FINAL
Tsawwassen First Nation
Post-Season Fisheries
Report, 2010

Prepared by:

A.C. Blakley[1], K.K. English[1], and L. Cassidy[2]

LGL Limited[1]
environmental research associates
9768 Second Street
Sidney, BC
V8L 3Y8

and

Tsawwassen Fisheries Department[2]
1926 Tsawwassen Drive
Tsawwassen, BC
V4M 4G2

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LIST OF ACRONYMS

CCTAC	Canadian Commercial Total Allowable Catch
CPE	catch-per-effort
CTAC	Canadian Total Allowable Catch
DFO	Department of Fisheries and Oceans
FOG	Fisheries Operational Guidelines
FSC	food, social, and ceremonial
HD	Harvest Document
IFMP	Integrated Fisheries Management Plan
JFC	Joint Fisheries Committee
JTC	Joint Technical Committee
PSC	Pacific Salmon Commission
TAFP	Tsawwassen Annual Fishing Plan
TCC	Terminal Commercial Catch
TFA	Tsawwassen Final Agreement
TFD	Tsawwassen Fishing Department
TFN	Tsawwassen First Nation
THA	Tsawwassen Harvest Agreement

1 Introduction

1.1 Tsawwassen Final Agreement

Tsawwassen First Nation has the right to harvest for domestic purposes:

a) Fish and aquatic plants in the Tsawwassen Fishing Area; and

b) Intertidal bivalves in the Tsawwassen Intertidal Bivalve Fishing Area,

as outlined in the Tsawwassen Final Agreement (TFA 2007; Chapter 9). Starting on the Treaty Effective Date (3 April 2009), all Tsawwassen fisheries must be conducted in a manner that is consistent with the Tsawwassen Final Agreement, Tsawwassen Harvest Agreement (THA), Harvest Documents, Tsawwassen Fisheries Operational Guidelines (FOG 2009) document, Tsawwassen law, and applicable federal and provincial government laws. As indicated in the TFA, Tsawwassen fisheries must be conducted within the Tsawwassen Fishing Area or Tsawwassen Intertidal Bivalve Fishing Area (see Figures 1.1 and 1.2) unless otherwise permitted in Harvest Documents or licences issued by Fisheries and Oceans, Canada.

1.2 Joint Fisheries Committee

On the Treaty Effective Date, a Joint Fisheries Committee (JFC) was formed to facilitate the planning and management of the Tsawwassen First Nation (TFN) fishing rights consistent with the content of the TFA (Chapter 9). The JFC consists of one representative from Canada, the province, and Tsawwassen First Nation; although, additional individuals may participate in meetings to assist the designated representatives. The JFC will meet a minimum of twice yearly: first, to review the Tsawwassen Annual Fishing Plan (TAFP) and, second, to conduct a post-season review of TFN's fisheries. The JFC will also discuss other relevant matters associated with the implementation of the TFA Fisheries Chapter. For a more detailed list of functions and responsibilities of the JFC, refer to the TFA (Chapter 9) or section 8 and Appendix C of the FOG document.

A further extension of the JFC is the Joint Technical Committee (JTC) which is formed and directed by the JFC. The JTC is responsible for technical fisheries issues as set out by the JFC. The JTC operates on a consensus basis, thus, if a matter cannot be resolved it is deferred to the JFC. For more detailed list of functions and responsibilities for the JTC, refer to the FOG document.

TFN produced a comprehensive post-season fisheries report summarizing the details of the 2009 FSC and THA fisheries (Blakley et al. 2010). The JTC and JFC have reviewed this report and it is now publicly circulated.

1.3 Domestic Fisheries Allocations

Tsawwassen Domestic Allocations for Fish and Aquatic Plants are calculated using formulas described in the TFA (Appendix J-2). Information used to calculate the Tsawwassen food, social, and ceremonial (FSC) allocation for sockeye is based on the Canadian Total Allowable Catch (CTAC). For example:

$$\text{TFN FSC sockeye allocation} = 1\% \times \text{CTAC for CTAC} < 500{,}000$$

Data collected throughout the fishing season may cause changes to the CTAC; thereby modifying the TFN allocation for sockeye. Any changes that may affect the FSC allocations are to be communicated to all parties involved through the JFC. Modifications to FSC allocations may occur pre-, in-, and post-season for an individual species.

1.4 Tsawwassen Harvest Agreement and Commercial Allocation

The Tsawwassen Harvest Agreement (THA) came into effect on 3 April 2009 for the purposes of increasing the commercial fishing capacity of the Tsawwassen First Nation (TFA, Chapter 9). Tsawwassen commercial allocation for salmon is described in Clause 11 of the Tsawwassen First Nation Harvest Agreement. Each year, Fisheries and Oceans will issue licences for the Tsawwassen commercial allocation of sockeye, chum, and pink salmon. Tsawwassen's commercial allocations vary with the size of the Canadian Commercial Total Allowable Catch (CCTAC) for sockeye and pink salmon and the Terminal Commercial Catch (TCC) for chum salmon.

In addition, the THA allows for the commercial harvesting of crab in Management Areas I and J (see Figure 1.3). Tsawwassen First Nation may not relinquish more than five crab licences on an annual basis. Crab fishers must comply with the regulations and requirements set out in the THA and any licence issued by Fisheries and Oceans, Canada.

2 Fisheries Management

2.1 Fisheries Operational Guidelines

As indicated in the TFA, "the Tsawwassen Fisheries Operational Guidelines set out the operational principles, procedures and guidelines to assist the Parties (TFN, Canada and British Columbia) in implementing the Fisheries chapter of the TFA." The FOG document (FOG 2009) describes current fisheries management goals and procedures for harvestable fish stocks that reside or migrate through the Tsawwassen Fishing Area. The goals and procedures outlined in the FOG document are essential for ensuring the TFA is being implemented properly. In addition, it should be acknowledged that these goals and procedures will evolve over time, and it will be the role of the JFC to review the FOG document as needed on an annual basis to incorporate any new information (e.g., updates on escapement targets, new fisheries management policies, stock trends) that may apply to TFN fisheries management.

2.2 Tsawwassen Fishing Plan 2010

Every year, TFN develops a Tsawwassen Annual Fishing Plan that may be submitted for comment and feedback to the JTC before it is submitted to the JFC where it is reviewed to assist in the planning for Tsawwassen's fisheries and the issuance of Harvest Documents. In 2010, the effective date of the Tsawwassen Annual Fishing Plan was 1 April 2010 and carries through to 31 March 2011. Tsawwassen's Annual Fishing Plan provides the JTC and the JFC with proposed harvest plans and harvest expectations for each species (i.e., salmon, crab, bivalves, groundfish, and aquatic plants) based on pre-season forecasts. The TAFP also notifies the JTC and JFC of TFN's harvest levels, preferred harvest times, and fishing areas and methods for each species or species-group.

Conservation measures for each species are also highlighted in the Annual Fishing Plan. The 2010 TAFP is found in Appendix A.

2.3 Harvest Documents

Fisheries and Oceans, Canada is responsible for issuing Harvest Documents for all TFN fisheries for salmon, groundfish, intertidal bivalves, crab, and other marine fish species. The Parks Canada Agency is responsible for issuing Harvest Documents for TFN bivalve fisheries occurring within national park intertidal areas. The BC Ministry of Agriculture is responsible for issuing Harvest Documents for aquatic plants and the BC Ministry of Forest, Lands and Natural Resource Operations is responsible for issuing Harvest Documents for sturgeon and steelhead, where applicable. Tsawwassen Harvest Documents will be consistent with what is outlined in the TFA and FOG document. Tsawwassen First Nation is obligated to inform TFN fishers prior to a fishery opening of their fishing rights and any provisions outlined in the Harvest Document. Appendix B provides examples of Harvest Documents issued to TFN in 2010 for the various species and fisheries (i.e., eulachon ceremonial, sockeye FSC, crab FSC, prawn and shrimp FSC, and sockeye commercial). For further clarification of Harvest Documents refer to the TFA and FOG document.

2.4 Catch Monitoring Procedures

As outlined in Appendix D of the FOG document: "the overall goal of the catch monitoring program is to ensure accurate information is gathered to aid all Parties in the management of the fishery and implementation of the TFA."

In order to accurately estimate FSC salmon harvest for TFN, the following data must be collected:

1. TFN FSC salmon fishers are required to report their harvest and fishing effort information after a day's fishing to the Tsawwassen Fishing Department (TFD). Reporting of catch and effort can be provided via phone or on-site interview conducted by a staff member of the TFD staff (interviewers). Interviews will record catch (kept and released), effort (hours fished), and gear type (number and type of nets used) information on the "TFN Salmon Fisheries Interview Dataform" (see Appendix C). An attempt is made to contact active fishers via the phone after a FSC opening period (one or more consecutive days of fishing) to confirm complete catch and effort data.
2. Each TFN harvester will be required to maintain a daily fishing log using the "TFN Salmon Fisheries Log Dataform" (see Appendix C). TFN fishers will submit salmon fishing logs after each FSC fishery, preferably at the landing site, to allow verification of the hailed catch. Catch calendars are also available to record the days when fishing occurred for each species of salmon (see example month in Appendix C).
3. TFD staff will conduct random inspections of TFN FSC fishing vessels, during a fishery, to validate salmon catch. Counting a vessel's catch or validation will either occur during an on-water interview or at landing site. The JTC proposed validation coverage be 20% or more for each fishery.

4. Within 24 hours of the close of a fishery, TFD will provide a preliminary report to Fisheries and Oceans that includes the number of vessels participating, the type of gear used, fishing effort (in hours), and the catch by species. Preliminary catch reports will be finalized within 48 hours of the close of a fishery.

In order to accurately estimate the crab and non-salmon FSC harvest for TFN, the following data must be collected:

1. Similar to the FSC salmon data collection requirements, TFN fishers are required to report any retention of FSC crab or non-salmon species. Catch and fishing effort can be reported directly to TFD or by on-site interview conducted by a TFD staff member. Interviewers will record catch and effort information for crab fishing on the "TFN Crab Fishing Interview Dataform" and other non-salmon species on the "TFN Other Fisheries Interview Dataform" (see Appendix C).
2. TFN fishers will be required to maintain daily fishing logs for crab fishing efforts using the "TFN Crab Fisheries Log Dataform" and all fishing efforts directed at other fish species should be recorded on the "TFN Other Fisheries Log Dataform" (see Appendix C). TFD staff will compare the logs to the on-water interviews for an accurate account of total catch and effort. In addition, catch calendars are also available to record the days when fishing occurred for each species (see example month in Appendix C).
3. FSC fishing targeting crab and other non-salmon species will be validated similar to the salmon fisheries. Validation will occur after a completed fishing trip to ensure accuracy of the information recorded on the daily fishing logs.
4. Within 72 hours of the end of each month, TFD staff will provide a catch and effort report for FSC crab and other non-salmon species. TFD staff will follow-up with any fishers that did not comply with the reporting requirements.

See Appendix D of the FOG document for further detailed information on TFN catch monitoring procedures.

3 Salmon FSC Fisheries 2010

3.1 Allocations

Table 3.1 summarizes TFN's FSC salmon fishery allocations for 2010 based on pre-, in-, and post-season estimates. TFN's FSC allocations for Chinook, sockeye, coho, and chum were 625, 15,226, 500, and 2,576, respectively. The Chinook, sockeye, chum, and coho allocations remained constant throughout the 2010 fishing season. Even year returns of Fraser pink salmon are typically too small to warrant any directed harvest of these stocks; therefore, there was no FSC allocation for pink salmon in 2010.

The allocation for sockeye salmon is determined using an abundance-based formula that is driven by the Canadian Total Allowable Catch. As indicated in the FOG document, when the CTAC is greater than or equal to 3 million sockeye salmon, TFN's FSC allocation is fixed at 15,226 sockeye. In 2010, the pre-season FSC sockeye allocation was determined to be 15,226 as set out in the TFA (Appendix J-2) and the FOG document (Section 9.3.1; Table 9.1).

For a comparison of TFN's 2010 salmon harvest to post-season allocations, refer to section 3.5 (Overages and Underages).

3.2 Fishery Openings and Target Species

Table 3.2 summarizes Tsawwassen First Nations' Food, Social, and Ceremonial (FSC) and Tsawwassen Harvest Agreement (commercial) salmon fishery openings for 2010, listed by week-ending date. There were four occasions where there were multiple openings within a week (i.e., weeks ending 1 August, 15 August, 22 August, and 29 August). The FSC Chinook salmon fisheries began the week ending 20 June and continued through to the week ending 15 August. There were also four FSC salmon openings directed at sockeye salmon with the incidental catch of Chinook permitted (week endings 1 and 15 August). FSC fisheries directed at chum salmon began the second week of October and ended 31 October.

Table 3.2 also includes a list of the Tsawwassen Harvest Agreement salmon fishery openings. Further details on the THA salmon openings will be discussed in section 4.2.

3.3 Catch and Effort

Catch and effort for each salmon species was estimated from on-water and shore-based interviews by simply summing the catch and effort for all interviews. All fishers were contacted via phone after a FSC opening to confirm complete catch and effort data. This also allowed technicians to log catch and effort from fishers that were not encountered on the water. In addition, records were kept to indicate those interviews for which the catch was verified by the interviewer.

The total reported FSC harvest and effort of each salmon species is shown in Table 3.3. The overall FSC harvest of sockeye was estimated at 15,226; of this catch 64% (9,675) was harvested the week ending 1 August. Total FSC Chinook harvest was reported at 338 with the peak (92 Chinook) occurring during the week ending 18 July. The total chum harvest in the FSC fisheries was 2,019 and occurred from the week endings 10 October to 31 October. Eighty percent (1,620) of the total FSC chum harvest was harvested the week ending 17 October (Table 3.3).

There were no directed TFN FSC fishery openings for pink, coho, or steelhead. However, two pink and three coho salmon were kept because they were caught incidentally during the August sockeye FSC fisheries and the October FSC chum fisheries, respectively (Table 3.3).

Table 3.3 shows fishing effort (defined as the number of hours that nets were in the water fishing) by week. Total fishing effort for the FSC fishery openings was reported as 804 hours. However, due to an over-harvest of sockeye from the September THA fishery, 1,946 sockeye were kept and allocated to the FSC allocation. No effort was recorded for the THA fishery; therefore, the total fishing effort for FSC harvest was slightly higher than the 804 hours reported.

Table 3.4 summarizes Tsawwassen's FSC salmon catch and effort for interviews only. To further clarify, Table 3.4 only includes those interviews where every fish was individually "counted" either on the water or at the landing site. In some cases, this included watching a fisher remove the fish from an entire set. An interview would be

classified as a "hail" if the catch was partially counted, just observed, or not observed at all. The JTC proposed that at least 20% of the salmon catch be validated through interviews. Overall, interviews represented 44% of the total fishing effort for salmon (Table 3.4). Broken down by species, the 20% goal was achieved for sockeye (48%), Chinook (31%), pink (100%), and coho (33%). However, the 20% sampling goal was not achieved for chum (Table 3.4). Only 13% of the total chum catch was validated through interview because of the reduction of survey effort in October.

Table 3.4 also compares the catch-per-effort (CPE) by species for interviewed data versus non-interviewed data. The average CPE for Chinook was similar for both interviewed (0.30 Chinook/h) and non-interviewed data (0.52 Chinook/h). The average sockeye CPE from interviewed fishers (20.74 sockeye/h) was slightly higher than that for non-interviewed fishers (17.51 sockeye/h). Due to the vast number of sockeye (35 million) returning to the Fraser River the catch rates for both interviewed and non-interviewed fishers were extremely high as compared to other species. The most likely reason for the higher catch rate for the sockeye interview data is that surveyors are more likely to encounter the best fishers because they tend to fish more than the other fishers. The survey results for FSC chum fisheries differed to those for sockeye. The average chum CPE from interviewed fishers during the October chum fisheries (25.95 chum/h, n=8) was slightly lower than that for non-interviewed fishers (30.32 chum/h). Sample sizes for pink and coho CPE were too small to make any meaningful comparisons between the interview and non-interview data.

3.4 Bycatch

Table 3.5 summarizes the bycatch (fish released from nets) during the Tsawwassen FSC salmon fisheries in 2010. Bycatch harvest reports for sturgeon, flounder, steelhead, pink, and coho were 72, 3, 0, 0, and 0, respectively. Over 88 percent (64) of the sturgeon bycatch was harvested in July between the week endings 4 July and 25 July during directed Chinook FSC fisheries. The flounder bycatch (3) were harvested during the FSC sockeye and Chinook fishery openings that occurred between the week endings 4 July and 1 August.

Table 3.6 further details Tsawwassen FSC releases of sturgeon by fishing location. There was a total of 72 sturgeon released as bycatch from June to August, with the highest number (22) of sturgeon caught during the week ending 25 July in the Canoe Pass to Deas location (Stat Area 29-14).

3.5 Overages and Underages

It is acknowledged that the precise achievement of these Tsawwassen allocations cannot be consistently met on a seasonal basis. Therefore, the TFA (Appendix J of the TFA) outlines the calculation process if there is a difference between what was caught and what was allocated (termed "overages" and "underages"), by species.

An overage occurs when Tsawwassen harvest exceeds the defined Tsawwassen allocation whereas; an underage occurs when Tsawwassen harvests less than the defined Tsawwassen allocation. Underages can occur because another group harvested more, or because there was uncertainty in the management process for that species. The amount of the overage or underage will be documented in a multi-year accounting process.

Table 3.7 summarizes the Tsawwassen FSC salmon catch, allocation, balance (overages and underages), and carry forward amounts for each salmon species. Tsawwassen harvested less than the defined allocation by 287, 497, and 557 for Chinook, coho, and chum salmon, respectively. No carry forward is proposed for coho and chum species because Tsawwassen fishing efforts were less than that required to harvest the TFN allocations for these species.

The majority of the salmon fishing effort in 2010 was targeted at sockeye due vast number of sockeye returning to the Fraser. TFN's allocation for FSC sockeye was reached by mid-September. However, pre-season concerns were identified regarding early timing Chinook stocks that migrate through the lower Fraser River in April through mid-June. The Nicola Tribal Association identified some serious conservation concerns for "early timed" Chinook and requested that all Fraser First Nations "hold off on any fishing" for these stocks. Tsawwassen agreed with most other Lower Fraser First Nations to not implement any Chinook fisheries from January through mid-June in 2010. From mid-June to mid-July FSC fishing for Chinook salmon was limited to 24 hours per week and from mid-July through to the end of August, 48 hour Chinook openings were permitted. As of 15 August 2010, Tsawwassen had 287 Chinook remaining in their 2010 allocation, but no further FSC fisheries were requested or provided to harvest these Chinook. This underage was more than enough to offset the overage of 95 Chinook harvested in 2009. Tsawwassen requested that the remaining underage of 192 Chinook be carried forward for harvest in future years because of their self-imposed conservation efforts to protect early timing Chinook stocks. DFO rejected this proposal based on the strict interpretation of the overage/underage provisions defined in Appendix J-3 of the Tsawwassen Final Agreement (see letter from DFO dated 20 May 2011 – Appendix D). Clause "e" of the overage/underage provision provides some latitude for the carry-forward of this type of underage; however, this clause requires agreement between Tsawwassen and Canada. Consequently, none of the Chinook underage from 2010 will be carried forward (Table 3.7). Tsawwassen and Canada will endeavour to reach agreement, prior to the end of each future fishing seasons, on any instances where Clause "e" may be applied to permit the an underage to be carried forward for a specific species.

