



REQUEST FOR BIDS
2018
Transport of Fry and Smolt
Net Pen Set Up and Removal
Tutka Bay Net Pen Monitoring
Broodstock Capture
Lensing Bag Set Up and Removal

Cook Inlet Aquaculture Association (CIAA), as part of its broodstock collection and remote release programs, is seeking bids to perform the following five operations in 2018:

- (1.0) Smolt transport (live sockeye salmon) in Resurrection Bay with net-pen set up and removal including placing anchors,
- (2.0) Fry and smolt transport (live sockeye and pink salmon) in Tutka Bay Lagoon and Tutka Bay with net pen set up and removal including placing anchors in Tutka Bay,
- (3.0) Deliver fish food, feed pink salmon fry, and monitor net pens in Tutka Bay,
- (4.0) Net-pen set up and removal including placing anchors in Port Graham Bay,
- (5.0) Capture of broodstock in Tutka Bay Lagoon (live sockeye salmon) and Port Graham Bay (live pink salmon), including lensing bag set up and removal in Tutka Bay Lagoon.

The bids are expected to meet the following deadline and contain the following elements:

1. All bids must be received at CIAA headquarters no later than **5:00 pm March 28, 2018.** Notification of Award will be **April 2, 2018.**
2. CIAA will accept bids submitted by regular mail, fax or email. Bids should be sent to :
Gary Fandrei
Cook Inlet Aquaculture Association
40610 Kalifornsky Beach Road
Kenai, Alaska 99611-6445
Fax: (907) 283-9433
gfandrei@ciaanet.org

3. Each component of the bid package, listed above (1.0 – 5.0), may be bid on individually. If you would like to bid on more than one of the components feel free to do so.
4. CIAA reserves the right to reject any or all bids received, to negotiate for terms and conditions that may differ from the initial bids received and to award any contracts in a manner that is determined to be most advantageous to CIAA.
5. With the exception of the fry feeding and monitoring component, the successful bidder may perform similar work or participate in other fishing activities but must be available for any CIAA contracted activities within 24 hours of notice.
6. Access to Tutka Bay Lagoon is tide height/cycle dependent and access will be limited by the boat's draft.
7. CIAA will provide staff (1 person) to travel with fry and smolt transports. Sleeping accommodations will be provided by the Contractor on its vessel when the vessel is not at Seward, Homer, or Tutka Bay Lagoon Hatchery. CIAA will provide food for this individual.
8. Contractor is responsible for its crew's salaries, workers' compensation, lodging and food. Contractor shall be responsible for all other provisions necessary to operate its vessel and perform its duties.
9. Contractor must meet the specifications of the US Coast Guard as per Marine Safety Information Bulletin dated October 30, 2015 and April 6, 2016 (see attached) if, in performing the tasks associated with this bid, the Contractor transports cargo or engages in towing.
10. Contractor will be required to provide documentation of Protection and Indemnity risk and liability policies for the vessel(s) used in performing the tasks of not less than \$500,000.
11. Contractor will be responsible for all fuel costs.
12. CIAA will be responsible for all supplies associated with life support system of the fish (includes DO meter, netting, oxygen, valves, hoses, air stones etc.).
13. Bids should clearly indicate the size of all holds associated with the boat(s) and this bid. The size(s) will be in gallons and physical dimensions (length*width*depth).
14. For all transport/deliveries, the nearest port will be considered the base of operations (Homer, Seward, or Tutka Bay Lagoon, Alaska).
15. It is highly recommended that potential bidders contact CIAA for additional information before bidding.

16. Any questions regarding the bid request should be directed to Gary Fandrei, Executive Director (gfandrei@ciaanet.org, 907-283-5761).

1.0 Smolt transport (live sockeye salmon) in Resurrection Bay with net-pen set up and removal including placing anchors

Included in this section:

- the placing of anchors and net pen set up in Resurrection Bay,
- the transport of sockeye salmon smolt from Seward to net pens located in Resurrection Bay, and
- the transport of sockeye salmon smolt for release by means of towing the net pens from Resurrection Bay to the mouth of Thumb Cove.

Note: Based on timing the sockeye smolt transport in Resurrection Bay and sockeye smolt and pink fry transports in Tutka Bay Lagoon will overlap. A second boat will be necessary if the Contractor is bidding on both components (1.0 & 2.0) of the bid package.

Task Description

- a) Contractor will assist the Hatchery Manager and staff with the installation and subsequent removal of the net pens which includes placing and subsequent removal of anchors.
- b) Contractor will pick up, transport and deliver sockeye salmon smolt (1,450,000 @ 7.5 grams) from Seward to Resurrection Bay. Contractor will clean, disinfect and rinse hold prior to scheduled deliveries. CIAA staff member will monitor and record temperature and oxygen levels during transport. CIAA staff member will maintain life support system (replace oxygen bottles, check valves, air stones, hoses, etc.).
- c) Contractor will tow 2 net pens with sockeye salmon (1,445,000 @ 13 grams) from the Resurrection Bay rearing site to the mouth of Thumb Cove following CIAA protocols. CIAA will provide staff and gear to complete the project.

Scheduling

Frequency is the number of days estimated for the task only. It does not include set-up time, or travel time to location from Seward and back. The actual frequency will be dependent on the hold size of the boat. Values calculated below assume a 6,000-gallon hold.

CIAA staff will need access to Contractor's boat to arrange life support system 1–2 days prior to scheduled deliveries.

Boat will be required to fill hold with seawater from Resurrection Bay for sockeye smolt transport (item (b) above).

Task	Time Frame	Frequency
Resurrection Bay Net Pen Set Up	First week of April	1 day for set up
Resurrection Bay Sockeye Smolt Transport	Second week of April	3–4 days; multiple deliveries per day
Resurrection Bay Sockeye Release to Thumb Cove	Fourth week of May	2 days; 1 for fish transport and 1 for anchor retrieval

Special Conditions

- Minimum boat hold volume = 4,000–6,000 gallons.
- CIAA will provide all life support equipment for the fish.
- CIAA will control all loading rates into the boat holds.
- No flushing of boat hold during transport.
- CIAA will assist with loading and unloading of fry/smolt and release.
- CIAA will provide a staff member to travel with the deliveries to monitor life support and maintain its equipment.
- Time frame is tentative depending on fish production scheduling.
- Weather and tide conditions will need to be considered when finalizing schedule.

2.0 Fry and smolt transport (live sockeye and pink salmon) in Tutka Bay and Tutka Bay Lagoon with net pen set-up and removal including placing anchors in Tutka Bay

Included in this section:

- the placing of anchors and net pen set up at the head of Tutka Bay,
- the transport of sockeye salmon smolt from Homer to net pens located in Tutka Bay Lagoon,
- the transport of pink salmon fry from Tutka Bay Lagoon to net pens located at the head of Tutka Bay, and
- the removal of net pens and anchors at the head of Tutka Bay.

Note: Based on timing the sockeye smolt transport in Resurrection Bay and sockeye smolt and pink fry transports in Tutka Bay Lagoon will overlap. A second boat will be necessary if the Contractor is bidding on both components (1.0 & 2.0) of the bid package.

Note: CIAA is requesting bids (3.0) for a boat and crew to feed and monitor the pink salmon fry and net pens at the head of Tutka Bay. You may wish to consider both components 2.0 and 3.0 when submitting a bid.

Task Description

- Contractor will assist the Hatchery Manager and staff with the installation and subsequent removal of the net pens at the head of Tutka Bay which includes placing anchors.
- Contractor will pick up, transport and deliver sockeye salmon smolt (588,000 @ 7 grams) from Homer to Tutka Bay Lagoon. Contractor will clean, disinfect and rinse hold prior to scheduled deliveries. CIAA staff member will monitor and record temperature and

oxygen levels during transport. CIAA staff member will maintain life support system (replace oxygen bottles, check valves, air stones, hoses, etc.).

