2014 ANNUAL REPORT
ALASKA SALMON HATCHERY

Year Ending December 15, 2014

Hatchery name/Location	PORT GRAHAM HATCHERY
Permit holder name/Address	Cook Inlet Aquaculture Association
	40610 Kalifornsky Beach Road
	Kenai, AK 99611

Person to contact regarding this report	Caroline Cherry	name
	907-283-5761	phone

DECLARATION AND SIGNATURE

I declare that the information given in this annual report is, to my knowledge, true, correct, and complete.

Gary Fandrei
Name of Legal Representative

12-3-14
Date

Gary Fandrei
Signature of Representative

THE FOLLOWING PARTS ARE INCLUDED IN THIS REPORTING FORM.

Part 1. REPORT OF THIS YEAR'S PERFORMANCE

Complete the following schedules of production statistics for this year, for each species/stock/brood year combination:

Schedule A: Annual Broodstock and Initial Survival Report
Schedule B: Annual Fish Culture Production Report
Schedule C: Harvest Management and Hatchery Adult Returns
Note: One Schedule C for each species/stock/project location (release site).

Part 2. PROJECTED RETURNS FOR NEXT YEAR

Complete **Schedule D,** to provide projections for each species and each release site.

Part 3. UPDATED SCHEDULES FOR PRIOR YEAR ANNUAL REPORT

Schedule F is used to update last year's Schedule C reported adult return data.
Use this form to update the information that we have on file, if known changes have occured or numbers have been finalized since last year's report.

SCHEDULE A-1
ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

PORT GRAHAM HATCHERY

Complete this schedule for each species/stock of eggs taken this year.
Use lines 3-6 to report fish captured and sacrificed as broodstock (fish that died during collection of eggs).
Use line 16 to report and describe captured fish that were released alive (for example, at remote egg-take locations).

1. Species	Pink						
2. Stock (donor stock/ancestral stock)	Port Graham/Port Graham						
3. Viable broodstock (spawned, eggs in incubators)	2,306	females	1,996	male	4,302	total	
4. Inviable broodstock (green/over-ripe/bad)	635	females	367	male	1,002	total	
5. Unspawned fish (roe recovery, excess males)	30						
6. Holding mortalities (raceway, pen mortalities)	1,004						
7. Adults sacrificed for broodstock (sum 3 thru 6)	6,338						
8. Average length and weight of adults used for broodstock							
females>		cm	1.5	kg			
males>		cm		kg			
9. Average fecundity (eggs/female)	1,386						
10. Egg-take dates:	8/27, 8/28						
11. Number of green eggs taken	3,195,649						
12. Number of eggs transferred out (annotate below)	-	eyed eggs					
13. Number of eggs destroyed (annotate below)	-	eyed eggs					
14. Number of green eggs retained in hatchery[1]	3,195,649						
15. Number remaining in hatchery at eyed stage	2,864,132		89.63%	% survival[2]			

16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:

Due to the renovation project at PGH, broodstock were transferred to Tutka Lagoon. Eggtake, fertilization and incubation has/will occur at TBLH. Resulting progeny will remain at Tutka until swimup. At this time, they will be transferred to Port Graham for short term rearing in net pens before release.

Of the 6338 broodstock captured, 4598 were purchased from common property fishery and assumend to be wild, 1740 were caught in the SHA and are assumed to be hatchery fish.

Adult returns are docuemented under the TBLH hatchery permit but the egg collection is documented under the PGH hatchery permit.

1. Provide explanation if greater than number of green eggs taken. 2. Provide explanation for survivals less than 90%.

SCHEDULE A-2
ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

PORT GRAHAM HATCHERY

Complete this schedule for each species/stock of eggs taken this year.
Use lines 3-6 to report fish captured and sacrificed as broodstock (fish that died during collection of eggs).
Use line 16 to report and describe captured fish that were released alive (for example, at remote egg-take locations).

1. Species							
2. Stock (donor stock/ancestral stock)	Donor stock refers to location of broodstock collection. Ancestral is original stock.						
3. Viable broodstock (spawned, eggs in incubators)		females		male	-	total	
4. Inviable broodstock (green/over-ripe/bad)		females		male	-	total	
5. Unspawned fish (roe recovery, excess males)							
6. Holding mortalities (raceway, pen mortalities)							
7. Adults sacrificed for broodstock (sum 3 thru 6)	-						
8. Average length and weight of adults used for broodstock							
females>		cm		kg			
males>		cm		kg			
9. Average fecundity (eggs/female)	#DIV/0!						
10. Egg-take dates:							
11. Number of green eggs taken							
12. Number of eggs transferred out (annotate below)	green eggs or	eyed eggs					
13. Number of eggs destroyed (annotate below)	green eggs or	eyed eggs					
14. Number of green eggs retained in hatchery[1]							
15. Number remaining in hatchery at eyed stage			#DIV/0!	% survival[2]			

16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:

1. Provide explanation if greater than number of green eggs taken. 2. Provide explanation for survivals less than 90%.

SCHEDULE B-1

ANNUAL FISH CULTURE PRODUCTION REPORT

PORT GRAHAM HATCHERY

Complete this schedule for each species/stock of eggs (or fish) cultured this year from prior brood years. Please provide explanations for any differences in numbers of green and eyed eggs from those reported last year for this species/stock (e.g. reenumeration of inventory at eyed stage, transfers, mortality, etc.).

Species: Pink **Stock:** Port Graham **Brood Year:** 2013

A. Life Stage Information

	Actual number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green eggs		100.0%	No pink eggs were taken in 2013 under the PGH permit. Broodstock &
2. Eyed eggs		#DIV/0!	egg collection did occur but this was under the TBLH permit and hence
3. Emergent fry		#DIV/0!	reported in 2014 TBLH Annual Report.
4. Fed fry		#DIV/0!	
5. Smolts		#DIV/0!	

B. Release Information

Release				Size		Return	
Site	Number	Date	Life stage	gm/fish	mm/fish	Expected return	Return year(s)
Total:	-						

C. Marking/Tagging

Number of fish marked or tagged (by release group and method of marking)

Release				Marking/Tagging		
Release Group[1]	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags

[1]Report release group as fresh or salt water; from net pen or raceway; or other rearing/release/site group description.

D. Other

Report any diseases, rearing problems, or significant mortalities among these fish.

SCHEDULE C-1

HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project (location of release/return), stock (e.g. fall or summer, if applicable), and species.

PORT GRAHAM HATCHERY

Species: Pink

Location of project: Port Graham Bay

A. Hatchery Escapement	
1. Cost-recovery fish (line 17a & 17b): traditional harvest and roe-recovery fish	-
2. Adults sacrificed as broodstock (Schedule A line 7) minus roe-recovery fish (17b)	
3. Escapement for hatchery watershed (as required in permit)	
4. Jacks	
5. Other [1] (annotate in comments section)	
6. Other [1] (annotate in comments section)	
7. Other [1] (annotate in comments section)	
8. Total hatchery escapement	-
B. Common Property Harvest	
9. Commercial harvest [2]	
a. Troll	
b. Gillnet	
c. Seine	
d. Other (annotate in comments section)	
Total commercial harvest	-
10. Noncommercial harvest [2]	
a. Sport	
b. Personal Use	
c. Subsistence	
d. Other (annotate in comments section)	
Total noncommercial harvest	-
11. Total Common Property Harvest (sum 9 and 10)	-
12. Total Return (sum 8 and 11)	-

13. Estimated ocean survival by brood year [2]

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)

14. Average size of fish sold		length-cm	wt-kg
15. Date(s) of harvest			
16. Gear type or method used			

17. Disposition of Hatchery Escapement

a. Traditional harvest fish

	# fish sold	lbs fish
adults		
jacks		
total	-	-

b. Roe-recovery fish

	# fish	lbs fish	lbs roe
Sold			
Donated			
Disposed[3]			
total number of fish	-	-	-

c. Carcasses

	# Sold	# Donated	# Disposed[3]	Total
Spawners				-
Other (annotate in comments)				-
total number of fish	-	-	-	-
total pounds				-

Comments:

All returns are documented in the 2014 TBLH Annual Report as these returning fish were related to activities under taken under that hatchery's permit.

[1] **"Other":** use one line per category (e.g. fish remaining in salt water, sea lion predation, etc.).

[2] **Commercial harvest, noncommercial harvest, and estimated ocean survival:** Please provide method used in estimation.

[3] **Disposed** fish require a carcass disposal log.

SCHEDULE D

PROJECTED RETURNS FOR 2015

PORT GRAHAM HATCHERY

Combine brood years for species with returns of multiple year classes, except Chinook salmon.
Please report projected returns of Chinook salmon by brood year.

Species	Brood Year	Release Site	Total number of fish expected	Range of expected return	
				minimum	maximum
Pnk	2013	Port Graham Bay	Returns from BY13 releases are under the		
			TBLH permit and are reported in that		
			hatchery's annual report.		

COMMENTS:

Please provide additional information on ocean-survival calculations (i.e. percentages used, etc.)

SCHEDULE F-1

UPDATED 2013 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

This form is only required if there are known changes to the previous year's reported Schedule C data.
Complete a separate schedule for each project and species of fish with updated numbers from last year's annual report.

Species: Pink
Location of harvest/return: Port Graham Bay

PORT GRAHAM HATCHERY

Hatchery Escapement

1. Cost-recovery fish (line 16A & 16B): traditional harvest and roe recovery fish	-
2. Adults captured for broodstock (Schedule A line 7) minus roe recovery fish (line 16B)	
3. Escapement for hatchery watershed (as required in permit)	
4. Jacks	
5. Other [1] (annotate in comments section)	
6. Other [1] (annotate in comments section)	
7. Other [1] (annotate in comments section)	
8. Total return to hatchery	-

Common Property Harvest

9. Commercial [2]	
A. Troll	
B. Gillnet	
C. Seine	
D. Other (annotate in comments section)	
Total commercial	-
10. Noncommercial [2]	
A. Sport	
B. Personal Use	
C. Subsistence	
D. Other (annotate in comments section)	
Total noncommercial	-
11. Total Return (sum 8,9,10)	-

12. Estimated ocean survival by BY[2]

BY	Total # return in 2011	Cumulative Survival	
			%
			%
			%
			%
			%
			%

13. Average size of fish sold		length-cm	wt-kg
14. Date(s) of harvest			
15. Gear type or method used			

16. Disposition of Hatchery Escapement

A. Fish harvested/sold

	# fish	lbs fish
adults		
jacks		
total	-	-

B. Roe recovery

# fish	lbs roe
-	

C. Carcasses

	# Disposed	# Donated	# Sold
Spawners			
Roe recovery (during egg take)			
Roe recovery (non-egg take)			
Other (annotate in comments)			
total number of fish	-	-	-
total pounds			

Comments:
Hatchery was not in operation so there are no corrections to BY12 returns associated with the PGH permit. Any changes to BY12 returns are reported under the TBLH Hatchery permit/Annual Report.

[1] **"Other":** use one line per category (e.g. fish remaining in salt water, sea lion predation, etc.).

[2] **Commercial harvest, noncommercial harvest, and estimated ocean survival:** Please provide method used in estimation.