

2026 ANNUAL MANAGEMENT PLAN

SOLOMON GULCH HATCHERY

Valdez Fisheries Development Association, Inc.

This Annual Management Plan (AMP) is prepared to fulfill the requirements of 5 AAC 40.840. This plan is prepared to guide hatchery operations in accordance with the hatchery permit. The plan must be developed with consideration of the hatchery's production cycle and must organize and guide the hatchery's operations regarding production goals, broodstock management, and harvest management of hatchery-produced salmon. The production cycle begins with adult returns, that lead to egg takes and end with fish releases. Action may be taken outside of the management plan if allowed under the hatchery permit or modified by emergency order. In season assessments and project alterations by Valdez Fisheries Development Association (VFDA) or Alaska Department of Fish and Game (ADF&G) may result in changes to this AMP in order to reach or maintain program objectives. VFDA will notify the ADF&G private nonprofit (PNP) hatchery program coordinator in a timely manner of any departure from the AMP. The ADF&G PNP coordinator will advise as to whether an amendment, exception report, or other action is warranted. No variation or deviation will be implemented until an AMP amendment has been approved or waived by both the department and VFDA. This policy applies to all hatchery operations covered under the AMP.

I. OPERATIONAL PLAN

1.1 Egg-take Limits

Pink Salmon: The target number of pink salmon eggs is 270.0 million. Broodstock requirement is 408,702 fish, assuming:

- a. 1,700 eggs/female
- b. 50/50 female to male sex ratio
- c. 10% holding mortality
- d. 5% overripe/green fish
- e. 35,000 creek spawners (above and below weir)
- f. Adequate brood fish return to the brood exclusion zone (BEZ) and volitionally enter the hatchery. The escapement to the hatchery should be adequate to satisfy all broodstock needs and donors from other sources will not be required.

Coho Salmon: The target number of coho salmon eggs is 2.0 million. Broodstock minimum requirement is 1,058 fish, assuming:

- a. 4,367 eggs/female
- b. 50/50 female to male sex ratio
- c. 10% holding mortality
- d. 5% overripe/green fish

All eggs will be taken at SGH.

1.2 Broodstock Acquisition Schedule

Pink salmon

A minimum of 408,702 pink salmon are needed for entry into the fish ladder. VFDA will be guided in its broodstock collection as follows:

- 1) To ensure that the run timing is proportionally represented in broodstock, a collection schedule will be implemented based on the run-timing percentages by date, to establish a broodstock collection goal by week. The collection schedule is based on historical run-entry data (Table 1A).
- 2) Broodstock collection will be prioritized above cost recovery.
- 3) A BEZ will be established between SGH and Allison Point. This zone will be used to regulate the cost-recovery fleet to ensure broodstock and quality of sales fish. The BEZ is the area adjacent to the hatchery and inside Allison Point where brood fish traditionally stage.

Coho salmon

Broodstock collection will begin as fish return to the hatchery facility in late August through the end of September (Table 3A). A formalin fungal treatment may be administered to these brood fish according to Investigational New Animal Drug (INAD) regulations to reduce broodstock losses while being held.

In the event that coho salmon broodstock needs cannot be met due to inadequate adult returns to SGH, coho salmon eggs may be collected from Corbin Creek for use at SGH in order to satisfy egg-take goals.

The following conditions apply:

- 1) Regional ADF&G Division of Sport Fish staff, Prince William Sound (PWS) area management biologist (AMB) and Division of Commercial Fisheries staff (PWS purse seine AMB) shall be notified far enough in advance to schedule a survey of Corbin Creek prior to any egg takes;
- 2) No egg takes will be allowed without escapement surveys conducted by representatives of VFDA; and
- 3) The following removal schedule will be adhered to:
Stream Name: Corbin Creek
AWC Code: 221-60-1138-2095
Minimum Escapement Goal: 1,600 coho salmon
Desired Escapement Goal (DEG): 2,500 coho salmon

If total escapement enumeration is:	Left in stream:	Removed for hatchery ¹
Less than 1,600 fish	1,600 + (60% over 1,600)	None
More than 1,600 fish	1,735 + (50% over 1,825)	90 + (50% over 1,825)
More than 1,825 fish	1,848 + (40% over 2,050)	203 + (60% over 2,050)
More than 2,275 fish	1,938 + (30% over 2,275)	338 + (70% over 2,275)
More than 4,149 fish	2,500	1,649

¹ No more than half may be female and total take shall not exceed the specified egg-take goal. All pre egg-take mortalities count as part of the hatchery's allocation. Such mortalities can only be replaced after the stream's DEG is obtained and shall not exceed 25% of the hatchery's adult take goal.

1.3 Egg-take Schedule

The pink salmon egg-take schedule for 2026 is detailed in Table 2A and is based on recent trends.

The coho salmon egg-take schedule is detailed in Table 3A and will occur as fish ripen at the hatchery facility, from mid-September through the end of October. It is the intent of VFDA to keep the early coho salmon run on its historical schedule to optimize the sport fishery and processing markets.

1.4 Egg Transport and Broodstock Carcass Disposal Plans

Fertilized eggs or gametes intended for incubation will not be transported off-station. The carcass of a salmon from which the milt or eggs are extracted for lawful use as broodstock and not used for fertilization may be disposed of in accordance with 5 AAC 93.350(d). If carcasses are disposed of, eggs not used for fertilization will not be removed from more than 10% of the female broodstock. If the carcasses disposed of, in which eggs are removed and sold, exceeds 10% of the female broodstock, the department will be notified immediately and proceeds from the sale of the eggs will be surrendered to the state. Broodstock carcasses will be processed in accordance with Alaska Department of Environmental Conservation (DEC) requirements and discarded into deep water as stated below. However, VFDA may sell broodstock carcasses if a market is available. Roe in excess of 10% of broodstock requirements may be removed, if a lawful use of those carcasses is available, and revenue from the roe is considered part of cost recovery.

Pink Salmon: Eggs taken at SGH will be fertilized and delivered (approximately 50 yards) to the incubation building for seeding and water hardening in deep matrix incubators. In 2026, VFDA will continue to establish nonhuman consumption markets for hatchery broodstock carcasses. Those broodstock carcasses that cannot be sold will be given away, ground, or transported to deep water in Port Valdez. VFDA has received general hatchery permit AKG130029 to discharge ground fish waste into a ZOD as defined under the NOI, if necessary. Whole fish may be disposed of in deep water, according to the Carcass Disposal Plan portion of the AKG130029 permit. Grinding equipment was installed in 1995 to allow for efficient carcass disposal in the event there is no market for salmon broodstock carcasses. Non-traditional markets for utilization of this byproduct may also be sought. A complete utilization of pink salmon carcasses associated with the egg take and roe

recovery was realized in 2010. Final sales and distribution agreements and procedures for 2026 have not been prepared at this time.