- c) Contractor will pick up, transport and deliver pink salmon fry (20,610,000 @ 0.25 grams) from Tutka Bay Lagoon to the head of Tutka Bay. Contractor will clean, disinfect and rinse hold prior to scheduled deliveries. CIAA staff member will monitor and record temperature and oxygen levels during transport. CIAA staff member will maintain life support system (replace oxygen bottles, check valves, air stones, hoses, etc.).

Scheduling

Frequency is the number of days estimated for the task only. It does not include set up time, or travel time to location from Homer and back. The actual frequency will be dependent on the hold size of the boat. Values calculated below assume a 6,000 gallon hold.

CIAA staff will need access to Contractor’s boat to set-up life support system 1–2 days prior to scheduled deliveries.

Boat will be required to fill hold with freshwater from Tutka Bay Lagoon Hatchery prior to sockeye salmon smolt deliveries (item (b) above) as well as pink salmon fry deliveries (item (c) above).

Task	Time Frame	Frequency
Head of Tutka Bay Net Pen Set Up	First or second week of April*	1 day for set up
Tutka Bay Sockeye Smolt Transport	Third Week of April*	4–6 days; 1 delivery per day
Head of Tutka Bay Pink Fry Transport	March–April*	8–12 deliveries with possible multiple deliveries per day pending fish availability
Head of Tutka Bay Net Pen Removal	First week of June*	1 day for removal

* Access to Tutka Bay Lagoon is limited due to tide cycles. See attached tide tables for more information. Contractors should be aware that deliveries may be required outside of normal business hours.

Special Conditions

- Minimum boat hold volume = 4,000–6,000 gallons.
- CIAA will provide all life support equipment for the fish.
- CIAA will control all loading rates into the boat holds.
- No flushing of boat hold during transport.
- CIAA will assist with loading and unloading of fry/smolt and release.
- CIAA will provide a staff member to travel with the deliveries to monitor life support and maintain its equipment.
- Time frame is tentative depending on fish production scheduling.
- Weather and tide conditions will need to be considered when finalizing schedule.

3.0 Deliver fish food, feed pink salmon fry, and monitor net pens at the head of Tutka Bay

Included in this section:

- feed pink salmon fry in the net pens at the head of Tutka Bay,
- monitor the net pens for structural integrity and to prevent vandalism,
- pick up and deliver fish food from Homer to Tutka Bay Lagoon and the head of Tutka Bay twice weekly, and
- provide the crew and on-board housing for feeding the fry and monitoring the net pens at the head of Tutka Bay.

Note: CIAA is requesting bids (2.0) for a boat and crew to transport sockeye smolt to Tutka Bay Lagoon, set up the net pens at the head of Tutka Bay, and transport pink fry to the head of Tutka Bay. You may wish to consider both components 2.0 and 3.0 when submitting a bid.

Task Description

- a) Contractor will provide a vessel capable of housing 2 crew members to feed pink salmon fry, monitor the net pens for structural integrity, and establish a presence to prevent vandalism. The Hatchery Manager and staff will provide feeding instructions; monitor fish health; and collect fish growth and environmental data. Feeding will occur throughout daylight hours.

- b) Contractor will pick up, transport, and deliver fish food from Homer to Tutka Bay Lagoon and the head of Tutka Bay twice weekly.

Scheduling

Frequency is the number of days estimated for the task only. It does not include set up time, or travel time to location from Homer and back.

CIAA staff will need access to Contractor’s boat to collect fish growth and environmental data. Fish food deliveries will be coordinated with fish growth rates.

Task	Time Frame	Frequency
Feed Pink Salmon at Head of Tutka Bay Net Pens	Mid-April to first week of June	Daily
Monitor Net Pens at Head of Tutka Bay	Mid-April to first week of June	Daily
Pick-Up and Deliver Fish Food from Homer to Tutka Bay	Mid-April to first week of June*	2 X weekly

*Access to Tutka Bay Lagoon is limited due to tide cycles. See attached tide tables for more information. Contractors should be aware that deliveries may be required outside of normal business hours.

Special Conditions

- Boat must be capable of housing at least 2 people
- CIAA will provide instructions on fish feeding.
- Time frame is tentative depending on fish production scheduling.

- Weather and tide conditions will need to be considered when delivering fish food.

4.0 Net-pen set up and removal including placing anchors in Port Graham Bay

Included in this section:

- the placing of anchors and net pen set up at Port Graham Bay.

Task Description

- Contractor will assist the Hatchery Manager and staff with the installation and subsequent removal of the net pens, which includes placing anchors.

Scheduling

Frequency is the number of days estimated for the task only. It does not include set up time, or travel time to location from Homer and back.

Task	Time Frame	Frequency
Port Graham Bay Net Pen Set Up	Second week of April	1 day for set up
Port Graham Bay Net Pen Removal	Second week of October	1 day for removal

Special Conditions

- Time frame is tentative depending on fish production scheduling.
- Weather and tide conditions will need to be considered when finalizing schedule.

5.0 Capture of broodstock in Tutka Bay Lagoon (live sockeye salmon) and Port Graham Bay (live pink salmon), including lensing bag set up and removal in Tutka Bay Lagoon

Included in this section:

- the set up and removal of a lensing bag at Tutka Bay Lagoon,
- the capture of adult sockeye salmon in June/July at Tutka Bay Lagoon for broodstock,* and
- the capture of adult pink salmon in July/August at Port Graham Bay.*

*A 3-inch mesh sized seine net is recommended to avoid any unnecessary gilling of potential broodstock.

Note: CIAA would prefer bids for both Tutka Bay Lagoon and Port Graham Bay broodstock capture be combined but will accept bids on each broodstock capture separately.

Task Description

- Contractor will need to assist with the installation and subsequent removal of one lensing bag at the net pen located in Tutka Bay Lagoon.

- b) CIAA is expecting 79,000 adult sockeye salmon to return to Tutka Bay Lagoon. The return is expected to be in the third week of June through the second week of July. Up to 7,000 adult sockeye salmon are required for broodstock purposes. Adult sockeye salmon are to be captured in the lagoon, transported and placed into the net pen within the lagoon where they will be sorted by sex and counted by CIAA staff.**
- c) CIAA is expecting 181,000 adult pink salmon (hatchery origin) to return to Port Graham Bay. The return is expected to be in mid-July through the end of August. It is also possible that natural pink salmon returns will be made available to CIAA for broodstock collection. Pending approval from ADF&G, CIAA may require the Contractor to capture the natural pink salmon returns.**

**During the broodstock capture, all adult salmon will be captured and placed into net pens. CIAA staff will select broodstock from these fish. Any fish not used for broodstock may be sold by CIAA. Monies from the sale of these fish belong to CIAA.

Scheduling

Frequency is the number of days estimated for the task only. It does not include set up time, or travel time to location from Homer and back. The actual frequency will be dependent on the hold size of the boat. Values calculated below assume a 6,000-gallon hold.

It is recommended that the capture boat arrive at the peak of the first tide cycle of each day when fishing at Tutka Bay Lagoon and actively fish during the low tide cycle in the lagoon. There will be less boat conflicts and the fish are more concentrated.

Task	Time Frame	Frequency
Tutka Bay Lagoon Lensing Bag Set Up	Last week of July*	1 day for set up
Tutka Bay Lagoon Sockeye Broodstock Capture	Third week of June to second week of July*	Fish every 3–4 days for 1 day**
Port Graham Bay Pink Broodstock Capture	Mid-July to the end of August	Fish every 3–4 days for 1 day**
Tutka Bay Lagoon Lensing Bag Removal	Last week of September*	1 day for removal

*Access to Tutka Bay Lagoon is limited due to tide cycles. See attached tide tables for more information. Contractors should be aware that deliveries may be required outside of normal business hours.

**Will depend on how and when the fish return.

Special Conditions

- CIAA will provide assistance for directing the transfer of broodstock into the net pens at Tutka Bay Lagoon and Port Graham Bay.
- CIAA will determine the maximum number of broodstock to be captured in each seine net.
- CIAA will determine the number of fish to be loaded per net pen.
- Time frame is tentative depending on run return strength and timing.
- Weather and tide conditions will need to be considered when finalizing schedule.
- A 3-inch mesh size net is recommended.