3.6 Recommendations

The following are recommendations for the 2011 FSC fishing season:

- Continue to improve the completeness of catch reporting by filing reports to Fisheries and Oceans within 24 to 48 hours, as outlined in the Harvest Documents and the TFN Fisheries Operational Guidelines.
- Continue to provide pre-season training in data collection, data entry, and catch reporting to newly hired technicians.
- Upgrade the Atlegay model to reflect TFN's annual reporting requirements.
- Continue to improve the landing validation program. Technicians should differentiate on their datasheets and the database if a harvest was counted, estimated, hailed, or not observed. Achievement of the 20% sampling goal for <u>all</u> salmon fisheries will require increased on-water surveys or interview effort for chum fisheries.

- CWT sampling protocol improvements

4 Salmon Commercial (THA) Fisheries 2010

4.1 Allocations

The THA allocation is equivalent to 0.78% of CCTAC for Fraser River Sockeye Salmon for that year. In 2010, Tsawwassen First Nation was authorized to sell 97,981 sockeye salmon during commercial THA fisheries. The THA allocation was calculated based on the CCTAC reported in the 30 September 2010 Fraser River Sockeye In-Season Status report (Appendix E). Like the FSC fisheries, the THA fisheries are subject to conservation needs and to agreed-upon monitoring, enforcement, and management regimes. There were no THA licences issued to TFN for chum and pink salmon. For chum it was due to conservation concerns, for pink it was because even year returns of Fraser pink salmon are typically too small to warrant any directed harvest of these stocks.

4.2 Fishery Openings and Target Species

Tsawwassen First Nation was involved in seven THA fisheries from the week ending 15 August to 12 September (Table 3.2). These fisheries were directed at sockeye salmon; however, Chinook, and hatchery marked coho were also permitted. The main gear type for the THA fisheries was drift nets; except for the September THA fishery where a seine boat was chartered.

4.3 Catch and Effort

The total sockeye salmon harvested during THA fisheries from August to September was 98,315 sockeye (Table 4.1). Catch from these fisheries were estimated using a Mandatory Landing Program in which fishers' catch were enumerated at landing sites throughout the fishing area. Fishing effort was not recorded for this fishery.

TFN harvested more than the defined allocation by 334 sockeye. The overage occurred during the last THA fishery (September 9 and 10). Due to a miscommunication between TFN and the seiner crew, the seiner continued fishing after the allocation had been reached. TFN over-harvested a total of 2,280 sockeye; however, 1,946 sockeye were transferred to "top up" the FSC allocation (Table 3.3).

Sockeye and Chinook salmon harvested under this licence may be sold, traded, or bartered. Whereas, any hatchery marked coho salmon harvested under this licence may not be. Approximately 73% (71,464) of the total THA allocation for sockeye was sold to packers and the remaining 27% (26,851) of the sockeye were taken home (kept) by the individual TFN fishers (Table 4.1).

4.4 Bycatch

Table 4.1 summarizes the number of fish reported as released from the THA sockeye fisheries. Releases included 4 sockeye, 2 coho, and 3 sturgeon (Table 4.1). The sockeye that were released were damaged and not edible.

4.5 Recommendations

- The rationale for strict limitation of TFN commercial fishing opportunities for chum salmon defined in the 2010 IFMP requires further discussion between TFN, Ministry of Forest, Lands and Natural Resource Operations and DFO fisheries managers.
- JTC to attempt to identify possible selective harvest methods to allow for the harvest of the TFN's commercial chum allocation in years when commercial chum fisheries are permitted in Area 29.
- Improve the Atlegay model to include "kept" and "sold" columns when entering harvest data for the THA fisheries.

5 Crab Fisheries 2010

5.1 FSC Openings, Catch and Effort

There were four licences issued for TFN FSC crab harvest which spanned the time period from 1 January 2010 to 14 January 2011, targeting Dungeness, Graceful, and Red Rock crab species. However, TFN fishers only kept Dungeness and Red Rock crabs, which were all harvested using traps. No crabs were harvested by TFN members using hand picking method in 2010.

Table 5.2 summarizes the FSC crab catch and effort by licence. Overall, there was a total of 21,558 Dungeness crab and 2 Red Rock crab harvested under the four licences. Approximately, 46% (10,033) of the total Dungeness were harvested under the HD-404 licence from April to June. Harvest Document-404 also recorded the highest amount of fishing effort 14,332 trap-days. Comparatively, fishers active during the January to March period (licence HD-400) harvested 2,915 Dungeness and 2 Red Rock crab and reported 8,672 trap-days of fishing effort. The licence HD-474 spanned from 1 October 2010 to 14 January 2011. However, for 2010 reporting purposes only the crab harvested up until the end of December is included in this report. An additional 672 Dungeness crab were harvested from 1-14 January 2011 under licence HD-474.

For another perspective, Table 5.3 breaks down the total Dungeness and Red Rock crab harvest, releases and effort by month rather than licence. The month of June recorded the highest Dungeness crab harvest (4,310) and fishing effort (4,906 trap-days), whereas, February had the lowest recorded harvest and fishing effort (627 and 1,450 trap-days, respectively). January was the only month where Red Rock crabs (2) were harvested and kept. Inclement weather probably played a factor for the low harvest in December, January, and February. Soft-shell crab would account for a high portion of the releases in May. Most of the releases in other months were crabs smaller than the minimum size limit.

TFN Fisheries Department purchased a tank which has been plumbed to hold crab until they can be distributed. Based on a recommendation from the JFC, the tank should be helpful documenting the distribution of the crabs to TFN members or other FN communities.

5.2 Commercial Openings, Catch and Effort

In 2010, there were commercial crab openings in the south coast management areas. The first opening occurred in Area I from 15 June to 30 November and the second opening occurred in Area J from 15 July to 30 November (Figure 1.3). The commercial crab openings ran concurrently with the FSC crab fisheries openings, which potentially limited the FSC TFN crab harvest because of the proximity of the commercial harvest and additional impact to the crab stocks.

There are TFN FSC crab fishers who also commercially harvest crab. These fishers are required to report their catch directly to DFO managers on a monthly basis.

5.3 Recommendations

The following are recommendations for the 2010 FSC crab fishing season:

- Stress the importance to the FSC crab operators about limiting crab fishing to daylight hours only.
- Continue documenting the distribution of the crabs for TFN members or other FN communities.
- Continue to improve the completeness and timeliness of catch reporting to Fisheries and Oceans.
- Conduct on-water surveys at regular interval during the FSC crab fishery to verify catch and effort reports.

6 Other Fisheries 2010

6.1 Eulachon

The IFMP for eulachon indicates that: "Due to conservation concerns, only very limited Fraser ceremonial fisheries for eulachon will be considered in 2010." Six ceremonial licences were issued for eulachon (23 April, 26 April, 27 April, 28 April, 29 April and 30 April) and all were 12 hours or less in duration (Table 6.1). Table 6.2 indicates a total of 41 lbs. of eulachon were harvested during the six eulachon openings in April. The total fishing effort for the eulachon fishery openings was 20 hours. No fishing occurred on 29 April due to severe wind conditions. Sturgeon and chub were also caught as by-catch during the eulachon fishery. A total of 120 chub were caught and released during the 28 April fishery and 1 sturgeon was caught and released during the 30 April fishery (Table 6.2).

6.2 Intertidal Bivalves

Intertidal bivalves may be harvested for FSC purposes in the Intertidal Bivalve Fishing Area by any designated TFN fishermen at the times and locations defined in the Tsawwassen Harvest Document. While the JTC is continuing to work on an Intertidal Bivalve Harvest Document, no Harvest Document was issued in 2010; therefore, no harvest of bivalves took place. Tsawwassen First Nation is continuing their consultations with, the Hul'qumi Treaty Group and other First Nations to discuss terms and conditions governing the harvest of intertidal bivalves where the Tsawwassen Intertidal Bivalve Fishing Area overlaps the traditional territories for other First Nations. Tsawwassen First

Nation has signed a protocol agreement with the Cowichan First Nation outlining the terms and conditions governing the harvest of intertidal bivalves, where the Tsawwassen Intertidal Bivalve Fishing Area overlaps Cowichan traditional territory.

6.3 Shrimp and Prawns

Shrimp and prawns may be harvested for FSC purposes by TFN fishermen as outlined in a Tsawwassen Harvest Document. In 2010, TFN was issued a Harvest Document licence (LFA-09-HD-405) for prawn and shrimp that opened 1 May and closed 31 May, with traps as the mandatory gear type. However, there was no recorded harvest of shrimp or prawns by TFN fishers in 2010.

6.4 Rockfish, Lingcod, Halibut, Dogfish, and Sole (Groundfish)

Rockfish, lingcod, halibut, dogfish, and sole may be harvested for FSC purposes by TFN fishermen as defined in a Tsawwassen Harvest Document. There were no Harvest Document licences issued for groundfish, and no TFN FSC harvest of these species occurred in 2010.

6.5 Marine Aquatic Plants

The harvest of aquatic plants (including attached and detached kelps and seaweeds) within the Province of British Columbia is managed by the Aquaculture Operations Branch of the BC Ministry of Agriculture. Tsawwassen First Nation is currently in discussions with the Province of BC and Fisheries and Oceans to review the aquatic plants harvest details, including: harvest techniques, plant identification, and reporting. The JTC is currently tasked with the review of a draft Harvest Document for aquatic plants and identifying the primary target species and preferred harvesting methods for these species. TFN members did not harvest aquatic plants in 2010.

7 References

Blakley, A.C., K.K. English, and L. Cassidy. 2010. Tsawwassen First Nation Post-Season Fisheries Report, 2009. Prepared by LGL Limited, Sidney, BC and Tsawwassen Fisheries Department, Tsawwassen, BC.

FOG. 2009. Tsawwassen Fisheries Operational Guidelines approved by Canada, British Columbia and the Tsawwassen First Nation on the Effective Date (3 April 2009). 57 p. plus appendices.

TFA. 2007. Tsawwassen First Nation Final Agreement signed by Canada, British Columbia and the Tsawwassen First Nation in December 2007. 214 p. plus appendices.

THA. 2006. Tsawwassen First Nation Harvest Agreement signed by Canada, British Columbia and the Tsawwassen First Nation in December 2006. 12 p.

8 Acknowledgments

It is often forgotten that the final products depend ultimately on the diligence and dedication of the individuals who collect the data in the field. With this in mind, we would like to thank the following Tsawwassen First Nation fisheries program staff for their contributions in conducting the field program: Tammy Williams, Josh Stratton, Brad Johnson, Joe Williams, Liana Williams, Doug Doughty, Pam Proteau, and Flavian Harry (fisheries officer) all of whom worked with diligence and enthusiasm in conducting the interviews, on-water patrols, and processing of data that produced the primary data for the study. As well, we thank Mike Baird for his advice and guidance during the fishing season. We would also like to thank the many Tsawwassen fishers who provided their catch and effort information to TFN fisheries program staff.

From Fisheries and Oceans Canada, we thank Terri Bonnet, Jason Morgan, Ken Green, Bridge Ennevor, Ann-Marie Huang, Greg Mallette, Janet Gagne, Marla Maxwell, Matt Parslow, and Diana Trager for their assistance with the many tasks required to implement TFN fisheries and prepare this report. From the BC Ministry of Forest, Lands and Natural Resource Operations, we thank Duane Jesson for facilitating communication with provincial government ministries.

TABLES

Table 3.1. Tsawwassen FSC salmon fishery allocations (in pieces), 2010.

Season	Chinook	Sockeye[1]	Pink	Coho	Chum
Pre-season	625	15,226	N/A	500	2,576
In-Season	625	15,226	N/A	500	2,576
Post-Season	625	15,226	N/A	500	2,576

[1] Fraser River Sockeye Status report, September 30, 2010 (see Appendix E for details).

Table 3.2. Tsawwassen FSC and Harvest Agreement salmon fishery openings by date, gear type, and target species, 2010.

Week Ending	Licence #	Fishery Type	Target Species	Opening Date and Time	Closing Date and Time	Gear Type
20-Jun	LFA-10-HD-409	FSC - Communal	Chinook	19-Jun 12:00	20-Jun 12:00	drift net,set net, rod and reel
27-Jun	LFA-10-HD-409	FSC - Communal	Chinook	26-Jun 12:00	27-Jun 12:00	drift net,set net, rod and reel
4-Jul	LFA-10-HD-413	FSC - Communal	Chinook	3-Jul 12:00	4-Jul 12:00	drift net
11-Jul	LFA-10-HD418	FSC - Communal	Chinook	10-Jul 12:00	11-Jul 12:00	drift net
18-Jul	LFA-10-HD418	FSC - Communal	Chinook	16-Jul 12:00	18-Jul 12:00	drift net
25-Jul	LFA-10-HD418	FSC - Communal	Chinook	23-Jul 12:00	25-Jul 12:00	drift net
1-Aug	LFA-10-422	FSC - Communal	Sockeye and Chinook	27-Jul 12:00	27-Jul 21:00	drift net,set net
1-Aug	LFA-10-HD-425	FSC - Communal	Sockeye and Chinook	31-Jul 9:00	31-Jul 21:00	drift net,set net
15-Aug	LFA-10-HD-444	FSC - Communal	Sockeye and Chinook	13-Aug 18:00	13-Aug 20:00	drift net
15-Aug	LFA-10-HD-442	FSC - Communal	Sockeye and Chinook	14-Aug 10:00	14-Aug 14:00	drift net,set net
15-Aug	LFA-10-HD-438	Tsawwassen Harvest Agreement	Sockeye	9-Aug 15:00	9-Aug 21:00	drift net,set net
22-Aug	LFA-10-HD-448	Tsawwassen Harvest Agreement	Sockeye	20-Aug 14:00	20-Aug 16:00	drift net,set net
22-Aug	LFA-10-HD-452	Tsawwassen Harvest Agreement	Sockeye	22-Aug 12:00	22-Aug 22:00	drift net,set net
29-Aug	LFA-10-HD-457	Tsawwassen Harvest Agreement	Sockeye	28-Aug 6:00	28-Aug 18:00	drift net,set net
29-Aug	LFA-10-HD-457_AMD	Tsawwassen Harvest Agreement	Sockeye	29-Aug 12:00	29-Aug 17:00	drift net,set net
5-Sep	LFA-10-HD-462	Tsawwassen Harvest Agreement	Sockeye	3-Sep 8:00	5-Sep 19:00	drift net,set net
12-Sep	LFA-10-HD-466_AMD01	Tsawwassen Harvest Agreement	Sockeye	9-Sep 8:30	10-Sep 19:00	seine net
10-Oct	LFA-10-HD-479	FSC - Communal	Chum	9-Oct 12:00	10-Oct 12:00	drift net,set net, rod and reel
17-Oct	LFA-10-HD-479	FSC - Communal	Chum	15-Oct 12:00	17-Oct 12:00	drift net,set net, rod and reel
24-Oct	LFA-10-HD-482	FSC - Communal	Chum	23-Oct 12:00	24-Oct 12:00	drift net,set net, rod and reel
31-Oct	LFA-10-HD-484	FSC - Communal	Chum	30-Oct 9:00	31-Oct 9:00	drift net,set net, rod and reel

Table 3.3. Summary of Tsawwassen FSC salmon catch and effort, 2010.

Weekend		Effort	Tsawwassen Catch (Kept)					
Date	Licence #	Hours	Chinook	Sockeye	Pink	Coho[2]	Chum	Steelhead
6/20/2010	LFA-10-HD-409	17	20	0	0	0	0	0
6/27/2010	LFA-10-HD-409	27	37	0	0	0	0	0
7/4/2010	LFA-10-HD-413	58	51	4	0	0	0	0
7/11/2010	LFA-10-HD418	56	48	0	0	0	0	0
7/18/2010	LFA-10-HD418	72	92	8	0	0	0	0
7/25/2010	LFA-10-HD418	68	76	3	0	0	0	0
8/1/2010	LFA-10-HD422	120	0	3,090	0	0	0	0
8/1/2010	LFA-10-HD-425	220	10	6,585	1	0	0	0
8/15/2010	LFA-10-HD-444	13	1	847	1	0	0	0
8/15/2010	LFA-10-HD-442	85	3	2,743	0	0	0	0
10/10/2010	LFA-10-HD-479	4	0	0	0	2	65	0
10/17/2010	LFA-10-HD-479	47	0	0	0	0	1,620	0
10/24/2010	LFA-10-HD-482	10	0	0	0	0	242	0
10/31/2010	LFA-10-HD-484	7	0	0	0	1	92	0
12/09/10[1]	LFA-10-HD-466_AMD01	N/A	0	1,946	0	0	0	0
Total		**804**	**338**	**15,226**	**2**	**3**	**2,019**	**0**

[1] Transfer from EO overage to FSC allocation; data not entered into the Atlegay database due to the nature of the fishery

[2] marked coho kept

Table 3.4. Summary of Tsawwassen FSC salmon catch and effort (vessel-hours) for interviews only and comparison of catch-per-effort estimates for fishers interviewed while fishing (interviewed) and those reporting after the fishery (non-interviewed).

Week Ending[1]	Licence #	Effort Hours	Tsawwassen Catch (Kept)					
			Chinook	Sockeye	Pink	Coho	Chum	Steelhead
6/20/2010	LFA-10-HD-409	0	0	0	0	0	0	0
6/27/2010	LFA-10-HD-409	22	23	0	0	0	0	0
7/4/2010	LFA-10-HD-413	15	19	2	0	0	0	0
7/11/2010	LFA-10-HD418	8	7	0	0	0	0	0
7/18/2010	LFA-10-HD418	20	18	3	0	0	0	0
7/25/2010	LFA-10-HD418	28	31	3	0	0	0	0
8/1/2010	LFA-10-HD422	120	0	3090	0	0	0	0
8/1/2010	LFA-10-HD-425	104	6	3208	1	0	0	0
8/15/2010	LFA-10-HD-444	7	1	447	1	0	0	0
8/15/2010	LFA-10-HD-442	23	0	627	0	0	0	0
10/10/2010	LFA-10-HD-479	0	0	0	0	0	0	0
10/17/2010	LFA-10-HD-479	4	0	0	0	0	168	0
10/24/2010	LFA-10-HD-482	2	0	0	0	0	25	0
10/31/2010	LFA-10-HD-484	5	0	0	0	1	60	0
Total (interviews)		356	105	7,380	2	1	253	0
Total (non-interviews)		448	233	7,846	0	2	1,766	0
Grand Total		804	338	15,226	2	3	2,019	0
Total catch interviewed		44%	31%	48%	100%	33%	13%	n/a
Catch-per-effort (CPE)[1]								
Interview Data only			0.30	20.74	0.01	0.00	25.95	0.00
Non-Interview data only			0.52	17.51	0.00	0.00	30.32	0.00

[1] Chum CPE calculated using October fisheries only

Table 3.5. Tsawwassen bycatch from the FSC salmon fisheries, 2010.

Weekend Date	Licence #	Effort Hours	Released				
			Sturgeon	Flounder	Steelhead	Pink	Coho
6/20/2010	LFA-10-HD-409	17	0	0	0	0	0
6/27/2010	LFA-10-HD-409	27	3	0	0	0	0
7/4/2010	LFA-10-HD-413	58	13	1	0	0	0
7/11/2010	LFA-10-HD418	56	14	0	0	0	0
7/18/2010	LFA-10-HD418	72	15	1	0	0	0
7/25/2010	LFA-10-HD418	68	22	0	0	0	0
8/1/2010	LFA-10-HD422	120	3	0	0	0	0
8/1/2010	LFA-10-HD-425	220	2	1	0	0	0
8/15/2010	LFA-10-HD-444	13	0	0	0	0	0
8/15/2010	LFA-10-HD-442	85	0	0	0	0	0
10/10/2010	LFA-10-HD-479	4	0	0	0	0	0
10/17/2010	LFA-10-HD-479	47	0	0	0	0	0
10/24/2010	LFA-10-HD-482	10	0	0	0	0	0
10/31/2010	LFA-10-HD-484	7	0	0	0	0	0
12-Sep-10[1]	LFA-10-HD-466_AMD01	N/A	0	0	0	0	0
Total		**804**	**72**	**3**	**0**	**0**	**0**

[1] Transfer from EO overage to FSC allocation; data not entered into the Atlegay database due to the nature of the fishery.

Table 3.6. Tsawwassen FSC releases of sturgeon (bycatch) by date and location, 2010.

Week Ending	Locations[1]					Total
	T1	T2	T3	T4	T5	
20-Jun						0
27-Jun			3			3
4-Jul			11	2		13
11-Jul			0	14		14
18-Jul			13	2		15
25-Jul			22			22
1-Aug			5			5
15-Aug						0
10-Oct						0
17-Oct						0
24-Oct						0
31-Oct						0
Total	0	0	54	18	0	72

[1]T1 = Roberts Bank (29-6,29-7), T2 = Sandheads (29-9, 29-10), T3 = Canoe Pass to Deas (29-14), T4 = Steveston-Pattullo (29-13), T5 = Pattullo-Port Mann (29-17), T6 = North Arm (29-12)

Table 3.7. Tsawwassen FSC salmon overages and underages based on 2010 allocation.

	Chinook[1]	Sockeye	Pink[2]	Coho[2]	Chum[2]
Total Catch	338	15,226	2	3	2,019
Allocation	625	15,226	n/a	500	2,576
Remaining	287	0	0	497	557
Previous carry forward	-95	0	0	0	0
Balance	192	0	0	497	557
Carry forward to 2011	0	0	0	0	0

[1] Underage not carried forward (see text).

[2] Underage not carried forward due to limited Tsawwassen harvesting effort.

Table 4.1. Tsawwassen First Nation Catch Summary for Tsawwassen Harvest Agreement Salmon Fisheries, 2010.

Weekend Date[1]	Licence #	Tsawwassen Catch						Released					
		Chinook	Sockeye	Pink	Coho	Chum	Steelhead	Sturgeon[3]	Flounder	Steelhead	Sockeye	Pink	Coho
15-Aug-10	LFA-10-HD-438 (sold)	2	8,697	0	0	0	0	0	0	0	4	0	0
15-Aug-10	LFA-10-HD-438(kept)	15	927	0	0	0	0	0	0	0	0	0	0
22-Aug-10	LFA-10-HD-448 - KEPT	6	4,202	0	0	0	0	0	0	0	0	0	0
22-Aug-10	LFA-10-HD-448 - SOLD	2	4,182	0	0	0	0	0	0	0	0	0	0
22-Aug-10	LFA-10-HD-452 - KEPT	35	4,893	0	0	0	0	0	0	0	0	0	0
22-Aug-10	LFA-10-HD-452 - SOLD	3	4,535	0	0	0	0	0	0	0	0	0	0
29-Aug-10	LFA-10-HD-457 - KEPT	13	4,865	0	0	0	0	1	0	0	0	0	0
29-Aug-10	LFA-10-HD-457 - SOLD	0	5,272	0	0	0	0	0	0	0	0	0	0
29-Aug-10	LFA-10-HD-457_AMD - KEPT	7	3,139	0	0	0	0	0	0	0	0	0	0
29-Aug-10	LFA-10-HD-457_AMD - SOLD	0	2,415	0	0	0	0	0	0	0	0	0	0
5-Sep-10	LFA-10-HD-462 - KEPT	70	8,805	0	5	7	0	0	0	0	0	0	0
5-Sep-10	LFA-10-HD-462 - SOLD	16	5,867	0	0	1	0	2	0	0	0	0	2
12-Sep-10[2]	LFA-10-HD-466_AMD01_SOLD	0	40,496	0	0	0	0	0	0	0	0	0	0
12-Sep-10[2]	LFA-10-HD-466_AMD01_KEPT	5	20	0	3	1	0	0	0	0	0	0	0
Kept Total		**151**	**26,851**	**0**	**8**	**8**	**0**	**1**	**0**	**0**	**0**	**0**	**0**
Sold Total		**23**	**71,464**	**0**	**0**	**1**	**0**	**2**	**0**	**0**	**4**	**0**	**2**
Grand Total		**174**	**98,315**	**0**	**8**	**9**	**0**	**3**	**0**	**0**	**4**	**0**	**2**

[1]HD-457-Kept and Sold are for harvest on Saturday, 28 Aug 2010
HD-457_AMD - Kept and Sold are for harvest on Sunday, 29 Aug 2010

[2] Data for this fishery entered directly from landing slips; not entered into Atlegay database due to the nature of this fishery.

[3] All three Sturgeon were released.

Table 5.1. Tsawwassen FSC crab fishery openings by target species, date, and gear type, 2010.

Week Ending	Licence #	Fishery Type	Target Species[1]	Opening Date and Time	Closing Date and Time	Gear Type
4-Apr	LFA-10-HD400/Tsawwassen	FSC - Communal	Crab	1-Jan 0:01	31-Mar 23:59	dip net, hand picking, net, ring, trap
4-Jul	LFA-10-HD-404/Tsawwassen	FSC - Communal	Crab	1-Apr 0:01	30-Jun 23:59	dip net, hand picking, net, ring, trap
3-Oct	LFA-10-HD-415/Tsawwassen	FSC - Communal	Crab	1-Jul 0:01	30-Sep 23:59	dip net, hand picking, net, ring, trap
16-Jan	LFA-10-HD-474/Tsawwassen	FSC - Communal	Crab	1-Oct 0:01	14-Jan 0:01	dip net, hand picking, net, ring, trap

[1] Crab species include Dungeness, Graceful, and Red Rock crabs.

Table 5.2. Tsawwassen FSC Dungeness and Red Rock crab catch and effort by licence, 2010.

		Dungeness Crab		Red Rock Crab			
Licence	Date	Number Kept	Number Released	Number Kept	Number Released	Effort (hours)	Trap-days
LFA-10-HD-400	1 Jan - 31 March	2,915	1,096	2	18	4,419	8,672
LFA-10-HD-404	1 Apr - 30 Jun	10,033	4,901	0	5	7,886	14,332
LFA-10-HD-415	1 Jul - 30 Sep	5,383	3,901	0	0	5,592	10,645
LFA-10-HD-474	1 Oct 2010 - 14 Jan 2011	3,227	1,877	0	0	5,988	11,993
Totals		21,558	11,775	2	23	23,885	45,642

Table 5.3. Tsawwassen FSC Dungeness and Red Rock crab catch and effort by month, 2010.

		Dungeness Crab		Red Rock Crab			
Licence	Month	Number Kept	Number Released	Number Kept	Number Released	Effort (hours)	Trap-days
LFA-10-HD-400	January	753	298	2	10	1,344	2,800
	February	627	93	0	8	696	1,450
	March	1,535	705	0	0	2,379	4,422
LFA-10-HD-404	April	1,898	1,218	0	5	2,256	4,546
	May	3,825	2,475	0	0	2,448	4,880
	June	4,310	1,208	0	0	3,182	4,906
LFA-10-HD-415	July	1,668	1,603	0	0	1,824	3,235
	August	1,910	1,050	0	0	1,488	3,100
	September	1,805	1,248	0	0	2,280	4,310
LFA-10-HD-474	October	1,266	742	0	0	2,040	4,250
	November	1,165	655	0	0	2,388	4,638
	December	796	480	0	0	1,560	3,105
Totals		21,558	11,775	2	23	23,885	45,642

Table 6.1. Tsawwassen FSC Eulachon fishery openings by target species, date, and gear type, 2010.

Week Ending	Licence #	Fishery Type	Target Species[1]	Opening Date and Time	Closing Date and Time	Gear Type
25-Apr	LFA-10-HDcer-404	FSC - Cermonial	Eulachon	23-Apr 9:30	23-Apr 17:00	Drift net
2-May	LFA-10-HDcer-406	FSC - Cermonial	Eulachon	26-Apr 10:00	26-Apr 17:00	Drift net
2-May	LFA-10-HDcer-407	FSC - Cermonial	Eulachon	27-Apr 8:00	27-Apr 17:00	Drift net
2-May	LFA-10-HDcer-408	FSC - Cermonial	Eulachon	28-Apr 9:30	28-Apr 17:00	Drift net
2-May	LFA-10-HDcer-410	FSC - Cermonial	Eulachon	29-Apr 8:00	29-Apr 17:00	Drift net
2-May	LFA-10-HDcer-411	FSC - Cermonial	Eulachon	30-Apr 9:30	30-Apr 17:00	Drift net

Table 6.2. Summary of Tsawwassen FSC Catch for Ceremonial Eulachon fisheries, 2010.

Weekend Date	Licence #	Effort Hours	Tsawwassen Eulachon Catch (Kept) Pounds (lbs)	Released Sturgeon	Released Chubs
4/25/2010	LFA-10-HDcer-404	1.5	2	0	0
5/2/2010	LFA-10-HDcer-406	3.0	8.5	0	0
5/2/2010	LFA-10-HDcer-407	7.5	10	0	0
5/2/2010	LFA-10-HDcer-408	3.0	13.5	0	120
5/2/2010	LFA-10-HDcer-410		Too Windy		
5/2/2010	LFA-10-HDcer-411	4.5	6.5	1	0
Totals		20	41	1	120

[1] Licence-10-Hdcer-404 and Licence-10HDcer-408 eulachon caught were recorded as pieces and then converted to lbs.
Note allocation for ceremonial Eulachon fishery was 50 lbs.

FIGURES

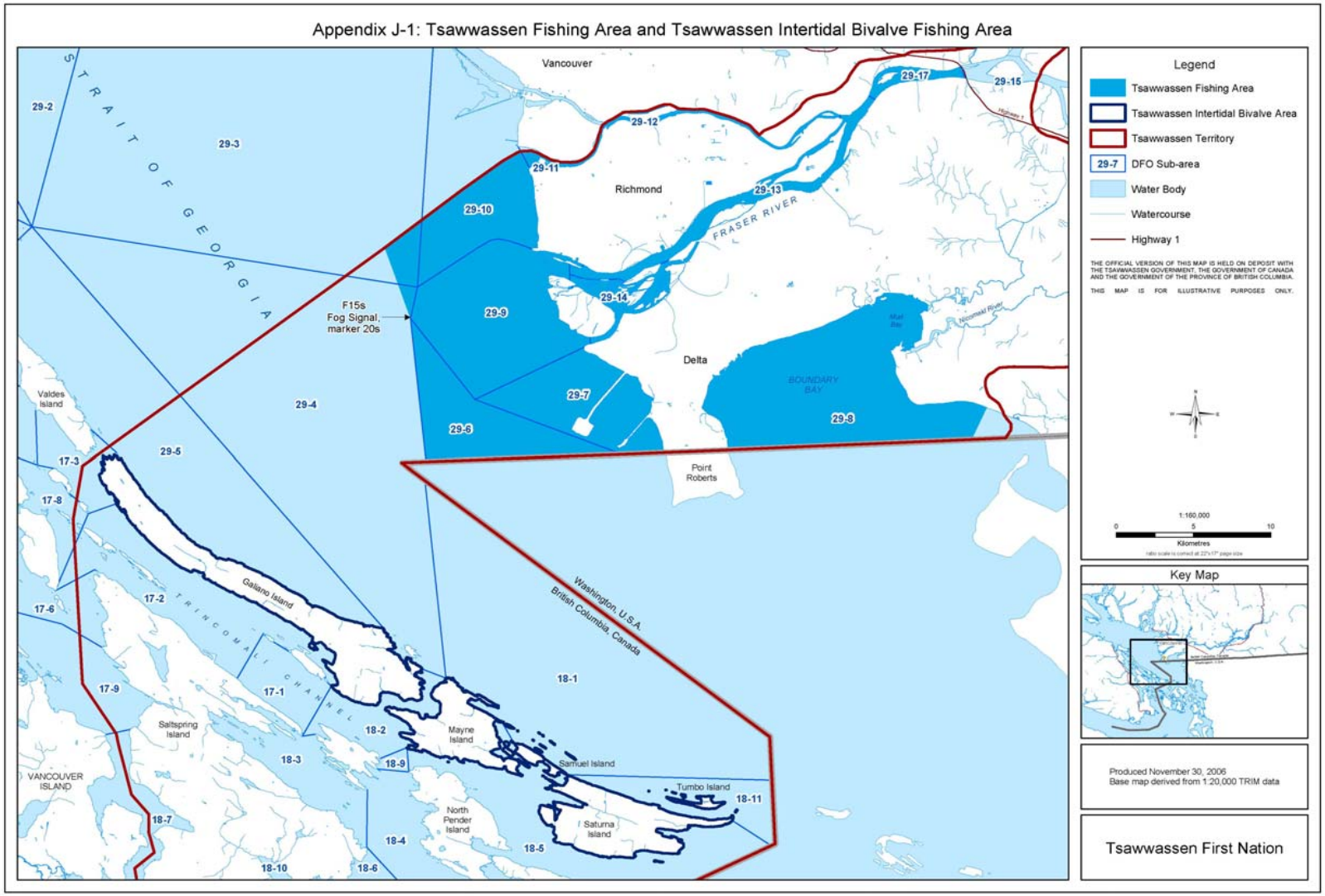

Figure 1.1. Tsawwassen Fishing Area and Tsawwassen Intertidal Bivalve Fishing Area.

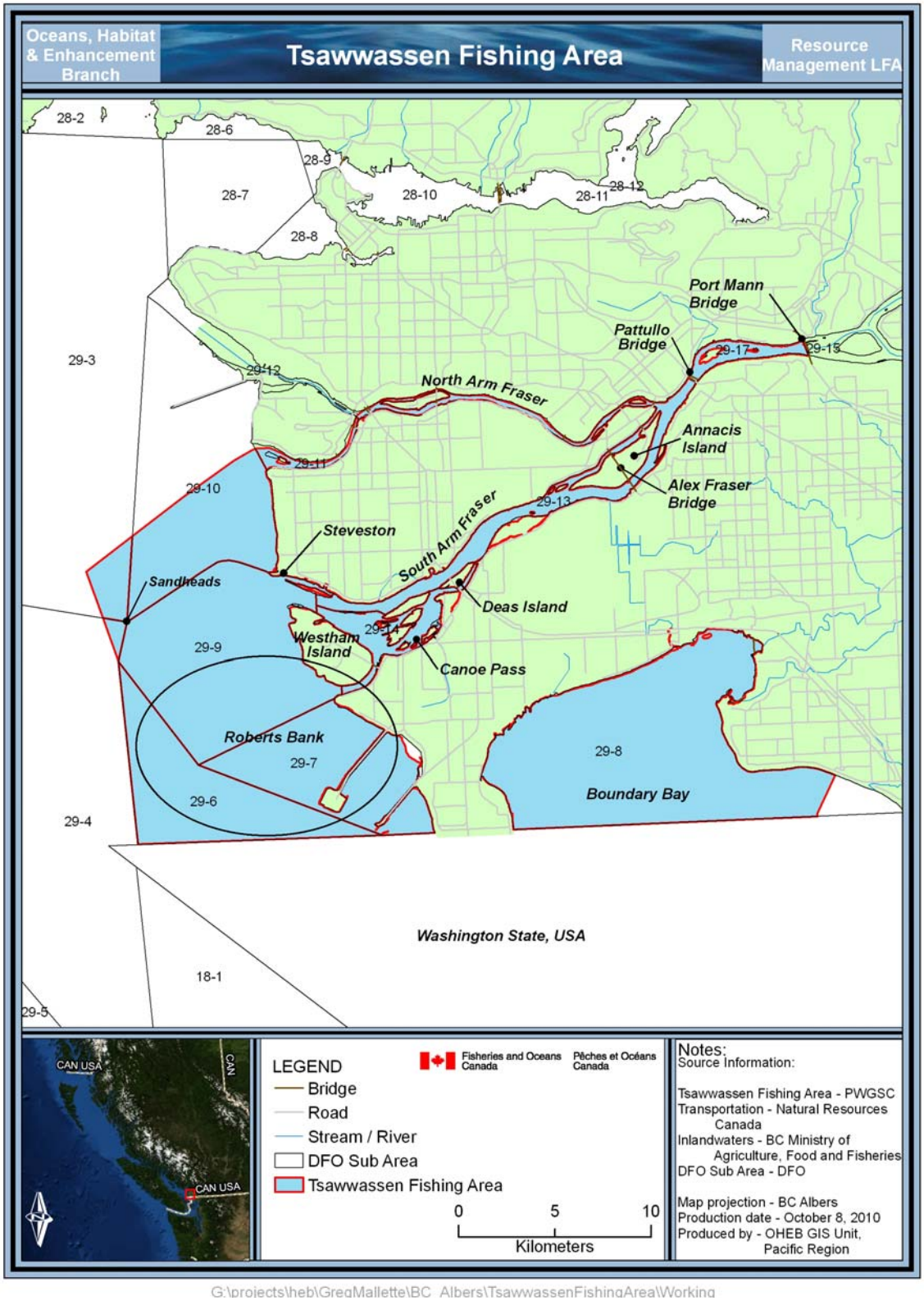

Figure 1.2. Tsawwassen Fishing Area (enlarged map with location names).

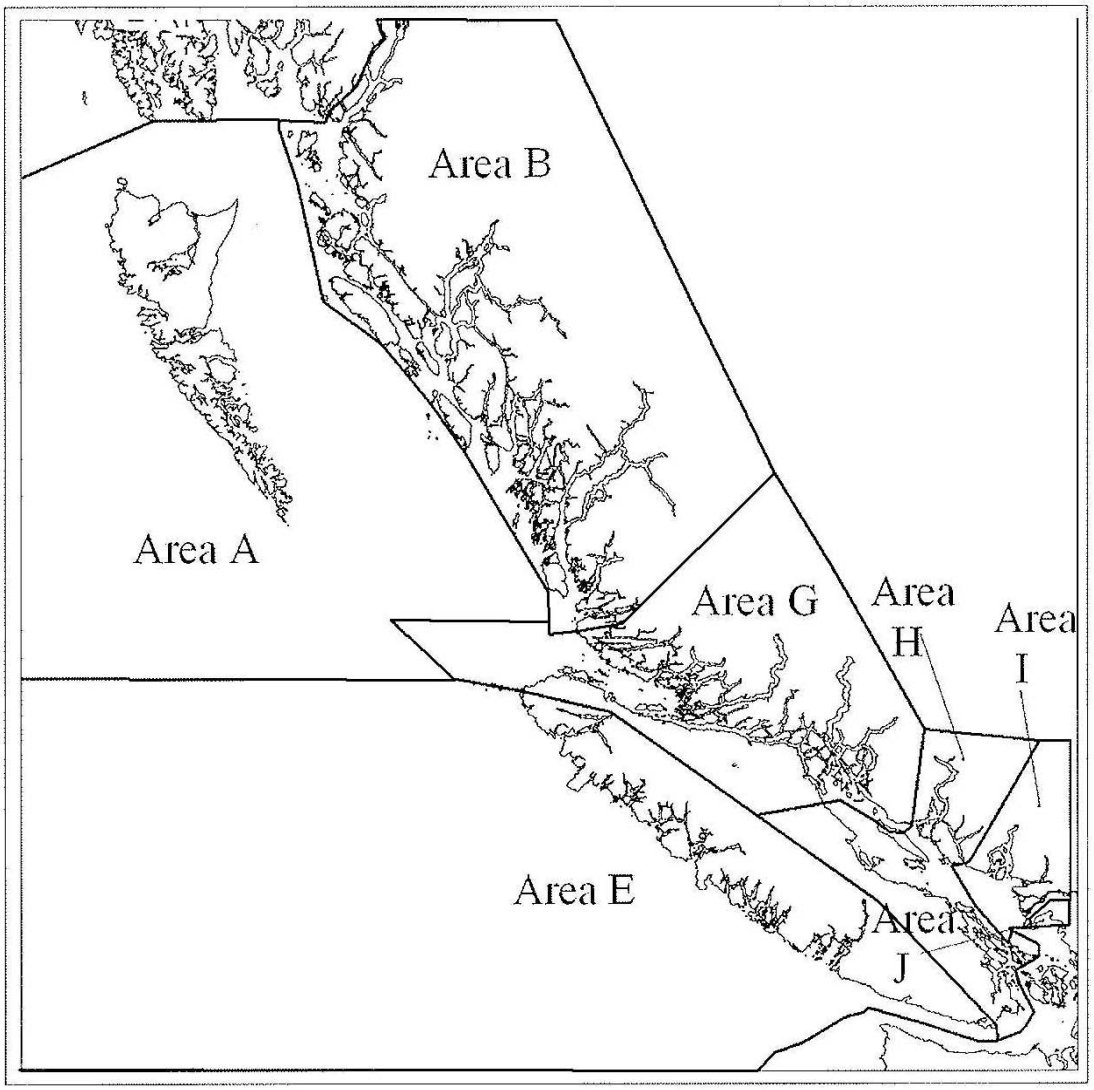

Figure 1.3. Map of Commercial Crab Management Areas.