Coho Salmon: Eggs taken at SGH will be treated the same as the pink salmon eggs, with the exception that an iodophor egg disinfection treatment will also be given immediately after all eggs are loaded into the incubators. Coho salmon broodstock carcasses will be offered to the public for dog food or other nonhuman consumption uses. Those broodstock carcasses that cannot be sold will be ground or transported to deep water in Port Valdez in accordance with AKG130029 permit, as stated above

1.5 Incubation Plans

Standard incubation plans for eggs spawned at SGH are summarized below:

Species	Incubator Type	Number of Units	Eyed Egg Loading (per unit)	Total Eyed Eggs	Total Green Eggs Required	Estimated Fry to Release
Pink salmon	NOPAD S48	672	283,196	190,307,700	270,000,000	256,500,000
		56	1,423,077	79,692,300		
Coho salmon	NOPAD	16	~125,000	2,000,000	2,000,000	1,820,000

The above table was generated with the following assumptions (based on last ten years of data):

1. 95% survival from green egg to fry release for pink salmon.
2. 91% survival from green egg to smolt release for coho salmon.

All eggs will be incubated at the SGH during 2026.

1.6 Rearing and Release Plans

Pink Salmon: All pink salmon fry surviving from the 270 million eggs taken in 2025 will be reared and released at the SGH site in the spring of 2026. Fry will be pumped via a six-inch plastic pipe to the net pens. Outmigration from the incubators is non-volitional with enumeration by book inventory. Fish will be fed either by hand or with mechanical feeders using commercial rations. Pink salmon will be released by lowering a portion of the net pen's side. Staggered releases will occur based on previous growth and the measured plankton population growth curve. It has been the experience at SGH, through extensive research, that the best runs occur from an early release on the zooplankton bloom rise and a very late release of large 0.75 to 1.0 gram fry. Approximately 65% of the fry will be released at the plankton bloom and approximately 35% of the fry held for late release. This schedule avoids the possible interference and hazards occurring near shore to the whole year class. Release timing may vary due to environmental conditions, work schedules, and abundance of predators.

Coho Salmon: Rearing will occur in indoor raceways until May 2026 when they will be transferred to saltwater net pens for grow-out to 18 to 20 grams. Feeding is done by a mechanical feeder using commercial rations. They will be held in net pens for approximately 2-6 weeks for imprinting and growth while being fed and released in mid-June. In October 2025, approximately 2.0 million coho

salmon eggs were taken at SGH. They will be held in NOPAD incubators until swim-up in May 2026. The resultant fry will be reared in freshwater raceways until May 2027, when they will be transferred to saltwater net pens for grow-out to 18 to 20 grams. They will be released as yearling smolts in mid-June of 2027.

Chinook Salmon: VFDA does not intend to egg take, incubate, or rear any Chinook salmon under its permitted capacity for 2026.

1.7 Fry Transport Methods

Twenty-thousand coho salmon smolts may be transported in tanks, by boat, to a saltwater net pen near Tatitlek in Boulder Bay. The transport will be done in fresh water, with salt added for stress reduction. Standard fish transport equipment, using recirculation and bottled oxygen, will be used and carried on board a transport vessel provided by the Village of Tatitlek.

1.8 Planned Releases This Calendar Year

Program Name	Brood Year	Estimated Release Date	Estimated Number	Release Life Stage	Type & % Mark	Hatch Code
Early Release Pink Salmon	2025	4/25-5/14/26	165,465,780	Fry	TM, 100%	6H
Late Release Pink Salmon	2025	4/29-5/23/26	89,096,959	Fry	TM, 100%	6H
SGH Coho Salmon	2024	6/7-6/20/26	1,682,933	Smolt	TM, 100%	6H
Boulder Bay Coho Salmon	2024	5/25-6/5/26	19,800	Smolt	TM, 100%	6H

1.9 Previous Brood Years Remaining in Culture During Entire Calendar Year

Program Name	Brood Year	Estimated Number (Jan. 1) ¹	Estimated Release Number ¹	Estimated Release Date	Life Stage
SGH Coho Salmon	2025	2,152,291	1,980,108	6/1-6/20/27	Eyed eggs
Boulder Bay Coho Salmon	2025	n/a ²	19,800	5/15-6/5/27	Eyed eggs

¹Estimated numbers based on preliminary sampling and raceway survival.

²Approximately 20,000 smolt of planned SGH released coho will be moved to Boulder Bay.

2.0 Permitted Capacity

In 1981, VFDA was issued Private Nonprofit (PNP) hatchery permit #15. SGH is presently permitted for 270.0 million green pink salmon eggs, 2.0 million green coho salmon eggs, and 300,000 green Chinook salmon eggs. All permitted releases are from the SGH, except for a 20,000 coho salmon smolt release at Boulder Bay. In 2012, SGH experienced a poor run of coho salmon and as a result of minimal brood fish escapement to the hatchery, received FTP 12A-0123. If the coho salmon run to SGH is inadequate to meet egg-take goals, broodstock may be taken from the original donor stock of Corbin Creek as conditioned by the local AMB. The following table summarizes the current fish transport permits (FTPs) issued to VFDA.

Fish Transport Permit (FTP)	Expiration Date	Species	Ancestral Stock	Purpose
16A-0018	12/31/2028	pink salmon	Vlassof/ Gregorieff	Allows taking 270.0 million Vlassof / Gregorieff perpetual stock pink salmon eggs at SGH, incubation at SGH, and release at Port Valdez. Even-year broodline.
16A-0017	12/31/2028	pink salmon	Siwash	Allows taking 270.0 million Siwash stock pink salmon eggs at SGH, incubation at SGH, and release at Port Valdez. Odd-year broodline.
21A-0002	1/1/2031	coho salmon	Corbin Cr	Allows taking of 2.0 million eggs at SGH, incubation at SGH, and release at Port Valdez.
21A-0001	4/1/2031	coho salmon	Corbin Cr	Allows transport of 20,000 coho salmon smolt from SGH to Boulder Bay for release at Tatitlek.
12A-0123	12/31/2028	coho salmon	Corbin Cr	Allows for the backup egg take of 2.0 million eggs from Corbin Creek to supplement egg-take goals if inadequate returns and transfer to SGH.
24A-0021	12/31/2028	coho salmon	Corbin Cr	Allows for the backup egg take of 2.0 million eggs from Wally Noerenberg Hatchery to supplement egg-take goals if inadequate returns and transfer to SGH.