Calendar of Expected Smolt Transports and Broodstock Capture and Transports in 2018

	Apr-18				May-18				Jun-18				Jul-18				Aug-18				Sep-18			
	1-7	8-14	15-21	22-30	1-7	8-14	15-21	22-31	1-7	8-14	15-21	22-30	1-7	8-14	15-21	22-31	1-7	8-14	15-21	22-31	1-7	8-14	15-21	22-31
Component 1.0: Resurrection Bay Smolt Transport																								
Resurrection Bay Net Pen		X					X																	
Sockeye Smolt to Resurrection Bay		X																						
Resurrection Bay Sockeye Smolt Release at Thumb Cove								X																
Component 2.0: Tutka Bay Smolt and Fry Transport																								
Head of Tutka Bay Net Pen	X	X							X															
Tutka Bay Sockeye Smolt Transport			X																					
Head of Tutka Bay Pink Fry Transport	X	X	X	X																				
Component 3.0: Tutka Bay Pink Fry Monitoring																								
Feed Pink Salmon at Head of Tutka Bay Net Pens			X	X	X	X	X	X	X															
Monitor Net Pens at Head of Tutka Bay			X	X	X	X	X	X	X															
Pick-Up and Deliver Fish Food from Homer to Tutka Bay			X	X	X	X	X	X	X															
Component 4.0: Port Graham Bay Net Pen																								
Port Graham Bay Net Pen		X																						
Component 5.0: Broodstock Capture																								
Tutka Bay Lagoon Lensing Bag																X								X
Tutka Bay Lagoon Sockeye Broodstock Capture											X	X	X	X										
Port Graham Bay Pink Broodstock Capture															X	X	X	X	X	X				

April 2018 Tide Table (Seldovia)

Date	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1-Apr	5.6	11.3	16.6	20.0	20.9	19.1	14.8	9.0	3.0	-1.4	-2.8	-1.1	3.0	8.5	14.0	18.3	20.2	19.4	16.0	10.8	5.1	0.4	-1.7	-0.6
2-Apr	3.1	8.3	13.8	18.3	20.6	20.2	17.3	12.3	6.4	1.1	-2.2	-2.4	0.2	4.7	10.2	15.2	18.5	19.5	17.9	14.0	8.9	3.8	0.3	-0.4
3-Apr	1.7	5.9	10.9	15.7	19.0	20.1	18.6	14.8	9.7	4.3	0.0	-2.0	-1.1	2.1	6.6	11.5	15.7	18.0	18.1	15.8	11.9	7.4	3.4	1.2
4-Apr	1.6	4.4	8.5	12.9	16.7	18.7	18.6	16.3	12.3	7.6	3.1	0.0	-0.8	0.8	4.1	8.2	12.3	15.4	16.8	16.2	13.8	10.3	6.6	3.8
5-Apr	2.8	4.1	7.0	10.6	14.1	16.6	17.6	16.6	13.9	10.1	6.2	2.9	0.9	1.0	2.9	5.8	9.2	12.3	14.5	15.2	14.3	12.1	9.3	6.7
6-Apr	5.0	4.8	6.3	8.9	11.7	14.2	15.8	15.9	14.5	11.9	8.8	5.8	3.5	2.4	2.8	4.5	6.8	9.4	11.7	13.2	13.6	12.8	11.2	9.2
7-Apr	7.5	6.4	6.6	7.9	9.9	11.9	13.5	14.4	14.2	12.8	10.7	8.4	6.2	4.6	3.8	4.2	5.4	7.1	8.9	10.8	12.1	12.5	12.1	11.1
8-Apr	9.8	8.5	7.7	7.8	8.7	10.0	11.3	12.5	13.1	13.0	12.0	10.5	8.7	7.0	5.6	4.8	4.8	5.5	6.7	8.2	10.0	11.4	12.2	12.2
9-Apr	11.6	10.6	9.4	8.4	8.0	8.4	9.2	10.3	11.4	12.3	12.5	12.0	11.0	9.5	7.8	6.2	5.0	4.6	4.9	6.0	7.7	9.7	11.5	12.7
10-Apr	13.0	12.5	11.3	9.7	8.2	7.3	7.3	8.0	9.3	10.9	12.3	13.0	12.8	11.8	10.2	8.2	6.0	4.4	3.7	4.1	5.5	7.7	10.3	12.5
11-Apr	13.9	14.1	13.2	11.4	9.1	7.0	5.8	5.8	6.9	8.8	11.1	13.0	14.1	13.9	12.7	10.5	7.8	5.0	3.1	2.6	3.4	5.5	8.6	11.7
12-Apr	14.2	15.4	15.1	13.4	10.7	7.6	5.0	3.9	4.3	6.2	9.0	12.0	14.4	15.5	15.0	13.1	10.2	6.6	3.5	1.6	1.7	3.4	6.5	10.3
13-Apr	13.8	16.2	16.8	15.6	12.8	9.1	5.3	2.7	2.0	3.3	6.2	9.9	13.6	16.1	16.9	15.8	13.0	9.1	4.9	1.7	0.4	1.4	4.2	8.3
14-Apr	12.7	16.2	18.0	17.7	15.3	11.3	6.7	2.6	0.3	0.5	3.0	7.0	11.5	15.5	17.8	17.9	15.9	12.1	7.4	3.0	0.1	-0.2	2.0	6.0
15-Apr	10.8	15.3	18.4	19.3	17.7	14.0	9.0	3.9	-0.1	-1.5	-0.1	3.5	8.4	13.4	17.2	19.0	18.3	15.2	10.6	5.5	1.3	-0.8	0.1	3.5
16-Apr	8.4	13.5	17.8	20.0	19.7	16.8	12.0	6.3	1.1	-2.2	-2.5	0.1	4.7	10.1	15.1	18.5	19.5	17.8	14.0	8.9	3.8	0.2	-0.7	1.4
17-Apr	5.8	11.0	16.0	19.6	20.7	19.2	15.2	9.6	3.7	-1.1	-3.4	-2.5	1.1	6.3	11.8	16.4	19.1	19.2	16.8	12.4	7.2	2.7	0.0	0.3
18-Apr	3.4	8.2	13.4	17.8	20.4	20.4	17.8	13.0	7.2	1.7	-2.3	-3.5	-1.6	2.6	7.8	12.9	16.9	18.8	18.2	15.3	10.9	6.1	2.4	0.8
19-Apr	2.0	5.6	10.4	15.1	18.7	20.2	19.3	16.0	11.0	5.4	0.6	-2.4	-2.7	-0.3	4.0	8.9	13.4	16.6	17.8	16.8	13.8	9.8	5.7	2.9
20-Apr	2.2	3.9	7.6	11.9	15.8	18.5	19.2	17.7	14.2	9.5	4.6	0.6	-1.7	-1.4	1.2	5.0	9.3	13.1	15.7	16.5	15.4	12.8	9.4	6.2
21-Apr	4.1	3.8	5.6	8.8	12.3	15.4	17.4	17.7	16.1	12.9	8.8	4.7	1.4	-0.3	0.0	2.2	5.5	9.0	12.2	14.5	15.3	14.5	12.5	9.8
22-Apr	7.2	5.4	5.1	6.5	9.0	11.8	14.3	15.9	16.2	15.0	12.4	9.1	5.6	2.7	1.1	1.1	2.7	5.3	8.2	11.2	13.5	14.6	14.3	12.9
23-Apr	10.7	8.4	6.5	5.8	6.5	8.3	10.4	12.7	14.4	15.1	14.5	12.7	10.0	6.9	4.1	2.1	1.6	2.6	4.6	7.4	10.4	13.0	14.6	14.9
24-Apr	13.8	11.8	9.3	6.9	5.6	5.6	6.7	8.7	11.1	13.4	14.7	14.8	13.5	11.2	8.1	5.0	2.5	1.5	2.1	3.9	6.9	10.3	13.4	15.4
25-Apr	15.9	14.9	12.6	9.5	6.5	4.4	3.9	4.9	7.1	10.1	13.0	15.0	15.6	14.7	12.3	8.9	5.2	2.3	1.0	1.5	3.6	7.0	11.0	14.5
26-Apr	16.7	17.1	15.8	12.8	8.9	5.1	2.6	2.0	3.2	6.0	9.7	13.3	15.8	16.7	15.7	13.0	9.0	4.8	1.6	0.3	1.1	3.9	8.0	12.4
27-Apr	16.1	18.1	18.1	16.0	12.2	7.5	3.2	0.5	0.2	2.1	5.7	10.2	14.3	17.0	17.7	16.3	13.0	8.4	3.9	0.7	-0.1	1.4	5.0	9.7
28-Apr	14.4	17.8	19.3	18.4	15.4	10.7	5.4	0.9	-1.3	-0.9	1.8	6.3	11.3	15.6	18.1	18.3	16.2	12.2	7.2	2.7	0.0	0.0	2.5	6.8
29-Apr	11.9	16.4	19.3	19.8	17.9	13.9	8.5	3.0	-1.1	-2.5	-1.1	2.6	7.6	12.8	16.8	18.8	18.2	15.4	10.9	5.8	1.6	-0.1	0.9	4.3
30-Apr	9.1	14.1	18.1	20.0	19.5	16.5	11.7	6.0	0.7	-2.5	-2.8	-0.3	4.0	9.4	14.3	17.7	18.8	17.5	14.0	9.2	4.4	1.1	0.5	2.6

