




WHY A CIP FACILITIES SURVEY?

Why?

- This is the first time we have collected some or all of this information for individual CIP facilities.



**DATA WILL BE
STORED IN
“NEW” CIP
FACILITIES
DATABASE**

What it will inform:

- Will inform program planning and delivery, investments
- Legal requirements: used to populate a number of legal documents, including FMP, HMP.
- Linkages to other DFO databases (ie EPro).
- Broader program summary of information / statistics

CIP Survey Components





Data Capture elements

Data capture and management planning and reference documents that are produced will assist with the identification of specific needs to address the most pressing issues and priorities, in Pacific Region, in areas, and at specific sites.

- Enhancement activities / Stock assessment
 - Fish culture / Fish Health / Bio-security
 - Human Resources / Health & Safety / Education and Training / Succession planning
 - Infrastructure (Building, Fish Culture)
 - Water supply – licensing / treatment (*CIP summary to come!*)
 - Climate Change resiliency
 - Other – Tenure, Insurance
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CIP Survey

FastField

- Subscription service – build your own “app”
- Ability to collect data on tablets without cellular or WIFI, but also work on desktop
- “Teams” of data collectors
- Ability to export in multiple formats > ultimate location in PSSI Digital lab team developed database / repository of information
- Report Template
- HDR/NHC data will also be used to populate

CIP Survey dispatch to teams

Users

Help

+ New

Q Search users...

Filters

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	User	First Name	Last Name	Last Login	Roles
<div><div></div><div>Actions</div></div> <div>TI</div> <td>Tiffani.Furlong@dfo-mpo.gc.ca</td> <td>Tiffani</td> <td>Furlong</td> <td>10-12-2023 09:04 AM</td> <td>Collector, Dispatcher, Viewer</td>	Tiffani.Furlong@dfo-mpo.gc.ca	Tiffani	Furlong	10-12-2023 09:04 AM	Collector, Dispatcher, Viewer
<div><div></div><div>Actions</div></div> <div>RY</div> <td>Ryan.Cyr@dfo-mpo.gc.ca</td> <td>Ryan</td> <td>Cyr</td> <td>11-21-2023 09:05 AM</td> <td>Collector, Dispatcher, Viewer</td>	Ryan.Cyr@dfo-mpo.gc.ca	Ryan	Cyr	11-21-2023 09:05 AM	Collector, Dispatcher, Viewer
<div><div></div><div>Actions</div></div> <div>SC</div> <td>Scott.Ducharme@dfo-mpo.gc.ca</td> <td>Scott</td> <td>Ducharme</td> <td>12-13-2023 04:21 PM</td> <td>Admin, Analyst, Collector, Dispatcher, Submission Editor, Viewer</td>	Scott.Ducharme@dfo-mpo.gc.ca	Scott	Ducharme	12-13-2023 04:21 PM	Admin, Analyst, Collector, Dispatcher, Submission Editor, Viewer
<div><div></div><div>Actions</div></div> <div>BR</div> <td>Brian.Smith4@dfo-mpo.gc.ca</td> <td>Brian</td> <td>Smith</td> <td>12-18-2023 11:55 AM</td> <td>Collector, Dispatcher, Viewer</td>	Brian.Smith4@dfo-mpo.gc.ca	Brian	Smith	12-18-2023 11:55 AM	Collector, Dispatcher, Viewer
<div><div></div><div>Actions</div></div> <div>AL</div> <td>Allison.Bendis@dfo-mpo.gc.ca</td> <td>Allison</td> <td>Bendis</td> <td>12-21-2023 01:59 PM</td> <td>Analyst, Collector, Dispatcher, Librarian, Submission Editor, Viewer</td>	Allison.Bendis@dfo-mpo.gc.ca	Allison	Bendis	12-21-2023 01:59 PM	Analyst, Collector, Dispatcher, Librarian, Submission Editor, Viewer
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<div><div></div><div>Actions</div></div> <div>IA</div> <td>Ian.Douglas@dfo-mpo.gc.ca</td> <td>Ian</td> <td></td> <td></td> <td></td>	Ian.Douglas@dfo-mpo.gc.ca	Ian			
<div><div></div><div>Actions</div></div> <div>DA</div> <td>Dave.Davies@dfo-mpo.gc.ca</td> <td>Dave</td> <td></td> <td></td> <td></td>	Dave.Davies@dfo-mpo.gc.ca	Dave			
<div><div></div><div>Actions</div></div> <div>JI</div> <td>Jim.Wilson@dfo-mpo.gc.ca</td> <td>Jim</td> <td></td> <td></td> <td></td>	Jim.Wilson@dfo-mpo.gc.ca	Jim			