II. DONOR STOCK MANAGEMENT

Hatchery runs of pink and coho salmon are anticipated to be sufficient to meet broodstock goals in 2026 and no other donor stock management is anticipated.

III. HATCHERY RETURN MANAGEMENT

3.1 Probable Hatchery Fish Migration Routes and Timing

Data from tagging and commercial harvest indicates that fish returning to the hatchery normally follow the east and west shoreline of Valdez Arm and Narrows when entering Port Valdez. Hatchery fish often school inside Jack Bay on the north shore, and along both the northern and southern shores of Port Valdez.

Pink salmon broodstock selection for SGH has emphasized the earliest feasible timing to minimize intermixing of hatchery and wild stocks. Most of the hatchery pink salmon run should be present in the approach and terminal areas of Port Valdez between mid-June and mid-July. Run entry into Port Valdez to support cost recovery efforts historically begins in late June and the majority of

commercial harvest targeting SGH pink salmon is expected to conclude by end of July.

3.2 Special Harvest Area

A 1,000-yard special harvest area (SHA) adjacent to the hatchery is described in the *SGH Management Plan* (5 AAC 24.366). This area is designated for the cost-recovery harvest of pink salmon in excess of broodstock needs. The SHA boundary prior to July 5 has been extended westward to include the terminal harvest area (THA), as shown in Figure 1A. The hatchery operator will be permitted to harvest sales fish inside the THA until July 5. Beginning July 5, the SHA is redefined as all waters within a 1,000 yard radius of the terminus of Solomon Gulch Creek. In consultation with ADF&G, boundaries may be adjusted by emergency order (EO) in season for various run timing and run-size criteria.

Coho salmon taken for cost-recovery will be removed from the hatchery raceways. After September 7, 2026 (Labor Day), common property openings may occur in the THA and/or SHA to harvest surplus coho salmon. Based upon in-season assessment of wild stock escapement and other in-season considerations, the THA and SHA boundaries may be changed by EO to include portions, or all, of the Valdez Narrows subdistrict.

In the event the SHA is opened to the common property fisheries (CPF), the boundaries will be designated by a combination of shore markers and anchored buoys, or GPS lines. Shore markers may also be installed to designate boundaries of the THA. It will be the responsibility of VFDA to ensure the SHA markers and buoys are in place and meet the requirements of Alaska Wildlife Troopers (AWT). It is the responsibility of AWT to enforce the boundaries.

3.3 Hatchery Run to the Special Harvest Area (SHA)

Pink Salmon: VFDA's 2026 anticipated pink salmon run to SGH is 10,179,564 million fish, assuming a 5.56% marine survival from the 2025 fry release of 183,087,306 fish. A total of 408,702 salmon will be needed to meet egg-take objectives at the hatchery. The 2026 harvest revenue goal is approximately \$4,814,979. The 2026 VFDA pink salmon run will be managed on meeting the revenue goal.

The number of pink salmon available to the CPF will depend on a combination of marine survival, average adult fish weight, and the price per pound received by VFDA for cost-recovery fish. Average adult weight and price per pound assumptions are the same for each case. The even-year brood marine survival rate varies from 1.69% at the low range to 11.64% at the high range.

VFDA's standard business plan is based on the average run of 6.33% over its 43-year history. VFDA's projected run for 2026 is 5.56%, based on the average of the last ten, even-year runs. The ranges are based on the average of SGH's last ten even-year runs, with a 50% reduction for the low and a 50% increase for the high. The forecast range assumptions are generic predictions showing possible revenue scenarios for VFDA and CPF harvests. At the midrange, VFDA would achieve the revenue goal and the CPF harvest will approach 64.5% of the run. At the high range, VFDA would achieve the revenue goal and the common property harvest will approach 76.3% of the run. At the low range, VFDA will achieve its revenue goal and the CPF harvest will approach 28.8% of the run. If run strength falls below the low-range projection, VFDA may suffer a revenue shortfall. If there

is a run failure, and revenue shortfall, VFDA would reduce the operating budget to an existence basis, pursue emergency loan relief, and use a portion of its run failure fund. The CPF would be reduced as much as possible.

VFDA will place all revenue from pink salmon roe sales into the operating budget to reduce any deficits from pink salmon fish sales. Any revenue generated from pink salmon roe or flesh sales in excess of the operating budget will be applied to debt retirement, capital improvement projects (CIPs), emergency funds, or carried to next year's revenue.

VFDA Pink Salmon Return Assumptions for 2026

	Return range		
	Low	Mid	High
% survival	2.780%	5.560%	8.340%
Adult return estimate	5,089,827	10,179,654	15,267,481
Adult average weight (lb)	3.33	3.33	3.33
Price/lb	\$0.45	\$0.45	\$0.45
Revenue goal	\$4,814,979	\$4,814,979	\$4,814,979
Broodstock	408,702	408,702	408,702
Sales fish needed (cost recovery)	3,213,199	3,213,199	3,213,199
Total fish required by VFDA	3,621,901	3,621,901	3,621,901
Fish surplus to hatchery needs (CPF harvest)	1,467,926	6,557,753	11,647,580
% Contribution to CPF	28.8%	64.4%	76.3%

Note: Price/lb, fish required by VFDA, and adult average weights are only estimates at this time.

Coho Salmon: The 2026 adult run of coho salmon to the hatchery is anticipated to be 53,841 fish, assuming a 3.22% (last 10-year avg.) marine survival for brood year 2023 smolt release of 1,672,096. A total of 1,058 coho salmon will be needed to meet egg-take objectives. The harvest of coho salmon includes carcasses for human and animal consumption, and the harvest of roe for human consumption. The sales harvest goal of \$30,000 is based on an average weight of one pound of roe per coho salmon and an average price of \$3.00 per pound, 50% female. Due to unpredictable interception rates, surplus into the hatchery (cost-recovery sales), is highly variable and unpredictable, so VFDA will place all revenue from coho salmon sales into the operating budget to reduce any deficits from pink salmon sales. Any revenue generated from coho salmon roe or flesh sales, in excess of the operating budget, will either be used for debt retirement, CIPs, emergency funds, or the balance carried to next year's revenue.