Tutka Bay Lagoon has limited access below tide levels of 14.5 feet. Numbers highlighted in yellow are minimum tide levels and those in green are optimal tides for accessing the lagoon.

May 2018 Tide Table (Seldovia)

Date	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1-May	6.6	11.5	16.0	19.1	19.9	18.2	14.4	9.2	3.6	-0.9	-2.9	-2.0	1.2	6.0	11.1	15.5	18.0	18.2	16.1	12.2	7.6	3.5	1.3	1.9
2-May	4.8	9.0	13.5	17.3	19.2	18.9	16.3	11.9	6.7	1.8	-1.5	-2.3	-0.4	3.3	7.9	12.5	16.0	17.6	17.0	14.4	10.5	6.4	3.3	2.3
3-May	3.8	7.0	11.0	14.9	17.6	18.4	17.1	13.9	9.5	4.8	0.9	-1.2	-0.9	1.6	5.3	9.5	13.3	15.9	16.6	15.4	12.7	9.2	5.9	3.9
4-May	3.8	5.8	9.0	12.5	15.4	17.1	17.0	15.0	11.7	7.6	3.8	1.0	-0.1	1.0	3.5	6.9	10.4	13.4	15.1	15.3	13.8	11.3	8.5	6.1
5-May	4.9	5.5	7.6	10.3	13.0	15.1	15.9	15.2	13.0	9.9	6.5	3.6	1.8	1.5	2.7	5.1	7.9	10.7	12.9	14.1	14.0	12.6	10.6	8.4
6-May	6.8	6.1	6.9	8.7	10.9	12.8	14.2	14.5	13.6	11.5	8.9	6.3	4.2	2.9	2.9	4.1	6.0	8.2	10.5	12.3	13.2	13.1	12.1	10.5
7-May	8.8	7.5	7.1	7.7	9.0	10.6	12.0	13.0	13.2	12.4	10.8	8.7	6.7	5.0	3.9	3.9	4.8	6.3	8.1	10.1	11.8	12.8	12.9	12.1
8-May	10.8	9.3	8.0	7.4	7.6	8.5	9.7	11.0	12.1	12.5	12.0	10.8	9.1	7.3	5.6	4.5	4.2	4.9	6.2	8.0	10.1	11.9	13.1	13.3
9-May	12.6	11.3	9.6	7.9	6.9	6.8	7.4	8.6	10.2	11.6	12.4	12.3	11.4	9.8	7.9	5.9	4.5	4.0	4.6	6.0	8.1	10.5	12.7	14.0
10-May	14.2	13.2	11.4	9.2	7.0	5.5	5.3	6.1	7.7	9.8	11.8	13.1	13.2	12.3	10.4	8.1	5.6	3.9	3.3	4.1	6.0	8.7	11.7	14.1
11-May	15.4	15.2	13.6	11.0	8.0	5.2	3.6	3.5	4.8	7.2	10.1	12.7	14.3	14.4	13.1	10.7	7.7	4.8	2.9	2.6	4.0	6.6	10.1	13.5
12-May	16.0	16.8	15.9	13.4	9.9	6.1	2.9	1.4	1.9	4.0	7.4	11.1	14.2	15.8	15.6	13.7	10.6	6.9	3.6	1.8	2.1	4.3	7.9	12.0
13-May	15.7	17.8	18.0	16.1	12.6	8.1	3.6	0.3	-0.7	0.7	3.9	8.2	12.6	15.9	17.2	16.5	13.8	9.9	5.7	2.3	0.9	2.1	5.3	9.7
14-May	14.3	17.8	19.4	18.7	15.7	11.0	5.7	0.9	-2.1	-2.3	0.2	4.5	9.6	14.3	17.4	18.3	16.9	13.4	8.9	4.3	1.2	0.6	2.8	6.9
15-May	11.9	16.5	19.7	20.4	18.6	14.5	9.0	3.2	-1.6	-3.9	-3.0	0.5	5.6	11.1	15.8	18.6	18.9	16.7	12.5	7.6	3.1	0.6	0.9	4.0
16-May	8.8	14.0	18.4	20.8	20.7	17.9	12.9	6.8	0.9	-3.4	-4.8	-2.9	1.4	7.0	12.5	16.9	19.1	18.7	15.9	11.4	6.4	2.4	0.6	1.9
17-May	5.6	10.6	15.6	19.5	21.1	20.1	16.5	11.0	4.8	-0.7	-4.2	-4.6	-2.0	2.7	8.3	13.5	17.4	19.0	18.0	14.8	10.3	5.6	2.2	1.3
18-May	3.2	7.2	12.1	16.6	19.7	20.6	18.9	14.9	9.4	3.5	-1.4	-4.0	-3.7	-0.6	4.0	9.3	14.0	17.2	18.3	17.0	13.8	9.5	5.4	2.7
19-May	2.4	4.6	8.4	12.8	16.6	19.1	19.4	17.4	13.4	8.2	3.0	-1.1	-3.0	-2.3	0.8	5.1	9.7	13.9	16.6	17.3	16.0	13.0	9.3	578.0
20-May	3.6	3.6	5.6	9.0	12.6	15.8	17.8	17.8	15.9	12.3	7.8	3.3	-0.1	-1.6	-0.7	2.0	5.7	9.8	13.4	15.8	16.5	15.3	12.8	9.6
21-May	6.5	4.6	4.4	6.0	8.7	11.7	14.4	16.1	16.3	14.7	11.8	8.0	4.3	1.3	0.0	0.6	2.8	5.9	9.5	12.8	15.1	15.9	15.1	13.0
22-May	10.2	7.3	5.2	4.7	5.7	7.7	10.2	12.7	14.5	15.1	14.1	11.9	8.8	5.5	2.7	1.3	1.5	3.2	5.9	9.3	12.5	14.9	15.9	15.4
23-May	13.6	10.8	7.8	5.3	4.2	4.6	6.2	8.5	11.2	13.4	14.5	14.2	12.5	9.8	6.7	3.8	2.1	2.0	3.4	6.0	9.3	12.7	15.3	16.4
24-May	16.0	14.1	11.1	7.7	4.7	3.2	3.2	4.6	7.1	10.2	12.9	14.5	14.6	13.3	10.7	7.5	4.4	2.4	2.2	3.5	6.3	9.9	13.4	16.1
25-May	17.2	16.6	14.3	10.8	6.9	3.5	1.6	1.6	3.3	6.3	9.9	13.1	15.0	15.3	14.0	11.2	7.7	4.4	2.4	2.2	3.9	7.0	10.9	14.6
26-May	17.1	17.9	16.8	14.0	9.9	5.4	1.8	0.0	0.4	2.6	6.3	10.4	13.8	15.8	16.0	14.3	11.2	7.4	3.9	2.1	2.4	4.6	8.2	12.4
27-May	16.0	18.2	18.3	16.5	13.0	8.3	3.5	0.0	-1.3	-0.2	2.8	7.0	11.5	14.9	16.7	16.4	14.2	10.6	6.5	3.3	2.0	3.0	5.8	9.9
28-May	14.1	17.4	18.9	18.2	15.6	11.3	6.2	1.4	-1.5	-2.0	-0.1	3.7	8.4	12.9	16.1	17.3	16.4	13.6	9.6	5.5	2.7	2.2	4.0	7.5
29-May	11.8	15.8	18.4	19.0	17.5	14.0	9.2	3.9	-0.4	-2.4	-1.9	0.9	5.3	10.2	14.4	16.9	17.4	15.8	12.4	8.2	4.4	2.4	2.8	5.4
30-May	9.3	13.6	17.1	18.9	18.5	16.1	11.9	6.8	1.9	-1.6	-2.6	-1.0	2.6	7.2	11.9	15.5	17.3	17.0	14.7	11.0	6.9	3.7	2.6	4.0
31-May	7.1	11.2	15.0	17.8	18.7	17.4	14.2	9.6	4.7	0.4	-2.0	-1.8	0.6	4.5	9.1	13.3	16.2	17.1	16.1	13.2	9.5	5.8	3.5	3.4

