

# **Wild Juvenile Salmonid Monitoring Program 2025 Clio Channel and Chatham Channel, BC**

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## Summary

Beach seine sampling was conducted on behalf of Grieg Seafood at ten sites in Clio Channel and Chatham Channel, BC in 2025. Sampling was completed to monitor sea lice abundance, prevalence, and intensity on juvenile wild salmon on behalf of Grieg Seafood BC Ltd. to fulfill the Fisheries and Oceans Canada (DFO) conditions of license for Grieg finfish aquaculture sites in the area.

Sampling was conducted during four separate sampling events between March and June 2025, selected to coincide with the peak outmigration period of juvenile salmonids. Sampling was completed at ten sites within Clio Channel and Chatham Channel, BC. The sites were selected based on historical fish capture results and location relative to existing and potential aquaculture sites in the area. Three existing finfish aquaculture tenures are present in the sampling area near the east end of Clio Channel.

Thirty individuals from each target fish species or the total number of captured individuals from each target species (if less than 30 were captured) were collected from each of the ten sites during the sampling events. Total catch numbers of each species were recorded. Water quality measurements including surface, one meter, and five meter water depth temperature, salinity, and dissolved oxygen were recorded at each site during each sampling event.

Collected sample fish were frozen and analyzed in the lab for the presence of sea lice by Mainstream Biological Consulting. Sea lice observed on the individual fish specimens during laboratory analysis were initially identified as either *Lepeophtheirus spp.* or *Caligus sp.* These lice are assumed to be *L. salmonis* and *C. clemensi* due to the lack of documented infestation of Pacific salmon by other species. The lice were recorded by life stage, and the sex of pre-adult or adult motile lice was determined.

This data summary report documents the observed sea lice infestation rate on retained wild juvenile salmon collected in Clio Channel and Chatham Channel, BC in 2025. A total of 335 fish samples underwent lab analysis for sea lice infestation in 2025 including 271 pink, 55 chum, and nine coho salmon. No chinook, sockeye or Atlantic salmon were captured during sampling completed in Clio Channel and Chatham Channel, BC in 2025. A total of 74 individuals were found to be infested with sea lice in the total sample population, resulting in a calculated sea lice prevalence of 22.1 % in 2025. A total of 90 sea lice were found during laboratory analysis resulting in an abundance of 0.27 and an average intensity of 1.3 for the sample population.

Pink salmon smolts were captured in significantly greater numbers than any other species. A total of 4977 pink salmon were captured, representing 98.7 % of all captured salmonids. Of the 4977 pink salmon captured, 271 were retained for lab analysis for sea lice infestation. A total of 54 pink smolts were found to be infested with a total of 66 sea lice resulting in a calculated prevalence of 19.9 %, abundance of 0.24 and an average intensity of 1.2 for the pink salmon sample population.

A total of 55 chum salmon were captured, representing 1.1 % of all captured salmonids. All 55 chum salmon were retained for lab analysis for sea lice infestation. A total of 14 chum smolts were found to be infested with a total of 16 sea lice, resulting in a calculated prevalence of 25.5 %, abundance of 0.29 and an average intensity of 1.1 for the chum salmon sample population.

A total of nine coho salmon was captured, representing 0.2 % of all captured salmonids. All nine coho salmon was retained for lab analysis for sea lice infestation. A total of six coho salmon were found to be infested with eight sea lice resulting in a calculated prevalence of 22.1 %, abundance of 0.27 and an average intensity of 1.2 for the coho salmon sample population.

A total of 54 *Lepeophtheirus salmonis* sea lice of various life stages and a total of 36 *Caligus clemensi* sea lice of various life stages were identified on 74 juvenile salmon (Appendix III).

A total of 35 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 30 juvenile pink salmon, and 31 *Caligus clemensi* sea lice of various life stages were identified on 27 juvenile pink salmon. Three juvenile pink salmon were infested with both *Lepeophtheirus salmonis* and *Caligus clemensi* sea lice.

A total of 13 *Lepeophtheirus salmonis* sea lice of chalimus life stages were identified on 11 juvenile chum salmon, and three *Caligus clemensi* sea lice of chalimus life stages were identified on three juvenile chum salmon. No juvenile chum salmon were infested with both *Lepeophtheirus salmonis* and *Caligus clemensi* sea lice.

A total of six *Lepeophtheirus salmonis* sea lice of various life stages were identified on six juvenile coho salmon, and two *Caligus clemensi* sea lice of a chalimus and adult females life stage were identified on two juvenile coho salmon. Two juvenile coho salmon were infested with both *Lepeophtheirus salmonis* and *Caligus clemensi* sea lice.

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## 1.0 Introduction

Beach seine sampling was conducted at ten sites in Clio Channel and Chatham Channel, BC (Figure 1) to capture wild juvenile salmon on behalf of Grieg Seafood BC Ltd. Retained fish were analyzed in the lab for sea lice infestation. Four sampling events were completed between March 31, 2025, and June 3, 2025. Timing was selected to coincide with the estimated peak outmigration of juvenile salmonids in Clio Channel and Chatham, BC.

Parasitic copepods from the family Caligidae (sea lice) found in the coastal waters of British Columbia are divided into two genera: *Lepeophtheirus* and *Caligus*. Eleven species of *Lepeophtheirus* have been identified infesting fish in the Pacific Ocean, while only one species of *Caligus* (*Caligus clemensi*) has been identified (Margolis and Arthur 1979; McDonald and Margolis, 1995). *C. clemensi* infest an extremely wide range of natural hosts in the marine environment including salmonids and non-salmonids; while *L. salmonis* natural hosts on the Pacific coast have been found to include Pacific salmon, threespine stickleback and Pacific herring. During this analysis, *Lepeophtheirus spp.* sea lice found on salmonid specimens were assumed to be *L. salmonis* due to the lack of documented infestations of Pacific salmon by other *Lepeophtheirus* lice species (Jones and Nemeč, 2004).

Both Caligidae genera have similar life histories and developmental stages (Kabata, 1972; Johnson and Albright, 1991a). Sea lice hatch from eggs and go through two free-swimming naupilii stages before developing into an infectious free-swimming copepodid. The copepodids attach to their host and develop through several chalimus stages. The chalimus are non-motile and are attached to their host by a frontal filament. The final chalimus stage terminates as the sea lice become motile and are no longer attached to their hosts by the frontal filament. The sea lice can now move freely on the fish as they develop through a pre-adult stage before becoming reproductively viable adults.

Water temperature and salinity are two environmental variables known to influence sea lice development, growth, survival, and reproductive rate. In British Columbia, surface seawater temperatures range from approximately 6 °C to 13 °C. Research on sea lice abundance conducted in the Broughton Archipelago and elsewhere on the coast of British Columbia indicates that surface water temperature during the winter months does not appear to hinder the season abundance of *L. salmonis* (Saksida et al. 2007a, b). The rate of development and the generation times for *C. elongates* are strongly temperature dependent (Tully, 1992) and although this research has not been conducted, similar relationships with water temperature may be expected for *C. clemensi* (Jones and Johnson, 2015). Survival and development of *L. salmonis* is optimal in high salinity seawater. Under laboratory conditions copepodid survival was limited to conditions where salinity was greater than ten ppt (Johnson and Albright, 1991b).

Grieg Seafood BC Ltd requested monitoring of sea lice abundance, prevalence, and intensity on juvenile wild salmon in Clio Channel and Chatham Channel, BC to fulfill the requirements of their Fisheries and Oceans Canada (DFO) conditions of license for their aquaculture sites within the area. Existing finfish aquaculture sites within or near the sampling area included Noo-la, Wa-kwa and Tsa-ya aquaculture facilities near the eastern end of Clio Channel (Figure 2). This data summary report documents the observed sea lice infestation rates on juvenile salmonids collected in Clio Channel and Chatham Channel, BC in 2025. This is the seventh year that sampling was completed in Clio Channel and Chatham Channel, BC by Grieg Seafood BC Ltd.



Figure 1: An overview map showing the location of Clio Channel and Chatham Channel, BC on the east coast of Vancouver Island, BC.

## 2.0 Methods

Juvenile salmonids were collected from ten sites in Clio Channel and Chatham Channel, BC. These sites were chosen based on their locations relative to active and potential new Grieg Seafood finfish aquaculture tenures (Figure 2). The ten sites were each sampled four times in 2025 between March 31, and June 3.

### 2.1 Site Locations

Of the ten sampling sites, six sites are located within Clio Channel, and four sites are located within Chatham Channel (Figure 2). Field GPS coordinates collected at the sampling sites are provided in Table 1.

Table 1: The site number and locations of the ten beach seine sites where fish were collected for sea lice analysis in Clio Channel and Chatham Channel, BC in 2025.

