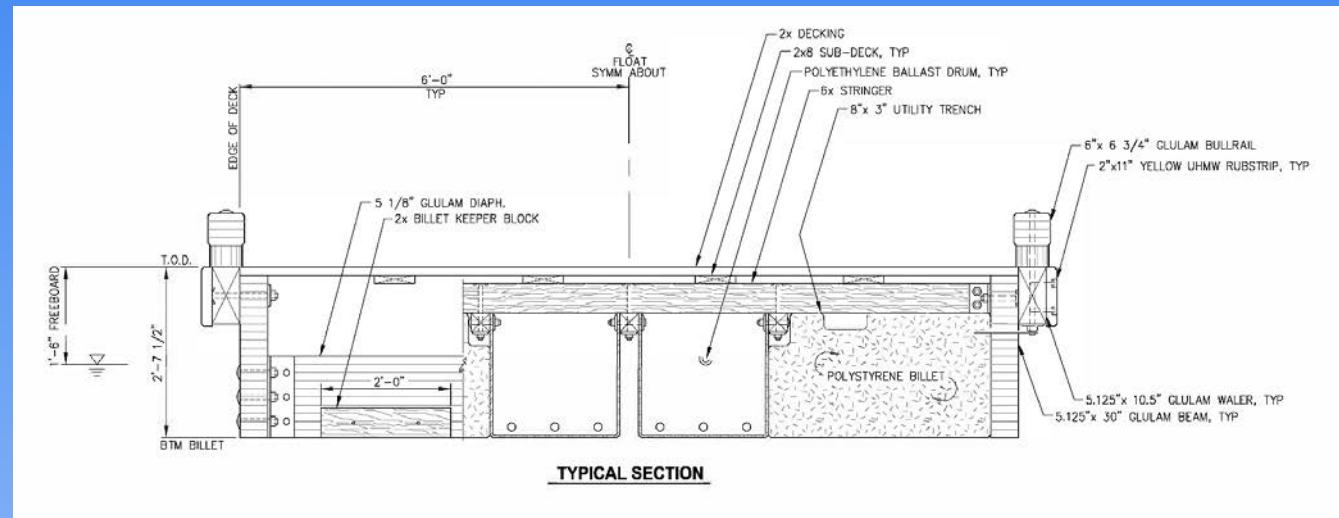
12'x75' Fish Cleaning Float

Accepted guidelines for maneuvering aisle widths:
 1.75 x vessel length'
 1.75 x 32' = 56' min. aisle width



• In-Harbor Disposal – 12'x75' Fish Cleaning Float

- Additional float will free up boarding float for launch/retrieval activities
- Does not require additional CBJ personnel/vessel to manage
- Cleaning/carcass disposal occurs further offshore than at current float
- CBJ committed to having 'unpermitted' private float on tidelands removed if this option were constructed



HEAVY DUTY BALLAST GLULAM FLOAT



Preferred Alternative 12'x75' Fish Cleaning Float – Budget Estimate

BASE BID					
Item	Item Description	Units	Quantity	Unit Cost	Amount
1	Mobilization	LS	All Req'd	15%	\$36,150
2	Contingent Work – Marine Mammal Work Suspension	HR	2	\$750	\$1,500
3	12'x75' Fish Cleaning Float	LS	All Req'd	\$160,000	\$160,000
4	Furnish and Install 16" dia. Steel Pipe Pile	EA	2	\$12,000	\$24,000
5	Transition Plate	LS	All Req'd	\$12,500	\$12,500
6	Fish Cleaning Tables	LS	All Req'd	\$35,000	\$35,000
7	Life Ring and Fire Extinguisher Cabinets	LS	All Req'd	\$8,000	\$8,000
ESTIMATED BASE BID PRICE					\$277,150
CONTINGENCY (15%)					\$27,715
PERMITTING & FINAL DESIGN					\$45,500
CONTRACT ADMIN & CONSTRUCTION INSPECTION (20%)					\$27,715
RECOMMENDED PROJECT BUDGET – BASE BID					\$378,080