Tutka Bay Lagoon has limited access below tide levels of 14.5 feet. Numbers highlighted in yellow are minimum tide levels and green are optimal tides for accessing the lagoon.

June 2018 Tide Table (Seldovia)

Date	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1-Jun	5.5	8.9	12.7	16.0	17.8	17.8	15.7	12.0	7.5	3.0	-0.3	-1.6	-0.5	2.5	6.4	10.6	14.1	16.2	16.4	14.8	11.8	8.3	5.3	3.9
2-Jun	4.6	7.1	10.4	13.7	16.2	17.2	16.4	13.8	10.0	5.8	2.1	-0.3	-0.5	1.3	4.4	8.0	11.7	14.5	15.8	15.4	13.4	10.5	7.5	5.3
3-Jun	4.7	5.9	8.4	11.3	14.0	15.8	16.1	14.7	11.9	8.3	4.7	1.9	0.5	0.9	3.0	5.9	9.2	12.2	14.3	15.1	14.3	12.3	9.7	7.3
4-Jun	5.7	5.6	7.0	9.3	11.7	13.8	14.9	14.8	13.2	10.5	7.3	4.4	2.3	1.5	2.4	4.4	7.1	9.9	12.4	14.0	14.4	13.4	11.6	9.4
5-Jun	7.4	6.2	6.3	7.6	9.5	11.4	13.0	13.9	13.5	12.0	9.6	6.9	4.6	3.0	2.6	3.6	5.5	7.9	10.3	12.5	13.8	14.0	13.0	11.3
6-Jun	9.3	7.5	6.4	6.4	7.5	9.1	10.7	12.2	12.9	12.7	11.4	9.3	7.1	5.1	3.7	3.4	4.4	6.2	8.3	10.7	12.7	13.9	14.0	13.1
7-Jun	11.3	9.3	7.4	6.1	5.9	6.8	8.2	9.8	11.4	12.4	12.4	11.4	9.6	7.6	5.6	4.2	3.9	4.8	6.5	8.8	11.2	13.3	14.5	14.5
8-Jun	13.4	11.4	9.0	6.7	5.2	4.8	5.5	7.1	9.0	11.1	12.5	12.8	12.0	10.3	8.1	6.0	4.4	3.9	4.8	6.8	9.3	12.1	14.4	15.6
9-Jun	15.3	13.8	11.2	8.3	5.5	3.5	3.1	4.1	6.0	8.7	11.3	13.2	13.7	12.9	11.0	8.5	6.0	4.1	3.6	4.8	7.1	10.2	13.4	15.8
10-Jun	16.8	16.2	14.0	10.7	7.0	3.6	1.5	1.2	2.7	5.4	8.8	12.1	14.3	15.0	14.0	11.7	8.7	5.6	3.5	3.1	4.7	7.7	11.4	15.0
11-Jun	17.5	18.2	16.9	13.9	9.7	5.2	1.4	-0.8	-0.6	1.6	5.3	9.5	13.4	15.8	16.3	14.9	12.0	8.4	4.8	2.7	2.7	4.9	8.6	12.9
12-Jun	16.7	19.1	19.3	17.2	13.3	8.3	3.1	-1.0	-2.9	-2.0	1.2	5.7	10.7	14.8	17.3	17.5	15.5	11.9	7.7	3.8	1.8	2.4	5.4	9.8
13-Jun	14.5	18.4	20.4	20.0	17.1	12.3	6.5	0.9	-3.2	-4.4	-2.7	1.4	6.6	12.0	16.3	18.5	18.2	15.6	11.4	6.7	2.8	1.2	2.5	6.2
14-Jun	11.1	16.0	19.7	21.3	20.2	16.5	11.0	4.7	-1.0	-4.7	-5.2	-2.6	2.2	7.9	13.4	17.5	19.2	18.4	15.2	10.5	5.7	2.1	1.0	3.0
15-Jun	7.2	12.3	17.1	20.5	21.5	19.7	15.5	9.5	3.1	-2.3	-5.3	-5.0	-1.8	3.4	9.2	14.5	18.2	19.4	18.0	14.4	9.5	4.8	1.7	1.3
16-Jun	3.8	8.1	13.1	17.6	20.5	20.9	18.7	14.1	8.1	2.0	-2.8	-5.1	-4.1	-0.4	4.7	10.3	15.2	18.3	19.1	17.3	13.5	8.8	4.4	1.8
17-Jun	2.0	4.6	8.8	13.4	17.4	19.8	19.8	17.3	12.7	7.1	1.6	-2.5	-4.0	-2.5	1.1	6.0	11.1	15.5	18.1	18.4	16.4	12.7	8.3	4.5
18-Jun	2.4	2.7	5.2	9.0	13.0	16.5	18.4	18.2	15.8	11.6	6.6	1.9	-1.4	-2.4	-0.8	2.7	7.0	11.6	15.4	17.5	17.6	15.6	12.2	8.3
19-Jun	4.9	3.0	3.3	5.4	8.6	12.0	15.0	16.7	16.5	14.5	11.0	6.8	2.8	0.1	-0.5	1.0	4.0	7.8	11.8	15.1	16.9	16.9	15.1	12.1
20-Jun	8.6	5.4	3.5	3.5	5.1	7.7	10.7	13.4	15.0	15.1	13.6	10.8	7.4	4.1	1.8	1.2	2.4	5.0	8.3	11.9	14.9	16.5	16.5	14.9
21-Jun	12.2	8.9	5.7	3.7	3.3	4.3	6.4	9.2	11.8	13.7	14.2	13.3	11.1	8.3	5.4	3.2	2.6	3.5	5.7	8.7	12.1	14.8	16.4	16.4
22-Jun	15.0	12.3	9.0	5.7	3.4	2.6	3.3	5.2	7.9	10.8	12.9	13.9	13.4	11.7	9.2	6.4	4.2	3.5	4.2	6.2	9.2	12.4	15.1	16.6
23-Jun	16.6	15.0	12.2	8.7	5.1	2.6	1.6	2.2	4.2	7.2	10.4	12.9	14.1	13.9	12.4	9.9	7.0	4.7	3.9	4.7	6.8	9.8	13.1	15.7
24-Jun	17.0	16.7	14.9	11.8	7.9	4.1	1.5	0.6	1.4	3.8	7.2	10.7	13.4	14.7	14.5	12.8	10.1	7.0	4.7	4.1	5.1	7.4	10.7	14.0
25-Jun	16.4	17.4	16.7	14.4	10.8	6.6	2.6	0.2	-0.3	1.1	4.1	8.0	11.7	14.4	15.5	14.9	12.9	9.7	6.5	4.4	4.1	5.5	8.3	11.9
26-Jun	15.1	17.2	17.7	16.4	13.5	9.4	4.8	1.0	-1.0	-0.8	1.4	5.0	9.3	13.0	15.5	16.1	15.0	12.4	8.9	5.6	3.9	4.2	6.2	9.5
27-Jun	13.2	16.3	17.9	17.7	15.6	12.1	7.5	2.9	-0.5	-1.7	-0.6	2.4	6.6	10.9	14.5	16.4	16.4	14.6	11.4	7.6	4.6	3.5	4.5	7.3
28-Jun	11.0	14.6	17.3	18.2	17.2	14.4	10.2	5.4	1.1	-1.6	-1.7	0.3	3.9	8.4	12.7	15.7	17.0	16.2	13.6	10.0	6.3	3.8	3.5	5.3
29-Jun	8.6	12.4	15.9	17.9	18.1	16.3	12.7	8.1	3.4	-0.4	-2.0	-1.1	1.8	5.8	10.3	14.2	16.6	17.0	15.4	12.2	8.4	5.1	3.4	4.0
30-Jun	6.5	10.1	13.8	16.7	18.1	17.4	14.8	10.7	6.0	1.7	-1.1	-1.6	0.2	3.6	7.8	12.1	15.3	16.9	16.4	14.1	10.7	7.0	4.3	3.5