APPENDICES

APPENDIX A

Tsawwassen Fishing Plan 2010

Tsawwassen First Nation
Fisheries Department

TSAWWASSEN ANNUAL FISHING PLAN 2010 – 21 June 2010

This fishing plan has been prepared by Tsawwassen First Nation (TFN) for submission to the Joint Fisheries Committee to assist in the planning for Tsawwassen fisheries to be conducted after the Effective Date (1 April 2010). A list of TFN's designated Fishermen and their designation numbers is provided to Fisheries and Oceans annually.

The following sections provide the proposed harvest plans and harvest expectations for each salmon species, based on pre-season run size forecasts, to ensure that the Department of Fisheries and Oceans (DFO) is aware of potential TFN's harvest levels and preferred harvest times, areas and methods for each species or species group.

General

Tsawwassen fisheries will be conducted in a manner consistent with the Tsawwassen First Nation Final Agreement, Tsawwassen First Nation Harvest Agreement, Harvest Documents, Tsawwassen Fisheries Operational Guidelines (FOG) document, Tsawwassen Law, Federal Laws and British Columbia Law. As indicated in the Tsawwassen Final Agreement, Tsawwassen fisheries will be conducted within the Tsawwassen Fishing Area or Tsawwassen Intertidal Bivalve Fishing Area (see 2010 Fishing Calendar), unless otherwise permitted in Harvest Documents or licences issued by DFO. The specific catch monitoring requirements and plans for each species are defined in the Tsawwassen FOG document. The following species specific plans summarize the conservation issues and provide details on Tsawwassen proposed fishing times, gear and size restrictions for each species.

Eulachon

Conservation: The IFMP for eulachon indicates that: "Due to conservation concerns, only very limited Fraser River ceremonial fisheries for eulachon will be considered for 2010".

TFN Fishery: A small ceremonial harvest of eulachon is proposed for 2010. Eulachon may be harvested for ceremonial purposes by specifically designated TFN fisher at the times and locations defined in a Tsawwassen Harvest Document.

131 North, Tsawwassen Drive, Delta, British Columbia V4M 4G2

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Timing: From April 18th through May 16th of 2010, TFN's proposed eulachon fishing should be permitted for time periods equivalent to that permitted for other First Nation's fishing in the Tsawwassen Fishing Area, and the weekly timing for these fisheries will be determined in consultations with DFO prior to April 18th.

Gear: Gillnet mesh size no less than 25 mm and no greater than 50 mm with a maximum net length of 275 m.

Size: There are currently no size restrictions for FSC harvests of eulachon.

Chinook

Conservation: Concerns have been identified regarding early timing Chinook stocks that migrate through the lower Fraser River in April through mid-June, early Stuart sockeye from mid-June through mid-July, and late-run sockeye stocks from mid-August through the end of September. The Nicola Tribal Association has identified some serious conservation concerns for "early timed" Chinook and requested that all Fraser First Nations "hold off on any fishing" for these stocks.

TFN Fishery: Chinook salmon may be harvested for Food, Social, and Ceremonial (FSC) purposes by any designated TFN fisher at the times and locations defined in a Tsawwassen Harvest Document. TFN fishers and the TFN Fisheries Department will endeavor to minimize the encounter rate and harvest for non-target species (i.e. species without directed fishing effort during the Chinook salmon fishing periods).

Timing: From April 1st through June 15th of 2010, TFN will not request any openings for harvesting Chinook, with the understanding that no fisheries that could capture some of the early timed Chinook stocks will be conducted during this period.

From June 16th through July 22nd of 2010, TFN's proposed Chinook fishing is a minimum of 24 hours per week or time equivalent to that permitted for other First Nation's fishing in the Tsawwassen Fishing Area; and these weekly fisheries will start on Friday or Saturday at a time that will be determined in weekly consultations with DFO on the Wednesday prior.

From July 22nd through August 31st of 2010, TFN's proposed Chinook fishing is 48 hours per week or time equivalent to that permitted for other First Nation's fishing in the Tsawwassen Fishing Area; and these weekly fisheries will start on Friday at a time that will be determined in weekly consultations with DFO on the Wednesday prior.

From March 1st 2011 through March 31st of 2011, TFN's proposed Chinook for ceremonial purposes is 12 hours per week or time equivalent to that permitted for other First Nation's fishing in the Tsawwassen Fishing Area; and these weekly fisheries will start on Friday or Saturday at a time that will be determined in weekly consultations with DFO on the Wednesday prior.

Gear: Beach seines or other approved selective fishing methods may be used during any fishing period, if identified on the harvest documents.

Drift Nets and Set Nets with a minimum mesh size of 12cm/4.8in, a maximum length of 50 fathoms for drift nets and 10 fathoms for set nets, and a maximum depth of 60 meshes may be used, except during period when larger mesh size is required to minimize the catch of Early Stuart or Late-run sockeye stocks (see below). Drift Nets and Set Nets with a minimum mesh size of 20cm/8.0in, a maximum length of 50 fathoms for drift nets and 10 fathoms for set nets, and a maximum depth of 60 meshes may be used during the period when Early Stuart sockeye are migrating through the TFN fishing areas (approximately 20 June - 22 July 2010).

Size: No Chinook with less than 30cm/12in in nose-fork length will be harvested, other than as by-catch that is unlikely to survive if released.

Expectation: The expected harvest level for 2009 is 625 Chinook.

Sockeye

Conservation: Conservation concerns are anticipated for several of the components of the 2010 sockeye return to the Fraser River: the Early Stuart stock, some Early Summer stocks, some the Late-run stocks (e.g. Cultus Lake stock). Pre-season estimates of run timing suggests that 80% of Early Stuart will pass through the TFN salmon fishing area before 22 July 2010. From 22 July 2010 through 18 August 2010, most of the sockeye migrating through the TFN salmon fishing area will be originating from the Early-summer run and the Summer-run stocks. After 18 August 2010, the Late-run stocks (including Cultus Lake) could begin to enter the Fraser River in significant numbers depending on the extent to which these fish delay in the lower Georgia Strait. The pre-season forecasts for the total return of Fraser sockeye in 2010 is 11.4 million (41,000 Early Stuart, 783,000 Early Summers, 2,600,000 Summers, and 8,000,000 Lates). These estimates represent the 50% probability level for each timing group (i.e. there is a 50% probability that the run could be lower than these estimates).

TFN Fishery: Sockeye salmon may be harvested for Food, Social, and Ceremonial (FSC) purposes by any designated TFN Fishermen at the times and locations defined in a Tsawwassen Harvest Document. Once the first in-season Canadian Commercial Total Allowable Catch has been determined for Fraser sockeye salmon, TFN will be issued licences by DFO for the Tsawwassen commercial allocation for Fraser River sockeye salmon, as defined in the TFN Harvest Agreement. DFO will determine the timing, location and other details related to TFN commercial harvest opportunities. TFN fishers and the TFN Fisheries Department will endeavor to minimize the encounter rate and harvest for non-target species (i.e. species without directed fishing effort during the sockeye salmon fishing periods).

Timing: From July 23rd through August 15th of 2010, the TFN's proposed sockeye fishing is 48 hours per week; and these weekly fisheries will start on Friday at a time that will be determined in weekly consultations with DFO on the Wednesday prior.

From August 16th through August 29th of 2010, the TFN's proposed sockeye fishing is 24 hours per week, if required to achieve the TFN sockeye allocation. These weekly fisheries will start on Friday or Saturday at a time that will be determined in weekly consultations with DFO on the Wednesday prior.

Gear: Beach Seines or other approved selective fishing methods may be used during any fishing period, if identified on the harvest documents.

Drift Nets and Set Nets with a minimum mesh size of 10cm/4in, a maximum length of 50 fathoms for drift nets and 10 fathoms for set nets, and a maximum depth of 60 meshes may be used.

Size: No sockeye less than 30cm/12in in nose-fork length will be harvested, other than by-catch that is unlikely to survive if released.

Expectation: Based on the pre-season (50% probability) run size forecast and assuming the Canadian Total Allowable Catch (CTAC) is equal or greater than 3 million, TFN's FSC allocation for 2010 would be 15,226 sockeye salmon. No estimate for the sockeye Canadian Commercial Total Allowable Catch (CCTAC) is available at this time; therefore, TFN's commercial sockeye allocation is yet to be determined.

Pink

Note: Even year returns of Fraser River pink salmon are typically too small to warrant any directed harvest of these stocks.

Conservation: N/A

TFN Fishery: N/A

Timing: N/A

Gear: N/A

Size: N/A

Expectation: N/A

Chum

Conservation: Conservation concerns related to Fraser steelhead and Interior Fraser coho could affect the timing and fishing methods permitted for commercial fisheries that target Fraser chum salmon stocks. TFN has not been informed of conservation concerns affecting the 2010 chum salmon return

to the Fraser River. The IFMP defines the decision guidelines for fisheries that target Fraser River chum salmon stocks.

TFN Fishery: Chum salmon may be harvested for Food, Social, and Ceremonial (FSC) purposes by any designated TFN Fishermen at the times and locations defined in a Tsawwassen Harvest Document. Once the first in-season Canadian Commercial Total Allowable Catch has been determined for Fraser chum salmon, TFN will be issued licences by DFO for the Tsawwassen commercial allocation for Fraser River chum salmon, as defined in the TFN Harvest Agreement. DFO will determine the timing, location and other details related to TFN commercial harvest opportunities. TFN Fishermen and the TFN Fisheries Department will endeavor to minimize the encounter rate and harvest for non-target species (e.g. steelhead, sturgeon, Interior Fraser coho).

Timing: From October 1st through November 30th of 2010, TFN chum fishing will be restricted to 48 hours per week; and these weekly fisheries will start on Friday or Saturday at a time that will be determined in weekly consultations with DFO on the Wednesday prior.

Gear: Beach seines or other approved selective fishing methods may be used during any fishing period, if identified in the harvest documents.

Drift Nets and Set Nets with a minimum mesh size of 15.8cm/6 ¼in, a maximum length of 50 fathoms for drift nets and 10 fathoms for set nets, and a maximum depth of 60 meshes may be used during the period of October 1st through November 31st of 2010.

Size: No chum less than 30cm/12in in nose-fork length will be harvested other than as by-catch that is unlikely to survive if released.

Expectation: TFN chum allocation for FSC fisheries would be 2,576 chum salmon assuming Terminal Surplus is greater than 100,000 in 2010. TFN's commercial allocation for chum salmon is 3.27% of the Terminal Commercial Catch (TCC) of Fraser River Chum. The TCC will be determined in-season. If the TFN commercial allocation of chum salmon is more than 3,000 fish, TFN expects that their fishers will be provided more than one day to harvest the commercial allocation as defined in the Tsawwassen Harvest Agreement. If TFN determines that more than one fishing day is required to harvest their commercial chum allocation, TFN proposes that Tsawwassen fishers be permitted to use modified gill net gear (small mesh tangle nets and /or weedlines) in 2010 to minimize the catch of steelhead and maximize the survival of any steelhead caught during TFN commercial chum fisheries. Prior to 15 July 2010, TFN will prepare and submit a plan for how their proposed modified gillnet commercial fishery would be conducted.

Coho

Conservation: Conservation concerns have been identified for Interior Fraser coho stocks (specifically hatchery stocks), however, returns to some lower Fraser coho stocks are likely to be sufficient to allow for directed or selective fisheries on these stocks and TFN will work with DFO to prepare a TFN fishing plan for a coho fishery to be initiated in late October 2010.

TFN Fishery: Coho salmon may be harvested for Food, Social, and Ceremonial (FSC) purposes by any designated TFN Fishermen at the times and locations defined in a Tsawwassen Harvest Document. TFN fishers and the TFN Fisheries Department will endeavor to minimize the encounter rate and harvest for non-target species (e.g. sturgeon and steelhead).

Timing: From October 1st through November 30th of 2010, TFN may harvest any marked coho captured in their chum fisheries.

Gear: Beach seines or other approved selective fishing methods may be used during any fishing period, if identified in the harvest documents.

Drift Nets and Set Nets with a minimum mesh size of 15.8cm/6 ¼in, a maximum length of 50 fathoms for drift nets and 10 fathoms for set nets, and a maximum depth of 60 meshes may be used during the period of October 1st through November 31st of 2010.

Size: No coho less than 30cm/12in in nose-fork length will be harvested other than as by-catch that is unlikely to survive if released.

Expectation: TFN's coho allocation for FSC fisheries will be 500 coho salmon in 2010. Coho will be harvested as incidental catch in TFN chum fisheries or caught using selective harvesting techniques to capture specific coho stocks.

Crab

Conservation: No conservation concerns have been identified for Dungeness crab harvesting in the Tsawwassen Fishing Area, however, the following conservation issues have been identified by DFO:

- All harvesters (Commercial, First Nation, and Recreational) should have the same minimum size limit for conservation of female crab. Commercial and recreational harvesters must release all females regardless of size. First Nation fishers are encouraged to release all female crabs caught in food, social and ceremonial fisheries in Pacific Region Management Areas 28 & 29.
- Crab harvesting during "soft shell" periods is not authorized for commercial harvesters for conservation reasons. Crabs with soft shells are susceptible to significant mortality during the fishing and handling process required for release of female and undersized crabs. At this time First Nation harvesting for domestic purposes is allowed during the commercial closed period for soft shell.

- It is recommended that TFN crab harvesters reduce fishing effort during the soft-shell period to reduce mortalities of undersized crabs. In areas 28 and 29, the soft-shell or moulting period is from April to mid-June (April to mid-July in Boundary Bay). The commercial crab season is closed from December to mid-June in areas 28 and 29 (December to mid-July in Boundary Bay).

TFN Fishery: Crab may be harvested for FSC purposes by any designated TFN Fishermen at the times and locations defined in a Tsawwassen Harvest Document. TFN fishers and the TFN Fisheries Department will endeavor to minimize the encounter rate and harvest for non-target species.

Timing: From April 1st 2010 through March 31st of 2011, 24 hours per day, everyday.

Location: As noted in the Tsawwassen FOG document, crab buoys are not permitted in the portion of the Tsawwassen Fishing Area defined as the "Navigational No Float Zone". TFN fishers are permitted to fish for crab in this zone but buoys for their crab traps must remain outside this zone.

Gear: Each TFN vessel may use up to a maximum of 50 traps to harvest crab for FSC purposes. The follow requirements apply to all traps used to catch crabs:

- Biodegradable escapement mechanisms are required on each trap in the form of either a rot cord, rot panel or rot panel alternative. These mechanisms are designed to minimize the effects of ghost fishing by traps.
- All crab traps must be fitted with at least one escape hole (at least 100 mm in diameter) that is not more than 100 mm below the top of the frame. The commercial fishery requires at least two escape holes, one of which must be at least 105 mm in diameter.

Size: The minimum size for Dungeness Crab is 16.5cm/6.5in and for Red Rock Crab is 11.5cm/4.5in, both measured in a straight line across the widest part of the carapace, or shell. All crab less than the minimum size limit shall be immediately released to the area of capture.

Intertidal Bivalves

Conservation: No conservation concerns have been identified for intertidal bivalves in the Tsawwassen Intertidal Bivalve Fishing Area.

TFN Fishery: Intertidal bivalves may be harvested for FSC purposes by any designated TFN Fishermen at the times and locations defined in a Tsawwassen Harvest Document.

Timing: To be determined. Possibly in the Fall of 2010.

Location: As described in the Tsawwassen FOG document:

- all clam harvesters are advised to check before they harvest that the area is not closed because of marine biotoxin or sanitary contamination.
- Where the Tsawwassen Intertidal Bivalve Fishing Area overlaps with a National Park Reserve or a National Marine Conservation Area, terms and conditions governing harvest will be developed following consultations with Parks Canada.

Gear: TFN members propose to use typical hand pick harvesting techniques (shoves, rakes and buckets) to harvest intertidal bivalves for FSC purposes.

Size: There are currently no size restrictions for FSC harvests of intertidal bivalves.

Shrimp and prawns

Conservation: No conservation concerns have been identified for shrimp and prawns in the Tsawwassen Fishing Area.

TFN Fishery: Shrimp and prawns may be harvested for FSC purposes by any designated TFN Fishermen at the times and locations defined in a Tsawwassen Harvest Document. TFN fishers and the TFN Fisheries Department will endeavor to minimize the encounter rate and harvest for non-target species.

Timing: From April 1st 2010 through March 31st of 2011, 24 hours per day, everyday.

Location: As noted in the Tsawwassen FOG document, crab buoys are not permitted in the portion of the Tsawwassen Fishing Area defined as the "Navigational No Float Zone". As indicated for crab, TFN fishers are permitted to fish for shrimp and prawns in this zone but buoys for their shrimp and prawn traps must remain outside this zone.

Gear: TFN members propose to use standard shrimp and prawn traps to harvest shrimp and prawns for FSC purposes.

Size: There are currently no size restrictions for FSC shrimp and prawn harvests.

Rockfish, lingcod, halibut, dogfish and sole

Conservation: Currently, the stock status data and conservation concerns for rockfish, and lingcod are not sufficient to close the FSC fishery for these species in the Tsawwassen Fishing Area. No conservation concerns have been identified for halibut and dogfish in the Tsawwassen Fishing Area.

TFN Fishery: Rockfish, lingcod, halibut, dogfish and sole may be harvested for FSC purposes by any designated TFN Fishermen at the times and locations defined in a Tsawwassen Harvest Document. TFN fishers and the TFN

Fisheries Department will endeavor to minimize the encounter rate and harvest for non-target species.

Timing: From April 1st 2010 through March 31st of 2011, 24 hours per day, everyday.

Gear: TFN members propose to use rod and reel gear to harvest rockfish, lingcod, halibut, dogfish and sole for FSC purposes.

Size: There are currently no size restrictions for FSC harvests of rockfish, lingcod, halibut, dogfish and sole.

Sturgeon and Steelhead

Conservation: Conservation concerns have been identified for Fraser River white sturgeon and steelhead in the Tsawwassen Fishing Area.