VFDA's Coho Salmon Return Assumptions:

The 2026 VFDA coho salmon forecast is 53,841 fish, based on the last ten-year average. Estimated harvest by hatchery and CPF groups vary greatly due to abundance, effort, and management goals.

Hatchery escapement

Broodstock	1,058	Sales harvest goal = \$30,000
Surplus in hatchery	<u>8,451</u>	
Total hatchery use (17.7%)	9,509	

Common property harvest

Commercial (27.3%)	14,734
Sport (55.0%)	<u>29,598</u>
Total return	53,841

Note:

- 1) VFDA average broodstock/surplus over previous 10-year period from BY 2013-2022.
- 2) Commercial harvest (calculated from removing known hatchery/broodstock and sportfish components).
- 3) Sport harvest 10-year average (2010-2019) taken from ADF&G data from FMR No. 21-31 (<http://www.adfg.alaska.gov/FedAidPDFs/FMR21-31.pdf>). This sport contribution is the estimated coho salmon harvest in the Valdez area, which is mostly SGH fish but does not separate out SGH from natural-origin fish. Still, this may underestimate SGH contribution as SGH coho salmon may be harvested in Eastern PWS, North Gulf Coast, and sport fisheries in other areas.

3.4 Other Cost-recovery Harvests and Carcass Disposal

VFDA has pursued the option of selling surplus salmon roe for corporate revenue. A surplus results from fish rejected at the rack due to ripeness or eggs in excess of incubation needs. Since 2003, VFDA has processed surplus eggs into caviar with positive results. The results are intended to reduce round fish sales for cost recovery in the future.

Carcasses from broodstock with eggs rejected at the egg-take rack will be utilized and disposed in a manner consistent with appropriate salmon regulations and permitting requirements (5 AAC 93.350). Carcasses resulting from on-water egg recovery may be frozen and shipped to human and nonhuman consumption markets depending on quality.

3.5 Separation of Brood and Sales Fish

In 1993, VFDA designated a BEZ within and adjacent to the SHA, Figure 1A. The purpose for minimizing commercial harvest in this exclusion zone is to protect broodstock fish that have staged along the tide flats inside of Allison Point and adjacent to SGH. This method of protection has proven to be very effective at giving sanctuary to broodstock fish, while still allowing cost-recovery harvest to proceed elsewhere in the SHA. Both cost recovery and common property harvest may occur within the BEZ should circumstances favor a commercial opening.

Broodstock will be collected by volitional entry through the fish ladder leading into the concrete raceways located just above tidal influence at the hatchery.

3.6 Probable CPF Exploitation Rates of Hatchery Fish

It is the intent of ADF&G to provide an escapement for the stated corporate revenue goal. Effective management of mixed stock fisheries is difficult. Achievement of this goal depends upon precise in-season assessment of both wild stock and hatchery run strengths. Depending upon the precision of in-season run assessment, the actual percentage provided for hatchery escapement may fall above or

below the stated goal. Hatchery escapement includes: (a) the number of broodstock or spawners required to perpetuate and achieve production objectives; and (b) the number of hatchery-produced fish taken for the hatchery harvest requirement, to be used to pay for the hatchery's reasonable operating and capital costs (5 AAC 40.990(6)).

Pink Salmon: The exploitation rate of hatchery fish (the percent contribution to the CPF) ultimately depends on the strength of the hatchery run, the average weight, fish price, and management actions taken by the ADF&G in the Valdez Arm area to assist the hatchery in meeting its escapement goals. VFDA's goal is to provide as much of its hatchery production as possible to the CPF.

Coho Salmon: If the anticipated hatchery run of 53,841 is realized, a CPF exploitation rate of 82.3% would allow sufficient fish into the hatchery to meet sales and broodstock objectives. It is possible that the combined exploitation rates of the commercial and sport fleets will be substantially below this level, thereby allowing significant numbers of surplus fish to move into the hatchery. In this case, these fish will be harvested and sold by the hatchery operator.

3.7 Management Strategies

This will be the 44th year of pink salmon returns to SGH. Management of the SGH pink salmon run is governed by a regulatory management plan adopted by the Alaska Board of Fisheries in December 1986 (5 AAC 24.366). This plan directs ADF&G to manage the Valdez Narrows subdistrict and waters of Valdez Arm north of the latitude of Rocky Point to assist in achievement of SGH pink salmon cost-recovery and broodstock escapement goals.

Pink Salmon Returns: The SGH SHA will be expanded to include the THA and be opened by EO for the hatchery operator to harvest fish for sale beginning in middle to late June. VFDA hatchery staff will conduct a daily sampling program that will provide sex ratio and daily cost-recovery harvest data for the hatchery run. Hatchery staff will provide this information to ADF&G Cordova Division of Commercial Fisheries area management biologists on a daily basis to facilitate a regulated harvest of surplus fish. Daily data collection will be evaluated against the anticipated run entry and revenue table built from historical timing data of the Solomon Gulch stock (Table 1A). As the run progresses, cost-recovery information and run strength estimates will be updated each day.

The season opening in the Eastern and Northern districts is based on the strength of the early natural pink and chum salmon stocks returning to these districts. Because these districts have the earliest wild stock systems in Prince William Sound, the Eastern and Northern districts are generally the first seine districts to open. Openers are not likely to occur until wild stock escapements can be evaluated.

The cost-recovery fleet will fish aggressively to keep the cumulative cost-recovery revenue on or ahead of the cost-recovery goal (Table 1A). ADF&G will manage the commercial CPF in the Valdez Narrows subdistrict according to the cost-recovery revenue goal. If sex ratio trends and harvest rates indicate that the broodstock and sales goals cannot be met, then more extensive closures expanding into Valdez Arm may be implemented on subsequent Eastern District openings.

Closed waters at the head of Port Valdez described in 5 AAC 24.350(3)(O) create a boundary near the hatchery that is difficult for seiners to legally fish during openings inside Port Valdez. This important boundary protects hatchery broodstock and sales fish during Port Valdez openings, and as

a result, often commands attention by enforcement personnel. After wild stock and hatchery escapement needs have been adequately addressed, VFDA recommends that ADF&G adjust the closed water boundaries, as necessary inside Port Valdez, to efficiently harvest available surpluses near the hatchery. Should boundaries near the hatchery be adjusted for openings inside Port Valdez, VFDA will ensure that closed waters protecting its hatchery escapement are clearly marked by buoys prior to a fishery. Changes to boundaries will be described in ADF&G fishery announcements.

When in-season timing data indicates that broodstock and sales goals will likely be achieved, the Valdez Narrows subdistrict may be opened for a common property commercial seine harvest. The preferred strategy for openings inside Port Valdez will be to provide a minimum of a 200-yard closure to seining off Allison Point. This closure will protect broodstock in the BEZ, provide fish for cost-recovery harvesting and reduce conflict between sport and commercial fisheries.

Aggressive cost-recovery harvesting and timely commercial openings will be used to prevent a large buildup of pink salmon inside Port Valdez. VFDA will provide daily estimates to ADF&G of the quantity and quality of fish being harvested near the hatchery. If surplus fish build up in front of the hatchery, a common property commercial opening may occur in waters of the THA, SHA, and/or BEZ to harvest fish surplus to hatchery needs.

If early wild stock returns of pink and chum salmon to the Eastern District are too weak to warrant regular openings in early July, surplus SGH pink salmon will be harvested in the Valdez Narrows subdistrict and the Solomon Gulch THA. The duration and frequency of openings of the Valdez Narrows subdistrict will depend upon the magnitude of the run. Recognizing the limitations of the hatchery run assessment in Port Valdez, efforts will be taken to harvest the surplus hatchery production expeditiously to preserve the highest possible quality.

Due to the early run timing of the SGH stock, broodstock and cost-recovery goals must be met by late July. After this time, the Valdez Narrows and Arm will be managed for wild stocks.

Sport fisheries will be managed in accordance with regulations as provided in 5 AAC 55 and 5 AAC 75. Emergency orders may be issued to liberalize or restrict sport fisheries based on achievement of broodstock goals.

3.7.1 Wild Stock vs. Hatchery Stock

Some interception of naturally occurring wild pink salmon occurs, both in the commercial common property fisheries targeting SGH fish and in the hatchery cost-recovery harvest.

The waters at the head of Port Valdez east of 146° 30'37" W. longitude (THA) normally remain closed during August and September for protection of wild stock pink and chum salmon. This closure should allow sufficient protection for returning hatchery coho salmon and no further management action is anticipated. However, if a harvestable surplus of pink salmon exists, commercial common property fishery openings may occur.

3.7.2 Coho Salmon Hatchery Stock

VFDA requests that ADF&G manage the coho salmon run to ensure adequate broodstock at the

hatchery (Table 3A). Hatchery runs of coho salmon should be sufficient to meet desired egg-take goals.

3.8 Sport Fish Harvest

The Port of Valdez and Valdez Arm supports the largest component of the sport fishery in PWS. The pink salmon sport fishery is one of the largest in the state. The stocking of large numbers of pink and coho salmon was initiated by VFDA in the early 1980s. The contribution of these runs became noticeable in the sport fishery in 1985, with sharp increases in angler effort and pink salmon harvests. Coho salmon harvests also began increasing, but at a slower rate. This recreational activity provides a valuable economic resource for the community of Valdez.

The pink salmon sport fishery is primarily a shore-based fishery and is generally more active during weekends and usually peaks during the first week of July. Peak angler and commercial fishing activity typically coincides with the peak of the pink salmon run. Potential for conflict between the two user groups exists, especially at Allison Point.

The coho salmon sport fishery of Valdez area (Arm and Port) begins in late July and continues through Labor Day weekend. ADF&G manages the Port of Valdez to reduce conflicts between the commercial and sport user groups by excluding commercial fishing within the Port of Valdez and the Valdez Narrows from August 15 through Labor Day. However, the department may designate open areas for commercial harvest within Port Valdez if a buildup of surplus salmon occurs during the August 15 to Labor Day closure. In 2026, the commercial fishery in Port Valdez will reopen on September 8th to target SGH produced coho salmon.

3.9 Personal Use and Subsistence Harvests

SGH contributes some fish to the sport and subsistence salmon harvest by Tatitlek residents. An agreement has been completed between VFDA and the Tatitlek Corporation that resumed stocking 20,000 coho salmon in June 2011. This remote stocking program had been temporarily on hold from 2004 through 2010 due to transfer and rearing problems. Currently, approximately 20,000 smolt are delivered to a pen in Boulder Bay near Tatitlek to be imprinted and released to create opportunity for the Tatitlek community.

3.10 Avoidance of Nontarget Species

The potential for interception of non-target fish in the SHA is not fully known; however, no significant harvest has been recorded. All non-target species found will be released when practical. Deliveries will be monitored for species composition and harvest by species will be recorded on fish tickets.

IV. EVALUATION STUDIES

4.1 Otolith Thermal Marking/Coded-Wire-Tagging

In 1997, otolith thermal marking replaced coded-wire-tagging as the preferred method for stock identification. All pink salmon have been otolith thermal marked since brood year 1997. Coho began receiving a thermal mark with brood year 2000. Thermal marking the otolith provides the ADF&G Divisions of Commercial Fisheries and Sport Fish AMBs with more timely and accurate run information. Intended marks for SGH pink salmon and coho salmon are both 6H. Actual thermal mark designations will be determined with coordination by the North Pacific Anadromous Fish Commission Mark Coordinator. The designated marks are emailed to the hatchery in the summer for the upcoming thermal marking project.

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V. APPROVAL

Recommendation for Approval: Solomon Gulch Hatchery Annual Management Plan, 2026

Thane Miller, Board President, Valdez Fisheries Development Assoc. 6/3/2026

Brittany Blain-Roth, Area Management Biologist, Div. of Sport Fish 5/19/2026

Todd Johnson, Area Management Biologist, Div. of Commercial Fisheries 5/27/2026

Kristine Dunker, Regional Supervisor, Div. of Sport Fish 5/27/2026

Heather Scannell, Acting Regional Supervisor, Div. of Commercial Fisheries 5/27/2026

Ethan Ford, Regional Resource Development Biologist, Div. of Commercial Fisheries 5/27/2026

Lorna Wilson, PNP Coordinator, Division of Commercial Fisheries 6/3/2026

Approval: The 2026 Solomon Gulch Hatchery Annual Management Plan is hereby approved.