Tutka Bay Lagoon has limited access below tide levels of 14.5 feet. Numbers highlighted in yellow are minimum tide levels and green are optimal tides for accessing the lagoon.

July 2018 Tide Table (Seldovia)

Date	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1-Jul	4.9	7.8	11.4	14.7	17.0	17.6	16.1	12.9	8.7	4.3	0.7	-1.1	-0.6	1.9	5.6	9.7	13.4	15.9	16.6	15.4	12.7	9.2	6.1	4.1
2-Jul	4.1	6.0	9.1	12.4	15.2	16.8	16.5	14.5	11.0	6.9	3.1	0.4	-0.4	1.0	3.9	7.5	11.2	14.3	16.0	15.9	14.2	11.3	8.1	5.5
3-Jul	4.3	4.9	7.1	10.0	12.8	15.0	15.9	15.2	12.8	9.3	5.6	2.6	0.8	0.8	2.7	5.8	9.1	12.3	14.7	15.7	15.0	13.0	10.2	7.4
4-Jul	5.4	4.7	5.6	7.8	10.4	12.7	14.4	14.8	13.7	11.3	8.2	5.1	2.7	1.7	2.3	4.4	7.3	10.4	13.1	14.9	15.3	14.3	12.1	9.5
5-Jul	7.0	5.4	4.9	6.0	8.0	10.2	12.2	13.5	13.7	12.6	10.4	7.7	5.2	3.4	2.8	3.7	5.8	8.5	11.3	13.6	15.0	15.0	13.8	11.6
6-Jul	9.1	6.8	5.2	4.8	5.8	7.5	9.5	11.4	12.7	13.0	12.1	10.2	7.9	5.8	4.2	3.8	4.8	6.8	9.3	11.9	14.0	15.2	15.1	13.8
7-Jul	11.5	8.9	6.5	4.7	4.2	4.9	6.5	8.5	10.6	12.2	12.7	12.2	10.6	8.6	6.5	5.0	4.5	5.4	7.3	9.8	12.4	14.6	15.8	15.6
8-Jul	14.0	11.6	8.6	5.8	3.7	2.9	3.6	5.2	7.6	10.1	12.2	13.2	12.9	11.6	9.5	7.3	5.5	4.7	5.4	7.4	10.1	13.0	15.4	16.7
9-Jul	16.4	14.6	11.7	8.2	4.8	2.2	1.2	1.9	3.9	6.8	10.1	12.7	14.2	14.1	12.7	10.4	7.7	5.4	4.4	5.1	7.3	10.4	13.8	16.6
10-Jul	17.9	17.4	15.2	11.7	7.5	3.4	0.3	-0.8	0.2	2.9	6.6	10.6	13.9	15.6	15.5	13.8	10.9	7.6	4.8	3.6	4.5	7.2	10.9	14.8
11-Jul	17.9	19.2	18.5	15.7	11.4	6.4	1.6	-1.8	-2.7	-1.1	2.4	7.0	11.7	15.3	17.2	16.8	14.6	10.9	6.9	3.7	2.5	3.9	7.2	11.6
12-Jul	16.0	19.3	20.5	19.3	15.9	10.8	5.0	-0.3	-3.7	-4.2	-1.8	2.6	7.9	13.1	16.9	18.6	17.8	14.8	10.4	5.8	2.4	1.6	3.5	7.5
13-Jul	12.4	17.2	20.4	21.4	19.7	15.5	9.7	3.3	-2.1	-5.1	-4.9	-1.7	3.4	9.3	14.7	18.3	19.6	18.1	14.4	9.4	4.5	1.3	0.9	3.5
14-Jul	8.0	13.3	18.1	21.2	21.7	19.4	14.7	8.3	1.8	-3.4	-5.7	-4.6	-0.8	4.8	10.9	16.1	19.4	20.0	17.8	13.5	8.2	3.3	0.5	0.8
15-Jul	3.8	8.6	14.0	18.6	21.3	21.3	18.5	13.4	6.9	0.7	-3.9	-5.3	-3.5	0.8	6.5	12.4	17.2	19.8	19.7	17.0	12.4	7.0	2.5	0.3
16-Jul	1.1	4.4	9.2	14.2	18.4	20.6	20.1	17.0	11.9	5.8	0.2	-3.4	-4.1	-1.7	2.8	8.2	13.6	17.7	19.6	18.9	15.8	11.2	6.2	2.3
17-Jul	0.7	1.8	5.0	9.4	13.9	17.5	19.2	18.4	15.3	10.5	5.2	0.5	-2.2	-2.1	0.5	4.8	9.7	14.4	17.7	18.9	17.8	14.7	10.4	5.9
18-Jul	2.6	1.4	2.5	5.4	9.2	13.1	16.1	17.4	16.5	13.8	9.7	5.3	1.6	-0.3	0.2	2.7	6.5	10.8	14.7	17.3	18.0	16.7	13.7	9.9
19-Jul	6.1	3.2	2.2	3.1	5.5	8.6	11.9	14.4	15.5	14.8	12.6	9.4	6.0	3.1	1.8	2.4	4.6	7.8	11.4	14.6	16.6	17.0	15.7	13.1
20-Jul	9.8	6.5	3.9	2.8	3.3	5.1	7.6	10.4	12.7	13.9	13.7	12.1	9.7	7.1	4.8	3.7	4.2	6.0	8.6	11.6	14.2	15.9	16.2	15.1
21-Jul	12.9	10.0	6.8	4.3	3.0	3.1	4.4	6.6	9.2	11.5	12.9	13.2	12.2	10.5	8.2	6.2	5.1	5.4	6.8	8.9	11.6	14.0	15.5	15.8
22-Jul	14.9	12.9	10.1	6.9	4.3	2.8	2.6	3.6	5.7	8.4	11.0	12.7	13.3	12.8	11.3	9.1	7.1	5.9	5.9	7.0	9.1	11.6	14.0	15.5
23-Jul	15.8	14.9	12.8	9.9	6.6	3.7	2.0	1.8	2.9	5.3	8.4	11.2	13.2	14.0	13.5	11.9	9.6	7.3	5.9	5.9	7.1	9.3	12.0	14.4
24-Jul	15.9	16.1	15.0	12.6	9.3	5.7	2.7	1.1	1.1	2.7	5.6	9.0	12.1	14.2	14.8	14.1	12.0	9.3	6.7	5.4	5.6	7.1	9.7	12.7
25-Jul	15.2	16.6	16.5	14.9	12.0	8.2	4.2	1.3	0.0	0.7	3.0	6.5	10.3	13.5	15.3	15.6	14.2	11.5	8.3	5.7	4.6	5.3	7.5	10.6
26-Jul	13.9	16.3	17.3	16.6	14.4	10.8	6.5	2.4	-0.1	-0.7	0.8	4.0	8.1	12.1	15.0	16.4	15.9	13.7	10.4	6.9	4.4	3.9	5.4	8.3
27-Jul	11.9	15.2	17.4	17.8	16.4	13.3	9.1	4.4	0.6	-1.2	-0.7	1.7	5.6	10.1	14.0	16.4	17.0	15.6	12.6	8.7	5.2	3.3	3.7	6.0
28-Jul	9.5	13.4	16.6	18.2	17.9	15.5	11.6	6.9	2.3	-0.9	-1.7	-0.1	3.3	7.7	12.2	15.7	17.4	16.9	14.6	10.9	6.8	3.7	2.7	4.0
29-Jul	7.1	11.0	14.9	17.6	18.5	17.2	14.0	9.5	4.7	0.5	-1.6	-1.2	1.4	5.5	10.0	14.2	16.9	17.6	16.2	13.0	9.0	5.1	2.7	2.7
30-Jul	4.9	8.5	12.5	16.0	18.1	18.1	15.9	12.0	7.3	2.7	-0.5	-1.5	0.1	3.5	7.8	12.2	15.7	17.5	17.2	14.8	11.1	7.1	3.9	2.4
31-Jul	3.4	6.2	10.0	13.7	16.6	17.8	16.9	14.1	9.9	5.3	1.5	-0.7	-0.4	2.1	5.9	10.2	14.0	16.6	17.4	16.1	13.1	9.3	5.7	3.2