TFN Fishery: All live white sturgeon and steelhead caught in TFN fisheries will be immediately released. No TFN fisheries will target white sturgeon or steelhead in 2010. In the event that a white sturgeon or steelhead caught in a TFN fishery is dead or likely to die, that fish may be retained by a TFN fisher for FSC purposes, as per the generally agreed upon practice for other Fraser River First Nation FSC fisheries. No steelhead or sturgeon may be retained in TFN commercial fisheries.

Timing: NA

Gear: NA

Size: NA

Marine Aquatic Plants

Conservation: No conservation concerns have been identified for marine aquatic plants in the Tsawwassen Fishing Area.

TFN Fishery: Tsawwassen members may harvest marine aquatic plants for FSC purposes in the Tsawwassen Fishing Area.

Timing: From April 1st 2010 through March 31st of 2011, 24 hours per day, everyday.

Gear: TFN members propose to use hand picking methods to harvest marine aquatic plants for FSC purposes.

APPENDIX B

Examples of Harvest Documents

Fisheries and Oceans Canada | Pêches et Océans Canada

April 22, 2010 **LFA-10-HD-404/TSAWWASSEN**

HARVEST DOCUMENT FOR TSAWWASSEN FIRST NATION FOR EULACHON

Whereas a final agreement with Tsawwassen First Nation is now in effect;

And whereas the final agreement describes a fishing right and provides for the issuance of harvest documents for the fishing right.

And whereas, under the final agreement, a harvest document may be, among other things, a licence or other document, or amendment thereto, issued by the Minister under Federal Law or Provincial Law in respect of the fishing right;

Now therefore, this harvest document is issued under the authority of section 7 of the *Fisheries Act* and section 4 of the *Aboriginal Communal Fishing Licences Regulations*.

This harvest document is issued to Tsawwassen First Nation in accordance with the final agreement and confers, subject to the *Fisheries Act* and regulations thereunder, the authority to fish under the following conditions:

Definitions

"DFO" means the Department of Fisheries and Oceans.

"First Nation" means the Tsawwassen First Nation.

"Fishery" means fishing under the authority of this harvest document.

"Identification Number" in respect of a vessel means

(a) in the case of a registered commercial fishing vessel, the vessel registration number, and

(b) in the case of a vessel that is not a registered commercial fishing vessel, the number of the vessel identification decal issued by Tsawwassen First Nation.

"Observer" means an observer designated under section 39 of the *Fishery (General) Regulations*.

"Participant" means an individual carrying on fishing or any related activity, including transporting fish caught, under the authority of this harvest document.

1. Dates and Times

Subject to amendments to the conditions of this harvest document and subject to close times as may be varied by the Director General, Pacific Region, DFO in accordance with the *Fishery (General) Regulations*, fishing is authorized by this harvest document from:

09:30 hrs Friday, April 23 2010 to 17:00 hours Friday, April 23, 2010

2. Species and Quantity

The Fishery is limited to a harvest of:

50 pounds of Eulachon *(Thaleichthys)*

Subject to closures and other conditions of this licence, the authority to fish under this licence will expire on **Friday April 23, 2010** or earlier if DFO, after consultation with Tsawwassen First Nation has determined there is a conservation concern.

3. Use of Fish

Fish caught under this harvest document are for food, social and ceremonial purposes. Sale of fish caught under this harvest document is not permitted.

4. Gear

The following gear is permitted to be used:

Each Participant may fish using one drift net. Drift nets shall be no more than two hundred and seventy-five (275) metres in length and shall have a mesh size of no less than twenty-five (25) millimetres and no greater than fifty (50) millimetres.

5. Area

Fishing is permitted in the following area:

Those waters of the Fraser River westerly of the power lines immediately downstream of the Port Mann Bridge and the waters of the Strait of Georgia bounded by a line commencing at Point Grey thence northerly to the light on Point Atkinson, thence westerly to the light on Point Cowan on Bowen Island, thence following the southerly shoreline of Bowen Island to the light on Cape Roger Curtis, thence in a direct line southeasterly to the Roberts Bank LL# 309 (known as the Hooter Buoy) thence due west to the 40 metre contour line as shown on C.H.S. 3463, thence follow the 40 metre contour line to the International border. Portions of DFO Management Sub-areas 29-3, 29-4, 29-6, 29-7, 29-9, 29-10, 29-11, 29-12, 29-13, 29-14, 29-17.

6. Designation of Individuals and Vessels

Tsawwassen First Nation has designated the following individuals to fish under authority of this licence:

Wray WILLIAMS (TFN-003) and Robert GENGE (577-042) on a 20' Skiff

Where Tsawwassen First Nation designates an individual; a Tsawwassen fishing licence will be issued. The Tsawwassen fishing licence must be carried at all times while participating in the Fishery or while transporting fish harvested in the Fishery and must presented it to any DFO Fishery Officer, DFO Fishery Guardian or Aboriginal Fishery Officer upon request.

A vessel used in the Fishery must be identified by affixing a vessel identification decal issued by Tsawwassen First Nation. The decal must be affixed to the vessel so that the decal is legible and unobstructed when viewed from another vessel or from shore. Where the vessel is

not a registered commercial vessel, the decal must be uniquely numbered. Where the vessel is a registered commercial vessel, the decal must not be numbered.

Before the Fishery commences, Tsawwassen First Nation will provide to DFO a list of Tsawwassen First Nation members and vessels designated to fish under this Harvest Document and, in the case of a vessel, the vessel's Identity Number, and will immediately inform DFO of any changes to the list.

7. Monitoring and Harvest Reporting

Participants will notify the Tsawwassen fisheries department before they initiate fishing efforts and will report their catch and fishing effort information after each fishing trip. These notifications and reports may be reported directly to the Tsawwassen fishing department or by interview to an on-duty member of the Tsawwassen fisheries department catch monitoring crew. The Tsawwassen fisheries department will record catch and effort information on the "TFN Other Fishery Interview Data Form".

The designated fisher will arrange for an Aboriginal Fishery Officer to be present at all times during the Fishery.

Within 72 hours of the end of each month, Tsawwassen First Nation will provide DFO with a list of all Participants and vessels that participated in the Fishery and a preliminary estimate of the total catch by species for that month.

Each Participant will maintain a daily fishing log for fishing efforts using the "TFN Other Fisheries Log Data Form".

7.1 Validation

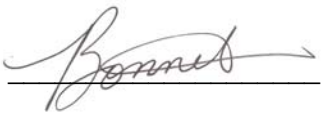
Tsawwassen First Nation will conduct on-water catch monitoring surveys or Tsawwassen First Nation's fisheries officer patrols at random intervals during the Fishery and will record Fishery participants and observe catches for comparison with reported list of Fishery participants and the catch reported in daily logs. Tsawwassen First Nation will conduct interviews, after completed fishing trips of fishers to obtain data that to validate the information recorded in the harvest logs.

7.2 Reporting

Within 72 hours of the end of each month, Tsawwassen First Nation will provide to the DFO Management Biologist (telephone: 604 666-6608, fax:604-666-7112) a summary table showing the number of Participants interviewed after a fishing trip, the catch and effort observed and the catch and effort reported directly to Tsawwassen fisheries department and recorded in the daily fishing logs.

8. Other Provisions

Pursuant to subsection 22(6) of the *Fishery (General) Regulations*, compliance with the *Fisheries Act* and the regulations made under the *Act* is a condition of this harvest document.

Name/Title: Terri Bonnet/ Resource Manager LFA Signature: 

Department of Fisheries and Oceans

Date: _____April 22, 2010____

Fisheries and Oceans Canada | Pêches et Océans Canada

March 29, 2010 LFA-10-HD-404/TSAWWASSEN

HARVEST DOCUMENT FOR TSAWWASSEN FIRST NATION FOR CRAB

Whereas a final agreement with Tsawwassen First Nation is now in effect;

And whereas the final agreement describes a fishing right and provides for the issuance of harvest documents for the fishing right.

And whereas, under the final agreement, a harvest document may be, among other things, a licence or other document, or amendment thereto, issued by the Minister under Federal Law or Provincial Law in respect of the fishing right;

Now therefore, this harvest document is issued under the authority of section 7 of the *Fisheries Act* and section 4 of the *Aboriginal Communal Fishing Licences Regulations*.

This harvest document is issued to Tsawwassen First Nation in accordance with the final agreement and confers, subject to the *Fisheries Act* and regulations thereunder, the authority to fish under the following conditions:

Definitions

"DFO" means the Department of Fisheries and Oceans.

"First Nation" means the Tsawwassen First Nation.

"Fishery" means fishing under the authority of this harvest document.

"Identification Number" in respect of a vessel means

(a) in the case of a registered commercial fishing vessel, the vessel registration number, and

(b) in the case of a vessel that is not a registered commercial fishing vessel, the number of the vessel identification decal issued by Tsawwassen First Nation.

"Observer" means an observer designated under section 39 of the *Fishery (General) Regulations*.

"Participant" means an individual carrying on fishing or any related activity, including transporting fish caught, under the authority of this harvest document.

1. Dates and Times

Subject to amendments to the conditions of this harvest document and subject to close times as may be varied by the Director General, Pacific Region, DFO in accordance with the *Fishery (General) Regulations*, fishing is authorized by this harvest document from:

00:01 hrs Thursday, April 01, 2010 to 23:59 hours Wednesday, June 30, 2010

2. Species and Quantity

The Fishery is limited to a harvest of: Dungeness Crab, Graceful Crab and Red Rock Crab.

The minimum size for Dungeness Crab is 165 mm and for Red Rock Crab is 115 mm, both measured in a straight line across the widest part of the carapace, or shell. All crab less than the minimum size limit shall be immediately released to the area of capture.

Fishers are encourgaged to immediately release all female crabs to the area of capture in a manner that causes least harm.

Subject to closures and other conditions of this licence, the authority to fish under this licence will expire on **Wednesday, June 30, 2010** or earlier if DFO, after consultation with Tsawwassen First Nation has determined there is a conservation concern.

3. Use of Fish

Fish caught under this harvest document are for food, social and ceremonial purposes. Sale of fish caught under this harvest document is not permitted.

4. Gear

The following gear is permitted to be used:

Hand-picking, Dip Net, Ring Net, and Traps, on condition that:

(i) Traps set individually each have attached a floating buoy legibly marked with the name of the First Nation and Participant and with the Identification Number for the vessel used; and multiple traps set in a string have a floating buoy legibly marked name of the First Nation and Participant and with the Identification Number for the vessel used attached to both ends of each string.

(ii) All buoy lines must be of a non-floating material so that the lines remain below the surface of the water while fishing, in order to minimize navigational hazards.

(iii) All crab traps must be fitted with at least one escape hole (ring) that is at least 100 mm in diameter and that is not more than 100 mm below the top of the frame.

(iv) All traps have a section in the top or side that has been secured by a length of untreated cotton twine no greater than No. 120. On deterioration this must produce a rectangular opening with a minimum size of 7 cm x 20 cm, or a square opening with a minimum size of 11 cm x 11 cm.

(v) A maximum of 50 traps may be fished per vessel.

All submerged fishing gear must have a float of sufficient size such that it will not submerge with tidal or current change.

Floating buoys must remain at all times outside of the Navigational No Float Zone shown on the map in Schedule A to this harvest document. Any floating buoys placed in the Navigational No Float Zone are subject to removal under authority of the Navigable Waters Protection Act.

Crab fishers are reminded to consider the impact on navigation when placing gear outside the Navigational No Float Zone.

5. Area

Those waters of the Fraser River westerly of the power lines immediately downstream of the Port Mann Bridge and the waters of the Strait of Georgia bounded by a line commencing at Point Grey thence northerly to the light on Point Atkinson, thence westerly to the light on Point Cowan on Bowen Island, thence following the southerly shoreline of Bowen Island to the light on Cape Roger Curtis, thence in a direct line southeasterly to the Roberts Bank LL# 309 (known as the Hooter Buoy) thence due west to the 40 metre contour line as shown on C.H.S. 3463, thence follow the 40 metre contour line to the International border. Portions of DFO Management Sub-areas 29-3, 29-4, 29-6, 29-7, 29-9, 29-10, 29-11, 29-12, 29-13, 29-14, 29-17.

6. Designation of Individuals and Vessels

Tsawwassen First Nation may not designate individuals who are not Tsawwassen Members to harvest crab.

Where Tsawwassen First Nation designates an individual; a Tsawwassen fishing licence will be issued. The Tsawwassen fishing licence must be carried at all times while participating in the Fishery or while transporting fish harvested in the Fishery and must presented it to any DFO Fishery Officer, DFO Fishery Guardian or Aboriginal Fishery Officer upon request.

A vessel used in the Fishery must be identified by affixing a vessel identification decal issued by Tsawwassen First Nation. The decal must be affixed to the vessel so that the decal is legible and unobstructed when viewed from another vessel or from shore. Where the vessel is not a registered commercial vessel, the decal must be uniquely numbered. Where the vessel is a registered commercial vessel, the decal must not be numbered.

Before the Fishery commences, Tsawwassen First Nation will provide to DFO a list of Tsawwassen First Nation members and vessels designated to fish under this Harvest Document and, in the case of a vessel, the vessel's Identity Number, and will immediately inform DFO of any changes to the list.

7. Monitoring and Harvest Reporting

Participants will notify the Tsawwassen fisheries department before they initiate fishing efforts and will report their catch and fishing effort information after each fishing trip. These notifications and reports may be reported directly to the Tsawwassen fishing department or by interview to an on-duty member of the Tsawwassen fisheries department catch monitoring crew. The Tsawwassen fisheries department will record catch and effort information on the "TFN Crab Fishery Interview Data Form".

Within 72 hours of the end of each month, Tsawwassen First Nation will provide DFO with a list of all Participants and vessels that participated in the Fishery and a preliminary estimate of the total catch by species for that month.

Each Participant will maintain a daily fishing log for crab fishing efforts using the "TFN Crab Fisheries Log Data Form".

7.1 Validation

Tsawwassen First Nation will conduct on-water catch monitoring surveys or Tsawwassen First Nation's fisheries officer patrols at random intervals during the Fishery and will record Fishery participants and observe catches for comparison with reported list of Fishery participants and the catch reported in daily logs. Tsawwassen First Nation will conduct interviewers, after completed fishing trips of fishers to obtain data that to validate the information recorded in the harvest logs.

7.2 Reporting

Within 72 hours of the end of each month, Tsawwassen First Nation will provide to the DFO Management Biologist (telephone: 604 666-6608, fax:604-666-7112) a summary table showing the number of Participants interviewed after a fishing trip, the catch and effort observed and the catch and effort reported directly to Tsawwassen fisheries department and recorded in the daily fishing logs.

8. Other Provisions

Pursuant to subsection 22(6) of the *Fishery (General) Regulations*, compliance with the *Fisheries Act* and the regulations made under the *Act* is a condition of this harvest document.

8.1 Soft-Shell Periods

Fishers are reminded that there is increased mortality during the crab soft-shell periods and are encouraged to carry out their fishing activity, as much as possible, during other time periods. The crab soft-shell periods are April to mid-June in the Fraser River estuary and May to mid-July in Boundary Bay.

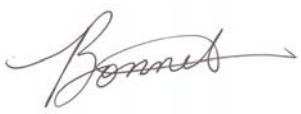
8.2 Commercial Fishing Vessels

Any commercial fishing vessels participating in the Tsawwassen FSC crab fishery must be available for inspection prior to engaging in the Area I commercial fishery.

No fish harvested under the authority of this licence may be on board a vessel engaged in commercial fishing operations.

Commercial and FSC crab fishing trips must be conducted separately

Name/Title: Terri Bonnet/ Resource Manager LFA

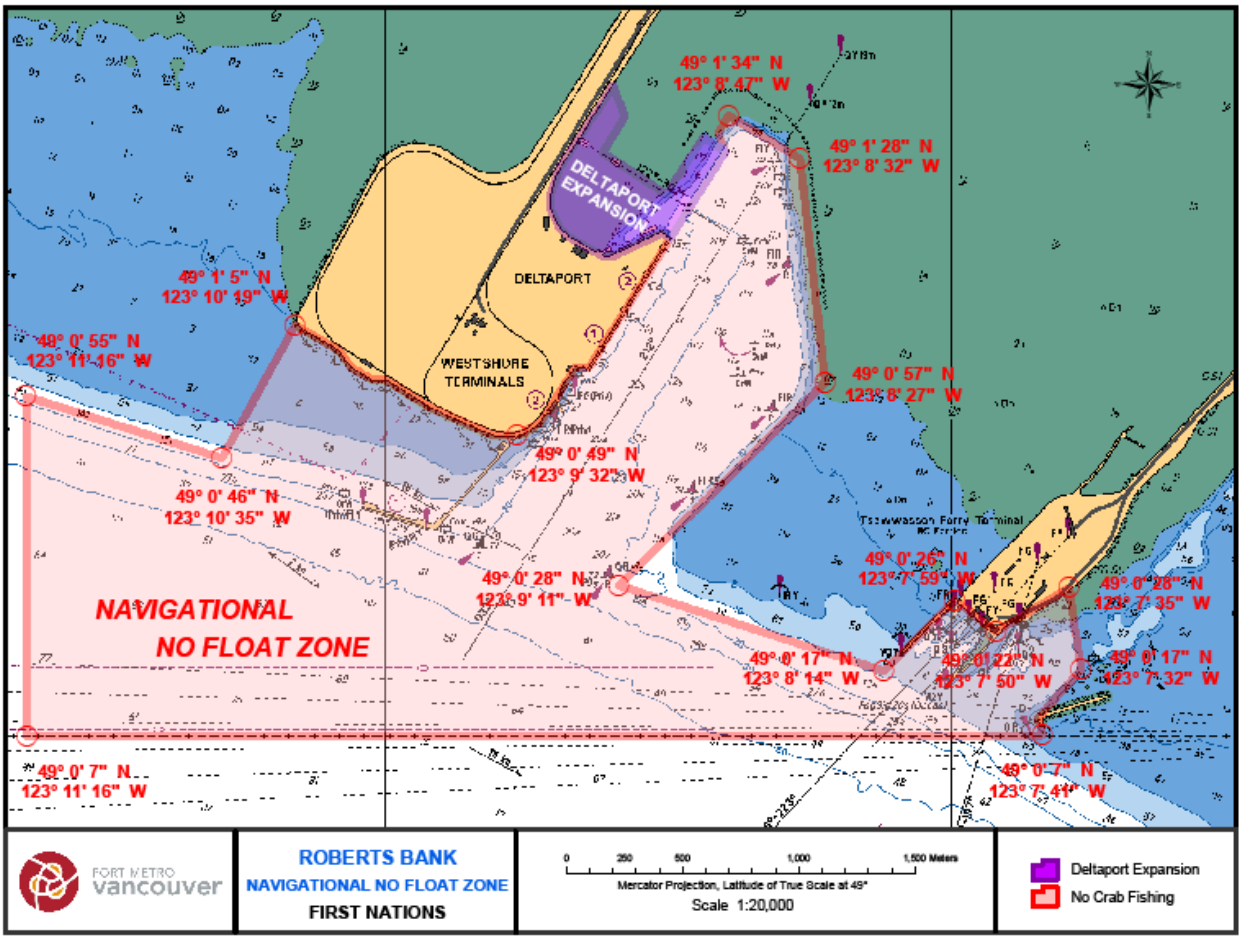
Signature: __  _____

Department of Fisheries and Oceans

Date: ___March 29, 2010_

Schedule A

Navigational No Float Zone



Map created on October 10, 2008.