Submissions

Help

Down

Q Search submissions...

Filters

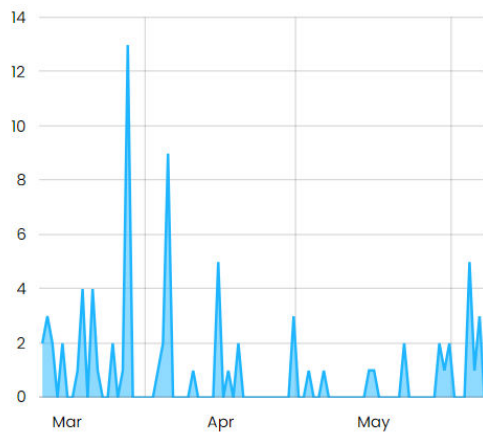
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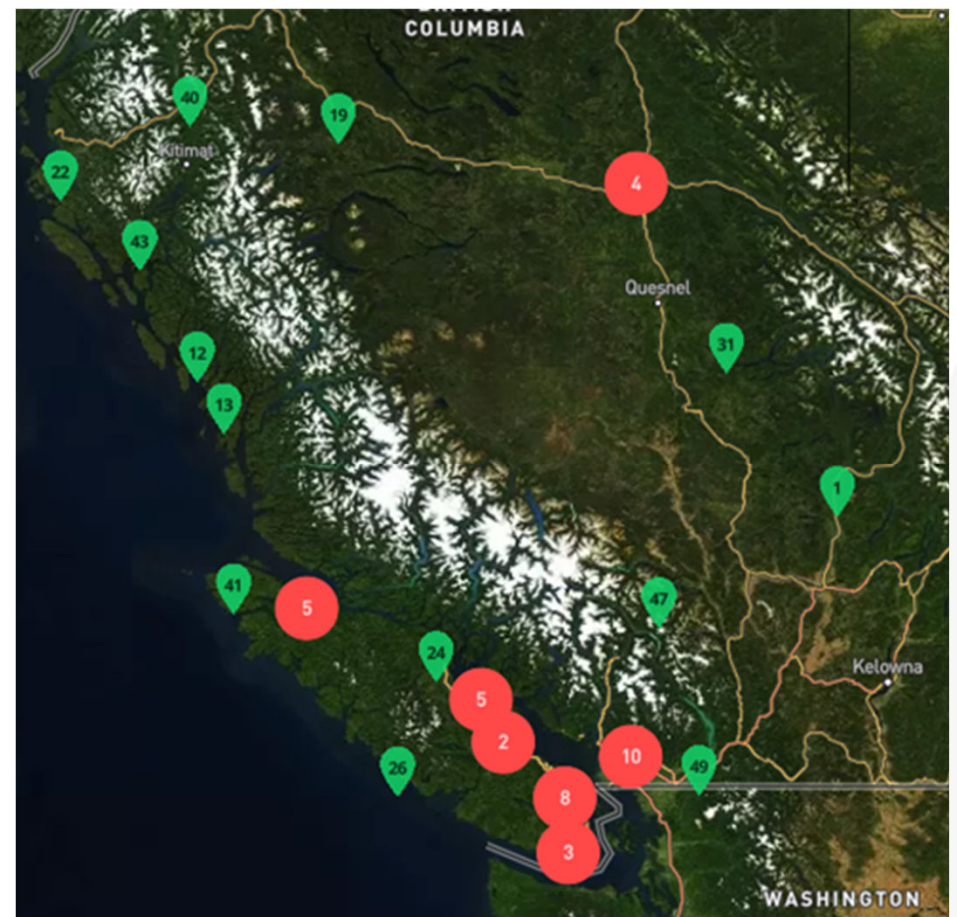
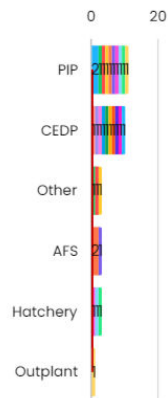
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<div><div></div><div>Actions</div></div>	San Juan River Seapen Project	01-17-2024 10:15 AM	01-17-2024 10:15 AM	Survey Complete	HE heather.wright@dfo-mpo.gc.ca	06c94a6

FastField - dashboard



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Task Project



Freshwater/Land-based Aquaculture 2024 Licence Renewal Process



Aquaculture Management is proposing changes to incorporate **Facility Management Plans (FMP)** and **Fish Health Management Plans (HMP)** into all Freshwater/Land-Based licenses.



These Plans have been a licensing requirement for all major licence amendments and all new licence applications since 2020.



As part of the Freshwater/Land-based Aquaculture 2024 Licence Renewal process, current licence holders were invited to provide feedback (by Oct 31, 2023) on new templates.



Approved Plans are expected to be attached to 2024 Pacific Aquaculture Regulation (PAR) licenses using a *phased-in* approach.

FRESHWATER / LAND-BASED AQUACULTURE LICENCE RENEWAL

Draft Timeline	Activity
Jun - Sep 2023	DFO to collect input on notable condition of licence proposed changes
Oct 2023	Industry to provide feedback on FMP and HMP templates by October 31, 2023
Sep - Nov 2023	DFO to draft licence conditions
Nov 2023 – Mar 2024	DFO to consult with First Nations on licence reissuance and licence conditions
May 2024	DFO decision-maker to make decisions on licence reissuance and licence conditions
Jun 2024	DFO to communicate decisions on licence reissuance and licence conditions

DFO TO REISSUE LICENCES: June 18, 2024

Facility Management Plan Components

Part 1 – Infrastructure

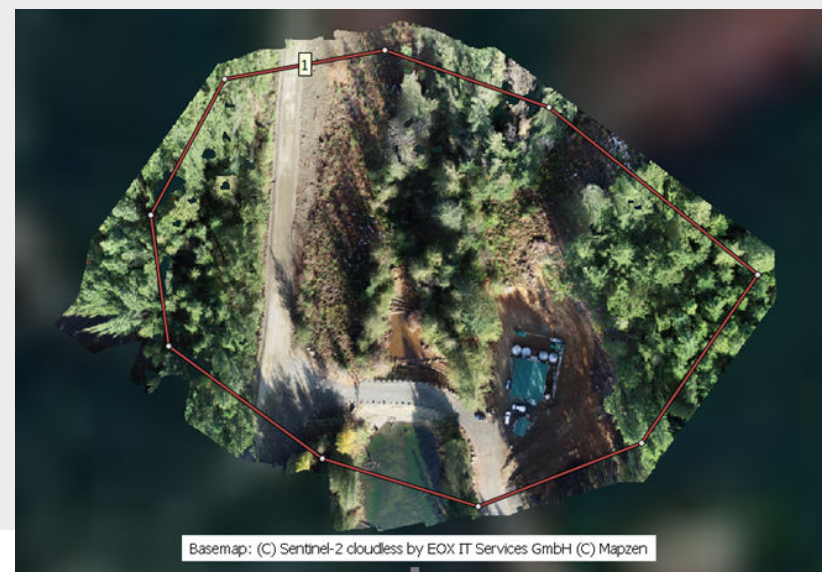
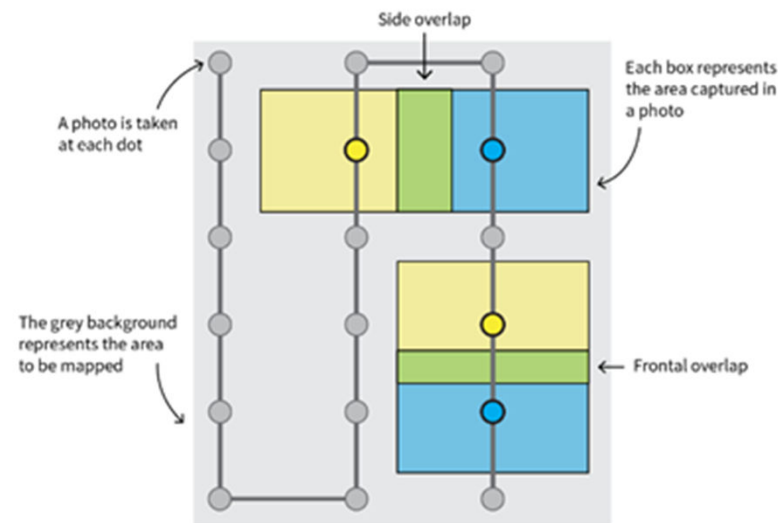
- Facility information
- Culture information
- Water sources and discharge
- Water treatment

Part 2 – Site Diagrams

- General location map
- Detailed location map
- Habitat map
- Operational diagrams

Mapping process

- CIP map template design complete; developed using AMD, Real Properties and DFO GIS advice
- Using iMaps, OpenData BC, and local LIDAR data resources; drone imagery is being collected to provide current, high resolution base photos of facilities to meet detailed map criteria (as resources and opportunity allow)

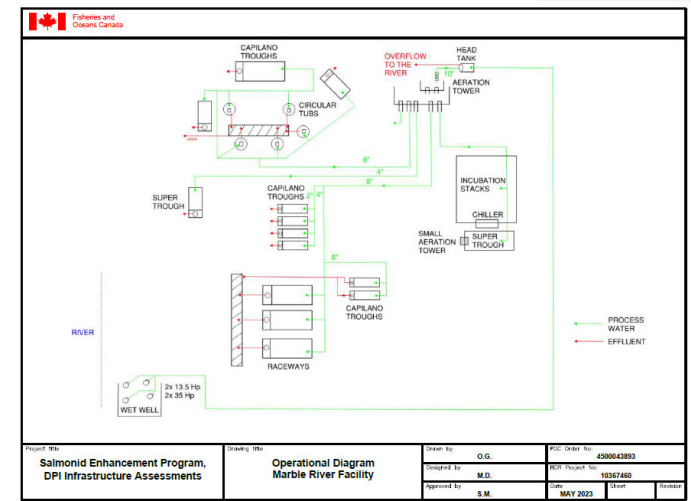
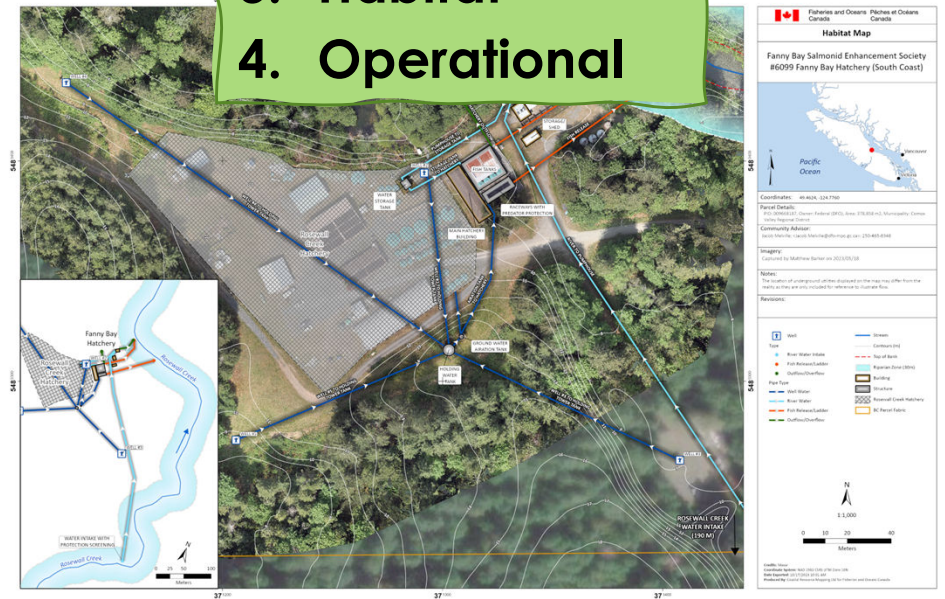
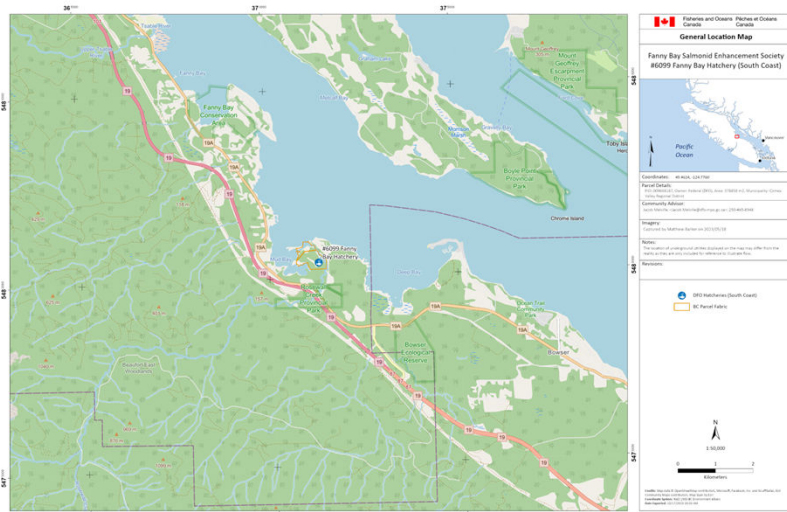


Mapping Contractor – Status

Area	Facility Name	City/DFO Area	Mapping Status	General Loc. Map	Detailed Loc. Map	Habitat Map	# of Habitat M	Priority	Operational Diagram	Imagery	Hi Res DEM	CRM Comments	DFO Comments
South Coast	Fanny Bay Hatchery	Fanny Bay	Completed	Completed	Completed	Completed	2	High	Not Started	Hi Res	Available		
South Coast	Lake Cowichan Hatchery	South Vanc Island	In Progress	! Waiting Review !	! Waiting Review !	! Waiting Review !		High	Not Started	Low Res		Missing PID	
				! Waiting Review !	! Waiting Review !	! Waiting Review !			Not Started	Medium Res		Partial Lidar coverage available (not covering hatchery area) - will use 25m Trim for habitat contours. Well water gets pumped into stream, which then feeds the pond, correct?	
South Coast	Mark Hobson Hatchery	South Vanc Island	In Progress				2	High					
				! Waiting Review !	! Waiting Review !	! Waiting Review !			Not Started	Medium Res	Available	Missing Fac CD #; Confirm PID - Hatchery is not located in parcel (according to Fastfields); missing water intake gas location; missing outflow info; missing pipe route	
South Coast	Nile Creek Hatchery	Courtenay-Cornox	In Progress				1	High					
South Coast	Oyster River Hatchery	Courtenay-Cornox	In Progress	Completed	Completed	! Waiting Review !	1		Not Started	Medium Res	Available	Not in CRM scope	
				! Waiting Review !	! Waiting Review !	! Waiting Review !			Not Started	Hi Res		Habitat Map missing brood building GPS location; outflow pipe info/location, contours. Should the satellite site be mapped?	
South Coast	Roy Creek Hatchery	Courtenay-Cornox	In Progress				1	High					
				! Waiting Review !	! Waiting Review !	! Waiting Review !			Not Started	Hi Res	Not Available	1st draft done. Need GPS coordinates of water intake/pond, header tank, and intake pipe route. Should satellite sites be mapped? Also no BCLidar coverage so only TRIM 25m contours available	
South Coast	Zeballos Hatchery	Campbell River	In Progress				1	High					
South Coast	Cordy Creek Hatchery	Port McNeill	In Progress	Completed	Completed	Completed	2	High	Not Started	Hi Res	Available	Operational Diagram sketch made by Don available	
South Coast	Trent River Hatchery	Courtenay-Cornox	In Progress	Completed	Completed	Completed	1	High	Not Started	Hi Res	Available	No BC Lidar available - cannot create 2m contours	LIDAR from CVRD was provided, imagery flown Oct 31 is loaded to sharepoint folder
South Coast	Cusheon Creek Hatchery	Saltspring Island	In Progress	In Progress	In Progress	In Progress		High	Not Started	Medium Res		Reexport maps with updated coords?	
				In Progress	In Progress	Waiting for data			Not Started	Medium Res		No BC Lidar available - cannot create 2m contours. Could not map water source pipes - insufficient data (need water license info). New versions uploaded 2024-01-24.	
South Coast	Sonora Island Hatchery / Phillips River Enl Campbell River		In Progress					High				Some mapping done for previos project (Ian Douglas)	Yes, Jack Brooks / Charters Creek are on the same property
South Coast	Sooke River Jack Brooks Hatchery	South Vanc Island	In Progress	In Progress	In Progress	In Progress		High	Not Started	Low Res			
South Coast	Charters Creek Hatchery	Sooke	In Progress	In Progress	In Progress	Not Started		High	Not Started	Low Res		Hatchery is not visible from imagery	

Site maps / diagrams

1. General
2. Detailed
3. Habitat
4. Operational



Fish Health Management Plan (HMP)

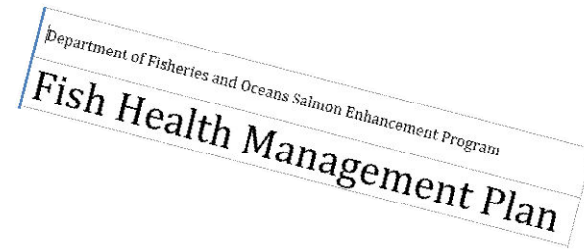
Community Involvement Program Best Management Practices Guide



- SEP Community Involvement no longer able to reference the Best Management Practices Guide for FMP in its entirety
- Will now need to identify specific fish culture activities undertaken at each facility; adopt SEP FHMP (content control)

First Edition: September 2013

HMP decision



CIP BMPs

- Last updated Fall 2013
- Needs to be reviewed and updated
- Better graphical design / layout; READABLE by Community Partners

SEP FHMP

- Existing template used by Major Ops
- Crafted and supported by Fish Health group

➔ Produce a document adopts SEP Major Ops FHMP templates

- *Currently, CIP is using the SEP FHMP template as part of “new” enhancement applications. Fish Health Team is reviewing and updating this template.*

Water Licensing

Water supply identified

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- Survey data to collect water supply information
- Licencing, intakes, outfalls, effluent, amounts, water monitoring, associated costs

119

New water
licence
applications
may be
required

Groundwater - Well	Surface water - Lake	Surface water - River/Stream	Surface water - Spring	Municipal	Total
9	7	52	8		76

CIP Facilities database

PSSI Digital lab team to develop

- Centralized data management
- Ability to evaluate infrastructure
- Streamlined document population (ie PAR, FMP, HMP) – ie “mail merge”
- Linkages to other internal databases (ie EPro)
- Dashboard
- Ability to query information

Future focus

Operational Manuals - Develop site specific facility operation documents for CEDPs and larger PIPs initially, and other PIP facilities in the future

- Annual maintenance
- Seasonal operations
- Emergency protocol
- Emergency fish release
- Water supply system operation
- ??