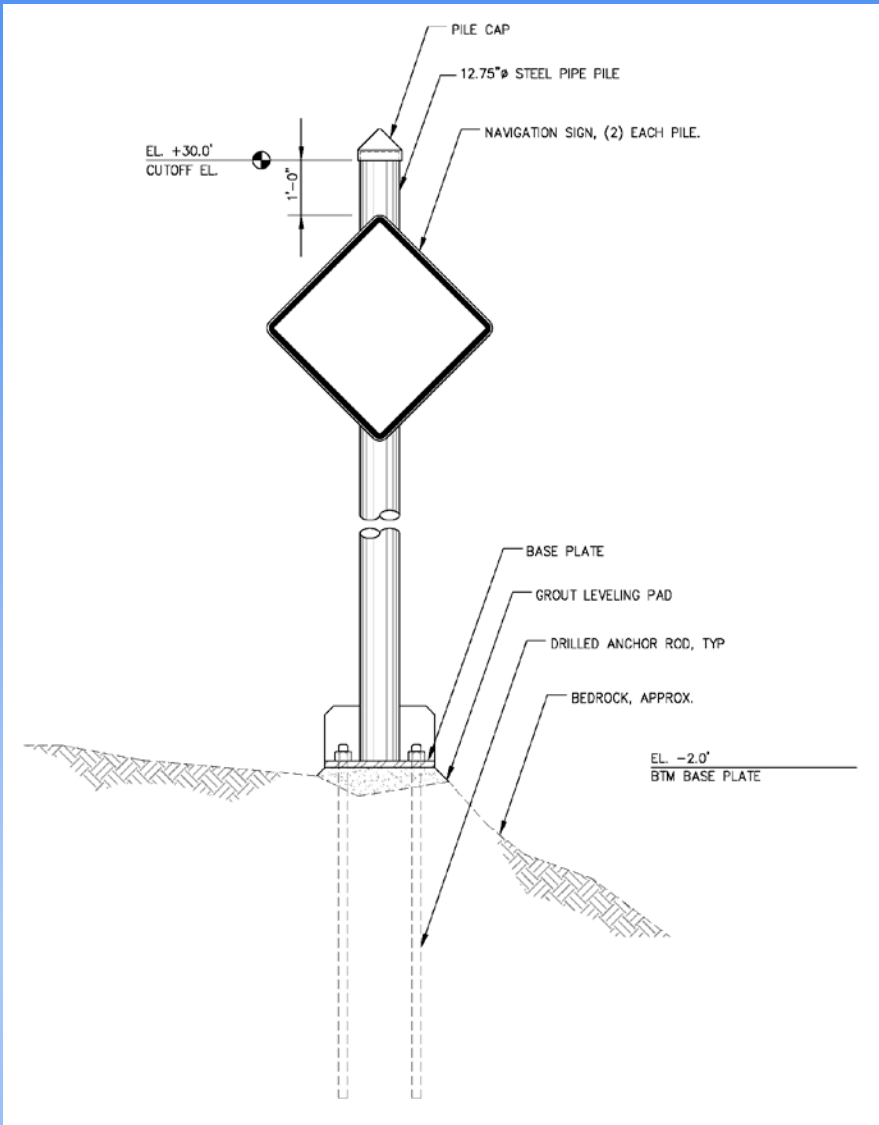
Add. Alt. 1					
Item	Item Description	Units	Quantity	Unit Cost	Amount
1	Private Aid to Navigation (PATON)	LS	All Req'd	40,000	\$40,000
ESTIMATED ADD. ALT. PRICE					\$40,000
CONTINGENCY (10%)					\$4,000
CONTRACT ADMIN & CONSTRUCTION INSPECTION (20%)					\$4,000
RECOMMENDED PROJECT BUDGET – ADD. ALT. 1					\$48,000

No Disposal Option

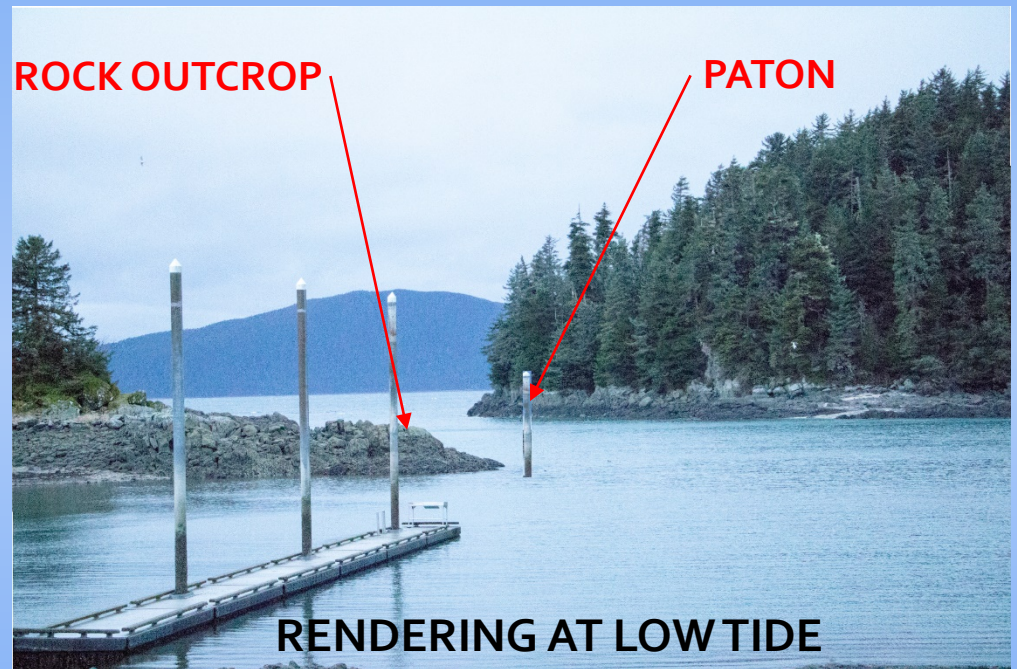
- **Remove existing fish cleaning tables from site**
 - Reduces congestion on boarding float
 - Does not meet needs of boating public who want to clean their fish on site
 - Will likely result in users cleaning fish on coolers or directly on boarding float – reason for initial installation of existing table
 - May require signage or 'No Disposal' ordinance in order to enforce no fish waste disposal