Fisheries and Oceans Canada | Pêches et Océans Canada

April 28, 2010 LFA-10-HD-405/TSAWWASSEN

HARVEST DOCUMENT FOR TSAWWASSEN FIRST NATION FOR PRAWN AND SHRIMP BY TRAP

Whereas a final agreement with Tsawwassen First Nation is now in effect;

And whereas the final agreement describes a fishing right and provides for the issuance of harvest documents for the fishing right.

And whereas, under the final agreement, a harvest document may be, among other things, a licence or other document, or amendment thereto, issued by the Minister under Federal Law or Provincial Law in respect of the fishing right;

Now therefore, this harvest document is issued under the authority of section 7 of the *Fisheries Act* and section 4 of the *Aboriginal Communal Fishing Licences Regulations*.

This harvest document is issued to Tsawwassen First Nation in accordance with the final agreement and confers, subject to the *Fisheries Act* and regulations thereunder, the authority to fish under the following conditions:

Definitions

"DFO" means the Department of Fisheries and Oceans.

"First Nation" means the Tsawwassen First Nation.

"Fishery" means fishing under the authority of this harvest document.

"Identification Number" in respect of a vessel means

(a) in the case of a registered commercial fishing vessel, the vessel registration number, and

(b) in the case of a vessel that is not a registered commercial fishing vessel, the number of the vessel identification decal issued by Tsawwassen First Nation.

"Observer" means an observer designated under section 39 of the *Fishery (General) Regulations*.

"Participant" means an individual carrying on fishing or any related activity, including transporting fish caught, under the authority of this harvest document.

"Shrimp" means those species of shellfish listed in Schedule VII item 13 of the Pacific Fishery Regulations, 1993;

1. Dates and Times

Subject to amendments to the conditions of this harvest document and subject to close times as may be varied by the Director General, Pacific Region, DFO in accordance with the *Fishery (General) Regulations*, fishing is authorized by this harvest document from:

00:01 hrs Saturday, May 01, 2010 to 23:59 hours Monday, May 31, 2010

2. Species and Quantity

The Fishery is limited to a harvest of: PRAWN and SHRIMP

Subject to closures and other conditions of this licence, the authority to fish under this licence will expire on **May 31 2010** or earlier if DFO, after consultation with Tsawwassen First Nation has determined there is a conservation concern.

3. Use of Fish

Fish caught under this harvest document are for food, social and ceremonial purposes. Sale of fish caught under this harvest document is not permitted.

4. Gear

The following gear is permitted to be used:

Traps, on condition that:

(i) Traps set individually each have attached a floating buoy legibly marked with the name of the First Nation and Participant; and if multiple traps are set in a string, then a floating buoy legibly marked with the name of the First Nation and Participant be attached to both ends of each string.

(ii) All buoy lines must be of a non-floating material so that the lines remain below the surface of the water while fishing, in order to minimize navigational hazards.

(iii) A maximum of 50 traps may be fished per vessel.

All submerged fishing gear must have a float of sufficient size such that it will not submerge with tidal or current change.

Floating buoys must remain at all times outside of the Navigational No Float Zone shown on the map in Schedule A to this harvest document. Any floating buoys placed in the Navigational No Float Zone are subject to removal under authority of the Navigable Waters Protection Act.

Fishers are reminded to consider the impact on navigation when placing gear outside the Navigational No Float Zone.

5. Area

The waters of the Strait of Georgia bounded by a line commencing at Point Grey thence northerly to the light on Point Atkinson, thence westerly to the light on Point Cowan on Bowen Island, thence following the southerly shoreline of Bowen Island to the light on Cape Roger Curtis, thence in a direct line southeasterly to the Roberts Bank LL# 309 (known as the Hooter Buoy) thence due west to the 40 metre contour line as shown on C.H.S. 3463, thence follow the 40 metre contour line to the

International border. Portions of DFO Management Sub-areas 29-3, 29-4, 29-6, 29-7, 29-9, 29-10, 29-11, 29-12.

6. Designation of Individuals and Vessels

Tsawwassen First Nation may not designate individuals who are not Tsawwassen Members to harvest Prawn and Shrimp.

Where Tsawwassen First Nation designates an individual; a Tsawwassen fishing licence will be issued. The Tsawwassen fishing licence must be carried at all times while participating in the Fishery or while transporting fish harvested in the Fishery and must presented it to any DFO Fishery Officer, DFO Fishery Guardian or Aboriginal Fishery Officer upon request.

A vessel used in the Fishery must be identified by affixing a vessel identification decal issued by Tsawwassen First Nation. The decal must be affixed to the vessel so that the decal is legible and unobstructed when viewed from another vessel or from shore. Where the vessel is not a registered commercial vessel, the decal must be uniquely numbered. Where the vessel is a registered commercial vessel, the decal must not be numbered.

Before the Fishery commences, Tsawwassen First Nation will provide to DFO a list of Tsawwassen First Nation members and vessels designated to fish under this Harvest Document and, in the case of a vessel, the vessel's Identity Number, and will immediately inform DFO of any changes to the list.

7. Monitoring and Harvest Reporting

Participants will notify the Tsawwassen fisheries department before they initiate fishing efforts and will report their catch and fishing effort information after each fishing trip. These notifications and reports may be reported directly to the Tsawwassen fishing department or by interview to an on-duty member of the Tsawwassen fisheries department catch monitoring crew. The Tsawwassen fisheries department will record catch and effort information on the "TFN Other Fishery Interview Data Form".

Within 72 hours of the end of each month, Tsawwassen First Nation will provide DFO with a list of all Participants and vessels that participated in the Fishery and a preliminary estimate of the total catch by species for that month.

Each Participant will maintain a daily fishing log for Prawn and Shrimp fishing efforts using the "TFN Other Fisheries Log Data Form".

7.1 Validation

Tsawwassen First Nation will conduct on-water catch monitoring surveys or Tsawwassen First Nation's fisheries officer patrols at random intervals during the Fishery and will record Fishery participants and observe catches for comparison with reported list of Fishery participants and the catch reported in daily logs. Tsawwassen First Nation will conduct interviewers, after completed fishing trips of fishers to obtain data that to validate the information recorded in the harvest logs.

7.2 Reporting

Within 72 hours of the end of each month, Tsawwassen First Nation will provide to the DFO Management Biologist (telephone: 604 666-6608, fax:604-666-7112) a summary table showing the number of Participants interviewed after a fishing trip, the catch and effort observed and the catch and effort reported directly to Tsawwassen fisheries department and recorded in the daily fishing logs.

8. Other Provisions

Pursuant to subsection 22(6) of the *Fishery (General) Regulations*, compliance with the *Fisheries Act* and the regulations made under the *Act* is a condition of this harvest document.

8.1 Commercial Fishing Vessels

Any commercial fishing vessels participating in the Tsawwassen FSC Prawn and Shrimp fishery must be available for inspection prior to engaging in the Prawn and Shrimp by Trap fishery.

No fish harvested under the authority of this licence may be on board a vessel engaged in commercial fishing operations.

Commercial and FSC Prawn and Shrimp fishing trips must be conducted separately

Name/Title: Terri Bonnet/ Resource Manager LFA

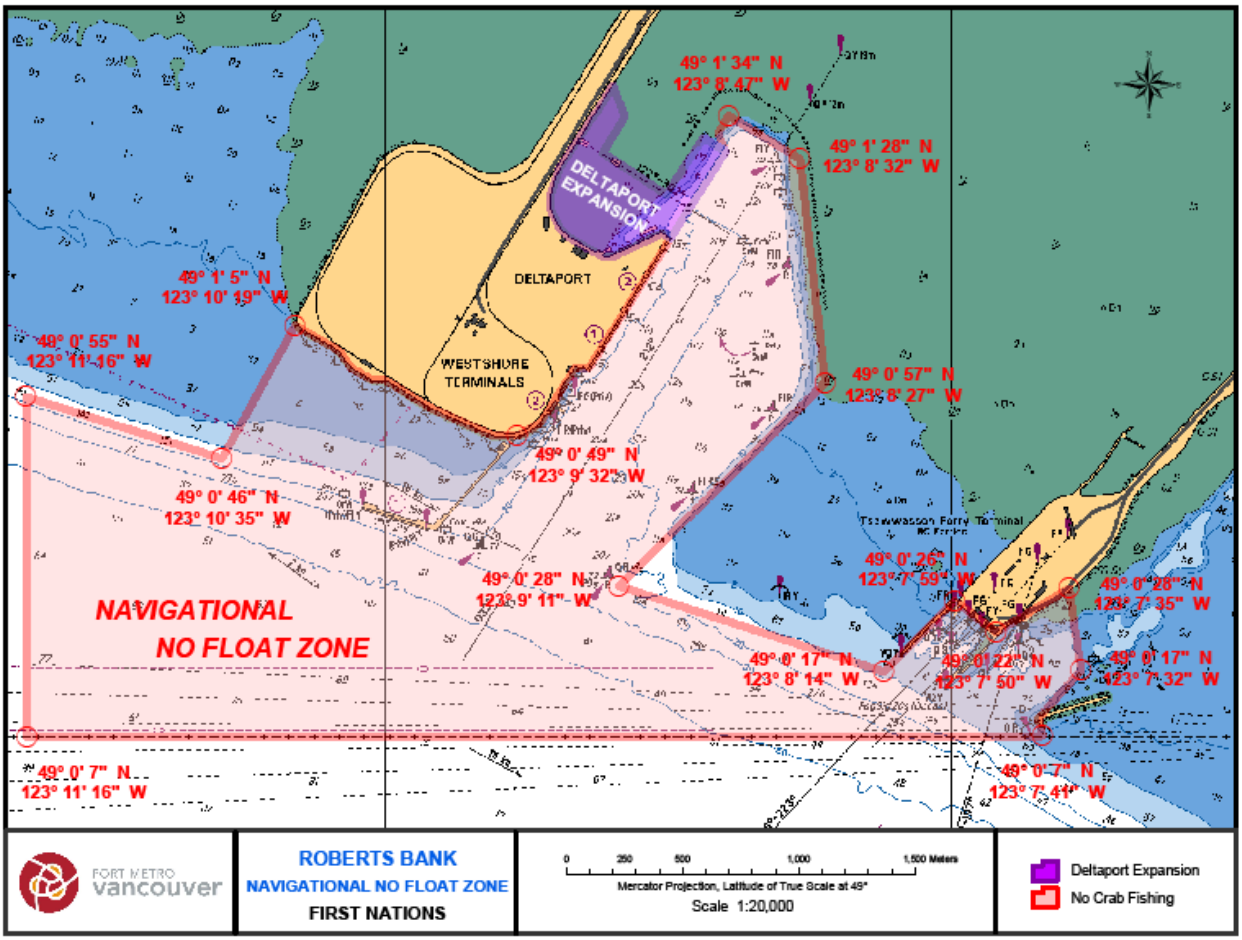
Signature: ____ _____

Department of Fisheries and Oceans

Date: ___April 28, 2010_____

Schedule A

Navigational No Float Zone



Map created on October 10, 2008.

Fisheries and Oceans Canada | Pêches et Océans Canada

August 12, 2010 LFA-10-HD-442/TSAWWASSEN

HARVEST DOCUMENT FOR TSAWWASSEN FIRST NATION FOR SALMON

Whereas a final agreement with Tsawwassen First Nation is now in effect;

And whereas the final agreement describes a fishing right and provides for the issuance of harvest documents for the fishing right.

And whereas, under the final agreement, a harvest document may be, among other things, a licence or other document, or amendment thereto, issued by the Minister under Federal Law or Provincial Law in respect of the fishing right;

Now therefore, this harvest document is issued under the authority of section 7 of the *Fisheries Act* and section 4 of the *Aboriginal Communal Fishing Licences Regulations*.

This harvest document is issued to Tsawwassen First Nation in accordance with the final agreement and confers, subject to the *Fisheries Act* and regulations thereunder, the authority to fish under the following conditions:

Definitions

"Drift Net" means a gillnet free floating in the water, not attached in any manner to the shore, operated from a boat.

"DFO" means the Department of Fisheries and Oceans.

"Fishery" means fishing under the authority of this harvest document.

"Identification Number" in respect of a vessel means

(a) in the case of a registered commercial fishing vessel, the vessel registration number, and

(b) in the case of a vessel that is not a registered commercial fishing vessel, the number of the vessel identification decal issued by Tsawwassen First Nation.

"Observer" means an observer designated under section 39 of the *Fishery (General) Regulations*.

"Participant" means an individual carrying on fishing or any related activity, including transporting fish caught under the authority of this harvest document.

'Set Net' means a gillnet that is either tied to shore at one end and anchored in the river at the other end, or anchored in the river at both ends, or tied to the shore at one end and tied to a net pole a the other end.

"TFN" means Tsawwassen First Nation

"TFD" means Tsawwassen Fishing Department located at 1926 Tsawwassen Drive, V4M 4G2 604-943-2112

1. Dates and Times

Subject to amendments to the conditions of this harvest document and subject to close times as may be varied by the Director General, Pacific Region, DFO in accordance with the *Fishery (General) Regulations, f*ishing is authorized by this harvest document for the following fishing periods:

10:00 hours, Saturday, August 14, 2010 to 14:00 hours, Saturday, August 14, 2010

2. Species and Quantity

The Fishery is limited to a harvest of: **Sockeye and Chinook salmon.**

All efforts and attempts shall be made to return all non-target species including but not limited to viable steelhead, Dolly Varden, Cutthroat and Bull trout and sturgeon to the water alive.

Subject to closures **Saturday August 14, 2010** or earlier if DFO, after consultation with Tsawwassen First Nation has determined there is a conservation concern.

3. Use of Fish

Fish caught under this harvest document are for food, social and ceremonial purposes. Sale of fish caught under this harvest document is not permitted.

4. Gear

The following gear is permitted to be used:

Drift Nets on condition that:

i. Nets do not exceed a maximum of 50 fathoms or 300 feet in length and a maximum depth of 60 meshes with a minimum mesh size of 4 inches.

ii. Each Participant fishes only one net,

iii. Only one net is fished from any vessel,

iv. Each net is attended at all times by the Participant who is fishing the net.

v. No vessel fishing under the authority of this harvest document has on board, in a hung condition, any net that does not meet the conditions in (i) above, and

vi. Spare nets on board a vessel actively fishing are kept in a stowed condition.

Set Nets on condition that:

(i) Nets do not exceed a maximum of 10 fathoms or 60 feet and a maximum depth of 60 meshes with a minimum mesh size of 4 inches.

(ii) All Set Nets are identified by a floating buoy prominently displaying the Participant's designation number, and the Participant's designation number is the only number displayed on the buoy.

(iii) All Set Nets fished from poles have buoys attached to the end of the net farthest from the beach by means of a tag line of sufficient length to allow the buoys to be on the surface of the water and clearly visible for inspection at all times.

5. Area

Those waters of the main arm of the Fraser River westerly of the power lines immediately downstream of the Port Mann Bridge, the waters of the North Arm of the Fraser River from the junction of the main arm downstream to the Arthur Laing Bridge, the waters of the Middle arm of the Fraser River, the waters of the Strait of Georgia bounded by a line commencing at 49° 11' 3.1524" N latitude and 123° 12' 26.08868" W longitude then to 49° 7' 48.216" N latitude and 123° 19' 50.4228" W longitude then to 49° 5' 15.6948" N latitude and 123° 18' 36.8958" W longitude then to 49° 0' 8.0028" N latitude and 123° 18' 5.1156" W longitude then to 49° 0' 7.5564" N latitude and 123° 5' 27.528" W longitude and the waters of Boundary Bay bounded by a line commencing at 49° 0' 7.5198" N latitude and 123° 2' 6.5898" W longitude then to 49° 0' 7.5414" N latitude and 122° 49' 10.8552" W longitude then to 49° 1' 15.2256" N latitude and 122° 48' 20.7858" W longitude. Portions of DFO Management Sub-areas 29-6, 29-7, 29-8, 29-9, 29-10, 29-11, 29-12, 29-13, 29-14, 29-17.

6. Designation of Individuals and Vessels

Where Tsawwassen First Nation designates an individual; a Tsawwassen fishing licence will be issued. An individual fishing under this harvest document must carry their Tsawwassen fishing licence at all times while participating in the Fishery or while transporting fish harvested in the Fishery and must presented it to any DFO Fishery Officer, DFO Fishery Guardian or Aboriginal Fishery Officer upon request.

A vessel used in the Fishery must be identified by affixing a vessel identification decal issued by Tsawwassen First Nation. The decal must be affixed to the vessel so that the decal is legible and unobstructed when viewed from another vessel or from shore. Where the vessel is not a registered commercal vessel, the decal must be uniquely numbered. Where the vessel is a registered commercal vessel, the decal must not be numbered.

Prior to each fishing period, the Tsawwassen First Nation will provide to DFO a list of Tsawwassen First Nation members and vessels designated to fish under this Harvest Document and, in the case of a vessel, the vessel's Identity Number, and will immediately inform DFO of any changes to the list.

7. Monitoring and Harvest Reporting

7.1 Participant and Interview Data

Participants are required to notify the TFD of their intentions to harvest fish prior to their participation in each fishing period and report their catch and fishing effort information to the TFD after completion of each fishing period. These notifications and reports can be provided by phone to the TFD or by interview to an on-duty member of the TFN catch monitoring crew. Interviewers will record Salmon catch and effort information on the "TFN Salmon Fisheries Interview Data Form".

7.2 Daily Fishing Logs

Each Participant will maintain a daily fishing log using the "TFN Salmon Fisheries Log Data Form". Upon completion of each fishing period, each Participant will submit logs to monitors at landing sites or directly to the TFD office.

7.3 Validation

TFN will conduct on-water catch monitoring surveys or TFN fisheries officer patrols at least once every day during fishing period and, will record vessels participating in the Fishery. TFN will compare these records with the list of vessels designated to fish under this harvest document, will observe catches and compare it with catch reported orally to the TFD or recorded in daily logs.

Catch per vessel data will be verified through a random and representative sampling of a percentage of vessel landings by TFN shore based monitors. Efforts should be made to provide a representative sample of the various vessel types, fishing locations and gear observed in the Fishery in these validation activities. During landing validation TFN monitors will interview the Participants to obtain hours fished, number and species of Salmon and other species retained and released and perform a count the vessel's catch. The percentage of vessels needing validation will vary dependent on the type of fishery and will be discussed at joint technical committee meetings or in season as needed but it is proposed that coverage should be in the range of 20%.

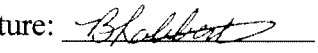
7.4 Reporting

Within 24 hours of the close of a fishing period, TFN will provide a preliminary catch report to DFO, including the names and the Vessel Identification Numbers that participated in the Fishery, the gear used, hours fished, status of the report (final or preliminary), number and species of Salmon and other species retained, and number and species of Salmon and other species released. Along with reported catch information, TFN will submit a report of validations conducted during the opening, including Vessel Identification Numbers, gear type, hours fished, number and species of Salmon and other species kept and number and species of Salmon and other species released. TFN will contact Participants who did not report after the Fishing period to determine whether they did participate, and if so, collect the requisite information. The preliminary catch report will be finalized within 48 hours of the close of the Fishing period.

8. Other Provisions

Pursuant to subsection 22(6) of the *Fishery (General) Regulations*, compliance with the *Fisheries Act* and the regulations made under the *Act* is a condition of this harvest document.

Where a vessel is used to harvest fish under the authority of this licence, such fish must be landed and offloaded prior to the vessel participating in any other communal or commercial fishery opening for the same species.

Signature: 

Name/Title: Bernette Laliberté on behalf of Terri Bonnet/ Resource Manager LFA

Department of Fisheries and Oceans

Date: August 12, 2010

Fisheries and Oceans Canada | Pêches et Océans Canada

August 06, 2010 **LFA-10-HD-438/TSAWWASSEN**

COMMERCIAL LICENCE FOR TSAWWASSEN FIRST NATION FOR SOCKEYE SALMON

Whereas the Tsawwassen First Nation Harvest Agreement is now in effect;

This licence is issued under the authority of section 7 of the *Fisheries Act* and section 4 of the *Aboriginal Communal Fishing Licences Regulations*.

This licence is issued to Tsawwassen First Nation and confers, subject to the *Fisheries Act* and regulations thereunder, the authority to fish under the following conditions:

Definitions

'DFO' means the Department of Fisheries and Oceans.

'Drift Net' means a gillnet free floating in the water, not attached in any manner to the shore, operated from a boat.

'Fishery' means fishing under the authority of this licence;

'Hatchery Marked Coho' means a coho salmon marked by the absence of the adipose fin and having a healed scar in place of that absent fin (an adipose fin consists of a small fleshy appendage without fin ray support, located dorsally between the rayed dorsal fin and caudal (tail) fin);

'Identification Number' in respect of a vessel means

(a) in the case of a registered commercial fishing vessel, the vessel registration number, and

(b) in the case of a vessel that is not a registered commercial fishing vessel, the number of the vessel identification decal issued by Tsawwassen First Nation.

'Landing Site' means a site designated by DFO and the Monitoring and Enforcement Committee that has a monitor on duty during the Fishery. For this licence, the landings sites are located at 7th Avenue Pier (Oceanside Fisheries), Wellington Point and the following tender boats Chemo III (Captain's Cove area) and Avisa (Bella Coola area).

'Monitor' means an individual hired by the First Nation to carry out monitoring activities.

'Monitoring and Enforcement Committee' means a joint technical committee consisting of three (3) DFO representatives and four (4) representatives of the First Nations (two each from Musqueam and Tsawwassen).

'Observer' means an observer designated under section 39 of the *Fishery (General) Regulations*.

'Participant' means an individual carrying on fishing or any related activity, including transporting fish caught under the authority of this licence.

'Set Net' means a gillnet that is either tied to shore at one end and anchored in the river at the other end, or anchored in the river at both ends, or tied to the shore at one end and tied to a net pole a the other end.

'TFN' means Tsawwassen First Nation

'TFD' means Tsawwassen Fishing Department located at 1926 Tsawwassen Drive, V4M 4G2 604-943-2112

1. Dates and Times

Subject to amendments to the conditions of this licence and subject to close times as may be varied by the Director General, Pacific Region, DFO in accordance with the *Fishery (General) Regulations, f*ishing is authorized by this licence for the following fishing periods:

15:00 hours, Monday, August 09, 2010 to 21:00 hours, Monday, August 09, 2010

2. Species and Quantity

The Fishery is limited to a harvest **sockeye salmon** and an incidental catch of chinook and hatchery marked coho.

All efforts and attempts shall be made to return all non-target species including but not limited to viable wild coho, steelhead, Dolly Varden, cutthroat trout, bull trout and sturgeon to the water alive.

Subject to closures and other conditions of this licence, the authority to fish under this licence will expire on **Monday, August 09, 2010** or if the allocation for the year has been caught or earlier if DFO, after consultation with Tsawwassen First Nation has determined there is a conservation concern.

3. Use of Fish

Sockeye and chinook salmon harvested under this licence may be sold, traded or bartered. Any hatchery marked coho salmon harvested under this licence may not be sold, traded or bartered.

4. Gear

The following gear is permitted to be used:

Drift Nets on condition that:

- **(i)** Nets do not exceed a maximum of 50 fathoms or 300 feet in length and a maximum depth of 60 meshes**.**
- (ii) Each Participant fishes only one net.
- (iii) Only one net is fished from any vessel.
- (iv) Each net is attended at all times by the Participant who is fishing the net.

(v) No vessel fishing under the authority of this licence may have on board any net that does not meet the conditions in (i) above.

(vi) Spare nets on board a vessel actively fishing are kept in a stowed condition.

Set Nets on condition that:

(i) Nets do not exceed a maximum of 10 fathoms or 60 feet and a maximum depth of 60 meshes.

(ii) All Set Nets are identified by a floating buoy prominently displaying the Participant's designation number, and the Participant's designation number is the only number displayed on the buoy.

(iii) All Set Nets fished from poles have buoys attached to the end of the net farthest from the beach by means of a tag line of sufficient length to allow the buoys to be on the surface of the water and clearly visible for inspection at all times.

5. Area

Those waters of the main arm of the Fraser River westerly of the power lines immediately downstream of the Port Mann Bridge, the waters of the North Arm of the Fraser River from the junction of the main arm downstream to the Arthur Laing Bridge, the waters of the Middle arm of the Fraser River, the waters of the Strait of Georgia bounded by a line commencing at 49° 11' 3.1524" N latitude and 123° 12' 26.08868" W longitude then to 49° 7' 48.216" N latitude and 123° 19' 50.4228" W longitude then to 49° 5' 15.6948" N latitude and 123° 18' 36.8958" W longitude then to 49° 0' 8.0028" N latitude and 123° 18' 5.1156" W longitude then to 49° 0' 7.5564" N latitude and 123° 5' 27.528" W longitude and the waters of Boundary Bay bounded by a line commencing at 49° 0' 7.5198" N latitude and 123° 2' 6.5898" W longitude then to 49° 0' 7.5414" N latitude and 122° 49' 10.8552" W longitude then to 49° 1' 15.2256" N latitude and 122° 48' 20.7858" W longitude. Portions of DFO Management Sub-areas 29-6, 29-7, 29-8, 29-9, 29-10, 29-11, 29-12, 29-13, 29-14, 29-17.

6. Designation of Individuals and Vessels

Where Tsawwassen First Nation designates an individual; a Tsawwassen fishing licence will be issued. An individual fishing under this licence must carry their Tsawwassen fishing licence at all times while participating in the Fishery or while transporting fish harvested in the Fishery and must presented it to any DFO Fishery Officer, DFO Fishery Guardian or Aboriginal Fishery Officer upon request.

A vessel used in the Fishery must be identified by affixing a vessel identification decal issued by Tsawwassen First Nation. The decal must be affixed to the vessel so that the decal is legible and unobstructed when viewed from another vessel or from shore. Where the vessel is not a registered commercial vessel, the decal must be uniquely numbered. Where the vessel is a registered commercial vessel, the decal must not be numbered.

Prior to each fishing period, the Tsawwassen First Nation will provide to DFO a list of Tsawwassen First Nation members and vessels designated to fish under this Harvest Document and, in the case of a vessel, the vessel's Identity Number, and will immediately inform DFO of any changes to the list.

7. Landing Slips

All fish caught by a Participant under the authority of this licence must be inspected by an Observer, Monitor, DFO fishery officer, or Aboriginal Fisheries Officer at the Participant's Landing Site, and such person shall issue a landing slip ('Landing Slip') to the Participant. The Participant must obtain a Landing Slip each and every time that salmon caught under the authority of this Licence are landed. The Landing Slip will specify:

- the Landing Site;
- the date and time of landing;
- the Participant's name and designation number;
- the number of salmon landed for each species of salmon;
- the name and signature of the inspecting Observer, Monitor, DFO fishery officer, or Aboriginal Fisheries Officer ; and
- in the case of drift net fishing, the vessel name, commercial fishing vessel number or Ministry of Transport identification number.

8. Proof of Landing

Except where fishing or transporting salmon to a Landing Site, a Participant having possession of salmon caught under the authority of this Licence must carry a Landing Slip for the salmon. The Participant shall show Landing Slips to any DFO Fishery Officer, Aboriginal Fisheries Officer, Monitor or Observer upon request.

9. Transportation of Salmon

A Participant will transport all fish caught under the Communal Commercial Licence from the fishing site where, or the boat from which, the fish were caught immediately and directly to a Landing Site for inspection and counting by species within one hour after the closing time as set out by the Communal Commercial Licence.

A Participant may identify to the First Nation a second Participant who may transport the salmon to the Landing Site. No Participant will be authorized to transport salmon on behalf of more than three Participants in addition to him/herself. A Participant must inform the First Nation of such arrangements at least forty-eight hours prior to the start of a Fishery opening. The First Nation will provide DFO and the Planning Committee with a list of Participants authorized to transport salmon on behalf of other Participants during normal office hours of 0800 hours to 1600 hours, Monday to Thursday and prior to 1300 hours on Friday, and not less than six hours before the start of the Fishery opening.

10. Monitoring, Reporting and Validation

Participant and Interview Data

Participants are required to notify the TFD of their intentions to harvest fish prior to their participation in each fishing period and report their catch and fishing effort information to the TFD after completion of each fishing period. These notifications and reports can be provided by phone to the TFD or by interview to an on-duty member of the TFN catch monitoring crew. Interviewers will record Salmon catch and effort information on the "TFN Salmon Fisheries Interview Data Form".

Daily Fishing Logs

Each Participant will maintain a daily fishing log using the "TFN Salmon Fisheries Log Data Form". Upon completion of each fishing period, each Participant will submit logs to monitors at landing sites or directly to the TFD office.

Validation

TFN will conduct on-water catch monitoring surveys or TFN fisheries officer patrols at least once every day during fishing period and, will record vessels participating in the Fishery. TFN will compare these records with the list of vessels designated to fish under this harvest document, will observe catches and compare it with catch reported orally to the TFD or recorded in daily logs.

Catch per vessel data will be verified through a random and representative sampling of a percentage of vessel landings by TFN shore based monitors. Efforts should be made to provide a representative sample of the various vessel types, fishing locations and gear observed in the Fishery in these validation activities. During landing validation TFN monitors will interview the Participants to obtain hours fished, number and species of Salmon and other species retained and released and perform a count the vessel's catch. The percentage of vessels needing validation will vary dependent on the type of fishery and will be discussed at joint technical committee meetings or in season as needed but it is proposed that coverage should be in the range of 20%.

Reporting

Within 24 hours of the close of a fishing period, TFN will provide a preliminary catch report to DFO, including the names and the Vessel Identification Numbers that participated in the Fishery, the gear used, hours fished, status of the report (final or preliminary), number and species of Salmon and other species retained, and number and species of Salmon and other species released. Along with reported catch information, TFN will submit a report of validations conducted during the opening, including Vessel Identification Numbers, gear type, hours fished, number and species of Salmon and other species kept and number and species of Salmon and other species released. TFN will contact Participants who did not report after the Fishing period to determine whether they did participate, and if so, collect the requisite information. The preliminary catch report will be finalized within 48 hours of the close of the Fishing period.

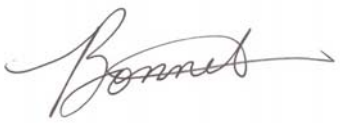
11. Other Provisions

Pursuant to subsection 22(6) of the *Fishery (General) Regulations*, compliance with the *Fisheries Act* and the regulations made under the *Act* is a condition of this licence.

No fish harvested under the authority of this licence may be on board a vessel engaged in commercial fishing.

Name/Title: Terri Bonnet /Resource Manager LFA

Department of Fisheries and Oceans

Signature: _____  _____

Date: _____August 06, 2010_____

APPENDIX C

Dataforms

TSAWWASSEN FIRST NATION - SALMON FISHERIES INTERVIEW DATA FORM - 2010-11)

Monitor's Name : _____

SET NET / DRIFT NET
Put Set and Drift Net Catch on Separate Sheets Even from the Same Fisher.

Date : _____ **Sheet ID :** _____

Site Location : _____

Fishing Area (Zone) _____

#	Name of Fisher	No.	Fishing Area	Mesh Size	Count or Hail?	# Drifts	Interview Time		Net Set (Start of Fishing)		Net Picked (End of Fishing)		Fish Kept						Fish Released				Still Fish'n
							Date	Time	Date	Time	Date	Time	Sock	Chin	Pink	Coho	Chum	Other	Sturg	FL	Sthd	Other	(Y/N)
1					C / H																		
2					C / H																		
3					C / H																		
4					C / H																		
5					C / H																		
6					C / H																		
7					C / H																		
8					C / H																		
9					C / H																		
10					C / H																		
11					C / H																		
12					C / H																		
13					C / H																		
14					C / H																		
15					C / H																		
16					C / H																		
17					C / H																		
Fishing Areas	* T1 = Roberts Bank (29-6,29-7), T2 = Sandheads (29-9, 29-10), T3 = Canoe Pass to Deas (29-14), T4 = Steveston-Pattullo (29-13), T5 = Pattullo-Port Mann (29-17), T6 = North Arm (29-12).										**TOTALS**												

Comments:

USE ONE DATA COLLECTION FORM FOR EACH SET NET FISHER OR FISHING GROUP.

PLEASE REMEMBER TO TOTAL UP ALL OF THE CATCH, AND HOURS FISHED, ON EACH OF YOUR PAGES.

TSAWWASSEN FIRST NATION - SALMON FISHERIES LOG DATA FORM - 2010

Fisher Name/No. _____ **Vessel Name/No:** _____ **Sheet ID :** _____

#	Fishing Location	Location Code	Net Length (feet)	Mesh Size (inches)	# of drifts	Data Recorded		Net Set (Start of Fishing)		Net Picked (End of Fishing)		Fishing Effort	Fish Kept							Fish Released	Hailed in
						Date	Time	Date	Time	Date	Time	Hours	Sock	Chin	Pink	Coho	Chum	Steelhd	Other	(species & #)	Y/N
	Canoe Pass	*T3*	*300*	*4.5*	*3*	*Apr. 4*	*2100*	*Apr. 4*	*0900*	*Apr. 4*	*2000*	*11*		*3*						*1 Sturgeon*	*Y*
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
Fishing Areas	* T1 = Roberts Bank (29-6,29-7), T2 = Sandheads (29-9, 29-10), T3 = Canoe Pass to Deas (29-14), T4 = Steveston-Pattullo (29-13), T5 = Pattullo-Port Mann (29-17), T6 = North Arm (29-12).									**TOTALS**											

Comments:

AN EXAMPLE OF THE INFORMATION TO RECORD IS PROVIDED IN THE FIRST SHADED LINE. PLEASE RECORD YOUR DATA BY DAY OR BY SET.

Filename: TFN Catch Data_04Feb2010.xls

Example Month Food Fishing Calendar

On each fishing date, please record the species (see below) and the amount caught (number or lbs).

Fisher: *Eddie McKay*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 ***Crab – 12*** ***Spring – 23***	2	3	4 **Crab – 15**	5	6	7
8	9	10	11	12	13	14
15	16	17	18 ***Spring– 23*** ***Steelhead – 2***	19	20	21 ***Spring – 10*** ***Crab – 8***
22	23	24	25	26	27	28
29 ***Spring – 30*** ***Sockeye - 12***	30					

Species: Sockeye, Chinook or Spring, Coho, Chum, Pink, Steelhead, Halibut, Lingcod, Dogfish, Rockfish, Crab, Geoduck, Clams, Oysters, Prawns, and Shrimp.

TSAWWASSEN FIRST NATION - CRAB FISHING INTERVIEW DATA FORM - 2010-11 **Sheet ID: _____**

Monitor's Name: _____ **Location:** _____ **Date:** _____

#	TFN FISHER		FISHING METHOD	STAT. AREA	HAULED		SOAK TIME	DEPTH	SPECIES	CATCH INFO.		Number of Traps Pulled	REMARKS OR COMMENTS
	NAME	No.	(GL/SL)	(Area-Sub)	Date	Time	Hours	Meters	(DU/RR)	Number Kept	Number Released		
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Methods: GL = Ground Line, SL= Single Lines Species: DU= Dungeness, RR=Red Rock, G=Graceful

TSAWWASSEN FIRST NATION - CRAB FISHING LOG DATA FORM - 2010 **Sheet ID: _____**

Fisher Name/No. _____ **Vessel Name/No.** _____

#	FISHING METHOD	STAT. AREA	HAULED		SOAK TIME	DEPTH	SPECIES	CATCH INFO.		Number of Traps Pulled	REMARKS OR COMMENTS
	(GL/SL)	(Area-Sub)	Date	Time	Hours	Feet	(DU/RR)	Number Kept	Number Released		
	SL	29-6	Apr. 20	1800	48	50	DU	8	2	2	2-female crab released
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Methods: GL = Ground Line, SL= Single Lines Species: DU= Dungeness, RR=Red Rock, G=Graceful

TSAWWASSEN FIRST NATION - OTHER FISHERIES INTERVIEW DATA FORM - 2010-11 **Sheet ID: _____**

Monitor's Name: _____ **Location:** _____ **Date:** _____

#	TFN FISHER		SPECIES	FISHING METHOD	STAT. AREA	LANDING		FISHING TIME	DEPTH	CATCH INFO.		Units	Number of Traps Pulled	REMARKS OR COMMENTS
	NAME	No.	(Code)	(Code)	(Area-Sub)	Date	Time	Hours	Meters	Number Kept	Number Released	(Code)		
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

Species: RF= Rockfish, LC = Lingcod, HB=Halibut, DF=Dogfish, C=Clams, O= Oysters, P=Prawns, S=Shrimp
Methods: HL= Hook & Line, LL=Long-line, HP= Hand pick, T=Trap
Units: P = Pieces, KG=kilograms, LB=pounds, B=5 gallon bucket

TSAWWASSEN FIRST NATION - OTHER FISHERIES LOG DATA FORM - 2010 **Sheet ID: _____**

Fisher Name/No. _____ **Vessel Name/No.** _____

#	SPECIES	FISHING METHOD	STAT. AREA	LANDING		FISHING TIME	DEPTH	CATCH INFO.		Units	Number of Traps Pulled	REMARKS OR COMMENTS
	(Name)	(Code)	(Area-Sub)	Date	Time	Hours	Meters	Number Kept	Number Released	(Code)		
	Copper RF	RR	29-7	Apr. 10	1600	2.5	60	2	1	P		1-small lingcod released
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Species: RF= Rockfish, LC = Lingcod, HB=Halibut, DF=Dogfish, FS=flounder/sole, C=Clams, O= Oysters, P=Prawns, S=Shrimp
Methods: RR=Rod & Reel, LL=Long-line, HP= Hand pick, T=Trap
Units: P = Pieces, KG=kilograms, LB=pounds, B=5 gallon bucket

APPENDIX D

Letter from Fisheries and Oceans, Canada

Fisheries and Oceans Canada
Pêches et Océans Canada

100 Annacis Parkway, Unit 3
Delta, B.C. V3M 6A2

May 20, 2011

Laura Cassidy, Resource Manager
Tsawwassen First Nation
1926 Tsawwassen Drive
Tsawwassen, B.C. V4M 4G2

Dear Ms.Cassidy:

Subject: ***Treatment of Uncaught Chinook from the 2010 season***

This is to follow up on the Joint Fisheries Committee meeting on March 22, 2011 regarding the treatment of uncaught Chinook from the 2010 season. I would like to take this opportunity to briefly review the 2010 season and how the Department understands the underage provisions in Appendix J-3.

It is my understanding that of the 625 piece allocation, 338 pieces of Chinook were reported as harvested by the Tsawwassen First Nation (TFN) in 2010. TFN has indicated that the main reason TFN did not achieve their Chinook allocation was due to the lack of fishing opportunity. In addition that because TFN exceeded their allocation by 95 fish in 2009 that overage would be cleared up and 192 Chinook should be carried forward to 2011.

In 2010 the Department implemented management actions in both marine and in-river fisheries designed to reduce fishery impacts on Fraser River Spring 4_2 stocks during their peak migration period. The Department worked closely with First Nations to develop fishing plans to protect these stocks and appreciated the support received by the TFN and other First Nations for these actions. In addition, to address the poor returns of Early Stuart sockeye and the earliest timed early Summer Sockeye Stocks the Department implemented a four week moving window closure for all fisheries including FSC fisheries, in the areas where these stocks were present. This window is designed to protect 90% of the Early Stuart run from directed harvest and has been implemented for the past few years. However, in recent years the Department has worked with lower Fraser River First Nations on a more selective gillnet drift fishery that would allow for some harvest of Chinook during this closure. Following this closure, after July 15, the retention of Chinook was permitted during directed sockeye fisheries.

As discussed at the meeting, appendix J-3 to the Tsawwassen First Nation Final Agreement provides the principles for calculating overages and underages for Salmon. I have attached a copy of the appendix for your reference.

Paragraphs b & c speak to the circumstances under which an underage can be accounted for in a multi-year accounting process or "carried forward" to be available in future years. It is the Department's perspective that harvesting less than the annual allocation due to limited opportunities during the first part of 2010 due to conservation issues, does not meet the principles under which an underage can be identified. The circumstances outlined in paragraphs b & c refers to situations where either another group harvested more than their share, or there was an uncertainty in the management process. In the Department view neither of these principles, the only two under which an underage many occur, apply to the 2010 fishery.

In addition, the Department would like to clarify with the TFN the process that is identified in paragraph e of appendix J-3 for agreeing on the multi-year accounting process. It is the Department understands the provisions of the treaty should provide for certainty around allocations each year. We would envision that any carry-forward of overages and underages and how it will be accounted for in future years be agreed to prior to the fishing season.

It is the Department's position that given the principles outlined in the Treaty, that there is no carry forward of chinook from the 2010 season. I believe it is important that there is a common understanding on how these principles will be applied each year and that further discussion between TFN and the Department is required.

Please contact myself or Janet Gagne at 604 666-6512 or janet.gagne@dfo-mpo.gc.ca to arrange for a meeting to discuss the Treaty principals or any further concerns.

Sincerely yours,

Diana M. Trager
Area Director, Lower Fraser Area

Appendix J-3

The procedures for calculating overages and underages for each Salmon species will be consistent with the following principles:

a. where a Tsawwassen harvest exceeded the defined Tsawwassen Allocation for a Salmon species in a year, an overage has occurred for that species and the amount of that overage will be accounted for in the multi-year accounting process;

b. where a Tsawwassen harvest was less than the defined Tsawwassen Allocation for a Salmon species in a year because another group harvested more than their harvest share for that species, an underage has occurred for that species and the amount of that underage will be accounted for in the multi-year accounting process;

c. where a Tsawwassen harvest was less than the defined Tsawwassen Allocation for a Salmon species in a year due to uncertainty in the management process for that species, an underage has occurred for that species and a defined portion of that underage will be accounted for in the multi-year accounting process;

d. where a Tsawwassen harvest was less than the defined Tsawwassen Allocation for a Salmon species in a year due to a lack of harvesting effort on the part of Tsawwassen, no underage has occurred for that species in that year; and

e. where Tsawwassen and Canada agree on an amount to be accounted for in the multiyear accounting process for overages and underages for a Salmon species, Tsawwassen and Canada will use that amount in the multi-year accounting process.

APPENDIX E

2010 Fraser River Sockeye Status Report

September 30, 2010

Status

2010 Fraser River Sockeye In-season Status

Week of: Sep. 26 - Oct. 2, 2010 Date: Sep. 30, 2010

	Sockeye				
	Early Stuart	Early Summer	Summer	Late	Total
Run Size					
Pre-season Forecast	41,000	783,300	2,612,000	8,003,000	11,439,300
In-season Estimate	105,000	3,800,000	5,200,000	25,441,000	34,546,000
Catch excluding Fraser River Aboriginal (FSC & EO) and Fraser R. Recreational					
"Outside" Catch	3,400	906,980	1,803,950	8,901,120	11,615,450
Gross Escapement					
FRA Catch Below Mission (incld. FSC & EO)	170	117,010	177,880	326,940	622,010
Escapement-to-date @ Mission	100,850	2,701,480	3,147,260	10,215,020	16,164,610
Potential Gross Escapement	101,020	2,818,490	3,325,140	10,541,960	16,786,610
Adjusted Gross Esc. Target *	105,000	2,168,900	2,729,100	14,015,240	19,018,240
Accounted-to-date					
Catch + Escapement to Mission	104,420	3,725,470	5,129,090	19,443,080	28,402,060
Potential Remaining To Come					
Potential En-route	580	74,530	70,910	5,997,920	6,143,940
Catch Excluding Fraser R. Aboriginal and Above-Mission Recreational Catch					
Canadian Commercial (inclds selective)	620	593,100	1,322,730	7,275,130	9,191,580
U.S. Commercial	260	223,750	383,500	1,354,290	1,961,800
Marine Area Aboriginal	80	59,090	66,240	159,010	284,420
Test Fishing	2,360	21,660	18,380	29,010	71,410
Canadian Charter (Albion & Qualark TF)	60	1,870	1,920	2,670	6,520
Canadian Marine Recreational	0	4,180	7,500	77,970	89,650
U.S. TI Ceremonial	20	3,330	3,680	3,040	10,070
U.S. Recreational	0	0	0	0	0
Total	3,400	906,980	1,803,950	8,901,120	11,615,450
Fraser R. Aboriginal and Above-Mission Recreational Catch					
Canadian Fraser R. Recreational	0	31,280	48,320	126,980	206,580
Fraser R. Aboriginal Catch Reported-to-date					
Catch Below Mission (incld. FSC & EO)	170	117,010	177,880	326,940	622,000
Catch Above Mission (incld. FSC & EO)	2,500	174,380	293,740	366,360	836,980
Total	2,670	291,390	471,620	693,300	1,458,980
Total In-river Catch	2,670	322,670	519,940	820,280	1,665,560
Total Catch in All Areas					
Total	6,070	1,229,650	2,323,890	9,721,400	13,281,010
Timing and Diversion Assumptions					
Area 20 Timing	5-Jul	9-Aug	15-Aug	22-Aug	
Mission Timing	11-Jul	15-Aug	21-Aug	12-Sep	
JS Diversion Rate (annual to date)					
JS Diversion Rate (recent short-term)					

* Adjusted gross escapement target = adjusted spawning escapement target plus expected catch in Fraser River aboriginal, recreational and charter fisheries.

PSC [Status]Status 8:40 AM 9/30/2010 1/3

2010 Fraser River Panel Sockeye Review **Sockeye_Review**

Week of: Sep. 26 - Oct. 2, 2010 Date: Sep. 30, 2010

Area	Gear	Fraser Sockeye Cumul.
Commercial Catch		
Canada		
A & C Areas 1-10	Net	0
F Areas 1-10	Troll	0
G Areas 123-127,11-12	Troll	0
B Areas 11-16	PS	4,409,250
D Areas 11-13	GN	1,001,160
H Areas 12-16	Troll	270,140
H Areas 18-29	Troll	100,810
B Area 20	PS	127,910
B Area 29	PS	1,148,700
E Area 29	GN	2,133,600
FRA Econ. Opp. + BCI FN Demo		931,410
Canadian Total		10,122,980
United States		
Alaska	Net&Troll	0
Washington		
T.I. Areas 4B/5/6C	Net	135,420
T.I. Areas 6/7/7A	Net	1,084,740
N.I. Areas 7/7A	Net	741,640
Washington Total		1,961,800
U.S. Total		1,961,800
Non-commercial Catch		
PSC Panel Area Test		53,600
PSC non-Panel Area Test		17,810
Fraser River Aboriginal (FSC)		527,570
Areas 12-124 Aboriginal		284,420
Recreational		296,230
Charter (Albion & Qualark TF)		6,516
U.S. TI Ceremonial		10,100
Non-comm. Total		1,196,250
Catch and Escapement		
Catch Accounted-to-date		13,281,030
Potential Spawning Escapement (Mission esc. less FN, sport & Qualark TF catch above Mission)		15,117,580
Total Accounted-to-date		28,398,610

Gross Escapement (includes Pitt R. sockeye)

Run	Stock/Group	Adjusted Target *	Mission Esc.	FN Below Mission	Gross Esc.	% Complete
EStu	Early Stuart	105,000	100,800	200	101,000	96%
ESum	Early Summer	2,168,900	2,701,500	117,000	2,818,500	130%
Summ	Quesnel/Chilko	2,729,100	2,839,200	162,200	3,325,000	122%
	L.Stu./Stel.		308,000	15,600		
Late	Birkenhead	14,015,240	167,500	7,100	10,541,900	75%
	Adams/L.Shuswap		8,631,300	282,300		
	Weav/L.Misc.		386,100	6,000		
	Harrison		1,030,100	31,500		

Stock Identification

Area/Gear	Date (n)	%Fraser	Stocks/Percentages
ABgntf DNA	Sep26-27 (n=94)	100%	ES 0%; EM 0%; ET 0%; CQ 0%; LS 0%; Bi 0%; AW 92%; Ha 8%
ABgntf DNA	Sep24-25 (n=91)	100%	ES 0%; EM 0%; ET 0%; CQ 1%; LS 0%; Bi 0%; AW 81%; Ha 17%
ABgntf DNA	Sep22-23 (n=94)	100%	ES 0%; EM 0%; ET 0%; CQ 0%; LS 0%; Bi 0%; AW 87%; Ha 13%
ABgntf DNA	Sep20-21 (n=97)	100%	ES 0%; EM 0%; ET 0%; CQ 0%; LS 0%; Bi 0%; AW 94%; Ha 6%

A7=San Juan; A12ps=Blinkhorn; A12gn=Round I.; A20=Juan de Fuca Str.; BB=Cottonwood; AB=Whonnock

E.Stuart	Early Summer	Summer	Late
ES=EStu	Scale: FBE=Fe,Bo,EShu; GNR=Ga,Na,Ra,Pi,Cwk DNA: EM=EMisc; ET=Early Thompson	CQ=Chil/Ques; LS=LStu/Stel	Bi=Birk; Ha=Harr; AW=Adam/Weav

* Adjusted gross escapement target = spawning escapement target plus management adjustment plus expected catch in Fraser River aboriginal, recreational and charter fisheries.

PSC [Status]Sockeye_Review 8:40 AM 9/30/2010 2/3

TAC

2010 Fraser River Sockeye Salmon: TAC, Catch Balance and Potential Escapement

Week of: Sep. 26 - Oct. 2, 2010 Date: Sep. 30, 2010

		Fraser Sockeye				
		Early Stuart	Early Summer	Summer	Late	Total
RUN STATUS, ESCAPEMENT NEEDS & AVAILABLE SURPLUS						
In-season Run Size Estimate		105,000	3,800,000	5,200,000	25,441,000	34,546,000
Adult Spawning Escapement Target (SET)		105,000	1,520,000	2,080,000	10,176,400	13,881,400
%SET from TAM rules		100%	40%	40%	40%	
Management Adjustment (MA)		8,400	547,200	312,000	3,561,740	4,429,340
Proportional MA (pMA)		0.08	0.36	0.15	0.35	
Adjusted Spawning Escapement Target (SET) *		105,000	2,067,200	2,392,000	13,738,140	18,302,340
Test Fishing (TF)		2,400	22,000	18,500	29,000	71,900
Surplus above Adjusted SET & Test fishing		0	1,710,800	2,789,500	11,673,860	16,174,160
DEDUCTIONS & TAC FOR INTERNATIONAL SHARING						
Aboriginal Fishery Exemption (AFE)		4,100	41,600	228,500	125,800	400,000
Available Aboriginal Fishery Exemption		0	41,600	228,500	125,800	395,900
Total Deductions (Adj. SET + TF + Available AFE)		107,400	2,130,800	2,639,000	13,892,940	18,770,140
Available TAC for International Sharing		0	1,669,200	2,561,000	11,548,060	15,778,260
UNITED STATES (Washington) TAC						
U.S. Share **	16.5%	0	275,420	422,570	1,905,430	2,603,420
U.S. Payback **	0.0%	0	-450	-700	-3,150	-4,300
	Total	0	274,970	421,870	1,902,280	2,599,120
Treaty Indian Share **	67.7%	0	186,010	285,380	1,286,830	1,758,220
Non-Indian Share	32.3%	0	88,960	136,490	615,450	840,900
CANADA TAC						
Canadian Allocation	83.5%	0	1,394,230	2,139,130	9,645,780	13,179,140
Available Aboriginal Fishery Exemption (AFE)		0	41,600	228,500	125,800	395,900
Total Canadian Share		0	1,435,830	2,367,630	9,771,580	13,575,040
Marine Area Aboriginal FSC		0	22,500	93,600	144,000	260,100
Fraser River Aboriginal FSC		0	93,800	298,900	208,200	600,900
First Nations Allocations (including AFE)		0	116,300	392,500	352,200	861,000
Charter (Albion, Qualark)		0	2,000	2,000	2,000	6,000
Marine Recreational Fisheries		0	1,300	10,100	20,000	31,400
Fraser Recreational Fisheries		0	7,900	38,200	68,900	115,000
Planned Charter & Recreational Shares		0	11,200	50,300	90,900	152,400
Purse Seine B	48.5%	0	634,540	933,540	4,524,310	6,092,400
Gillnet D	21.5%	0	281,290	413,840	2,005,620	2,700,750
Gillnet E	25.0%	0	327,080	481,210	2,332,120	3,140,410
Troll H	5.0%	0	65,420	96,240	466,420	628,080
Commercial Allocations (inclds BCI FN Demo)	100.0%	0	1,308,330	1,924,830	9,328,480	12,561,640
Fraser River Aboriginal Economic Opportunity'		0	0	0	0	0
Total Commercial		0	1,308,330	1,924,830	9,328,480	12,561,640
CATCH-TO-DATE						
Test		2,360	21,660	18,380	29,010	71,410
Treaty Indian (Wash.)		220	137,580	246,450	845,980	1,230,230
Non-Indian (Wash.)		60	89,500	140,730	511,350	741,640
Washington		280	227,080	387,180	1,357,330	1,971,870
Marine Area Aboriginal		80	59,090	66,240	159,010	284,420
Fraser River Aboriginal		2,670	291,390	471,620	693,300	1,458,980
Charter (Albion, Qualark)		60	1,870	1,920	2,670	6,520
Recreational		0	35,460	55,820	204,950	296,230
Commercial		620	593,100	1,322,730	7,275,130	9,191,580
Canada		3,430	980,910	1,918,330	8,335,060	11,237,730
Total Catch in All Fisheries		6,070	1,229,650	2,323,890	9,721,400	13,281,010
Exploitation Rate (catch-to-date / run size)		6%	32%	45%	38%	38%
CATCH REMAINING (BALANCE)						
Washington		-280	47,890	34,690	544,950	627,250
Canada		-3,430	454,920	449,300	1,436,520	2,337,310
Balance Remaining [below share / -above share]		-3,710	502,810	483,990	1,981,470	2,964,560
ESCAPEMENT RELATIVE TO TARGETS						
Potential Spawning Escapement (PSE) ***		98,930	2,570,350	2,876,110	15,719,600	21,264,990
Predicted Difference Between Estimates (%DBE)		-7%	-26%	-13%	-26%	
PSE with predicted DBE removed		91,600	1,889,960	2,500,970	11,644,150	16,126,680
Spawning Escapement Target (SET)		105,000	1,520,000	2,080,000	10,176,400	13,881,400
Potential deviation from SET [<target / >target]		-13,400	369,960	420,970	1,467,750	

* The adjusted SET is the lesser of the run size or the sum of the MA + TAM-defined SET.

** Washington sockeye and pink shares according to Annex IV of the Pacific Salmon Treaty.
Sockeye: 16.5% of the TAC - payback (maximum of 5% of share). Payback in 2010 to be taken from Treaty Indian share.

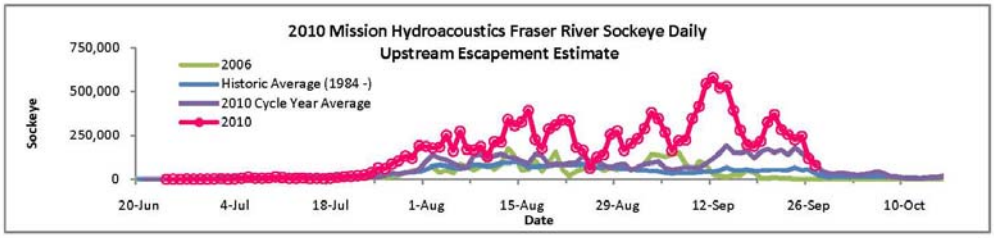
*** Potential spawning escapement = total run size minus catch-to-date.

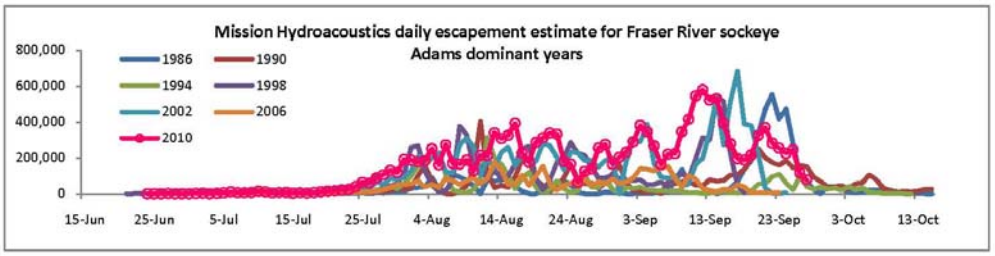
**** pMA and DBE estimates are available only for non-Harrison component of Late run, and so are unavailable for Late-run aggregate.

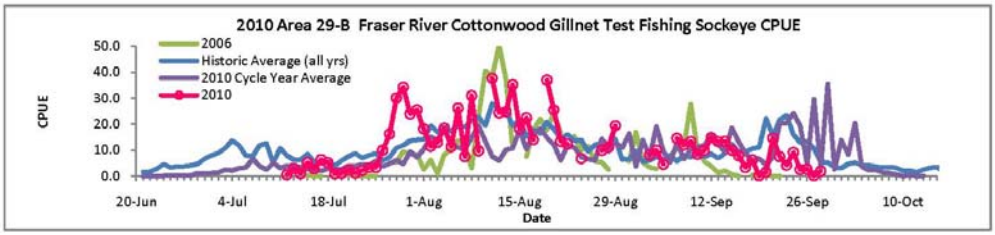
PSC [Status]TAC 8:40 AM 9/30/2010 3/3

2010 Pacific Salmon Commission Fraser Sockeye Test Fishing & Escapement Summary

Date	Round Island 12 GN	Gulf TR	Blinkhorn 12 PS	13 PS	San Juan 20 PS	20 GN	5 GN	7 RN Obs.	Cottonwood 29B GN	Whonnock 29D GN	Mission Esc.	Hells Gate Est.
12-Sep									106	167	544,700	72,500
13-Sep									95	188	579,100	50,200
14-Sep									96	140	521,400	57,600
15-Sep		0							72	113	530,600	68,200
16-Sep		277							45	97	393,100	63,500
17-Sep		228							18	127	279,400	76,900
18-Sep									33	133	196,400	78,700
19-Sep									1	156	187,500	75,500
20-Sep									8	179	216,300	69,600
21-Sep									105	96	324,700	33,800
22-Sep									54	143	369,700	37,900
23-Sep									22	123	282,900	36,700
24-Sep									65	93	254,500	41,700
25-Sep									14	60	225,700	43,000
26-Sep									15	123	246,100	69,200
27-Sep									1	57	117,600	45,200
28-Sep									10	16	78,800	47,100







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