Jason Dye, Deputy Director, Div. of Sport Fish 6/3/2026

Forrest Bowers, Acting Director, Div. of Commercial Fisheries 6/4/2026

Table 1A: Pink salmon run entry for Solomon Gulch Hatchery, 2026

:First day brood collection based on anticipated % female at approximately 15%.
:Marine Survival % and Expected Weight is based on last 10 even-year return average.
: Run entry % based on the historic odd and even returns using cost recovery and CPF harvests.
: Price per pound may not be current with actual in season sales.

Marine Survival	5.560%	Green Egg Requirements	270,000,000
CPF Contribution	64.4%	Minimum Brood Req.	408,702
Fry Released	183,087,309	Fish Sales Required (\$)	\$4,814,979
Expected Return	10,179,654	Fish Sales Required (#)	3,213,199
Expected Catch CPF	6,557,753	Expected Weight (lbs)	3.33
Expected Return SHA	3,621,901	Expected Average Price	\$0.450
Revised:	28-Apr-26		

Date	Total Run Entry				C. P. F. Catch		Cost Recovery Fish Sales				Brood	Brood	Antici-	
	% Entry	Cum % Entry	Fish/ Day	Cum. Fish	Fish/ Day	Cum. Fish	Fish/ Day	Cum. Fish	Revenue	Cum \$	Collection*	Cum. Brood	pated % Female	Date
11-Jun														11-Jun
12-Jun														12-Jun
13-Jun														13-Jun
14-Jun														14-Jun
15-Jun														15-Jun
16-Jun														16-Jun
17-Jun	0.0%	0.0%	0	0	0	0	0	0	\$0	\$0				17-Jun
18-Jun	0.0%	0.0%	102	102	70	70	32	32	\$48	\$48				18-Jun
19-Jun	0.0%	0.0%	102	204	70	139	32	64	\$48	\$96				19-Jun
20-Jun	0.1%	0.1%	5,395	5,599	3,692	3,832	1,703	1,767	\$2,552	\$2,648			12.2	20-Jun
21-Jun	0.1%	0.1%	5,701	11,299	3,901	7,733	1,799	3,567	\$2,696	\$5,345			14.2	21-Jun
22-Jun	0.1%	0.2%	7,940	19,240	5,434	13,167	2,506	6,073	\$3,756	\$9,100			9.9	22-Jun
23-Jun	0.2%	0.4%	18,425	37,665	12,609	25,776	5,816	11,889	\$8,715	\$17,815			10.6	23-Jun
24-Jun	0.2%	0.6%	24,024	61,689	11,441	37,217	7,583	19,472	\$11,363	\$29,179	5,000	5,000	16.3	24-Jun
25-Jun	0.8%	1.4%	83,270	144,958	46,986	84,202	26,284	45,756	\$39,387	\$68,565	10,000	15,000	13.8	25-Jun
26-Jun	0.8%	2.2%	81,743	226,701	40,941	125,143	25,802	71,558	\$38,664	\$107,230	15,000	30,000	16.3	26-Jun
27-Jun	1.2%	3.4%	119,407	346,108	66,717	191,859	37,691	109,249	\$56,480	\$163,709	15,000	45,000	14.4	27-Jun
28-Jun	2.4%	5.8%	243,294	589,402	151,498	343,358	76,795	186,044	\$115,078	\$278,787	15,000	60,000	17.1	28-Jun
29-Jun	2.0%	7.7%	198,809	788,211	121,055	464,413	62,754	248,798	\$94,037	\$372,824	15,000	75,000	17.9	29-Jun
30-Jun	2.2%	10.0%	227,210	1,015,421	135,491	599,904	71,719	320,517	\$107,470	\$480,294	20,000	95,000	15.2	30-Jun
1-Jul	2.4%	12.3%	241,461	1,256,882	145,244	745,148	76,217	396,734	\$114,211	\$594,505	20,000	115,000	19.5	1-Jul
2-Jul	6.0%	18.4%	614,342	1,871,224	400,426	1,145,574	193,917	590,650	\$290,584	\$885,089	20,000	135,000	19.6	2-Jul
3-Jul	3.3%	21.6%	331,857	2,203,081	207,106	1,352,680	104,750	695,401	\$156,968	\$1,042,058	20,000	155,000	23.8	3-Jul
4-Jul	4.7%	26.3%	474,168	2,677,249	304,497	1,657,178	149,671	845,071	\$224,282	\$1,266,339	20,000	175,000	27.0	4-Jul
5-Jul	6.7%	33.0%	684,684	3,361,933	448,564	2,105,741	216,120	1,061,191	\$323,855	\$1,590,195	20,000	195,000	30.9	5-Jul