Rock Outcropping Hazard Marking/Removal

- **PATON** – Red post mounted sign above high tide line, Approx. +30' elev. – comments about view shed impacts
- **Floating Buoy** – requires anchor system with scope to accommodate tidal swings, will ground out during low tides. Not as accurate, more likely to hangup and/or damage buoy at low tide. Does not meet Coast Guard requirements and may not be authorized under PATON requirements
- **Blast & Removal** – Requires costly Incidental Harassment Authorization (IHA) & not fully eligible for ADF&G funds



PATON



Public Comments (most common) following 4/2/19 Public Meeting

- **Fish waste buildup at the existing facility is resulting in unpleasant odors and attracting bears to the area**
 - Movement of the fish cleaning station(s) offshore via the dock extension should help minimize fish waste washing up on shore.
 - Could post signage and provide 'carcass bags' to encourage proper disposal out of the harbor
 - Disposal of fish waste in the harbor could be banned via an ordinance and posting signage
- **Proposed project will increase fish waste and bear issues**
 - Could be addressed by constructing dock extension only and moving the existing station further offshore with no new stations installed
 - Can provide 'carcass bags' right at the cleaning stations and post signage encouraging proper disposal outside of the harbor

Public Comments (most common) following 4/2/19 Public Meeting

- **Project is inconsistent with published best management practices for fish waste disposal**
 - Published BMP's discourage disposal of fish waste in the harbor. State law doesn't explicitly prohibit disposal in harbors, however fish waste disposal may not cause a violation of state water quality standards.
 - Water quality could be tested to determine if current water quality meets state standards. Applicable water quality standards for marine uses include:
 - Color
 - Bacteria
 - Dissolved Gas (Dissolved Oxygen)
 - Residues (Floating solids, debris, sludge, deposits, foam, scum, or other residues)
 - pH

Public Comments (most common) following 4/2/19 Public Meeting

- **Proposed project does not meet clean harbor criteria that the assembly endorsed in Resolution number 2756 and is not consistent with the Coastal Zone Management Act**
 - The Coastal Zone Management Act allows for states to collaborate with the Federal Government, however in 2011 Alaska opted out of this program. Thus the measures stipulated within the act are not applicable.
 - The pledge for the Clean Harbor Certification the pledge is voluntary and states that the City and Borough will do it's part to maintain the quality of Alaska's marine waters. Some comments indicate fish waste is excessive, however bears have been the primary complaint and no water quality testing has been conducted to determine whether or not the water quality is of concern at the harbor.
- **Proposed project violates CBJ Ordinance 36.20.056 Bear Attraction Nuisance**
 - It is unclear if this ordinance is applicable to the project as fish carcasses are being returned to their natural habitat. Not specifically addressed in ordinance.
 - Discussion during the April 02 public meeting indicate that excessive trash causing an overflow of trash containers may also be attracting bears to the area.

Public Comments (most common) following 4/2/19 Public Meeting

- **Existing fish cleaning station should be removed**
 - The existing station was installed due to an issue with fish being cleaned on the dock and leaving a mess
 - In the absence of signage, an ordinance and enforcement past history indicates this is likely to be an issue if station is removed
- **Decrease in congestion at Amalga since completion of Statter Harbor project**
 - Conflicting reports, an even number of comments were received indicating that congestion has not increased and indicating a steady increase in congestion
- **Project will create difficult maneuvering conditions**
 - The proposed dock extension meets applicable guidelines for aisle widths
 - Current facility offers little float space for launching at low tide

Public Comments (most common) **following 4/2/19 Public Meeting**

- **Increase in seine skiff traffic and use on the float during commercial openings**
 - Provide signage and enforcement for recreational use only on boarding float
- **PATON in disrupts view shed, would rather blast & remove rock**
 - There are (3) primary options for providing navigational aid. The PATON is consistent with U.S. Coast Guard navigational aid requirements and would be the most accurate.
- **Fish Cleaning Station at other offsite Harbor location**
 - This in an option that would will require permitting, specialized equipment and harbor personnel as well as finding a suitable location with necessary utilities
- **Support –**
 - A few comments were received in support of the project

Options Moving Forward

- No-Build – leave harbor as is
- Construct Preferred Alternative
- Remove the fish cleaning station
- Construct 12'x75' Fish Cleaning Float and PATON only – move existing cleaning station to the end of the new float but do not add any more
- Provide 'Carcass Bags' to users who could clean their fish and take the carcasses home to dispose of them – could be used in conjunction with various options
- Test and monitor water quality throughout Summer 2019
- Look at alternatives for offsite/uplands fish cleaning at alternate Harbor facility
- Phased Approach
 - Start with float extension and moving existing station further offshore
 - If issues persist provide 'carcass bags' and post signage discouraging disposal
 - If issues still persist could remove station and ban disposal in harbor
 - If all else fails could provide offsite/uplands fish cleaning stations and disposal options

Amalga Harbor Improvements

Thank you for attending and for your questions,
comments & suggestions!