Site Number	Coordinates	
	Latitude North	Longitude West
1	50 35.302	-126 27.006
2	50 34.363	-126 26.458
3	50 35.309	-126 21.508
4	50 36.534	-126 22.118
5	50 36.117	-126 20.629
6	50 36.766	-126 19.524
7	50 37.492	-126 17.570
8	50 36.640	-126 16.287
9	50 33.798	-126 12.546
10	50 33.522	-126 11.228

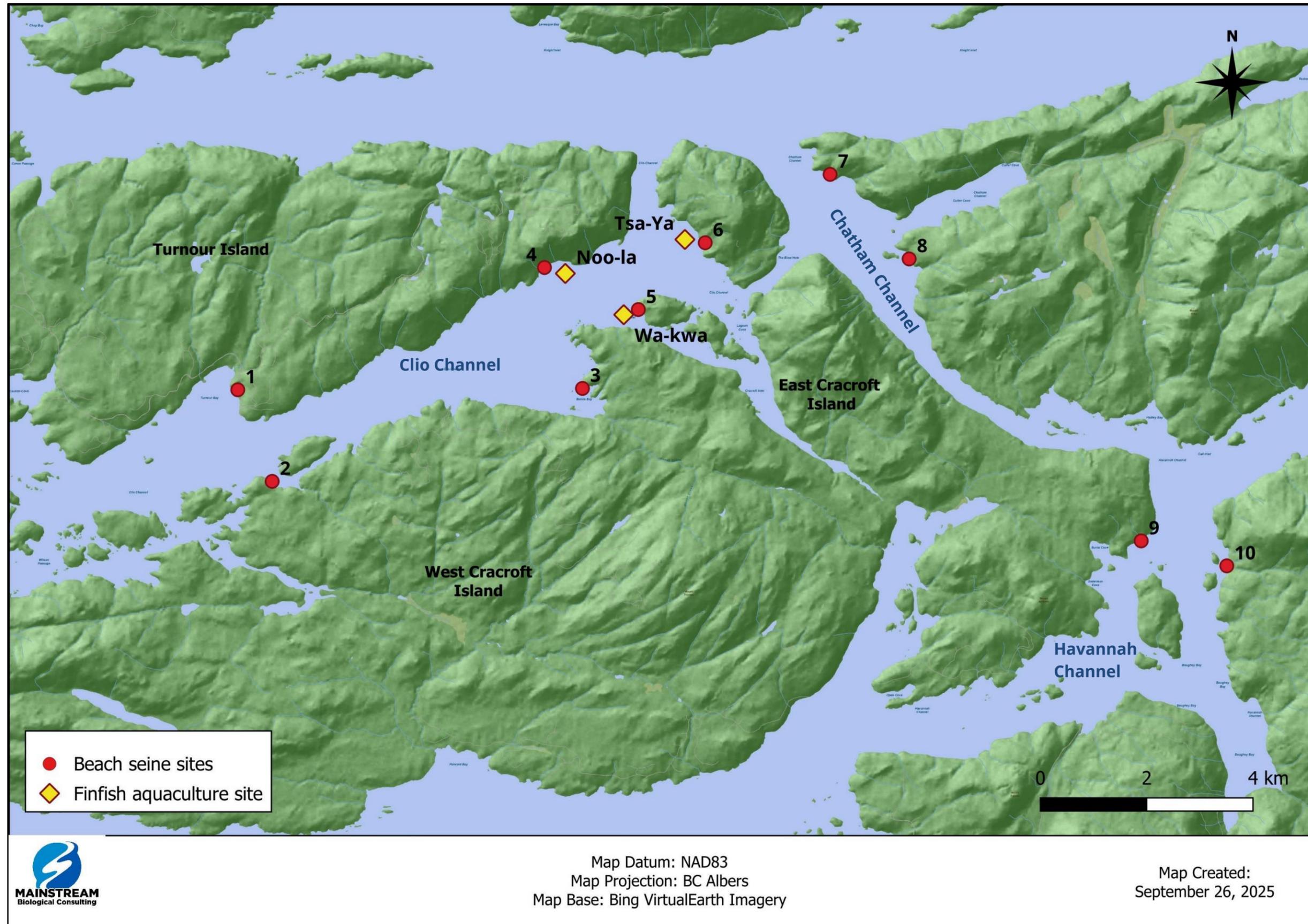


Figure 2: The locations of the ten beach seine sites in Clio Channel and Chatham Channel, BC sampled in 2025.

## 2.2 Field Procedures

Procedures used by Mainstream Biological Consulting during 2025 sampling were adapted from procedures for beach seining, fish collection and field data recording utilized by the Department of Fisheries and Oceans (DFO).

An 18 ft Boston Whaler powered by a 70 horsepower outboard motor was used to access sampling sites. A 150 ft (45.7 m) long by 12 ft (3.7 m) deep beach seine net was used to capture specimens. The net was constructed in three 50 ft (15.2 m) sections, with the centre bunt consisting of one-quarter inch diameter diamond mesh, and two side panels (wings) consisting of half-inch diameter diamond mesh. Floats were attached every 30 cm along the top-line and a lead line provided weight along the bottom of the net.

A three person crew conducted the beach seine sets. All beaches were approached slowly by boat and one crewmember was put ashore with one end of the net topline. The onshore crewmember held the topline at one side of the sample site, while the second crewmember ensured the net deployed smoothly off the bow or side of the boat as the third crewmember backed the boat in a wide semicircle towards the opposite side of the sample site. When the net was fully deployed, the second crewmember stepped into the shallow water with the topline or tossed it to the awaiting crewmember on shore. A slow retrieval of the net began immediately.

As the net was slowly retrieved, surface, one meter and five meter depth water quality data was collected for temperature, salinity and dissolved oxygen using a YSI Pro Quatro Probe.

Crewmembers retrieved the net evenly from opposite ends, ensuring that the lead line remained as close to the bottom as possible. Retrieved netting was piled on the beach above the water level. As the retrieval reached the net bunt, the lead line was retrieved at a faster rate than the floats to allow the netting of the bunt to form a bag under any captured fish. The lead line was then pulled up onto the beach above the water level. One crewmember worked their way around the outside of the net in the shallow water to ensure the floats stayed above the surface of the water. In this manner a small, shallow bag formed from the bunt of the net contained the captured fish in the water so that they could be sampled.

The two shore crew members collected individual fish from the bunt to ensure that captured fish remained in the net for as short a period as possible. The net was manipulated as necessary in response to changing tides to ensure the captured fish remained in sufficient water to minimize contact with the net or with other fish.

Where possible, a total of 30 individuals from each target species were retained for sea lice infestation analysis. If less than 30 individuals of a target species were captured, all the captured fish were retained. Individual fish were haphazardly “swam” into an appropriately sized Whirlpac bag. Handling of fish was kept to a minimum.

Once all the fish for retention were collected, a total catch number was recorded for each species. Any fish remaining in the net were counted or estimated (if more than 300 individuals were present) and released. The total of fish remaining in the net was added to the number of retained individuals to calculate a total capture number for a given species.

A standardized field form was used to record the following information for each beach seine set:

- Site name or number
- Date
- Time at the end of the individual fish collection
- Comments on weather and oceanic conditions
- Total capture and retained fish numbers for each specimen group
- Water temperature (°C), salinity (ppt) and dissolved oxygen (mg/L) to one decimal place
- GPS coordinates
- The number of salmon mortalities.

Retained fish from each site were packaged separately in re-sealable bags and labelled with the site name or number, the date and sample numbers of each species. Sample bags were stored on dry ice in a cooler while on board the boat and transferred to a portable freezer on the support boat immediately following completion of the set.

Following each set the net was reloaded onto the bow of the boat. Crewmembers scanned the net for obvious holes, which were repaired immediately if found.

The above sampling procedures were repeated at each of the sample sites.

### **2.3 Laboratory Procedures**

Laboratory procedures for sea lice analysis were adapted from procedures demonstrated by Sheila Dawe and Eliah Kim at the Pacific Biological Station in Nanaimo, BC, during sea lice identification training that was conducted on April 1, 2004. Additional sea lice identification training by Paul Callow was conducted at the Pacific Biological Station in September 2007.

Fish samples were thawed immediately prior to analysis. Individual fish were identified to species and counted. Results of the lab identification and count were compared to the reported data found on the field data sheets to identify any errors.

A standardized data sheet was used to record sea lice analysis results for each site. The site and week number, sample date and number of fish and specimen groups present were recorded. The date of the lab analysis was also noted.

Once thawed, individual fish were removed from their bag using a pair of forceps at the caudal peduncle and placed in a petri dish. Each bag was labelled with an individual fish identification number. Each fish was then scanned for the presence of sea lice under a stereoscopic dissection microscope. The microscope was set at a magnification of 20X for the preliminary survey of each fish sample, and magnification was increased to up to 40X during individual sea lice identification.

Microscopic analysis of each individual fish began at the anterior end of the right side of the specimen. The head was examined first, after which a scan was made along the dorsal half of the specimen working towards the posterior end and the tail. The dorsal fin and caudal fin were lifted and expanded with a pair of forceps to check for lice. From the posterior end a return scan was made along the ventral half of the specimen back to the head. The anal fin, pelvic fin and pectoral fin were lifted and expanded, and the operculum was lifted. The fish was then flipped using a pair of forceps at the caudal peduncle and the procedure was repeated on the opposite side of the specimen.

Additional scans were made longitudinally down the fish if the entire depth of the fish could not be seen in a single pass. Any sea lice observed on the fish were removed and placed in a petri dish of saline solution.

Each Whirlpac bag was visually inspected after the removal of the fish for the presence of pre-adult or adult sea lice that may have become dislodged during handling. Any sea lice found in the sample bags were identified under the microscope using the same characteristics outlined above. These “loose” sea lice were recorded on the data sheet with the data for the corresponding specimen and it was assumed that the lice had come from that individual.

Sea lice were identified using characteristics outlined by Kabata (1972) and Johnson and Albright (1991a). Sea lice observed on individual fish were identified as either non-motile chalimus (including copepodid), or motile pre-adults and adults. Non-motile sea lice were identified as one of two chalimus stages for *L. salmonis* (Hamre et al., 2013) or four chalimus stages for *C. clemensi*. Motile lice, either pre-adults or adults, were identified as either *L. salmonis* or *C. clemensi* and the sex of the louse was determined.

Chalimus were identified to species primarily by characteristics of the frontal filament. However, size, shape, genital development, and leg development were used as secondary identifying characteristics for speciation as well as primary indicators for life stage identification. Motile sea lice were identified to species by the presence or absence of lunules. If lunules were absent the louse was identified as *Lepeophtheirus* spp. The louse was identified as *Caligus* spp. if lunules were present.

Sea lice found on captured specimens have been assumed to be either *L. salmonis* or *C. clemensi* due to the lack of documented infestations of Pacific salmon by other species of sea lice (Jones and Nemeč, 2004).

After microscopic analysis individual fish specimens were measured (fork length) in millimetres and weighed to the nearest tenth of a gram. Lengths and weights were recorded on the data sheet with the specimen’s corresponding sea lice analysis results. The fish were then returned to their respective individual bags and repackaged in the large re-sealable bags by site before being refrozen.

To allow for quality assurance of sea lice identification, all sea lice were placed in vials labelled with the corresponding fish identification number and preserved in 70% isopropyl alcohol. Ten percent of the deloused fish specimens were randomly selected by specimen number and retained. Both the preserved lice and retained deloused fish specimens will be kept at the office of Mainstream Biological Consulting in Campbell River for five years.

## 2.4 Data Analysis

Surface, one meter and five meter depth water quality data collected for temperature, salinity and dissolved oxygen was summarized to report the minimum and maximum values and averages for each sample week.

Beach seine fish sample composition was summarized by species and site for each sample period. The fork lengths and weights of the samples were summarized to present minimum and maximum values as well as averages. Sea lice infestation rates, including the overall number of infested fish and the number of sea lice identified, were determined for the sample population, and prevalence and abundance of sea lice were calculated. Prevalence was defined as the number of host fish found to have one or

more sea lice compared to the total number of host fish examined, while abundance was defined as the total number of sea lice observed compared to the total number of host fish examined. The intensity of sea lice infestation, as described by the average number of sea lice found on a single salmon infested was summarized. Average intensity was calculated by dividing the total number of sea lice identified by the number of infested fish.

Statistical analysis of the spatial and temporal distribution of sea lice was not conducted. Spatial and temporal analysis has been limited to the simple presentation and discussion of the number of sea lice found on fish specimens collected from each site during each of the sampling events.

## 3.0 Results

The following sections outline the results of beach seine collection and inspection of juvenile salmonids collected from Clio Channel and Chatham Channel, BC in 2025. Water quality field data is presented in Appendix I, beach seine fish capture data is included in Appendix II and data on the fish sample population including sea lice lab analysis results are listed in Appendix III.

### 3.1 Water Quality Parameters

Surface, one meter, and five meter depth measurements of water temperature, salinity, and dissolved oxygen taken during beach seining at each of the ten sites during the four sample periods are summarized in Table 2 and Table 3 respectively and the complete dataset is included in Appendix I.

Recorded surface water temperature ranged from a low of 7.8°C recorded at Site 2 and Site 4 on April 1, 2025, to a high of 12.4 °C recorded at Site 4 on April 16, 2025 (Table 2; Appendix I). Calculated average surface water temperature varied over the sampling period, from 8.1 °C on March 31/April 1, 2025, to a maximum of 11.1 °C on May 12, 2025 (Table 2).

Recorded surface water salinity ranged from a low of 24.7 ppt recorded at Site 3 on April 16, 2025, to a high of 30.7 ppt recorded at Site 9 on June 2, 2025 (Table 2; Appendix I). Calculated average surface water salinity varied over the sampling period in 2025, ranging from 26.1 ppt on April 16, 2025, to a maximum of 30.0 ppt in June (Table 2).

Recorded surface water dissolved oxygen ranged from a low of 7.1 mg/L recorded at both Site 1 and Site 6 on June 3, 2025, and April 16, 2025, respectfully, to a high of 12.0 mg/L recorded at Site 4 on May 12, 2025 (Table 2, Appendix I). Calculated average surface water dissolved oxygen varied over the sampling period, ranging from 7.9 mg/L on March 31/April 1, 2025, to a maximum of 11.0 mg/L on May 12, 2025.

Recorded one meter water temperature ranged from a low of 7.7 °C recorded at Site 2 on April 1, 2025, to a high of 12.1 °C recorded at Site 4 on April 16, 2025 (Table 3; Appendix I). Calculated average one meter water temperature varied over the sampling period, from 8.0 °C on March 31/April 1, 2025, to a maximum of 10.8 °C on May 12, 2025 (Table 3).

Recorded one meter water salinity ranged from a low of 25.8 ppt recorded at Site 3 on April 16, 2025, to a high of 30.7 ppt recorded at Site 9 on June 2, 2025 (Table 3; Appendix I). Calculated average one meter water salinity increased over the sampling period in 2025, from 26.3 ppt on March 31/April 1, 2025, to a maximum of 30.1 ppt on June 2/3, 2025 (Table 3).

Recorded one meter water dissolved oxygen ranged from a low a low of 7.4 mg/L recorded at Site 1 on April 1, 2025, to a high of 11.8 mg/L recorded at Site 6 on April 16, 2025 (Table 3, Appendix I). Calculated average one meter dissolved oxygen varied over the sampling period in 2025, from 8.0 mg/L on March 31/April 1, 2025, to a maximum of 11.6 mg/L on May 12, 2025 (Table 3).

Recorded five meter water temperature ranged from a low of 7.6 °C recorded at Site 2 on April 1, 2025, to a high of 9.7 °C recorded at Site 2 on June 3, 2025 (Table 4; Appendix I). Calculated average five meter water temperature increased over the

sampling period, from 7.7 °C on March 31/April 1, 2025, to a maximum of 9.7 °C on June 2 /3, 2025 (Table 4). No five meter water temperatures were recorded on May 12, 2025.

Recorded five meter water salinity ranged from a low of 26.2 ppt recorded at Site 2 on April 1, 2025, to a high of 30.6 ppt recorded at Site 2 on June 3, 2025 (Table 4; Appendix I). Calculated average five meter water salinity increased during sampling in 2025, from 26.3 ppt on March 31/April 1, 2025, to a maximum of 30.4 ppt in June (Table 4). No five meter water salinities were recorded on May 12, 2025.

Recorded five meter water dissolved oxygen ranged from a low of 7.4 mg/L recorded at Site 1 on April 1, 2025, to a high of 7.7 mg/L recorded at Site 2 on June 3, 2025 (Table 4; Appendix I). Calculated average five meter dissolved oxygen varied over the sampling in 2023 ranging between 7.6 mg/L on March 31/April 1, 2025, and 11.0 mg/L on April 16, 2025 (Table 4). No five meter water dissolved oxygen levels were recorded on May 12, 2025.

Table 2: Surface water quality parameters collected during 2025 beach seine sampling in Clio Channel and Chatham Channel, BC.

Site	March 31-April 1, 2025			April 16, 2025			May 12, 2025			June 2-3, 2025		
	Salinity (ppt)	Temp. (°C)	DO (mg/L)	Salinity (ppt)	Temp. (°C)	DO (mg/L)	Salinity (ppt)	Temp. (°C)	DO (mg/L)	Salinity (ppt)	Temp. (°C)	DO (mg/L)
1	26.4	7.9	7.3	25.5	8.3	9.4	27.9	10.3	11.3	30.3	10.2	7.1
2	26.3	7.8	7.6	26.2	8.5	10.4	27.7	10.5	10.9	30.3	10.6	8.2
3	25.5	8.0	8.0	24.7	9.3	10.7	27.2	10.7	10.5	29.6	11.1	8.4
4	26.5	7.8	7.7	26.1	12.4	11.2	26.7	11.6	12.0	29.8	11.0	9.2
5	26.4	7.9	7.2	26.2	8.8	11.0	26.3	11.0	11.5	29.7	11.2	9.4
6	26.3	7.9	7.1	26.3	12.3	10.9	26.5	12.3	11.5	29.6	10.9	9.1
7	26.2	8.5	8.9	26.4	8.6	10.1	27.0	11.8	10.8	30.1	10.0	8.7
8	26.4	8.2	8.0	26.4	9.7	9.8	26.4	11.7	11.4	29.9	10.1	8.5
9	26.3	8.0	8.5	26.3	8.5	9.6	30.4	9.8	9.2	30.7	9.4	8.2
10	25.9	8.9	8.8	26.4	9.0	9.5	26.4	11.2	11	30.2	9.7	7.9
<b>Average</b>	<b>26.2</b>	<b>8.1</b>	<b>7.9</b>	<b>26.1</b>	<b>9.5</b>	<b>10.3</b>	<b>27.3</b>	<b>11.1</b>	<b>11.0</b>	<b>30.0</b>	<b>10.4</b>	<b>8.5</b>

Table 3: One meter water quality parameters collected during 2025 beach seine sampling in Clio Channel and Chatham Channel, BC.

Site	March 31-April 1, 2025			April 16, 2025			May 12, 2025			June 2-3, 2025		
	Salinity (ppt)	Temp. (°C)	DO (mg/L)	Salinity (ppt)	Temp. (°C)	DO (mg/L)	Salinity (ppt)	Temp. (°C)	DO (mg/L)	Salinity (ppt)	Temp. (°C)	DO (mg/L)
1	26.4	7.8	7.4	26.0	8.3	9.2	28.9	10.3	11.5	30.4	10.2	7.5
2	26.1	7.7	7.6	26.3	8.6	10.0	-	-	-	30.3	10.5	8.1
3	-	-	-	25.8	9.4	11.2	-	-	-	29.6	11.1	8.6
4	26.5	7.8	7.7	26.1	12.1	11.5	-	-	-	29.9	10.5	8.8
5	26.4	7.9	7.6	26.3	8.8	10.5	-	-	-	29.7	10.8	9.2
6	26.3	7.9	7.6	26.4	10.1	11.8	-	-	-	29.6	10.8	9.2
7	26.3	8.4	9.2	26.4	8.0	10.4	-	-	-	-	-	-
8	26.4	8.2	8.1	26.4	9.0	9.9	26.7	11.4	11.7	30.1	9.7	8.3
9	26.4	8.1	8.4	26.4	8.6	9.2	-	-	-	30.7	9.3	7.8
10	26.0	8.4	8.3	26.4	9.0	9.8	-	-	-	30.6	9.5	8.1
<b>Average</b>	<b>26.3</b>	<b>8.0</b>	<b>8.0</b>	<b>26.3</b>	<b>9.2</b>	<b>10.4</b>	<b>27.8</b>	<b>10.8</b>	<b>11.6</b>	<b>30.1</b>	<b>10.3</b>	<b>8.4</b>

Table 4: Five meter water quality parameters collected during 2025 beach seine sampling in Clio Channel and Chatham Channel, BC.

Site	March 31-April 1, 2025			April 16, 2025			May 12, 2025			June 2-3, 2025		
	Salinity (ppt)	Temp. (°C)	DO (mg/L)	Salinity (ppt)	Temp. (°C)	DO (mg/L)	Salinity (ppt)	Temp. (°C)	DO (mg/L)	Salinity (ppt)	Temp. (°C)	DO (mg/L)
1	26.4	7.8	7.4	-	-	-	-	-	-	-	-	-
2	26.2	7.6	7.7	-	-	-	-	-	-	30.6	9.7	7.7
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	26.3	8.8	12.4	-	-	-	-	-	-
7	-	-	-	26.4	8.4	9.7	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	30.1	9.6	8.1
9	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>26.3</b>	<b>7.7</b>	<b>7.6</b>	<b>26.4</b>	<b>8.6</b>	<b>11.0</b>	-	-	-	<b>30.4</b>	<b>9.7</b>	<b>7.9</b>

### 3.2 Fish Sample Composition

A total of 5041 fish were captured during beach seine sampling conducted in Clio Channel and Chatham Channel, BC in 2025 (Table 5). A summary of the total number of fish captured and collected as specimens at each site over the collection period is presented in Table 6, with a complete dataset provided in Appendix II. Of the 5041 fish captured, 271 pink salmon, 55 chum salmon and nine coho salmon were retained for lab analysis (Table 5). No chinook, sockeye or Atlantic salmon were captured during sampling completed in Clio Channel and Chatham Channel, BC in 2025.

Pink salmon (*O. gorbuscha*) smolts were captured in significantly greater numbers than any other species. A total of 4977 pink salmon were captured, representing 98.7 % of all captured fish.

Table 5: The total of collected individuals of each fish species captured in Clio Channel and Chatham Channel, BC between March 31, 2025, and June 3, 2025, and the percentage of the total capture population that they represent.

Common Name	Capture Total (% of total capture population)	Collection Totals	Collection %
pink salmon	4977 (98.7%)	271	5.4%
chum salmon	55 (1.1%)	55	100%
coho salmon	9 (0.2%)	9	100%
<b>All Species</b>	<b>5041</b>	<b>335</b>	<b>6.6%</b>

Table 6: The number of captured fish (Capture Total) and the number of individual fish collected (Sample Total) from each of the ten sample sites in Clio Channel and Chatham Channel, BC between March 31, 2025, and June 3, 2025.

Site	Pink		Chum		Coho		Capture Totals	Sample Totals
	Capture Total	Sample Total	Capture Total	Sample Total	Capture Total	Sample Total		
1	0	0	0	0	7	7	7	7
2	1	1	0	0	0	0	1	1
3	0	0	0	0	0	0	0	0
4	500	30	16	16	0	0	516	46
5	3375	60	9	9	0	0	3384	69
6	98	35	12	12	2	2	112	49
7	802	31	11	11	0	0	813	42
8	13	13	2	2	0	0	15	15
9	11	11	0	0	0	0	11	11
10	177	90	5	5	0	0	182	95
<b>Total</b>	<b>4977</b>	<b>271</b>	<b>55</b>	<b>55</b>	<b>9</b>	<b>9</b>	<b>5041</b>	<b>335</b>

### 3.3 Fish Sample Size Statistics

Summary statistics for weight and fork length were calculated for the sample population of juvenile salmonids. Length (Table 7) and weight (Table 8) data were summarized by sampling event for each species.

#### 3.3.1 Pink Salmon

Individual weight of the 271 pink smolts collected during the four sample events ranged from 0.2 g to 4.0 g and averaged 1.1 g (SD = 0.8). Fork length of the pink smolts ranged from 27 mm to 71 mm and averaged 45 mm (SD = 10).

#### 3.3.2 Chum Salmon

Individual weight of the 55 chum smolts collected during the four sample events ranged from 0.2 g to 5.1 g and averaged 1.6 g (SD = 1.2). Fork length of the chum smolts ranged from 29 mm to 75 mm and averaged 50 mm (SD = 11).

#### 3.3.3 Coho Salmon

Individual weight of the nine coho smolts collected during the four sample events ranged from 15.0 g to 22.2 g and averaged 19.0 g (SD = 1.2). Fork length of the coho smolts ranged from 102 mm to 120 mm and averaged 111 mm (SD = 11).

Table 7: Average lengths of pink, chum and coho salmon collected in Clio Channel and Chatham Channel, BC in 2025, summarized by sampling event.

Species	Length (mm)			
	March 31- April 1, 2025	April 16, 2025	May 12, 2025	June 2-3, 2025
pink	31	38	50	58
chum	29	45	63	49
coho	-	-	-	111

Table 8: Average weights of pink, chum and coho salmon collected in Clio Channel and Chatham Channel, BC in 2025, summarized by sampling event.

Species	Weight (g)			
	March 31- April 1, 2025	April 16, 2025	May 12, 2025	June 2-3, 2025
pink	0.3	0.6	1.5	2.3
chum	0.2	1.1	13.1	1.4
coho	-	-	-	19.0

### 3.4 Sea Lice Infestation Rates

The results of laboratory analysis for the presence of sea lice on the fish sample population collected in Clio Channel and Chatham Channel, BC in 2025 are presented in Table 9. A complete dataset is included in Appendix III. A total of 335 samples were collected at the ten sites in Clio Channel and Chatham Channel, BC in 2025 and inspected for sea lice infestation. A total of 74 fish in the sample population were found to be infested with 90 sea lice (Table 9).

The sea lice prevalence in the sample population collected in Clio Channel and Chatham Channel, BC in 2025 was 22.1 %, the abundance was 0.27 and the average intensity was 1.2 (Table 9).

Table 9: Results of analysis for sea lice infestation on fish collected by beach seine in Clio Channel and Chatham Channel, BC in 2025.

Species	Sample size (n)	Total number of lice observed	Total number of fish infested	Prevalence (%)	Abundance	Average Intensity
pink	271	66	54	19.9	0.24	1.2
chum	55	16	14	25.5	0.29	1.1
coho	9	8	6	66.7	0.89	1.3
<b>Total</b>	<b>335</b>	<b>90</b>	<b>74</b>	<b>22.1</b>	<b>0.27</b>	<b>1.2</b>

#### 3.4.1 Infestation Rates on Pink Salmon

The results of the laboratory analysis for sea lice infestation for pink salmon are presented by site in Table 10. A total of 54 pink salmon were found to be infested with 66 sea lice. The largest number of pink salmon infested with sea lice (18 pink) and the largest number of total sea lice (23 lice) found on samples were at Site 10 (Table 10). Sea lice were found on pink salmon from Site 4 to Site 10.

A total of 54 pink salmon were found to be infested with at least one sea louse. The prevalence of sea lice on the pink salmon sample population (n = 271) collected in Clio Channel and Chatham Channel, BC in 2025 was 19.9 %. Sea lice prevalence was calculated by site for pink salmon and is presented in Table 10. The highest sea lice prevalence (29.0 %) was at Site 7.

A total of 66 sea lice were identified during laboratory analysis of retained pink salmon. The abundance of sea lice on the pink salmon sample population (n = 271) collected in Clio Channel and Chatham Channel, BC in 2025 was 0.24. The 66 sea lice identified were observed on 54 individual pink salmon resulting in an average intensity of 1.2. Sea lice abundance and intensity were calculated by site and are presented in Table 10. The highest sea lice abundance (0.39) was found at Site 7, and the highest average intensity (1.4) was found at Site 5.

Table 10: Total number, prevalence, abundance, and intensity of sea lice infestation on pink salmon collected in Clio Channel and Chatham Channel, BC in 2025, summarized by sampling site.

Site	# of Pink Analyzed	# of Infested Pink	Average Weight of Infested Pink (g)	# of Lice	Prevalence (%)	Abundance	Average Intensity
1	0	0	-	0	-	-	-
2	1	0	-	0	0.0	0.0	-
3	0	0	-	0	-	-	-
4	30	3	0.7	3	10.0	0.10	1.0
5	60	11	1.5	15	18.3	0.25	1.4
6	35	7	1.0	7	20.0	0.20	1.0
7	31	9	1.8	12	29.0	0.39	1.3
8	13	4	0.5	4	30.8	0.31	1.0
9	11	2	0.3	2	18.2	0.18	1.0
10	90	18	0.7	23	20.0	0.26	1.3
<b>TOTAL</b>	<b>271</b>	<b>54</b>	<b>0.9</b>	<b>66</b>	<b>19.9</b>	<b>0.24</b>	<b>1.2</b>

### 3.4.2 Infestation Rates on Chum Salmon

The results of the laboratory analysis for sea lice infestation for chum salmon are presented by site in Table 11. A total of 14 chum salmon were found to be infested with 16 sea lice. The largest number of chum salmon infested with sea lice (five chum) were found at Site 7 and the largest number of total sea lice (six lice) were found on samples at Site 7 (Table 11). Sea lice were found on chum salmon at Site 4 to Site 7.

A total of 14 chum salmon were found to be infested with at least one sea louse. The prevalence of sea lice on the chum salmon sample population (n = 55) collected in Clio Channel and Chatham Channel, BC in 2025 was 25.5 %. Sea lice prevalence was calculated by site for chum salmon and is presented in Table 11. The highest sea lice prevalence (45.5 %) was at Site 7.

A total of 16 sea lice were identified during laboratory analysis of retained chum salmon. The abundance of sea lice on the chum salmon sample population (n = 55) collected in Clio Channel and Chatham Channel, BC in 2025 was 0.29. The 16 sea lice identified were observed on 14 individual chum salmon resulting in an average intensity of 1.1. Sea lice abundance and intensity were calculated by site and are presented in Table 11. The highest sea lice abundance (0.55) was found at Site 7, and the highest average intensity (1.3) was found at Site 4.

Table 11: Total number, prevalence, abundance, and intensity of sea lice infestation on chum salmon collected in Clio Channel and Chatham Channel, BC in 2025 summarized by sampling site.

Site	# of Chum Analyzed	# of Infested Chum	Average Weight of Infested Chum (g)	# of Lice	Prevalence (%)	Abundance	Average Intensity
1	0	0	-	0	-	-	-
2	0	0	-	0	-	-	-
3	0	0	-	0	-	-	-
4	16	4	1.1	5	25.0	0.31	1.3
5	9	3	1.7	3	33.3	0.33	1.0
6	12	2	1.2	2	16.7	0.17	1.0
7	11	5	3.3	6	45.5	0.55	1.2
8	2	0	-	0	0.0	0.00	-
9	0	0	-	0	-	-	-
10	5	0	-	0	0.0	0.00	-
<b>TOTAL</b>	<b>55</b>	<b>14</b>	<b>1.8</b>	<b>16</b>	<b>25.5</b>	<b>0.29</b>	<b>1.1</b>

### 3.4.3 Infestation Rates on Coho Salmon

The results of the laboratory analysis for sea lice infestation for coho salmon are presented by site in Table 12. A total of six coho salmon were found to be infested with eight sea lice. The largest number of coho salmon infested with sea lice (four coho) and the largest number of total sea lice (five lice) were found on samples at Site 1 (Table 12). Sea lice were found on coho salmon at Site 1 and Site 6.

A total of six juvenile coho salmon were found to be infested with at least one sea louse. The prevalence of sea lice on the coho salmon sample population (n = 9) collected in Clio Channel and Chatham Channel, BC in 2025 was 66.7 %. Sea lice prevalence was calculated by site for coho salmon and is presented in Table 12. The highest sea lice prevalence (100 %) was at Site 6.

A total of eight sea lice were identified during laboratory analysis of retained coho salmon. The abundance of sea lice on the coho salmon sample population (n = 9) collected in Clio Channel and Chatham Channel, BC in 2025 was 0.89. The eight sea lice identified were observed on six individual coho salmon resulting in an average intensity of 1.3. Sea lice abundance and intensity were calculated by site and are presented in Table 12. The highest sea lice abundance (1.50) and the highest average intensity (1.5) were both found at Site 6.

Table 12: Total number, prevalence, abundance, and intensity of sea lice infestation on coho salmon collected in Clio Channel and Chatham Channel, BC in 2025 summarized by sampling site.

Site	# of Coho Analyzed	# of Infested Coho	Average Weight of Infested Coho (g)	# of Lice	Prevalence (%)	Abundance	Average Intensity
1	7	4	18.7	5	57.1	0.7	1.3
2	0	0	-	0	-	-	-
3	0	0	-	0	-	-	-
4	0	0	-	0	-	-	-
5	0	0	-	0	-	-	-
6	2	2	19.4	3	100	1.50	1.5
7	0	0	-	0	-	-	-
8	0	0	-	0	-	-	-
9	0	0	-	0	-	-	-
10	0	0	-	0	-	-	-
<b>TOTAL</b>	<b>9</b>	<b>6</b>	<b>19.1</b>	<b>8</b>	<b>66.7</b>	<b>0.89</b>	<b>1.3</b>

### 3.5 Infestation by Sea Lice Species

A total of 54 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 47 juvenile salmon. A total of 36 *Caligus clemensi* sea lice of various life stages were identified on 32 juvenile salmon. Five juvenile salmon were infested with both *Lepeophtheirus salmonis* and *Caligus clemensi* sea lice.

#### 3.5.1 Infestation by Life Stage on Pink Salmon

An analysis of the species of sea lice identified on the 54 infested pink salmon is presented in Table 13 (Appendix III). A total of 35 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 30 juvenile pink salmon. A total of 31 *Caligus clemensi* sea lice of various life stages were identified on 27 juvenile pink salmon. Three juvenile pink salmon were infested with both *Lepeophtheirus salmonis* and *Caligus clemensi* sea lice. The sea lice species identified on pink salmon by site are also presented in Table 14.

Table 13: The number of *Lepeophtheirus salmonis* and *Caligus clemensi* in each life stage identified on the pink salmon sample population from Clio Channel and Chatham Channel, BC, in 2025. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage <sup>1</sup>	March 31- April 1, 2025	April 16, 2025	May 12, 2025	June 2-3, 2025
LEP Co	0	2	4	0
LEP C1	0	9	7	1
LEP C2	0	2	5	0
LEP NM No ID	-	-	-	-
LEP PAM	0	0	1	0
LEP PAF	0	0	3	0
LEP AM	0	0	1	0
LEP AF	0	0	0	0
<b>TOTAL LEP</b>	<b>0</b>	<b>13</b>	<b>21</b>	<b>1</b>
CAL Co	0	0	0	0
CAL C1	0	10	5	0
CAL C2	0	4	0	1
CAL C3	0	3	2	0
CAL C4	0	0	0	0
CAL NM No ID	-	-	-	-
CAL PAM	0	0	2	0
CAL PAF	0	0	1	0
CAL AM	0	0	2	0
CAL AF	0	0	1	0
<b>TOTAL CAL</b>	<b>0</b>	<b>17</b>	<b>13</b>	<b>1</b>

<sup>1</sup> Lice life stage codes: Co = copepodid, C1-4 = chalimus 1-4, PAM = pre-adult male, PAF = pre-adult female, AM = adult male, AF = adult female.

Table 14: The number of sea lice found on pink salmon collected in Clio Channel and Chatham Channel, BC in 2025, summarized by sampling site. LEP = *Lepeophtheirus salmonis* CAL= *Caligus clemensi*

Site	Sample Period																TOTAL		
	March 31-April 1, 2025				April 16, 2025				May 12, 2025				June 2-3, 2025				# of Pink Analyzed	# of Infested Pink	# of Lice
	# of Pink Analyzed	# of Infested Pink	# of LEP	# of CAL	# of Pink Analyzed	# of Infested Pink	# of LEP	# of CAL	# of Pink Analyzed	# of Infested Pink	# of LEP	# of CAL	# of Pink Analyzed	# of Infested Pink	# of LEP	# of CAL			
<b>1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>	<b>0</b>	<b>0</b>
<b>2</b>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>	<b>0</b>	<b>0</b>
<b>3</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>	<b>0</b>	<b>0</b>
<b>4</b>	0	0	0	0	30	3	2	1	0	0	0	0	0	0	0	0	<b>30</b>	<b>3</b>	<b>3</b>
<b>5</b>	0	0	0	0	30	5	2	4	30	6	5	4	0	0	0	0	<b>60</b>	<b>11</b>	<b>15</b>
<b>6</b>	1	0	0	0	30	7	2	5	0	0	0	0	4	0	0	0	<b>35</b>	<b>7</b>	<b>7</b>
<b>7</b>	0	0	0	0	0	0	0	0	29	9	5	7	2	0	0	0	<b>31</b>	<b>9</b>	<b>12</b>
<b>8</b>	0	0	0	0	13	4	2	2	0	0	0	0	0	0	0	0	<b>13</b>	<b>4</b>	<b>4</b>
<b>9</b>	0	0	0	0	11	2	1	1	0	0	0	0	0	0	0	0	<b>11</b>	<b>2</b>	<b>2</b>
<b>10</b>	0	0	0	0	30	7	4	4	30	9	11	2	30	2	1	1	<b>90</b>	<b>18</b>	<b>23</b>
<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>144</b>	<b>28</b>	<b>13</b>	<b>17</b>	<b>89</b>	<b>24</b>	<b>21</b>	<b>13</b>	<b>36</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>271</b>	<b>54</b>	<b>66</b>

### 3.5.2 Infestation by Life Stage on Chum Salmon

An analysis of the species of sea lice identified on the 14 infested chum salmon is presented in Table 15 (Appendix III). A total of 13 *Lepeophtheirus salmonis* sea lice of chalimus life stages were identified on 11 juvenile chum salmon. A total of three *Caligus clemensi* sea lice of chalimus life stages were identified on three juvenile chum salmon. No juvenile chum salmon were infested with both *Lepeophtheirus salmonis* and *Caligus clemensi* sea lice. The sea lice species identified on chum salmon by site are also presented in Table 16

Table 15: The number of *Lepeophtheirus salmonis* and *Caligus clemensi* in each life stage identified on the chum salmon sample population from Clio Channel and Chatham Channel, BC, in 2025. LEP = *Lepeophtheirus salmonis* CAL= *Caligus clemensi*

Life Stage <sup>1</sup>	March 31- April 1, 2025	April 16, 2025	May 12, 2025	June 2-3, 2025
LEP Co	0	1	1	0
LEP C1	0	4	1	0
LEP C2	0	3	2	1
LEP NM No ID	-	-	-	-
LEP PAM	0	0	0	0
LEP PAF	0	0	0	0
LEP AM	0	0	0	0
LEP AF	0	0	0	0
<b>TOTAL LEP</b>	<b>0</b>	<b>8</b>	<b>4</b>	<b>1</b>
CAL Co	0	0	0	0
CAL C1	0	0	1	0
CAL C2	0	0	1	0
CAL C3	0	0	0	0
CAL C4	0	0	1	0
CAL NM No ID	-	-	-	-
CAL PAM	0	0	0	0
CAL PAF	0	0	0	0
CAL AM	0	0	0	0
CAL AF	0	0	0	0
<b>TOTAL CAL</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>

<sup>1</sup> Lice life stage codes: Co = copepodid, C1-4 = chalimus 1-4, PAM = pre-adult male, PAF = pre-adult female, AM = adult male, AF = adult female.

Table 16: The number of sea lice found on chum salmon collected in Clio Channel and Chatham Channel, BC in 2025 summarized by sampling site. LEP = *Lepeophtheirus salmonis* CAL= *Caligus clemensi*

Site	Sample Period																TOTAL				
	March 31-April 1, 2025				April 16, 2025				May 12, 2025				June 2-3, 2025				# of Chum Analyzed	# of Infested Chum	# of Lice		
	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL					
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	16	4	5	0	0	0	0	0	0	0	0	0	0	16	4	5	
5	0	0	0	0	4	1	1	0	5	2	2	0	0	0	0	0	0	9	3	3	
6	1	0	0	0	11	2	2	0	0	0	0	0	0	0	0	0	0	12	2	2	
7	0	0	0	0	0	0	0	0	9	4	2	3	2	1	1	0	0	11	5	6	
8	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	0	5	0	0	
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>7</b>	<b>8</b>	<b>0</b>	<b>14</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>55</b>	<b>14</b>	<b>16</b>		

### 3.5.3 Infestation by Life Stage on Coho Salmon

An analysis of the species of sea lice identified on the eight infested coho salmon is presented in Table 17 (Appendix III). A total of six *Lepeophtheirus salmonis* sea lice of various life stages were identified on six juvenile coho salmon. A total of two *Caligus clemensi* sea lice of chalimus and adult female life stages were identified on two juvenile coho salmon. Two juvenile coho salmon were infested with both *Lepeophtheirus salmonis* and *Caligus clemensi* sea lice. The sea lice species identified on coho salmon by site are also presented in Table 18

Table 17: The number of *Lepeophtheirus salmonis* and *Caligus clemensi* in each life stage identified on the coho salmon sample population from Clio Channel and Chatham Channel, BC, in 2025. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage <sup>1</sup>	March 31- April 1, 2025	April 16, 2025	May 12, 2025	June 2-3, 2025
LEP Co	0	0	0	0
LEP C1	0	0	0	2
LEP C2	0	0	0	3
LEP NM No ID	-	-	-	-
LEP PAM	0	0	0	1
LEP PAF	0	0	0	0
LEP AM	0	0	0	0
LEP AF	0	0	0	0
<b>TOTAL LEP</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>
CAL Co	0	0	0	0
CAL C1	0	0	0	0
CAL C2	0	0	0	1
CAL C3	0	0	0	0
CAL C4	0	0	0	0
CAL NM No ID	-	-	-	-
CAL PAM	0	0	0	0
CAL PAF	0	0	0	0
CAL AM	0	0	0	0
CAL AF	0	0	0	1
<b>TOTAL CAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>

<sup>1</sup> Lice life stage codes: Co = copepodid, C1-4 = chalimus 1-4, PAM = pre-adult male, PAF = pre-adult female, AM = adult male, AF = adult female.

Table 18: The number of sea lice found on coho salmon collected in Clio Channel and Chatham Channel, BC in 2025 summarized by sampling site. LEP = *Lepeophtheirus salmonis* CAL= *Caligus clemensi*

Site	Sample Period																TOTAL		
	March 31-April 1, 2025				April 16, 2025				May 12, 2025				June 2-3, 2025				# of Chum Analyzed	# of Infested Chum	# of Lice
	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL			
1	0	0	0	0	0	0	0	0	0	0	0	0	7	4	4	1	7	4	5
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	1	2	2	3
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>6</b>	<b>6</b>	<b>2</b>	<b>9</b>	<b>6</b>	<b>8</b>

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**Appendix I – Field Data**

Date	Time	Site Name	Salinity (ppt)	Temperature (deg C.)	Dissolved Oxygen (mg/L)	Salinity (ppt)	Temperature (deg C.)	Dissolved Oxygen (mg/L)	Salinity (ppt)	Temperature (deg C.)	Dissolved Oxygen (mg/L)
			0.2m	0.2m	0.2m	1.0m	1.0m	1.0m	5.0m	5.0m	5.0m
31-03-2025	12:25	Site 9	26.3	8.0	8.5	26.4	8.1	8.4	-	-	-
31-03-2025	14:40	Site 10	25.9	8.9	8.8	26.0	8.4	8.3	-	-	-
31-03-2025	15:35	Site 8	26.4	8.2	8.0	26.4	8.2	8.1	-	-	-
31-03-2025	15:48	Site 7	26.2	8.5	8.9	26.3	8.4	9.2	-	-	-
01-04-2025	8:08	Site 4	26.5	7.8	7.7	26.5	7.8	7.7	-	-	-
01-04-2025	8:20	Site 6	26.3	7.9	7.1	26.3	7.9	7.6	-	-	-
01-04-2025	8:38	Site 5	26.4	7.9	7.2	26.4	7.9	7.6	-	-	-
01-04-2025	8:53	Site 3	25.5	8.0	8.0	-	-	-	-	-	-
01-04-2025	9:23	Site 2	26.3	7.8	7.6	26.1	7.7	7.6	26.2	7.6	7.7
01-04-2025	9:36	Site 1	26.4	7.9	7.3	26.4	7.8	7.4	26.4	7.8	7.4
16-04-2025	9:21	Site 1	25.5	8.3	9.4	26.0	8.3	9.2	-	-	-
16-04-2025	9:33	Site 2	26.2	8.5	10.4	26.3	8.6	10.0	-	-	-
16-04-2025	9:52	Site 3	24.7	9.3	10.7	25.8	9.4	11.2	-	-	-
16-04-2025	10:06	Site 5	26.2	8.8	11.0	26.3	8.8	10.5	-	-	-
16-04-2025	10:50	Site 9	26.3	8.5	9.6	26.4	8.6	9.2	-	-	-
16-04-2025	13:43	Site 10	26.4	9.0	9.5	26.4	9.0	9.8	-	-	-
16-04-2025	14:51	Site 8	26.4	9.7	9.8	26.4	9.0	9.9	-	-	-
16-04-2025	15:10	Site 7	26.4	8.6	10.1	26.4	8.0	10.4	26.4	8.4	9.7
16-04-2025	15:29	Site 6	26.3	12.3	10.9	26.4	10.1	11.8	26.3	8.8	12.4
16-04-2025	15:53	Site 4	26.1	12.4	11.2	26.1	12.1	11.5	-	-	-
12-05-2025	10:34	Site 1	27.9	10.3	11.3	28.9	10.3	11.5	-	-	-
12-05-2025	10:48	Site 2	27.7	10.5	10.9	-	-	-	-	-	-
12-05-2025	11:07	Site 3	27.2	10.7	10.5	-	-	-	-	-	-
12-05-2025	11:20	Site 5	26.3	11.0	11.5	-	-	-	-	-	-
12-05-2025	15:23	Site 8	26.4	11.7	11.4	26.7	11.4	11.7	-	-	-
12-05-2025	15:34	Site 7	27.0	11.8	10.8	-	-	-	-	-	-
12-05-2025	16:17	Site 6	26.5	12.3	11.5	-	-	-	-	-	-
12-05-2025	16:29	Site 4	26.7	11.6	12.0	-	-	-	-	-	-
12-05-2025	11:56	Site 9	30.4	9.8	9.2	-	-	-	-	-	-
12-05-2025	14:20	Site 10	26.4	11.2	11.0	-	-	-	-	-	-
02-06-2025	9:51	Site 9	30.7	9.4	8.2	30.7	9.3	7.8	-	-	-
02-06-2025	12:00	Site 10	30.2	9.7	7.9	30.6	9.5	8.1	-	-	-
02-06-2025	13:01	Site 8	29.9	10.1	8.5	30.1	9.7	8.3	30.1	9.6	8.1
02-06-2025	13:16	Site 7	30.1	10.0	8.7	-	-	-	-	-	-
02-06-2025	13:41	Site 6	29.6	10.9	9.1	29.6	10.8	9.2	-	-	-
02-06-2025	14:01	Site 5	29.7	11.2	9.4	29.7	10.8	9.2	-	-	-
02-06-2025	14:13	Site 4	29.8	11.0	9.2	29.9	10.5	8.8	-	-	-
03-06-2025	6:12	Site 3	29.6	11.1	8.4	29.6	11.1	8.6	-	-	-
03-06-2025	6:36	Site 2	30.3	10.6	8.2	30.3	10.5	8.1	30.6	9.7	7.7
03-06-2025	6:53	Site 1	30.3	10.2	7.1	30.4	10.2	7.5	-	-	-

## Appendix II – Capture and Collection Sample Totals

Date	Time	Site Name	Weather Comments	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Salmonid Mortalities	Comments
31-03-2025	12:25	Site 9	Calm, cloud	Low	0	0	0	0	0	0	0	Strong tide pulled net out, reset further in bay. Nudibranchs, shrimp
31-03-2025	14:40	Site 10	Calm, cloud	High	0	0	0	0	0	0	0	Few snags, lots of rockweed
31-03-2025	15:35	Site 8	Calm, cloud	High	0	0	0	0	0	0	0	Good set
31-03-2025	15:48	Site 7	Calm, cloud	High	0	0	0	0	0	0	0	Good set
01-04-2025	8:08	Site 4	Sun, cloud	Low	0	0	0	0	0	0	0	1 sculpin
01-04-2025	8:20	Site 6	Sun, cloud	Low	1	1	1	1	0	0	0	2 shrimp
01-04-2025	8:38	Site 5	Sun, cloud	Low	0	0	0	0	0	0	0	Sculpin, shrimp
01-04-2025	8:53	Site 3	Sun, cloud	Low	0	0	0	0	0	0	0	Starfish, seacucumber
01-04-2025	9:23	Site 2	Cloud	Low	1	1	0	0	0	0	0	Sculpin, nudibranch
01-04-2025	9:36	Site 1	Cloud	Low	0	0	0	0	0	0	0	Nudibranch, pipefish, tubesnout
16-04-2025	9:21	Site 1	Cloud, calm	Low	0	0	0	0	0	0	0	2 starfish, pipefish, good set
16-04-2025	9:33	Site 2	Calm, cloud	Low	0	0	0	0	0	0	0	1 sculpin
16-04-2025	9:52	Site 3	Calm, cloud	Low	0	0	0	0	0	0	0	20 hooded nudibranchs, sculpin
16-04-2025	10:06	Site 5	Overcast	Low	375	30	4	4	0	0	3	Fish health taken here
16-04-2025	10:50	Site 9	Sun, calm	Low	11	11	0	0	0	0	0	20 green urchin
16-04-2025	13:43	Site 10	Clear	Low	66	30	3	3	0	0	0	1 red rock crab, 1 pipefish
16-04-2025	14:51	Site 8	Clear	Mid	13	13	2	2	0	0	0	30 sandlance
16-04-2025	15:10	Site 7	Clear	Mid	0	0	0	0	0	0	0	50 sandlance
16-04-2025	15:29	Site 6	Clear	Mid	93	30	11	11	0	0	0	3 juvenile ling
16-04-2025	15:53	Site 4	Clear	Mid	500	30	16	16	0	0	0	Greenling, shrimp
12-05-2025	10:34	Site 1	Calm, light rain	Low	0	0	0	0	0	0	0	2 sandlance, 5 hooded nudibranch
12-05-2025	10:48	Site 2	Calm, light rain	Low	0	0	0	0	0	0	0	1 unidentified trout
12-05-2025	11:07	Site 3	Calm	Low	0	0	0	0	0	0	0	7 shiner perch
12-05-2025	11:20	Site 5	Calm	Low	3000	30	5	5	0	0	2	Sculpin, fish health collected here
12-05-2025	15:23	Site 8	Sun, light wind	High	0	0	0	0	0	0	0	Tubesnout
12-05-2025	15:34	Site 7	Sun, light wind	High	800	29	9	9	0	0	0	Bluff set
12-05-2025	16:17	Site 6	Sun	High	0	0	0	0	0	0	0	2 gunnel, nudibranchs
12-05-2025	16:29	Site 4	Calm	High	0	0	0	0	0	0	0	10000 sandlance
12-05-2025	11:56	Site 9	Calm, light wind	Low	0	0	0	0	0	0	0	1 shiner perch, 1 sculpin, 1 gunnel, ctenophores
12-05-2025	14:20	Site 10	Sun, wind	High	44	30	0	0	0	0	0	Few snags, good set
02-06-2025	9:51	Site 9	Cloud	Mid	0	0	0	0	0	0	0	Sculpin, 5 shrimp
02-06-2025	12:00	Site 10	Cloud, high wind	Low	67	30	2	2	0	0	1	Bucketed fish
02-06-2025	13:01	Site 8	Sun, cloud	Low	0	0	0	0	0	0	0	Cutthroat trout, sculpin, gunnel
02-06-2025	13:16	Site 7	Sun, cloud	Low	2	2	2	2	0	0	0	5 dolly varden, school of tube snout, 25 shiner perch
02-06-2025	13:41	Site 6	Sun, cloud	Low	4	4	0	0	2	2	0	School of shiner perch. Bucketed fish due to swell
02-06-2025	14:01	Site 5	Sun, cloud	Low	0	0	0	0	0	0	0	100 shiner perch
02-06-2025	14:13	Site 4	Sun, cloud	Mid	0	0	0	0	0	0	0	400 sandlance
03-06-2025	6:12	Site 3	Overcast, wind	Mid	0	0	0	0	0	0	0	30 shiner perch, 1 striped perch
03-06-2025	6:36	Site 2	Overcast, wind	Mid	0	0	0	0	0	0	0	Ctenophores
03-06-2025	6:53	Site 1	Overcast	Mid	0	0	0	0	7	7	0	2 dungeness crabs, pricklebacks, 7 flatfish, 3 sculpins