Date	Total Run Entry				C. P. F. Catch		Cost Recovery Fish Sales				Brood Antici-			Date
	% Entry	Cum % Entry	Fish/ Day	Cum. Fish	Fish/ Day	Cum. Fish	Fish/ Day	Cum. Fish	Revenue	Cum \$	Brood Collection*	Cum. Brood	pated % Female	
6-Jul	6.5%	39.6%	666,055	4,027,987	435,815	2,541,557	210,240	1,271,431	\$315,044	\$1,905,239	20,000	215,000	26.8	6-Jul
7-Jul	2.8%	42.4%	288,797	4,316,784	177,638	2,719,195	91,158	1,362,589	\$136,601	\$2,041,840	20,000	235,000	32.4	7-Jul
8-Jul	6.2%	48.6%	627,677	4,944,462	404,552	3,123,747	198,126	1,560,715	\$296,892	\$2,338,732	25,000	260,000	33.4	8-Jul
9-Jul	5.3%	53.9%	541,252	5,485,714	345,406	3,469,153	170,846	1,731,561	\$256,012	\$2,594,744	25,000	285,000	37.4	9-Jul
10-Jul	5.7%	59.5%	576,168	6,061,882	369,301	3,838,454	181,867	1,913,428	\$272,528	\$2,867,272	25,000	310,000	30.7	10-Jul
11-Jul	3.9%	63.5%	401,486	6,463,368	249,757	4,088,211	126,729	2,040,157	\$189,903	\$3,057,175	25,000	335,000	42.0	11-Jul
12-Jul	4.1%	67.6%	415,839	6,879,207	259,580	4,347,791	131,259	2,171,416	\$196,692	\$3,253,867	25,000	360,000	44.1	12-Jul
13-Jul	3.5%	71.1%	359,647	7,238,854	221,125	4,568,916	113,522	2,284,938	\$170,113	\$3,423,980	25,000	385,000	48.8	13-Jul
14-Jul	3.4%	74.5%	345,599	7,584,453	211,511	4,780,427	109,088	2,394,026	\$163,469	\$3,587,448	25,000	410,000	47.0	14-Jul
15-Jul	2.4%	76.9%	245,228	7,829,681	142,822	4,923,249	77,406	2,471,432	\$115,993	\$3,703,441	25,000	435,000	53.6	15-Jul
16-Jul	4.4%	81.3%	449,126	8,278,808	282,360	5,205,609	141,766	2,613,199	\$212,437	\$3,915,878	25,000	460,000	48.5	16-Jul
17-Jul	6.4%	87.7%	650,582	8,929,389	425,226	5,630,835	205,356	2,818,554	\$307,725	\$4,223,603	20,000	480,000	54.9	17-Jul
18-Jul	0.7%	88.5%	75,737	9,005,126	36,830	5,667,666	23,906	2,842,460	\$35,823	\$4,259,427	15,000	495,000		18-Jul
19-Jul	2.5%	91.0%	257,545	9,262,671	161,251	5,828,917	81,294	2,923,754	\$121,819	\$4,381,246	15,000	510,000	63.2	19-Jul
20-Jul	2.9%	93.9%	293,785	9,556,456	191,052	6,019,969	92,733	3,016,487	\$138,960	\$4,520,206	10,000	520,000		20-Jul
21-Jul	0.7%	94.6%	75,533	9,631,989	41,691	6,061,660	23,842	3,040,329	\$35,727	\$4,555,933	10,000	530,000	58.0	21-Jul
22-Jul	1.4%	96.0%	144,653	9,776,642	93,993	6,155,653	45,660	3,085,989	\$68,421	\$4,624,354	5,000	535,000	36.0	22-Jul
23-Jul	1.1%	97.1%	108,821	9,885,462	74,471	6,230,125	34,349	3,120,338	\$51,472	\$4,675,826		535,000	50.5	23-Jul
24-Jul	0.8%	97.9%	82,252	9,967,714	56,289	6,286,414	25,963	3,146,300	\$38,905	\$4,714,731		535,000	58.5	24-Jul
25-Jul	0.6%	98.5%	56,904	10,024,618	38,942	6,325,356	17,962	3,164,262	\$26,916	\$4,741,647		535,000	49.0	25-Jul
26-Jul	0.2%	98.6%	15,269	10,039,888	10,450	6,335,806	4,820	3,169,082	\$7,222	\$4,748,869		535,000	45.0	26-Jul
27-Jul	0.9%	99.5%	91,413	10,131,301	62,559	6,398,365	28,855	3,197,937	\$43,239	\$4,792,108		535,000	49.0	27-Jul
28-Jul	0.0%	99.5%	0	10,131,301	0	6,398,365	0	3,197,937	\$0	\$4,792,108			55.5	28-Jul
29-Jul	0.3%	99.8%	27,994	10,159,295	19,158	6,417,522	8,836	3,206,773	\$13,241	\$4,805,349			54.0	29-Jul
30-Jul	0.0%	99.8%	0	10,159,295	0	6,417,522	0	3,206,773	\$0	\$4,805,349			57.0	30-Jul
31-Jul	0.2%	100.0%	15,677	10,174,972	10,728	6,428,251	4,948	3,211,721	\$7,415	\$4,812,764			61.0	31-Jul
1-Aug	0.0%	100.0%	0	10,174,972	0	6,428,251	0	3,211,721	\$0	\$4,812,764			53.0	1-Aug
2-Aug	0.0%	100.0%	4,683	10,179,654	3,205	6,431,455	1,478	3,213,199	\$2,215	\$4,814,979			59.5	2-Aug
3-Aug	0.0%	100.0%	0	10,179,654	0	6,431,455	0	3,213,199	\$0	\$4,814,979			61.5	3-Aug

*Total brood collection includes volitional entrants

Table 2A**VFDA 2026 Pink Salmon Egg Take projection schedule**

Date	Daily %	Daily # Eggs	Cummulative # Eggs
7/28/26	0.00%	-	-
7/29/26	1.79%	4,821,429	4,821,429
7/30/26	3.57%	9,642,858	14,464,287
7/31/26	3.57%	9,642,858	24,107,145
8/1/26	0.00%	-	24,107,145
8/2/26	0.00%	-	24,107,145
8/3/26	5.36%	14,464,287	38,571,432
8/4/26	5.36%	14,464,287	53,035,719
8/5/26	5.36%	14,464,287	67,500,006
8/6/26	7.14% 	19,285,716	86,785,722
8/7/26	5.36%	14,464,287	101,250,009
8/8/26	0.00%	-	101,250,009
8/9/26	0.00%	-	101,250,009
8/10/26	7.14%	19,285,716	120,535,725
8/11/26	5.36% 	14,464,287	135,000,012
8/12/26	7.14%	19,285,716	154,285,728
8/13/26	5.36% 	14,464,287	168,750,015
8/14/26	7.14%	19,285,716	188,035,731
8/15/26	0.00%	-	188,035,731
8/16/26	0.00%	-	188,035,731
8/17/26	7.14%	19,285,716	207,321,447
8/18/26	5.36% 	14,464,287	221,785,734
8/19/26	7.14%	19,285,716	241,071,450
8/20/26	5.36%	14,464,287	255,535,737
8/21/26	5.36%	14,464,263	270,000,000
8/22/26	0.00%	-	270,000,000
8/23/26	0.00%	-	270,000,000
	100.00%	270,000,000	

Table 3A
2026 Adult Coho Salmon Return Projection for VFDA

DATE	% ENTRY	# Daily	# Cum.	BROOD	
				DAILY	CUM.
8/18/26	1.05%	563	563		
8/19/26	1.26%	677	1,240		
8/20/26	1.25%	675	1,915		
8/21/26	1.26%	677	2,592		
8/22/26	1.90%	1,021	3,614		
8/23/26	0.64%	347	3,961		
8/24/26	2.09%	1,126	5,087		
8/25/26	2.09%	1,126	6,213		
8/26/26	2.98%	1,602	7,815		
8/27/26	2.34%	1,258	9,072		
8/28/26	2.34%	1,258	10,330		
8/29/26	2.22%	1,193	11,523		
8/30/26	3.63%	1,953	13,477		
8/31/26	4.92%	2,646	16,123		
9/1/26	6.03%	3,247	19,370	50	50
9/2/26	6.64%	3,574	22,944	50	100
9/3/26	5.76%	3,103	26,047	50	150
9/4/26	4.35%	2,344	28,392	100	250
9/5/26	2.18%	1,176	29,568	100	350
9/6/26	3.84%	2,069	31,636	100	450
9/7/26	3.73%	2,010	33,646	158	608
9/8/26	3.87%	2,083	35,730	250	858
9/9/26	4.30%	2,317	38,046	200	1,058
9/10/26	4.75%	2,556	40,602		
9/11/26	1.98%	1,063	41,666		
9/12/26	2.93%	1,577	43,243		
9/13/26	2.11%	1,138	44,380		
9/14/26	1.86%	1,004	45,384		
9/15/26	1.60%	864	46,248		
9/16/26	1.69%	907	47,155		
9/17/26	0.73%	392	47,548		
9/18/26	0.46%	249	47,797		
9/19/26	0.45%	241	48,038		
9/20/26	0.26%	140	48,178		
9/21/26	0.25%	134	48,312		
9/22/26	0.28%	152	48,464		
9/23/26	0.27%	146	48,610		
9/24/26	0.11%	58	48,668		
9/25/26	0.11%	58	48,726		
9/26/26	0.21%	115	48,842		
9/27/26	0.18%	98	48,939		
9/28/26	0.18%	98	49,037		
9/29/26	0.18%	99	49,136		
9/30/26	0.18%	99	49,235		
10/1/26	0.01%	6	49,241		
10/2/26	0.01%	6	49,247		
10/3/26	0.54%	289	49,536		
10/4/26	0.54%	293	49,829		
10/5/26	0.55%	295	50,124		
10/6/26	0.91%	490	50,614		
10/7/26	0.91%	489	51,103		
10/8/26	0.91%	490	51,593		
10/9/26	0.91%	489	52,082		
10/10/26	0.39%	209	52,290		
10/11/26	0.38%	203	52,493		
10/12/26	0.48%	257	52,750		
10/13/26	0.12%	64	52,814		
10/14/26	0.12%	63	52,877		
10/15/26	0.42%	228	53,104		
10/16/26	0.42%	228	53,332		
10/17/26	0.32%	171	53,503		
10/18/26	0.32%	171	53,673		
10/19/26	0.31%	<u>168</u>	53,841		
		53,841			

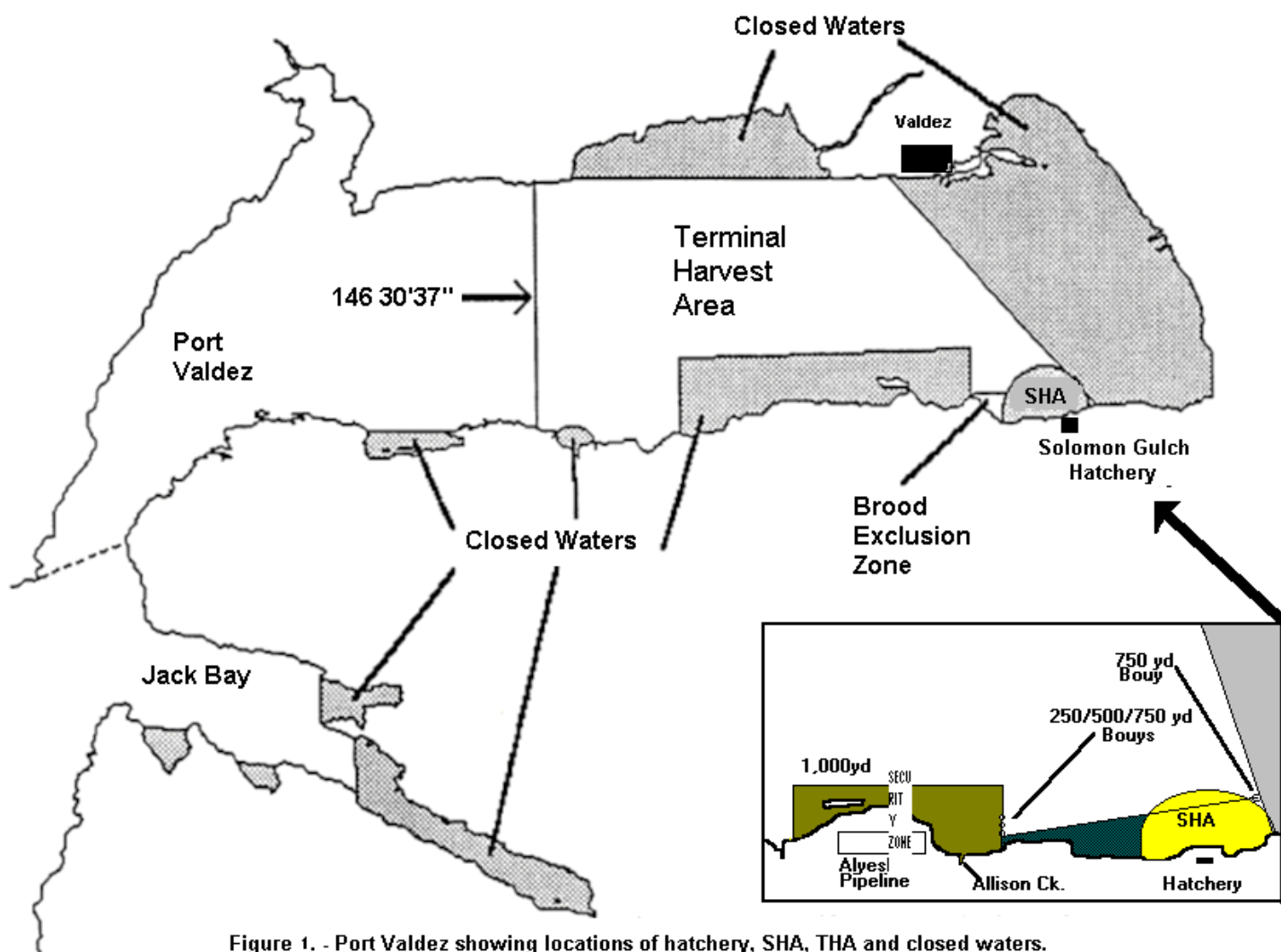


Figure 1. - Port Valdez showing locations of hatchery, SHA, THA and closed waters.