Tutka Bay Lagoon has limited access below tide levels of 14.5 feet. Numbers highlighted in yellow are minimum tide levels and those in green are optimal tides for accessing the lagoon.

August 2018 Tide Table (Seldovia)

Date	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1-Aug	2.7	4.4	7.5	11.1	14.4	16.5	16.9	15.4	12.1	8.0	4.0	1.1	0.1	1.3	4.4	8.3	12.1	15.2	16.9	16.7	14.7	11.4	7.8	7.8
2-Aug	3.1	3.3	5.4	8.5	11.7	14.4	15.8	15.6	13.7	10.4	6.8	3.6	1.7	1.5	3.4	6.6	10.2	13.4	15.8	16.6	15.7	13.3	10.1	6.9
3-Aug	4.4	3.3	4.0	6.1	9.0	11.7	13.8	14.8	14.2	12.3	9.4	6.4	4.0	2.8	3.2	5.3	8.4	11.5	14.2	15.9	16.1	14.9	12.4	9.3
4-Aug	6.5	4.4	3.6	4.3	6.3	8.7	11.0	12.8	13.6	13.2	11.5	9.2	6.8	4.9	4.1	4.8	6.8	9.5	12.2	14.5	15.8	15.8	14.4	12.0
5-Aug	9.1	6.4	4.4	3.5	4.1	5.7	7.8	10.0	11.8	12.9	12.8	11.6	9.7	7.7	6.1	5.3	5.8	7.5	9.9	12.3	14.5	15.8	15.8	14.5
6-Aug	12.2	9.3	6.5	4.2	3.0	3.2	4.5	6.5	8.9	11.1	12.7	13.1	12.4	10.8	8.9	7.1	5.9	6.0	7.4	9.6	12.2	14.5	16.1	16.4
7-Aug	15.2	12.9	9.8	6.5	3.6	1.8	1.7	2.9	5.2	8.1	11.0	13.2	14.2	13.7	12.1	9.9	7.5	5.8	5.4	6.7	9.0	12.0	14.8	16.9
8-Aug	17.5	16.4	13.8	10.2	6.2	2.5	0.2	-0.2	1.3	4.2	7.9	11.6	14.4	15.7	15.3	13.3	10.4	7.2	4.9	4.2	5.6	8.4	12.0	15.6
9-Aug	18.1	18.9	17.6	14.6	10.2	5.3	0.9	-1.8	-2.0	0.1	3.8	8.4	12.9	16.1	17.4	16.6	14.0	10.2	6.2	3.3	2.7	4.5	8.0	12.4
10-Aug	16.6	19.5	20.3	18.7	14.9	9.7	4.0	-0.9	-3.6	-3.3	-0.4	4.2	9.7	14.7	18.0	19.0	17.5	14.0	9.3	4.6	1.6	1.3	3.7	8.0
11-Aug	13.1	17.8	20.8	21.3	19.2	14.7	8.6	2.3	-2.7	-4.9	-3.8	0.0	5.5	11.5	16.6	19.6	20.0	17.7	13.2	7.7	2.8	0.0	0.3	3.5
12-Aug	8.4	14.0	18.9	21.7	21.7	18.9	13.7	7.2	0.7	-3.9	-5.2	-3.2	1.4	7.4	13.5	18.3	20.7	20.3	17.0	11.8	6.0	1.2	-1.1	0.0
13-Aug	3.8	9.2	14.9	19.5	21.8	21.3	17.9	12.2	5.6	-0.5	-4.2	-4.5	-1.6	3.5	9.6	15.4	19.5	21.0	19.7	15.7	10.2	4.4	0.1	-1.3
14-Aug	0.5	4.6	10.0	15.4	19.4	21.1	20.0	16.2	10.5	4.3	-0.8	-3.5	-2.8	0.7	5.9	11.7	16.7	19.9	20.5	18.3	14.0	8.6	3.4	-0.1
15-Aug	-0.7	1.5	5.6	10.6	15.3	18.6	19.7	18.1	14.2	9.2	3.8	-0.3	-1.8	-0.3	3.3	8.2	13.2	17.3	19.5	19.2	16.6	12.4	7.4	3.1
16-Aug	0.5	0.4	2.7	6.4	10.7	14.6	17.2	17.7	16.0	12.5	8.2	4.0	1.2	0.6	2.4	5.8	9.9	14.0	17.1	18.4	17.6	14.9	11.1	7.0
17-Aug	3.5	1.6	1.8	3.7	6.8	10.3	13.4	15.3	15.6	14.2	11.4	8.1	5.0	3.1	3.1	4.8	7.7	11.0	14.1	16.3	16.9	16.0	13.6	10.4
18-Aug	7.1	4.3	2.8	2.9	4.4	6.7	9.4	11.9	13.6	13.9	13.0	11.0	8.7	6.5	5.1	5.2	6.6	8.7	11.2	13.6	15.2	15.6	14.8	12.9
19-Aug	10.4	7.7	5.3	3.8	3.6	4.5	6.2	8.4	10.6	12.2	12.9	12.6	11.4	9.7	8.0	6.7	6.6	7.5	9.0	11.0	12.9	14.3	14.8	14.2
20-Aug	12.8	10.7	8.3	5.9	4.3	3.7	4.1	5.4	7.4	9.7	11.6	12.7	12.9	12.1	10.7	9.0	7.6	7.1	7.6	8.8	10.5	12.4	13.9	14.6
21-Aug	14.3	13.1	11.1	8.6	6.0	4.0	3.1	3.3	4.7	7.0	9.6	11.9	13.3	13.7	13.0	11.4	9.3	7.6	6.8	7.1	8.3	10.2	12.4	14.2
22-Aug	15.0	14.8	13.5	11.3	8.3	5.3	3.1	2.2	2.6	4.4	7.3	10.3	12.9	14.4	14.6	13.5	11.4	8.8	6.7	5.9	6.3	7.9	10.4	13.1
23-Aug	15.0	15.9	15.4	13.7	10.8	7.3	3.9	1.7	1.2	2.2	4.8	8.3	11.8	14.4	15.6	15.3	13.5	10.6	7.5	5.3	4.7	5.8	8.1	11.3
24-Aug	14.3	16.3	16.9	15.8	13.3	9.7	5.6	2.1	0.3	0.5	2.6	6.0	10.1	13.7	16.0	16.6	15.4	12.6	9.0	5.6	3.7	3.8	5.8	9.0
25-Aug	12.7	15.9	17.6	17.5	15.6	12.2	7.8	3.4	0.3	-0.6	0.7	3.8	8.0	12.4	15.8	17.4	17.0	14.7	11.0	6.9	3.6	2.4	3.5	6.4
26-Aug	10.4	14.4	17.4	18.6	17.6	14.7	10.4	5.5	1.3	-1.0	-0.8	7.7	5.8	10.5	14.8	17.5	18.1	16.6	13.2	8.8	4.6	1.9	1.8	4.0
27-Aug	7.8	12.2	16.1	18.6	18.8	16.9	13.0	8.1	3.2	-0.4	-1.5	0.1	3.7	8.4	13.1	16.8	18.6	18.0	15.3	11.0	6.4	2.6	0.9	2.0
28-Aug	5.2	9.5	13.9	17.4	19.0	18.3	15.3	10.8	5.7	1.4	-1.1	-0.8	2.0	6.3	11.1	15.4	18.2	18.7	17.0	13.3	8.6	4.2	1.3	0.8
29-Aug	2.9	6.8	11.2	15.3	18.1	18.7	17.0	13.3	8.6	3.9	0.4	-0.7	0.9	4.5	9.1	13.6	17.0	18.7	18.0	15.2	11.0	6.5	2.7	0.8
30-Aug	1.4	4.3	8.4	12.6	16.0	17.9	17.6	15.2	11.2	6.7	2.9	0.6	0.7	3.2	7.2	11.6	15.4	17.8	18.3	16.6	13.2	8.9	4.9	2.0
31-Aug	1.1	2.5	5.7	9.6	13.2	15.9	16.9	16.0	13.3	9.6	5.7	2.9	1.7	2.7	5.7	9.6	13.4	16.3	17.8	17.3	15.0	11.5	7.5	4.1