### Appendix III – Sea Lice Analysis

Site Name	Date Collected (yyyy-mm-dd)	Fish Species	Fish #	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	Cal NM NOT ID	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	Total Lice	
Site 8	2025-04-16	Pink	1	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Site 8	2025-04-16	Pink	2	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 8	2025-04-16	Pink	3	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 8	2025-04-16	Pink	4	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 8	2025-04-16	Pink	5	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 8	2025-04-16	Pink	6	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 8	2025-04-16	Pink	7	33	0.4	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 8	2025-04-16	Pink	8	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
Site 8	2025-04-16	Pink	9	38	0.6	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 8	2025-04-16	Pink	10	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 8	2025-04-16	Pink	11	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 8	2025-04-16	Pink	12	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
Site 8	2025-04-16	Pink	13	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 8	2025-04-16	Chum	14	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 8	2025-04-16	Chum	15	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Chum	16	62	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Chum	17	56	2.1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 5	2025-05-12	Chum	18	64	3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Chum	19	53	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Chum	20	58	2.6	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 5	2025-05-12	Pink	21	63	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	22	57	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	23	55	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	24	60	2.4	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 5	2025-05-12	Pink	25	49	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	26	50	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	27	54	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	28	34	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	29	56	2.1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2
Site 5	2025-05-12	Pink	30	60	2.4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	2
Site 5	2025-05-12	Pink	31	63	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	32	56	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	33	52	1.7	0	0	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Site 5	2025-05-12	Pink	34	53	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	35	55	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	36	64	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
Site 5	2025-05-12	Pink	37	57	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	38	55	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Site Name	Date Collected (yyyy-mm-dd)	Fish Species	Fish #	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	Cal NM NOT ID	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	Total Lice	
Site 5	2025-05-12	Pink	39	52	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Site 5	2025-05-12	Pink	40	56	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	41	53	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	42	51	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	43	55	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	44	57	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	45	53	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	46	60	2.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	47	49	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	48	52	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	49	54	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-05-12	Pink	50	54	1.9	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 6	2025-04-01	Pink	51	27	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-01	Chum	52	29	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Chum	53	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Chum	54	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Chum	55	33	0.4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 5	2025-04-16	Chum	56	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	57	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	58	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	59	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	60	42	0.8	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	
Site 5	2025-04-16	Pink	61	30	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	62	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	63	32	0.3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1
Site 5	2025-04-16	Pink	64	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	65	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	66	31	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	67	36	0.5	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 5	2025-04-16	Pink	68	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	69	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	70	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	71	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	72	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	73	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	74	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	75	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	76	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	77	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	78	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	79	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Site Name	Date Collected (yyyy-mm-dd)	Fish Species	Fish #	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	Cal NM NOT ID	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	Total Lice	
Site 5	2025-04-16	Pink	80	40	0.6	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	2	
Site 5	2025-04-16	Pink	81	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	82	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	83	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	84	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 5	2025-04-16	Pink	85	34	0.3	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 5	2025-04-16	Pink	86	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	87	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	88	44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	89	45	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 6	2025-04-16	Pink	90	42	0.9	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
Site 6	2025-04-16	Pink	91	43	0.8	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Site 6	2025-04-16	Pink	92	46	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	93	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	94	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	95	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	96	50	1.2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
Site 6	2025-04-16	Pink	97	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	98	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	99	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	100	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	101	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	102	52	1.5	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Site 6	2025-04-16	Pink	103	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	104	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	105	45	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	106	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	107	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
Site 6	2025-04-16	Pink	108	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	109	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	110	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	111	48	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	112	44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	113	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	114	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	115	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Pink	116	44	0.8	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Site 6	2025-04-16	Chum	117	51	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Chum	118	58	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Chum	119	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Chum	120	58	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Site Name	Date Collected (yyyy-mm-dd)	Fish Species	Fish #	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	Cal NM NOT ID	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	Total Lice
Site 6	2025-04-16	Chum	121	53	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Chum	122	45	0.9	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 6	2025-04-16	Chum	123	55	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Chum	124	49	1.5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 6	2025-04-16	Chum	125	55	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Chum	126	53	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-04-16	Chum	127	53	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	128	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	129	49	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	130	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	131	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	132	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	133	29	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	134	41	0.7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Site 4	2025-04-16	Pink	135	51	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	136	30	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	137	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	138	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	139	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	140	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	141	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	142	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	143	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	144	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	145	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	146	34	0.5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 4	2025-04-16	Pink	147	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	148	44	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	149	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	150	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	151	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	152	29	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	153	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	154	30	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	155	45	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 4	2025-04-16	Pink	156	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Pink	157	30	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	158	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	159	45	1.2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 4	2025-04-16	Chum	160	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	161	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Site Name	Date Collected (yyyy-mm-dd)	Fish Species	Fish #	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	Cal NM NOT ID	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	Total Lice
Site 4	2025-04-16	Chum	162	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	163	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	164	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	165	48	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	166	51	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	167	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	168	47	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 4	2025-04-16	Chum	169	48	1.2	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Site 4	2025-04-16	Chum	170	50	1.1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 4	2025-04-16	Chum	171	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	172	48	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 4	2025-04-16	Chum	173	51	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	174	56	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	175	66	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Site 7	2025-05-12	Pink	176	48	1.2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2	2
Site 7	2025-05-12	Pink	177	49	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	178	56	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	179	60	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	180	63	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	181	51	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	182	54	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	183	59	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	184	58	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	185	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	186	45	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	187	59	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	188	57	1.8	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 7	2025-05-12	Pink	189	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	190	58	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	191	60	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	192	55	1.7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2	2
Site 7	2025-05-12	Pink	193	47	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	194	55	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Site 7	2025-05-12	Pink	195	51	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	196	57	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 7	2025-05-12	Pink	197	58	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	198	39	0.6	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 7	2025-05-12	Pink	199	56	2	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	2
Site 7	2025-05-12	Pink	200	59	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Pink	201	53	1.6	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 7	2025-05-12	Pink	202	57	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Site Name	Date Collected (yyyy-mm-dd)	Fish Species	Fish #	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	Cal NM NOT ID	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	Total Lice
Site 7	2025-05-12	Chum	203	71	4.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Chum	204	70	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Chum	205	72	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Chum	206	54	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Chum	207	62	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
Site 7	2025-05-12	Chum	208	43	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-05-12	Chum	209	75	5.1	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Site 7	2025-05-12	Chum	210	72	4.8	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Site 7	2025-05-12	Chum	211	64	3.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
Site 2	2025-04-01	Pink	212	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-06-02	Chum	213	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-06-02	Chum	214	41	0.8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 7	2025-06-02	Pink	215	46	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 7	2025-06-02	Pink	216	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-06-02	Pink	217	67	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-06-02	Pink	218	71	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-06-02	Pink	219	37	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-06-02	Pink	220	66	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 6	2025-06-02	Coho	221	110	18.7	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 6	2025-06-02	Coho	222	115	20.1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	2
Site 1	2025-06-03	Coho	223	111	20.1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 1	2025-06-03	Coho	224	120	22.2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 1	2025-06-03	Coho	225	108	16	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	2
Site 1	2025-06-03	Coho	226	115	20.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 1	2025-06-03	Coho	227	102	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 1	2025-06-03	Coho	228	105	16.6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 1	2025-06-03	Coho	229	116	22.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	230	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	231	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	232	44	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	233	42	0.7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Site 10	2025-04-16	Pink	234	43	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	235	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	236	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	237	44	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	238	39	0.5	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 10	2025-04-16	Pink	239	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	240	43	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	241	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	242	41	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	243	42	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Site Name	Date Collected (yyyy-mm-dd)	Fish Species	Fish #	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	Cal NM NOT ID	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	Total Lice
Site 10	2025-04-16	Pink	244	36	0.4	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Site 10	2025-04-16	Pink	245	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	246	37	0.5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Site 10	2025-04-16	Pink	247	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	248	41	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	249	45	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	250	42	0.7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Site 10	2025-04-16	Pink	251	45	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	252	45	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	253	43	0.6	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 10	2025-04-16	Pink	254	44	0.8	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
Site 10	2025-04-16	Pink	255	49	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	256	44	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	257	46	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	258	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Pink	259	45	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Chum	260	47	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Chum	261	45	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-04-16	Chum	262	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	263	44	0.7	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	2
Site 10	2025-05-12	Pink	264	45	1.1	0	1	1	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Site 10	2025-05-12	Pink	265	46	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	266	47	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	267	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	268	53	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	269	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	270	38	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	271	50	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	272	47	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	273	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	274	37	0.5	0	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Site 10	2025-05-12	Pink	275	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	276	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	277	44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	278	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	279	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	280	37	0.5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Site 10	2025-05-12	Pink	281	50	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	282	49	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	283	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	284	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Site Name	Date Collected (yyyy-mm-dd)	Fish Species	Fish #	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	Cal NM NOT ID	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	Total Lice
Site 10	2025-05-12	Pink	285	35	0.4	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 10	2025-05-12	Pink	286	44	0.9	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 10	2025-05-12	Pink	287	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	288	47	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 10	2025-05-12	Pink	289	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	290	37	0.7	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 10	2025-05-12	Pink	291	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-05-12	Pink	292	38	0.5	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 10	2025-06-02	Pink	293	50	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	294	53	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	295	68	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	296	52	1.5	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 10	2025-06-02	Pink	297	62	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	298	55	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	299	58	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	300	64	2.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	301	67	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	302	60	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	303	53	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	304	66	2.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	305	59	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	306	56	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	307	63	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	308	58	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	309	59	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	310	62	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	311	55	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	312	50	1.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
Site 10	2025-06-02	Pink	313	56	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	314	56	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	315	63	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	316	56	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	317	61	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	318	62	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	319	54	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	320	59	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	321	61	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Pink	322	62	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Chum	323	64	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 10	2025-06-02	Chum	324	52	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 9	2025-04-16	Pink	325	33	0.3	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Site 9	2025-04-16	Pink	326	40	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Site Name	Date Collected (yyyy-mm-dd)	Fish Species	Fish #	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	Cal NM NOT ID	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	Total Lice
Site 9	2025-04-16	Pink	327	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 9	2025-04-16	Pink	328	35	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 9	2025-04-16	Pink	329	32	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 9	2025-04-16	Pink	330	32	0.3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Site 9	2025-04-16	Pink	331	31	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 9	2025-04-16	Pink	332	32	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 9	2025-04-16	Pink	333	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 9	2025-04-16	Pink	334	40	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site 9	2025-04-16	Pink	335	31	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0