Tutka Bay Lagoon has limited access below tide levels of 14.5 feet. Numbers highlighted in yellow are minimum tide levels and those in green are optimal tides for accessing the lagoon.



U.S. COAST GUARD SECTOR JUNEAU



April 6, 2016

MARINE SAFETY INFORMATION BULLETIN

Fishing Vessels Carrying Freight for Hire

Ref: (a) Title 46 United States Code Section 3302
(b) Title 46 United States Code Section 2101

This safety bulletin is published to clarify the requirements for commercial fishing vessels which carry freight for hire under the exemption provisions outlined in reference (a).

Background – There are several exemptions listed under reference (a) that apply to commercial fishing vessel activities in Alaska. References (a) and (b) define vessels and activities exempt from freight vessel inspection laws, which includes fishing and fish processing vessels greater than 15 gross tons (GT), but not more than 500GT if:

- a) The vessel transports cargo (including fisheries-related cargo) to or from a place in Alaska; and
- b) That place in Alaska does not receive weekly common carrier service by water from a place in the U.S.; or
- c) That place receives such common carrier service and the cargo is of a type not accepted by that common carrier; or
- d) The cargo is proprietary cargo owned by the owner of the vessel or any affiliated entity or subsidiary.

The law is intended to allow fishing vessels, although uninspected, to deliver freight to “remote” fishing villages to support their operations. These villages do not have the infrastructure to support larger freight vessels, and yet, still have a means of having freight delivered legally and safely.

How to Obtain an Exemption – Any fishing vessel seeking to or currently carrying freight under the authority of these exemptions must provide the following proof each year and have their vessel examined annually by the Coast Guard:

- a) Certificate of Documentation endorsed for fisheries as required by *46 Code of Federal Regulation (CFR) Part 67*;
- b) Provide fish tickets to prove the vessel is acting as a fishing vessel; or
- c) Contract agreements with other fishery related activities; and
- d) Have a valid Commercial Fishing Vessel Safety Decal; and
- e) Proof of an incline test and stability instructions as required by Reference (a) and *46 CFR 28 (Fish Tenders Only)*

Penalties – Failure to comply with the requirements of reference (a) and/or this bulletin could result in the vessel owners, operators, charters, and/or masters receiving a monetary penalty of up to \$2,200 per day, per violation.

Contact – Commercial fishing vessels desiring an exemption to carry freight for hire shall contact the Sector Juneau, Inspection Division at: sectorjuneauinspections@uscg.mil. For any questions regarding compliance with References (a) and (b) or this MSIB, please contact the Chief, Inspection Division, Lieutenant Ryan Butler at (907) 463-2477.

Sincerely,

A handwritten signature in blue ink that reads "S. D. Greene".

S. D. GREENE
Captain, U. S. Coast Guard
Officer in Charge, Marine Inspection
Southeast Alaska



U.S. COAST GUARD SECTOR JUNEAU



October 30, 2015

MARINE SAFETY INFORMATION BULLETIN

Merchant Mariner Credential (MMC) Requirements for Commercial Towing Vessel Operations

Ref: (a) Title 46 Code of Federal Regulations Part 11.464 to 11.466
(b) Title 46 Code of Federal Regulations Part 15.610
(c) Title 46 United States Code Section 2101
(d) Title 46 United States Code Section 8904

This Marine Safety Information Bulletin (MSIB) is published to reiterate the MMC requirements for masters and operators who operate commercial towing vessels.

Background – As Officer in Charge, Marine Inspection Southeast Alaska, it has come to my attention that numerous mariners operating commercial towing vessels in Southeast Alaska may be doing so without an appropriate MMC and/or towing endorsement as required per references (a) through (d).

Requirements – Every towing vessel of 26 feet or greater as defined in reference (b) that is engaged in commercial service where consideration is given shall be operated by a licensed individual with the appropriate endorsements for the size and class of vessel per references (a) through (d).

Towing vessel is defined under reference (c) as a commercial vessel engaged in or intending to engage in the service of pulling, pushing, or hauling along side, or any combination of pulling, pushing, or hauling along side.

How to Obtain an MMC with the Correct Endorsement – Contact the Coast Guard Regional Exam Centers in Juneau at (907) 463-2458 or Ketchikan at (907) 225-4496. You can also visit the National Maritime Center's website at www.uscg.mil/nmc.

Penalties – Failure to comply with requirements of reference (b), which includes licensed mariners operating a vessel outside the scope of their MMC, will result in termination of their voyage. Vessel owners, operators, charterers and/or masters not adhering to these requirements may also receive a monetary penalty of up to \$27,500 per day, per violation.

Contact – Any questions regarding compliance with references (a) through (d) and this MSIB can be directed to the Chief, Inspections Division, Lieutenant Ryan Butler at (907) 463-2477 or Ryan.Butler@uscg.mil.

Sincerely,

A handwritten signature in blue ink that reads "S. D. Greene".

S. D. GREENE
Captain, U. S. Coast Guard
Officer in Charge, Marine Inspection
Southeast Alaska

COOK INLET AQUACULTURE ASSOCIATION TRANSPORT AND CAPTURE BID 2018

BIDDER INFORMATION PLEASE COMPLETE ALL SECTIONS BELOW

Company Name:

Representative Name:

Email Address:

Phone:

Street/PO Box address:

City:

State:

ZIP Code:

FRY AND SMOLT TRANSPORT PLEASE COMPLETE ALL SECTIONS BELOW

Not Bidding

1.0 Resurrection Bay

Net Pen Set Up and Removal, Sockeye Smolt Transport to Pens, Tow Net Pens with Sockeye Smolt to Thumb Cove for Release

\$ per

2.0 Tutka Bay Lagoon

Head of Bay Net Pen Set Up and Removal, Sockeye Smolt transport to Tutka Bay Lagoon, Pink Fry Transport to Head of Bay

\$ per

3.0 Head of Tutka Bay Net Pens

Feed pink salmon fry, monitor net pens, fish food delivery

\$ per

4.0 Port Graham Bay

Net Pen Set up and Removal

\$ per

Qualifications/Hold Information/Other

BROODSTOCK CAPTURE PLEASE COMPLETE ALL SECTIONS BELOW

Not Bidding

5.0 Tutka Bay

Lensing Bag Set Up and Removal, Capture of Sockeye Salmon Broodstock

\$ per

5.0 Port Graham Bay

Capture of Pink Salmon Broodstock

\$ per

**COOK INLET AQUACULTURE ASSOCIATION
TRANSPORT AND CAPTURE BID
2018**

Qualifications/ Hold Information/ Other

Signature of Bidder:

Date:

Signature of CIAA Representative for Receipt of Bid

Date:

Time: