Core Area Stormwater Quality Program

2025 Report

Capital Regional District | Parks, Recreation & Environmental Services Environmental Protection

Including the jurisdictions of:

City of Colwood
Township of Esquimalt
City of Langford
District of Oak Bay
District of Saanich
City of Victoria
Town of View Royal
Esquimalt First Nation
Songhees First Nation
Department of National Defence



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July 2026

CORE AREA STORMWATER QUALITY PROGRAM
2025 REPORT

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Terms & Abbreviations

Ag	silver
As	arsenic
$CaCO_3$	calcium carbonate
Cd	cadmium
CCME	Canadian Council of Ministers of the Environment
CFU	colony-forming unit
Cn	contaminant concentration
Cr	chromium
CRD	Capital Regional District
Cu	copper
d/s	downstream
DIS	dissolved state
DND	Department of National Defence
ENV	BC Ministry of Environment and Parks
EPT	Ephemeroptera (mayflies), Plecoptera (stoneflies), and Trichoptera (caddisflies)
FC	fecal coliform
HBI	Hilsenhoff Biotic Index
Hg	mercury
HPAH	high molecular weight polycyclic aromatic hydrocarbons
ISQG	Interim Sediment Quality Guidelines
LPAH	low molecular weight polycyclic aromatic hydrocarbons
LWMP	Liquid Waste Management Program
MSQG	Marine Sediment Quality Guidelines
NH_3	ammonia
NO_2	nitrite
NO_3	nitrate
PAH	polycyclic aromatic hydrocarbon
Pb	lead
PEL	probable effects level
QA/QC	quality assurance/quality control
SPSO	sewage pump station overflow
SQG	sediment quality guidelines
TOC	total organic carbon
TOT	total state
TEU	toxic equivalent unit
u/s	upstream
WQG	water quality guidelines
Zn	zinc

CORE AREA STORMWATER QUALITY PROGRAM
2025 REPORT

1.0 INTRODUCTION

The Capital Regional District (CRD) Stormwater Quality Program (Program) works to identify and reduce contamination in stormwater, creeks and the ocean through monitoring, assessment, collaboration and education. This work fulfills commitments in the Core Area Liquid Waste Management Plan (LWMP) and is done in partnership with participating municipalities and First Nations, with the goal of protecting human health and the environment. Program results are communicated to the participating partners and reports are available on the CRD website (www.crd.ca).

The program assesses stormwater discharges in the core area and assigns priority ratings for mitigative action for municipalities to consider. CRD staff identify contamination and impacts from stormwater through bacterial and chemical sampling. Where contamination is found, CRD staff work with municipal staff to find and eliminate the source. The storm drain systems are owned and operated by the municipalities and the municipalities have the responsibility to carry out remedial measures where possible. In addition, CRD staff also conduct sampling in 12 major watercourses and the near-shore marine environment.

This report summarizes the results of work completed in 2025 (early 2026 data is included when possible). Water and sediment quality data, including details about sampling locations and how discharges are rated for public health and environmental concern, are available in the Appendices. A summary of CRD educational and outreach activities as well as coordination of municipal, watershed or waterbody-focused groups related to pollution prevention, and environmental protection is provided in Section 3.0.

2.0 RESULTS AND DISCUSSION

2.1 Stormwater Discharge Evaluations

The Program evaluates water and/or sediment quality in approximately 550 core area stormwater discharges from the coastline between the Colwood-Metchosin border in the west and the Saanich-Central Saanich border in the east, including Esquimalt Lagoon, Esquimalt and Victoria harbours, the Gorge, Portage Inlet and the City of Langford coastline along Saanich Inlet (see Appendix A for locations).

2.1.1 Public Health Ratings

Each year, CRD staff sample a selection of stormwater discharges for analysis of bacterial levels. *E.coli* is measured as an indicator of fecal contamination and possible presence of pathogens.

Staff assign a “public health concern rating” to each discharge based on the level of *E.coli* contamination in the discharge flow and the potential for the public to contact the flow. While the CRD does not evaluate public health risk, ratings are used to prioritize remedial and monitoring efforts. This service allows jurisdictions to prioritize remedial measures where they will have the most benefit on public health. Appendix G describes the CRD public health concern rating methods.

In 2025, CRD staff sampled 179 stormwater discharges for *E.coli* concentrations twice (winter and summer). As in previous years, this included discharges previously rated as high- and moderate-priority (37% of the discharges sampled), with a subset of low-priority discharges (to monitor change).

Fifty-nine percent of the discharges exhibited low *E.coli* counts (below 400 colony forming units (CFU)/100 mL. The other 41 percent exhibited *E.coli* counts above 400 CFU/100 mL, a level that indicates sources of sewage or animal waste with potential to cause adverse effects for public members engaging in primary recreational activities (e.g., swimming, diving). However, many of these discharges had low flows or are located where there is little risk of public contact. Considering the likelihood of public contact, staff assigned the following public health concern ratings to facilitate prioritization:

- 110 low ratings
- 40 moderate ratings
- 29 high ratings (Table A, Figure B)

The number of high-rated discharges for public health has decreased over time (see Figure A). The decreasing trend highlights work done by CRD staff to identify contamination and the ongoing efforts by the municipalities to replace, repair and reline ageing conveyance infrastructure, and the work carried out with property owners to repair sewage to stormwater cross-connections and aging private lateral pipes.

While the trend has decreased, the number of high-rated discharges increased in 2023 and 2024 but remained the same in 2025 (Figure A and Table A). While some sources of contamination have been eliminated or mitigated, ongoing monitoring efforts continue to identify new sources. 2024 and 2025 monitoring data measured seven newly found sources of contamination. CRD staff will work to narrow down the sources in 2026.

Conversely, lower bacterial counts were measured in four of the high-rated discharges in 2025 resulting in lower ratings. Continued decline is challenging due to aging wastewater and stormwater conveyance infrastructure. Additionally, privately owned lateral pipes, building development, and renovations create the potential for new stormwater-sewage cross-connections.

Of the 28 high-rated discharges in the core area, 18 have remained high-rated for at least five years. The sources of contamination in these discharges are challenging or costly to repair or remediate. Many of these discharges have multiple sources of contamination in a single catchment, adding difficulty to finding the source of contaminants.

Public health concern ratings for each discharge and bacterial stormwater data can be found in Appendices B and C.

Figure A. Number of Discharges Assigned a High Public Health Concern Rating Over Time

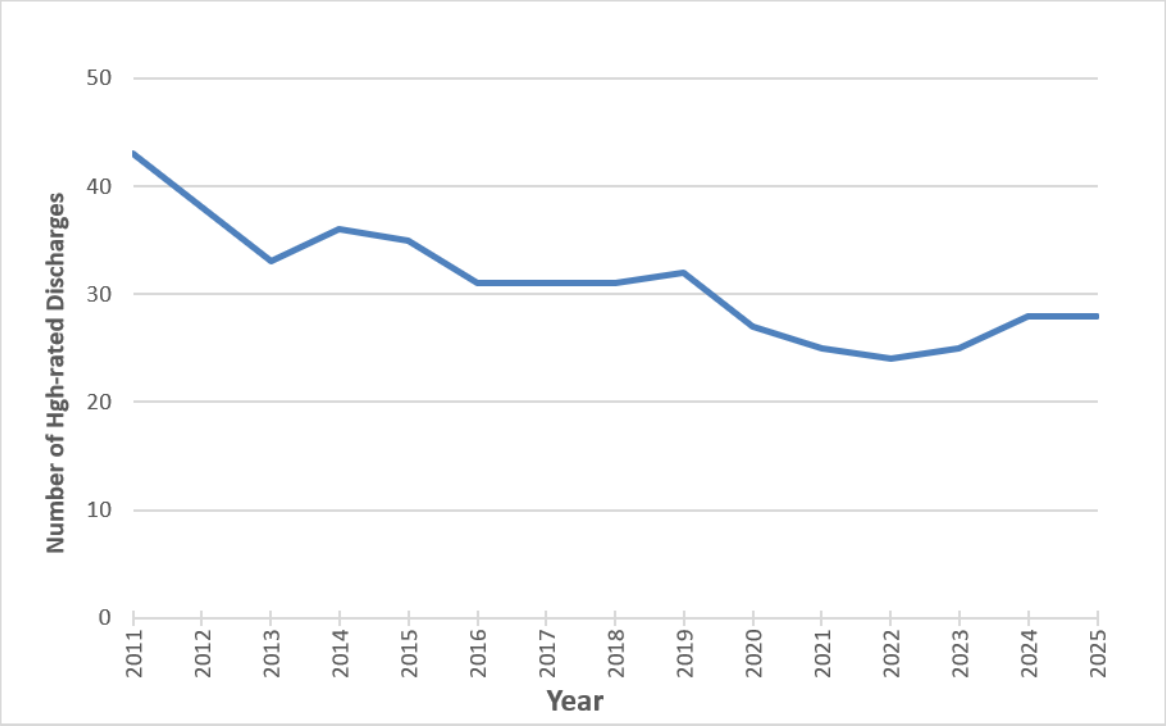


Table A. Number of Discharges with a High Public Health Concern Rating from 2011 to 2025

Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Number of Discharges Assessed	(186)	(114)	(150)	(142)	(152)	(164)	(167)	(168)	(175)	(180)	(175)	(183)	(166)	(195)	(179)
Colwood	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
View Royal	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Esquimalt	7	7	8	7	5	6	6	7	5	4	3	4	5	5	6
Esquimalt private[1]	*	*	0	0	1	0	2	1	1	0	0	0	0	0	0
Saanich	2	3	4	5	5	6	4	1	3	4	4	2	1	2	1
Saanich private[1]	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Victoria	20	17	13	12	14	11	11	15	14	13	12	13	15	15	16
Victoria private[1]	3	1	1	2	2	2	2	1	1	1	0	0	0	1	1
Oak Bay	9	9	7	9	8	6	6	5	6	5	6	3	4	5	4
Langford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**43**	**38**	**33**	**36**	**35**	**31**	**31**	**31**	**31**	**27**	**25**	**22**	**25**	**28**	**28**

Notes:
[1] Discharges that are not part of the municipal infrastructure are not under municipal jurisdiction and are separated out from the municipal totals.
*Private discharges included in the municipal totals.

Table B. Stormwater Discharges Assigned a High Public Health Concern Rating in 2024 and 2025

Jurisdiction	Stormwater Discharges Rated High for Public Health Concern	
	2024	2025
City of Colwood	-	-
Township of Esquimalt	744B, 781, 805, 806, 814	744B, 781, 805, 806, 812, 814
Township of Esquimalt – private[1]	-	-
City of Langford	-	-
District of Oak Bay	245, 307, 318, 320, 322	244, 245, 307, 320
District of Saanich	503, 671	503
City of Victoria	209, 216, 222, 230, 603, 607, 610. 611, 613, 614, 619, 641, 650, 758A, 777A	209, 212, 216, 222, 230, 607, 610. 611, 614, 619, 641, 649 *, 650, 757A, 758A, 777A
City of Victoria – private[1]	645A	645A
Town of View Royal	-	-
Esquimalt First Nation	-	-
Songhees First Nation	-	-

Notes:
[1] Discharges that are not part of the municipal infrastructure are not under municipal jurisdiction. Refer to Figure B and Figure C for stormwater discharge locations.

- This storm drain pipe is not part of the municipal stormwater system, but there may be a direct connection from City of Victoria's sewage system to this discharge.

2.1.2 Environmental Concern

Through monitoring and ratings, CRD staff also prioritize stormwater discharges based on their potential for environmental impact. Data and priority listings are provided to local governments, who are responsible for addressing high-rated discharges based on their own priorities.

Environmental concern ratings are based on concentrations of metals and organic contaminants (polycyclic aromatic hydrocarbons [PAH] relative to sediment quality guidelines (for the protection of marine aquatic life). Contaminants are measured in sediment within the stormwater collection system (e.g., manholes, ditches and creeks). Discharges are sampled for consecutive years until the rating and contaminant(s) are considered confirmed through repeated findings. Once confirmed, the discharge is targeted for corrective action starting with an investigation to locate the contaminant source(s). Appendix G contains detailed information about the CRD environmental concern rating system. Stormwater sediment data and ratings can be found in Appendix E.

In 2025, CRD staff collected 8 stormwater sediment samples in the Core Area. Based on the concentrations of metals and PAHs, this data resulted in environmental concern ratings for 6 discharges, as follows:

- 4 were assigned a low rating,
- 1 was assigned a moderate rating,
- 1 was assigned a high rating.

Discharge 929 in Esquimalt Lagoon was assigned a high rating due to elevated zinc in sediment samples. In addition, water samples exhibited elevated aluminum, cadmium, copper and zinc. The discharge drains Pit House Park on Esquimalt Lagoon, and no upstream sources were identified. For this reason, the source is likely from historical practices. The Royal Navy operated a rifle range on Coburg Peninsula during the 1880's and the site continued to be used as a rifle range by the Royal Roads military college into the 20th century (Historical Timeline | City of Colwood).

While only one discharge was high-rated in 2025, several discharges are considered high-priority due to contamination found in previous years. These discharges are on the Corrective Action List described below.

CORRECTIVE ACTION LIST

CRD staff make recommendations for corrective action to find and eliminate sources of chemical contamination in a catchment when a rating remains high for two consecutive years, and the parameter(s) of concern are confirmed. Based on data up to 2025, there are 14 discharges requiring corrective action in the core area (shown in Table C). Locations of discharges identified for corrective action are shown in Figure B.

The number of discharges recommended for action has dropped from 21 in 2020 to 14 in 2025 due to removal of contaminated sediment in the collection system and inclusion of aqueous data in locations where sediment could no longer be found.

Most of the remaining discharges have been a concern for more than ten years. Several are characterized by large catchments with industrial and commercial land use. Others are located along shorelines where historical practices or contaminated fill deposit may have resulted in contamination (e.g., discharges 614, 620, 627, 629). Spills are more common in these areas as well. City of Victoria is working to upgrade stormwater infrastructure in the Rock Bay catchment in upcoming years with the goal to lower contaminant levels in those discharges 627 and 629.

2.1.3 Aqueous Contaminants in Stormwater Discharges

CRD staff measured contaminants in water to provide more information about contaminant concentrations, sources, bioavailability, loadings, and to determine if a source is ongoing or dependent on precipitation. Data showing average concentrations of aqueous metals collected since 2023 is provided in Appendix E.

Data was compared to British Columbia's (BC) Approved and Working Water Quality Guidelines (WQG(s)) for protection of marine aquatic life. While these guidelines are intended for the marine receiving environment, they were used as a screening tool to identify elevated levels of contaminants in stormwater entering the marine environment. Approved guidelines were available for seven metals and working guidelines were available for three metals. The following results were found in samples collected from 164 core area discharges from 2023 to 2025:

- Copper and zinc are the contaminants most often elevated above the BC WQGs.
- Average copper concentrations were elevated above the average marine WQG of 2 µg/L in 81% of discharges while zinc was elevated above the average WQG of 10 µg/L in nearly 47% of discharges (see Appendix E, Table 5).
- One or more PAHs were detected in 30% of the discharges (see Appendix E; Table 6),
- 82% of discharges measured did not exceed the PAH WQGs. Pyrene and benzo(a)pyrene were the PAHs most often above guidelines.
- Stormwater discharges along Victoria Harbour had the highest concentrations of metals and PAHs. The highest concentrations of metals and PAHs occurred in stormwater discharge 629 (Rock Bay). CRD and City of Victoria staff identified a business waste discharge along Hillside Avenue and are working with the owner to prevent further contamination. Recent samples indicate that aqueous metals concentrations have been reduced, however metals are still elevated above aquatic life guidelines in this catchment.

While the impact of these stormwater discharges on the marine environment is uncertain, CRD staff have measured elevated zinc and copper in three locations in the marine receiving environment adjacent to storm drains in Victoria Harbour (between Belleville Street and Jutland Road).

Table C. Discharges Recommended for Action in 2025 Due to Elevated Sediment Chemical Contaminant Concentrations Over Time

Jurisdiction	Discharges Recommended for Corrective Action	Total
City of Colwood	-	0
Township of Esquimalt	742, 749, 806	3
Township of Esquimalt – private[1]	-	0
City of Langford	6006	1
District of Oak Bay	307	1
District of Saanich	-	-
District of Saanich – private[1]	-	-
City of Victoria	603, 614, 620, 627 629, 633, 634, 636	8
City of Victoria – private[1]	649	1
Town of View Royal	-	0
DND	-	0
Total		**14**

Notes:
[1] Discharges that drain from private property do not fall under municipal jurisdiction.

STORMWATER SOURCE CONTROL

In the Core Area, the CRD does not have the authority to regulate the release of contamination into the municipal storm drain system. However, the CRD and core area municipalities continue to work together to identify and eliminate potential sources of contamination for discharges of concern. In addition, the CRD source control education program increases awareness of products used on commercial and private sites that have the potential to leach into surrounding waterways. CRD outreach and education activities for 2025 are discussed in Section 3.0. Educational materials can be found on the CRD website at: Stormwater | Capital Regional District.

On the Saanich Peninsula, the CRD does provide a regulatory service on behalf of Central Saanich, North Saanich and Sidney called the Saanich Peninsula Stormwater Source Control Service. The goals of the service are to prevent release of contamination into the municipal stormwater drainage system through education, maintenance of catch basins, appropriate business practices, proper disposal of waste and enforcement.

Figure B. Core Area 2025 Stormwater Discharges Requiring Action for Public Health and Environmental Concerns (Metchosin to Esquimalt Border)

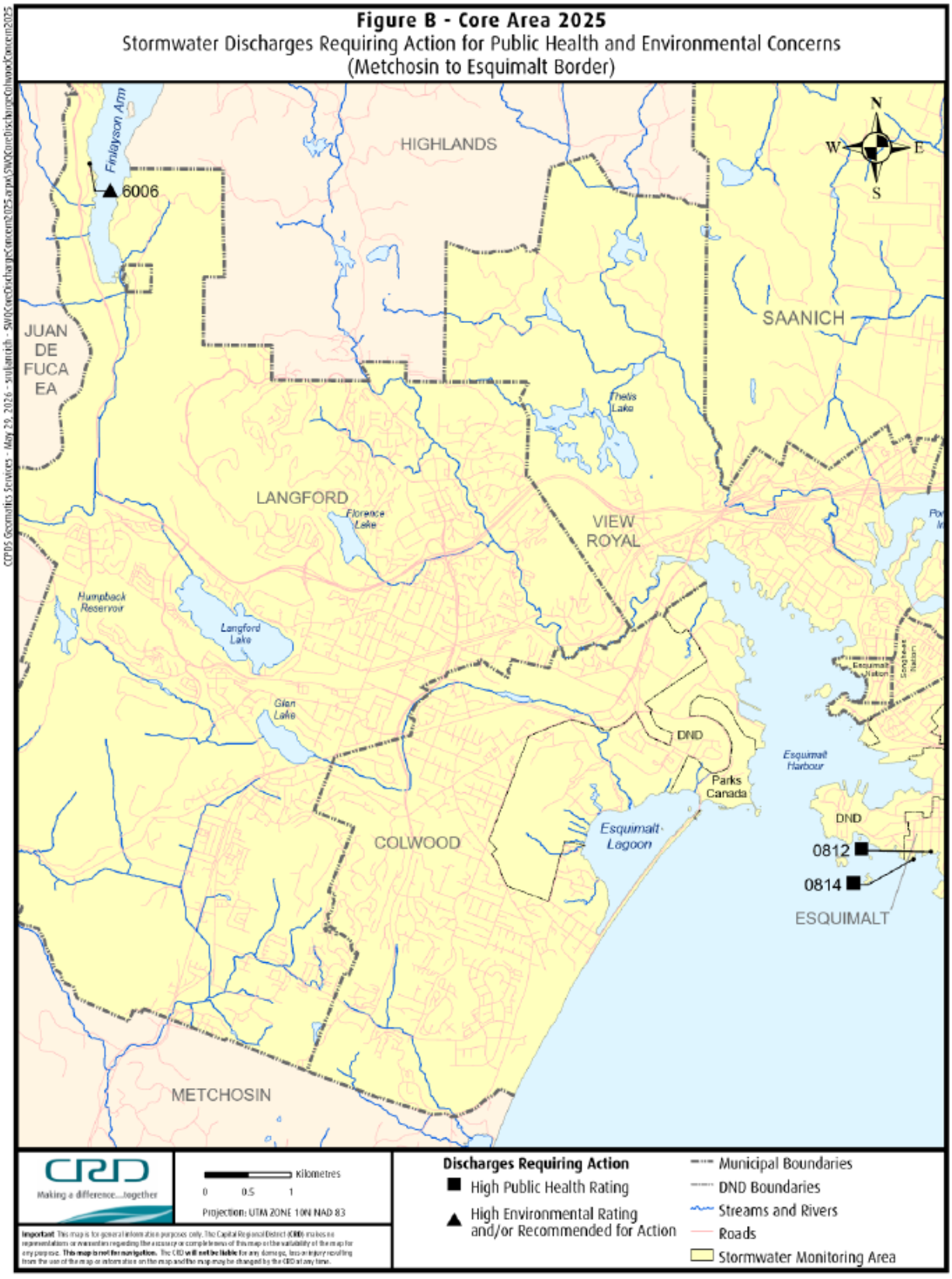


Figure C. Core Area 2025 Stormwater Discharges Requiring Action for Public Health and Environmental Concerns (Esquimalt to Central Saanich Border)



2.2 Contaminant Source Investigations

In 2025, CRD staff conducted contaminant and spill investigations in the catchment areas of 12 stormwater discharges. The results of these investigations are presented in Table D.

CRD and municipal staff found or narrowed down seven sources of contamination in the stormwater system. This resulted in the identification of a sewage-stormwater cross-connection (since repaired by Saanich), a long-standing cross-connection (to be fixed),two sources of business waste in Victoria (since ceased), an area of historical contamination in Colwood, and identification of a spill in Victoria (ceased and cleaned up). All sources have ceased or been repaired, except for the cross-connection in 649 (details to follow) and the historical contamination around Esquimalt Lagoon. Five of the investigations are ongoing due to the presence of multiple contamination sources, lower bacterial counts, or lack of flows available to sample.

Table D. 2025 Summary of CRD Stormwater Contaminant Source Investigations in the Core Area

Discharge #	Municipality	# of Sampling Events	Investigation Status
227	Victoria (Wildwood Ave)	3	Ongoing; multiple sources
250	Oak Bay (McNeil Bay)	1	Ongoing; bacterial counts low; PAH detected but low; multiple sources.
310	Oak Bay (Oak Bay Marina)	1	Complete; contaminants not detected upstream spill.
316	Oak Bay (Bowker Creek)	3	Ongoing; sewage overflow due to heavy rainfall, multiple sources.
626	Victoria (Rock Bay)	2	Complete/Ongoing; business source found; contaminants lower; ongoing for other sources.
629	Victoria (Rock Bay)	1	Complete/Ongoing; business source found; contaminants lower but still elevated; City of Victoria working with business owner; other smaller sources in catchment.
649	Victoria (Gorge)	2	Complete: Property and location narrowed down. CRD and COV staff identified a possible cross-connection from the COV sewer to a private storm drain. Repairs need to be done.
671	Saanich (Gorge)	2	Complete; cross-connection found and repaired
744B	Esquimalt (Gorge Creek)	3	Ongoing; Esquimalt fixed a source, replaced and relined sections of pipe in 2023; other sources exist.
757A	Victoria (Banfield Park)	2	Complete; oil spill identified and stopped. Bacteria counts fluctuate. Follow-up monitoring to be done in 2026
758A	Victoria (Banfield Park)	1	Ongoing; inconclusive; flow intermittent; no sediment available; sewer worms found
929	Colwood (Esquimalt Lagoon)	2	Complete; elevated metals narrowed down to Pit House Park, source likely historical contamination.

Discharge 629

Investigations in recent years in the catchment of discharge 629 (Rock Bay) showed upstream copper measurements that were more than 10,000 times greater than British Columbia Ministry of Environment

and Parks WQG for the protection of marine aquatic life. Concentrations of aluminum, cadmium, chromium, iron, lead and zinc were 10 to 100 times greater than guidelines. CRD and City of Victoria staff found and reduced a source of business waste that was being discharged into the stormwater system.

Many of the discharges with elevated metals are in large catchments with commercial/industrial land use and along shorelines where historical practices or contaminated fill may have resulted in contamination (e.g., discharges 614, 620, 627, 629, 634, and 636). Spills are more common in these areas, and due to the intermittent nature and often small volumes, are challenging to narrow down and remediate.

Gorge Waterway Spill – July 2025

A sewage spill into the Gorge Waterway occurred July 2025 through stormwater discharge 649 that drains the Gorge Road Health Centre. This discharge is not connected to the City of Victoria stormwater system. CRD sewage main work required a sewage bypass into City of Victoria's sewage pipe. However, at high volumes, sewage then backed up into storm drain 649 and was discharged into the ocean over several hours. CRD and City of Victoria's investigations show a possible "connector" pipe in the City of Victoria sewage main that is likely cross connected to the storm drain. City of Victoria and Island Health staff are working on further identifying and resolving the issue.

CRD stormwater data indicate that this pipe has been discharging elevated bacteria since regular monitoring began in 1992 and it has been rated high for public health concern for 20 of those years. This incident has revealed the cross-connection in this discharge, and it is anticipated that it will result in a long overdue repair.

2025 City of Victoria Sustainability Scholar Program

One of the City of Victoria's most significant operational interventions for stormwater quality is its street sweeping program, which has expanded substantially over the past seven years. The program operates at a higher frequency than most Canadian municipalities

In 2025, the City engaged a University of Victoria (UVIC) student as part of UVICs Sustainability Scholar Program to comprehensively evaluate the effectiveness of street sweeping and catch basin design on water quality. CRD staff assisted by collecting street sweeping, catch basin and stormwater discharge data in two catchments with different land uses (227: residential and 629: business/light industrial).

The study results and conclusions are summarized below:

- Industrial land uses in catchment 629, have led to higher frequency and severity of contaminant releases (metals and PAHs) relative to primarily residential catchments such as catchment 227. However, contaminant concentrations in water have generally been trending downwards in catchment 629 since 2013.

- The concentration of PAHs in catch basins with inverted tees were consistently higher than those without inverted tees. This suggests that the addition of inverted tees to catch basins is an effective strategy and economical retrofit option for retaining PAHs within the catch basin to reduce downstream transport.

- The concentration of metals and PAHs in street sweeping debris were consistently lower than the concentrations in the catch basins, likely due to significantly longer periods for accumulation in catch basins.

- The concentrations of contaminants in street sweeper debris were similar in both catchments even though catchment 227 was swept once per week and catchment 629 was swept daily. This demonstrates the importance of more frequent street sweeping in catchments with industrial land uses aligning with the City's current practices.

It was unclear whether the downward trend in contaminants in discharge 629 was the result of more extensive source control efforts by the CRD and City of Victoria, adoption of the City of Victoria's Stormwater Codes of Practice, increased education for business owners and community members, or other factors.

This study demonstrates the importance of the City of Victoria's extensive street sweeping program in helping to reduce contaminant loading into the storm drain, particularly in industrial areas. However, more work is needed to improve the discharge water quality from catchment 629. Efforts should focus on source control and ensuring compliance with City Bylaws. Further outreach and education can help increase the understanding of impacts and implications of prohibited discharges and how to prevent, respond to, and report spills.

2.3 Major Watercourse Monitoring

CRD staff monitor watercourses to provide information about watershed health to internal CRD, provincial and municipal staff, community groups and the public. In 2025, CRD staff continued to monitor Bee, Bowker, Cecelia, Colquitz, Colwood, Craigflower, Douglas, Hospital, Noble, Selleck and Todd creeks, Goldstream River and Mill Stream. See Appendix F for the watercourse data.

Each year, staff collect water quality data twice at the discharge of each creek, providing a snapshot of creek health conditions in the wet and dry seasons. In addition, staff conduct more comprehensive watershed health assessments in two to three core area watercourses each year, with the goal of assessing each watercourse in this manner every five years.

In 2025, CRD staff assessed the health of Goldstream River and Douglas Creek watersheds more comprehensively through the following activities:

- measurement of water quality at least 5 times in 30 days in both summer and fall at various locations in the watersheds;
- measurement of additional water quality parameters, including metals; and
- collection of benthic invertebrate animals for assessment of biological community health.

CRD water quality data is compared to the BC WQG for the protection of freshwater aquatic life. This data is also compared to data from the previous 5-in-30 assessment. Benthic invertebrate data is submitted to the Canadian Aquatic Biomonitoring Network (CABIN).

2.3.1 Watershed Monitoring Data

CRD data indicate that the water quality parameters of most concern in core area creeks are bacteria, phosphorus, turbidity and metals. Some sites also experience low dissolved oxygen and elevated temperature in the summer. This is consistent with what is seen throughout the region wherever there is increased anthropogenic activity. The BC water quality objective for Vancouver Island streams for phosphorus was exceeded in all CRD creeks. This is likely due to human and animal activities in these watersheds.

DOUGLAS CREEK

Water Quality and Benthic Invertebrate Data

The Douglas Creek watershed lies entirely within the municipality of Saanich. Weekly data collected over the summer and fall in Douglas Creek indicated that urban residential land use continues to impact water quality. The parameters of concern were consistent with those measured in 2016 and 2021 (when the creek was last sampled in this manner). However, the benthic invertebrate community data indicated watershed health continues to decline. Observations of intermittent increased flows and turbidity unrelated to precipitation suggests that spills or water main flushing may be impacting the watershed.

As in previous years, the parameters that exceeded BC WQGs were bacteria (*E.coli*) metals (copper, iron and zinc), phosphorus, suspended solids, temperature and turbidity with more exceedances occurring

upstream at Robinwood Drive. For the first time, average dissolved oxygen fell below the guideline in summer. Also, for the first time staff collected samples for measurement of the tire wear toxin 6PPD-quinone. Exceedances of the 6PPD-quinone WQG occurred in 3 of 8 samples collected in the creek. All 6PPD-quinone samples were collected in fall only and the guideline exceedances occurred during rainfall.

While the parameters of concern remained within similar ranges as previous years' data, some changes were identified. *E.coli* measurements appear to be decreasing over time and conversely one sampling event was associated with the highest metals concentrations to be measured since 2016.

In 2025, there were intermittent observations of increased flows, turbidity and contaminant concentrations that may have been related to drinking water pipe flushing or spills. One such event occurred on August 13, 2025, at Robinwood Drive, and did not correspond to any recent precipitation. And then on November 20th flows suddenly increased while sampling and flow changed to the upper spillway at Robinwood Drive. During this time water became turbid and the highest measurements of total aluminum, chromium, iron and turbidity were recorded as well as higher concentrations of several other metals. Saanich stormwater staff were informed and indicated that water main flushing may have been occurring.

The benthic community data indicate a decline in watershed health since 2016 and 2021. The 2025 data indicated a further decline in diversity of sensitive species and an increase in pollution tolerant species. The Hilsenhoff Biotic Index (HBI) indicated that Douglas Creek has changed from good condition to fair condition. Increases in the HBI over time signals that the amount of organic and nutrient pollution in the stream may be increasing, based on species distribution and their tolerance to such pollution.

GOLDSTREAM RIVER WATERSHED

Water Quality and Benthic Invertebrate Data

Water quality in Goldstream River was good in 2025 and the benthic invertebrate community data indicated that the river remains healthy at the mouth. The only parameters that exceeded WQG for protection of aquatic life were total phosphorus and dissolved copper. Water quality is poorest in Langford Creek which drains Langford Lake before it inputs into the mainstem of the river. The 2025 Langford Creek data indicates that conductivity and some metals may be increasing at this location but remain below guidelines.

While total phosphorus was elevated compared to the Vancouver Island Objective at both locations in the mainstem of the river monitored in summer, concentrations of total phosphorus often exceed the guidelines if there is any human activity in a watershed. Concentrations are generally lower in Goldstream River than other streams monitored by the CRD, however average phosphorus concentrations marginally increased in 2025 compared to 2021, especially in the upstream location near the campground at Golden Gate Road bridge.

Dissolved copper concentrations are relatively low in Goldstream River relative to other CRD streams. The 2025 data indicates that concentrations have not changed over time and are consistent with background conditions on Vancouver Island. The guidelines for dissolved copper are very low due to naturally low hardness and dissolved organic carbon in the river. Due to the pristine nature of the river, additional inputs of copper that could come from vehicles, spills or improper development practices in the watershed could have adverse effects on fish and other aquatic life in the river.

Poorer water quality was measured in Langford Creek, which drains Langford Lake and runs along the Trans-Canada Highway before entering the main stem of the Goldstream River. The creek is usually dry in summer and in 2025 it started flowing in November, therefore sampling was extended three weeks beyond the other location sampling window to get five data points. This location displayed higher concentrations of several metals, and a few parameters appear to be increasing over time (conductivity, cobalt, magnesium, manganese, nickel and sulphur). Average sulphur and nickel concentration increases were significant, rising 6 times and 20 times respectively since 2016. While data was collected farther into December for the first time, even samples collected in November showed increases compared to 2016 and 2021. Therefore, this location should continue to be monitored for changes.

Benthic invertebrate community data collected at the mouth of the river in 2025 had high diversity and good representation of sensitive taxa. The pollution sensitive species: ephemeroptera, plecoptera and trichoptera (EPT) made up 39.5% of the community. The Hilsenhoff Biotic Index (HBI) increased slightly in 2025 (signaling that the organic and nutrient pollution may be increasing, consistent with the higher concentrations of phosphorus) but the HBI indicates that the river remains in good condition.

HYDROMETRIC DATA

Water quality is important in creeks, but hydrological changes and physical alteration are also important. Therefore, flow data is also collected continuously at fixed hydrometric stations in Cecelia, Colquitz (two sites), Colwood, Bowker and Douglas creeks. Hydrological data is stored in FlowWorks. For access to this data contact stormwater@crd.bc.ca.

In the spring of 2022, CRD staff hired SLR Consulting to conduct in-stream discharge measurements at the flow monitoring locations with the goal to refine or develop (where necessary) stage-discharge curves to ensure they are adequately predicting discharge. The consultants completed the project in March 2025.

3.0 CRD OUTREACH & ENGAGEMENT

The CRD provides coordinated residential and business education programs on behalf of the municipalities to provide consistent messaging around reducing and preventing sources of pollution to stormwater, streams and the ocean.

In addition, the CRD hosts an Inter-Municipal Integrated Watershed Working Group and chairs and coordinates several multi-stakeholder stewardship initiatives in the Core Area: the Gorge Waterway Initiative, Esquimalt Lagoon Stewardship Initiative and the Bowker Creek Initiative. These groups allow participants to share lessons learned and discuss topics related to stormwater pollution prevention and watershed and receiving environment protection and restoration.

In 2025, CRD outreach and engagement included the following activities:

- a multi-media campaign including social media, digital and print components that focused on preventing stormwater pollution and managing rainfall;
- attendance at 22 community events where stormwater education materials were distributed and pollution prevention discussions occurred;
- 4 static displays at community locations i.e., recreation centres on watershed stewardship and stormwater initiatives;
- 39 school watershed programs were delivered to 940 participants, and an additional 5 teachers borrowed the watershed model and education manual;
- 2 Green Stormwater Infrastructure workshops were hosted for municipal staff with 43 in attendance; and
- ongoing Harbours Stewardship Speaker Series events which were open to the public and focus on topics related to sustainable development, natural assets, ecology and stormwater management.

4.0 CONCLUSION

The 2025 CRD Stormwater Quality Program findings indicate that long-term efforts to identify, investigate, and reduce stormwater contamination continue to produce measurable benefits for public health and environmental protection. Public health monitoring showed that the majority of assessed stormwater discharges had low bacterial contamination, while the number of discharges assigned a high public health concern rating remained lower than historical levels. This sustained improvement reflects the value of coordinated monitoring, contaminant source investigations, infrastructure upgrades, and remediation of

sewage-stormwater cross-connections undertaken by the municipalities and the CRD. However, new sources of contamination continue to emerge, highlighting the ongoing challenges associated with aging infrastructure, private lateral connections, urban development, and diffuse contamination sources.

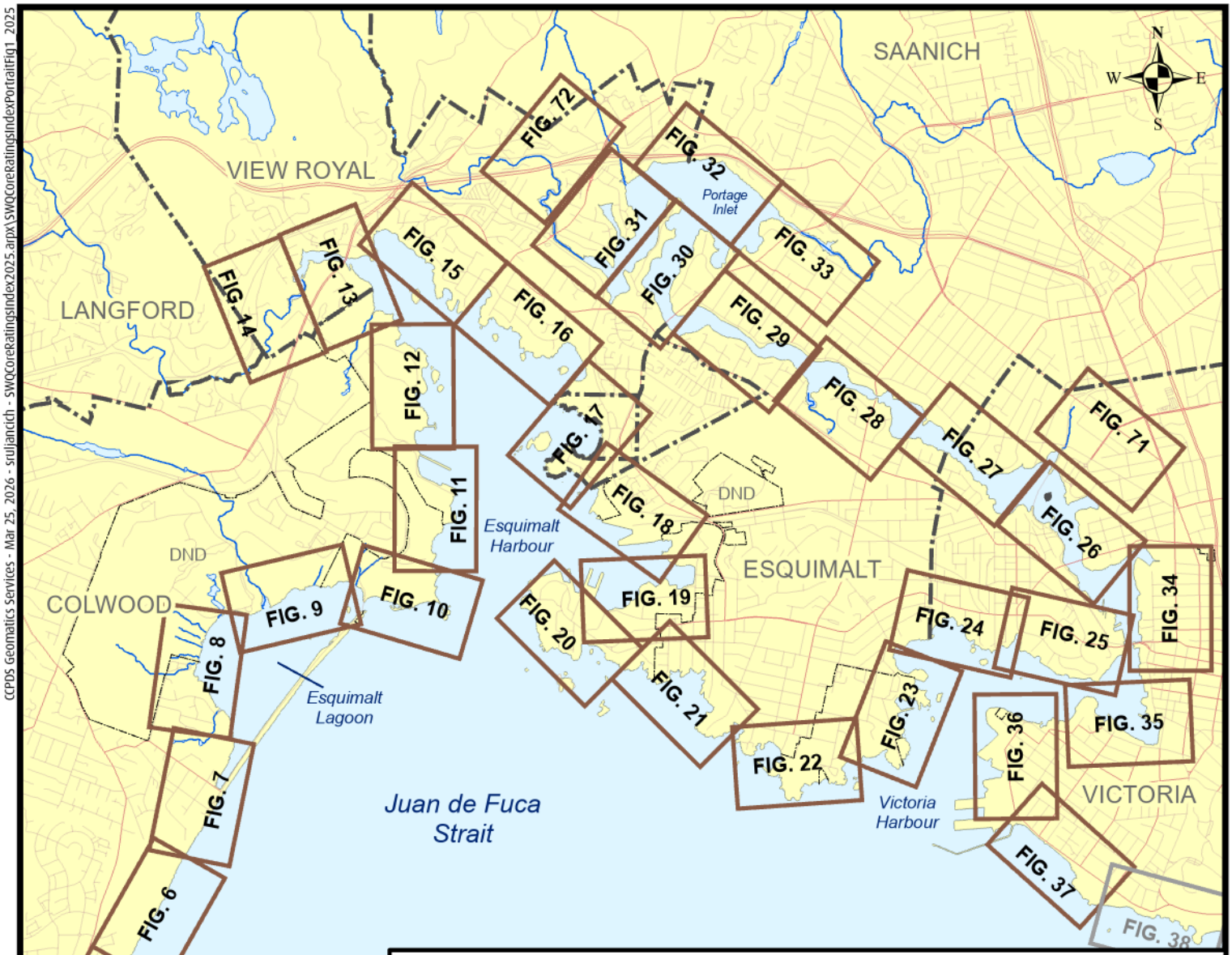
Environmental contaminant monitoring demonstrated that although relatively few discharges currently receive high environmental concern ratings based on stormwater sediment, elevated concentrations of aqueous metals and other contaminants remain in several urban and industrial catchments. Copper and zinc remain the most widespread contaminants in stormwater, and a number of discharges continue to require corrective action due to longstanding contamination associated with historical land uses, industrial activities, spills, and contaminated fill. Targeted investigations conducted in 2025 successfully identified and reduced several contamination sources, and evidence from source control initiatives and municipal maintenance programs suggests that proactive management practices can reduce contaminant loading to receiving environments. However, continued efforts will be required to address persistent hotspots and legacy contamination.

Watershed health assessments further demonstrated the effects of urbanization on watershed health. Goldstream River continued to exhibit generally good water quality and healthy aquatic communities, while Douglas Creek showed signs of declining biological condition and ongoing impacts from urbanization. Elevated nutrients, bacteria, metals, turbidity, and emerging contaminants such as 6PPD-quinone emphasize the importance of continued monitoring and adaptive management. Overall, the 2025 results reinforce the importance of sustained collaboration among the CRD, municipalities, First Nations, businesses, and the public to reduce stormwater pollution, improve watershed health, and protect the region’s freshwater and marine ecosystems over the long term.

In 2026, the Program will continue to work with municipal partners, First Nations and the community to achieve LWMP goals, to identify stormwater discharges of public health and environmental concern and investigate the sources of contamination. CRD staff will continue to work with our partners to reduce pollution in stormwater discharges, creeks and the marine receiving environment. Focused water quality and benthic invertebrate sampling will be undertaken in Craigflower and Noble creeks in 2026.

APPENDIX A

LOCATION OF STORMWATER DISCHARGES



CCPDS Geomatics Services - Mar 25, 2026 - srujancich - SWQCoreRatingsIndex2025.arpx\SWQCoreRatingsIndexPortraitFig1_2025

LEVEL OF CONCERN

Sediment Chemical Contaminant Rating*

- HIGH - Mitigative Measures Required
- MODERATE - Surveillance Required
- LOW - No Action Required

Public Health Rating*

- HIGH - Mitigative Measures Required
- MODERATE - Surveillance Required
- LOW - No Action Required
- NR - NOT RATED - Insufficient Data
- NV - NOT VISITED

0521 Site ID number
(2004) (Year Sampled)

* Only the most recent ratings are displayed in the figures.
See Appendix G for CRD Rating System.

Public Use of Shoreline

High | Moderate | Low

SEG 4 Shoreline Segment Number

- Stream/Ditch**
- Culvert**
- Strom Drain Pipe**
- Lake/Pond/Reservoir**
- Wetland**
- Stormwater Catchment**
- Core Stormwater Monitoring Area
- Unsewered Areas

** Based on best known data. May contain errors and omissions.

Colour orthophoto-2025
Lots based on 2026 data.

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Kilometres
0 0.5 1
Projection: UTM ZONE 10N NAD 83

Figure 1 - Core Area 2025
Key Index for Figures 5 - 37, 71, 72 and Legend

- Municipal Boundaries
- DND Boundaries
- Major Roads
- Minor Roads
- FIG. 38 Map Tiles (see adjacent index page)
- FIG. 25 Map Tiles (this index page)
- Streams and Rivers
- Core Stormwater Monitoring Area

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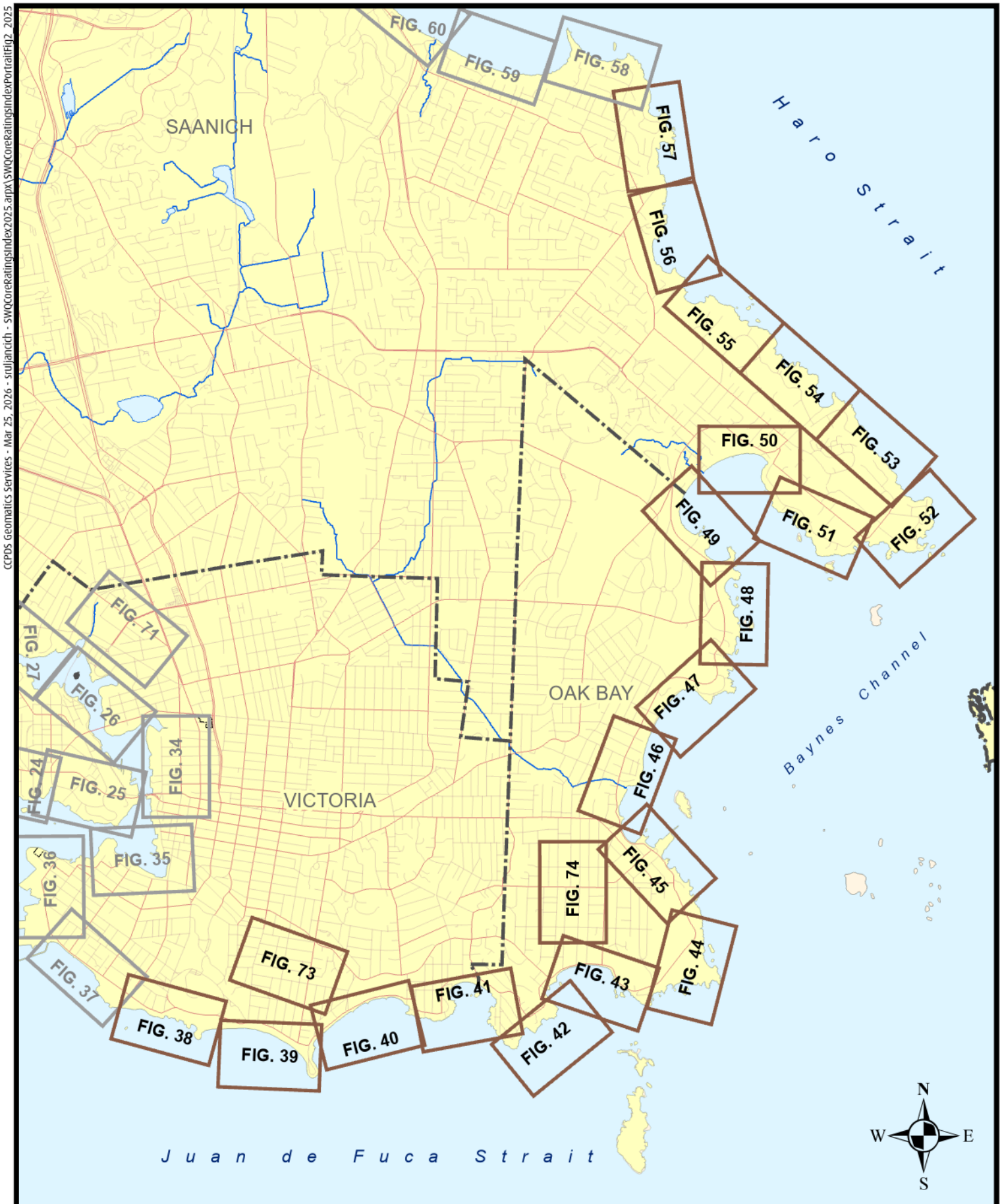

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Kilometres
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Projection: UTM ZONE 10N NAD 83

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Figure 2 - Core Area 2025
Key Index for Figures 38 - 57, 73, 74

- Municipal Boundaries
- DND Boundaries
- Major Roads
- Minor Roads
- FIG. 25 Map Tiles (see adjacent index page)
- FIG. 45 Map Tiles (this index page)
- Streams and Rivers
- Core Stormwater Monitoring Area

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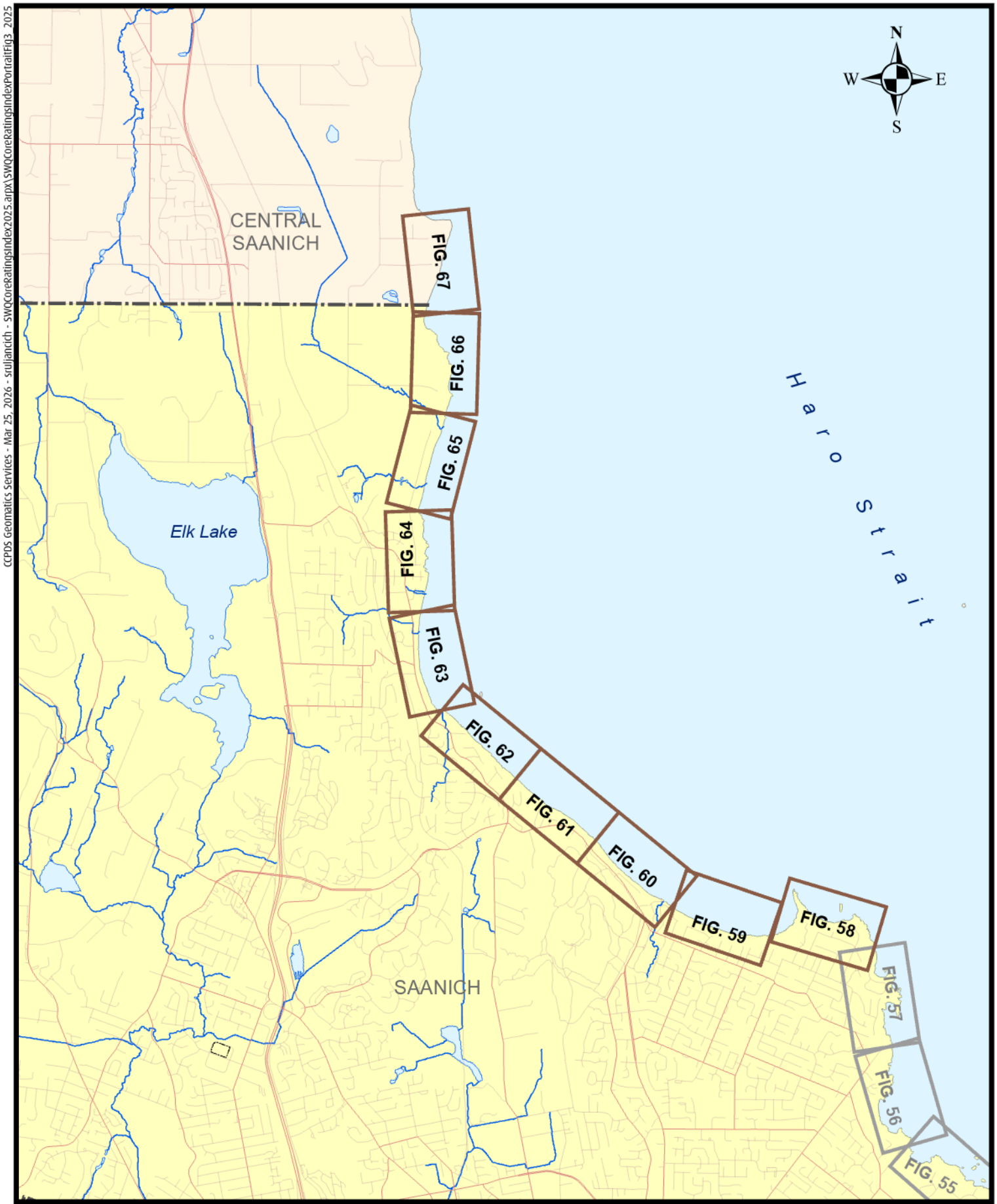

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Kilometres
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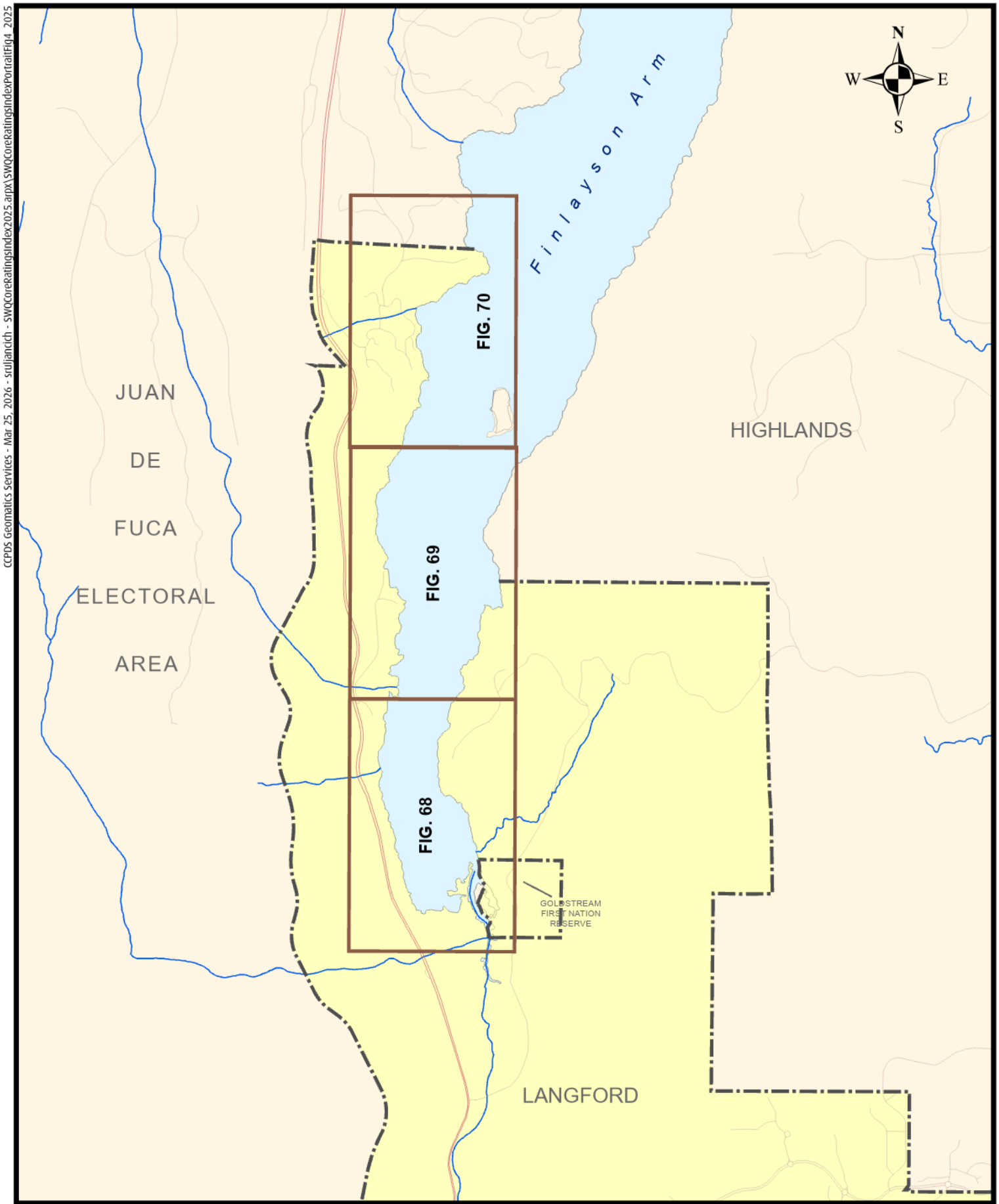
Figure 3 - Core Area 2025
Key Index for Figures 58 - 67

- Municipal Boundaries
- DND Boundaries
- Major Roads
- Minor Roads
- FIG. 54 Map Tiles (see adjacent index page)
- FIG. 60 Map Tiles (this index page)
- Streams and Rivers
- Core Stormwater Monitoring Area



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Kilometres
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Projection: UTM ZONE 10N NAD 83

Figure 4 - Core Area 2025
Key Index for Figures 68 - 70

Municipal Boundaries
Major Roads
Minor Roads
FIG. 68 Map Tiles (this index page)
Streams and Rivers
Core Stormwater Monitoring Area

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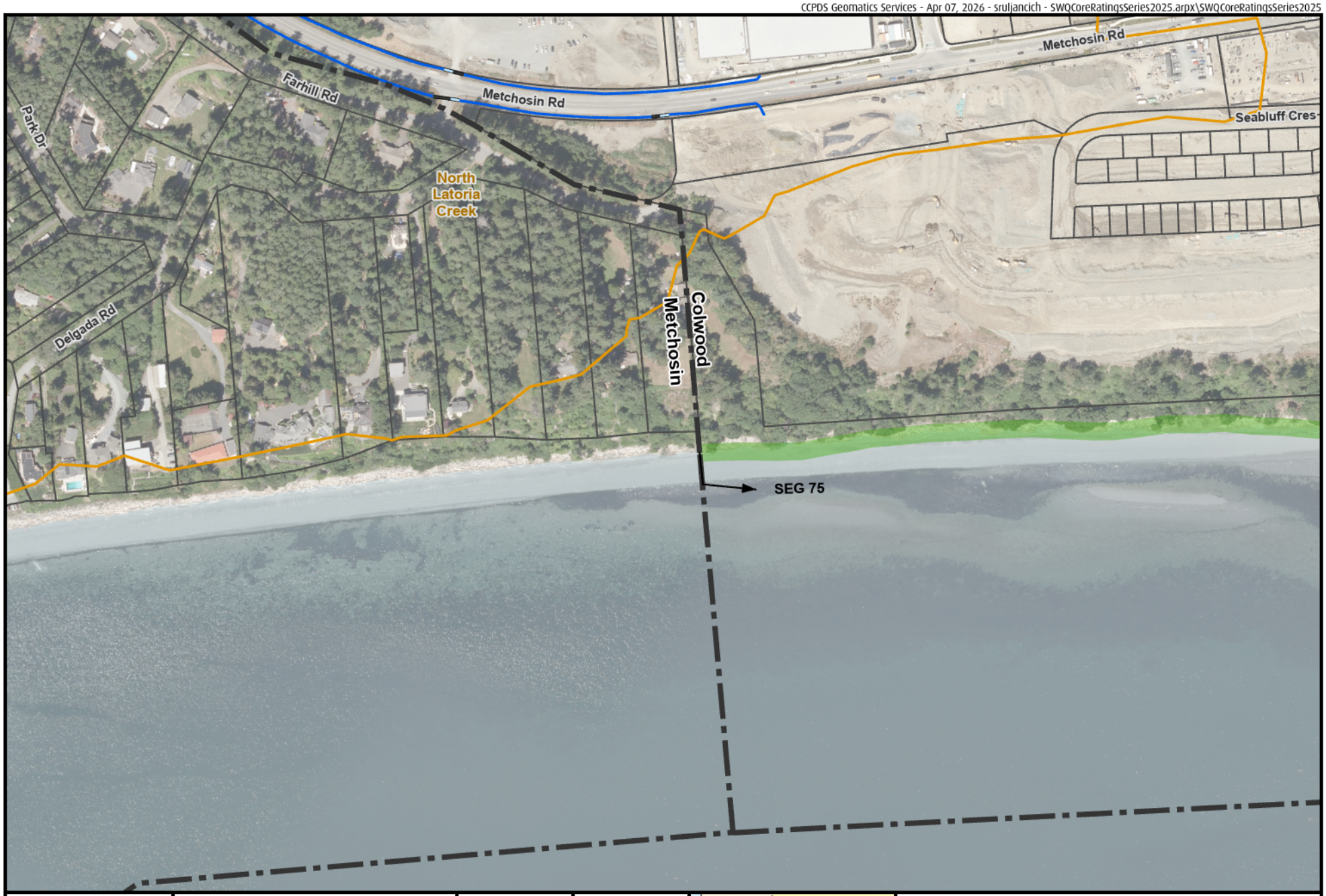

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For Legend See Figure 1

For Area Key Index See Figure 1

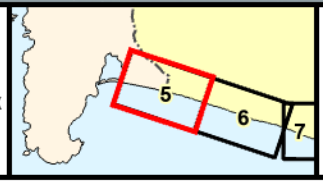
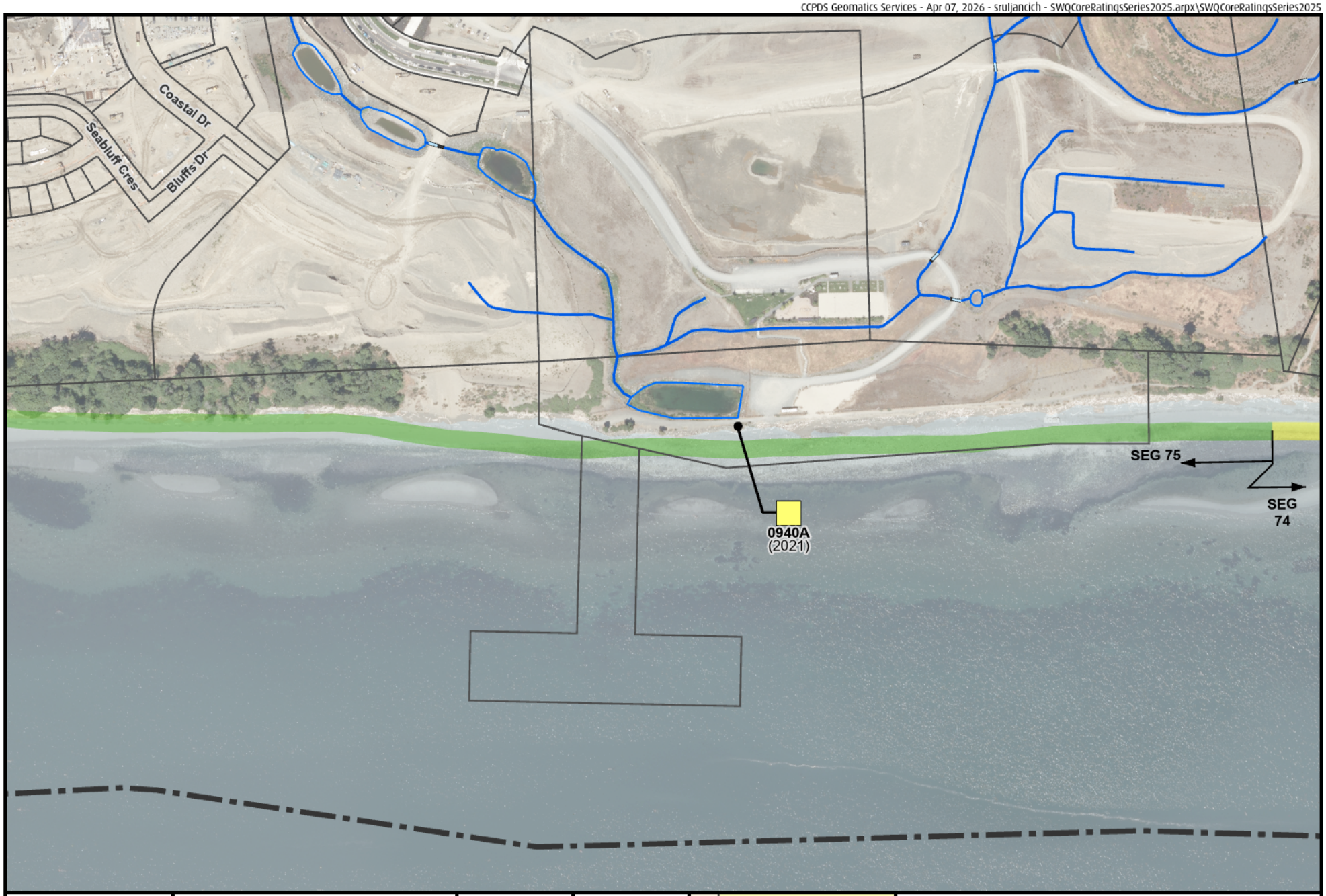


Figure 5

Stormwater Discharge Location and Level of Concern



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For Area Key Index See Figure 1

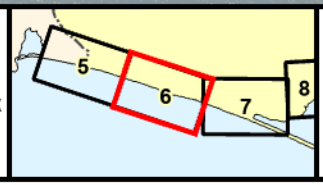
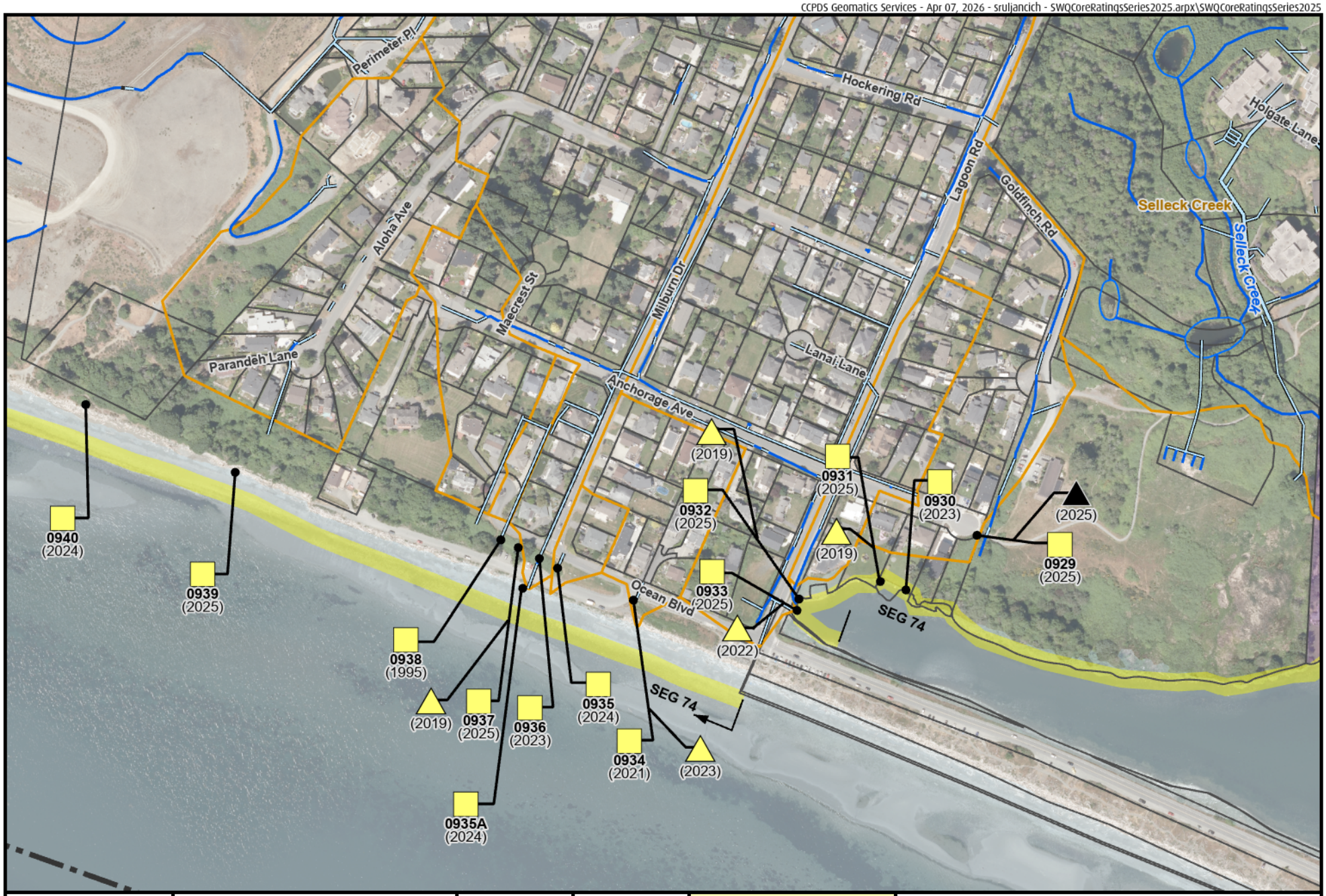


Figure 6

Stormwater Discharge Location and Level of Concern



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For Area Key Index See Figure 1

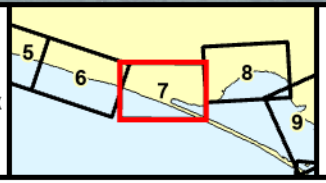
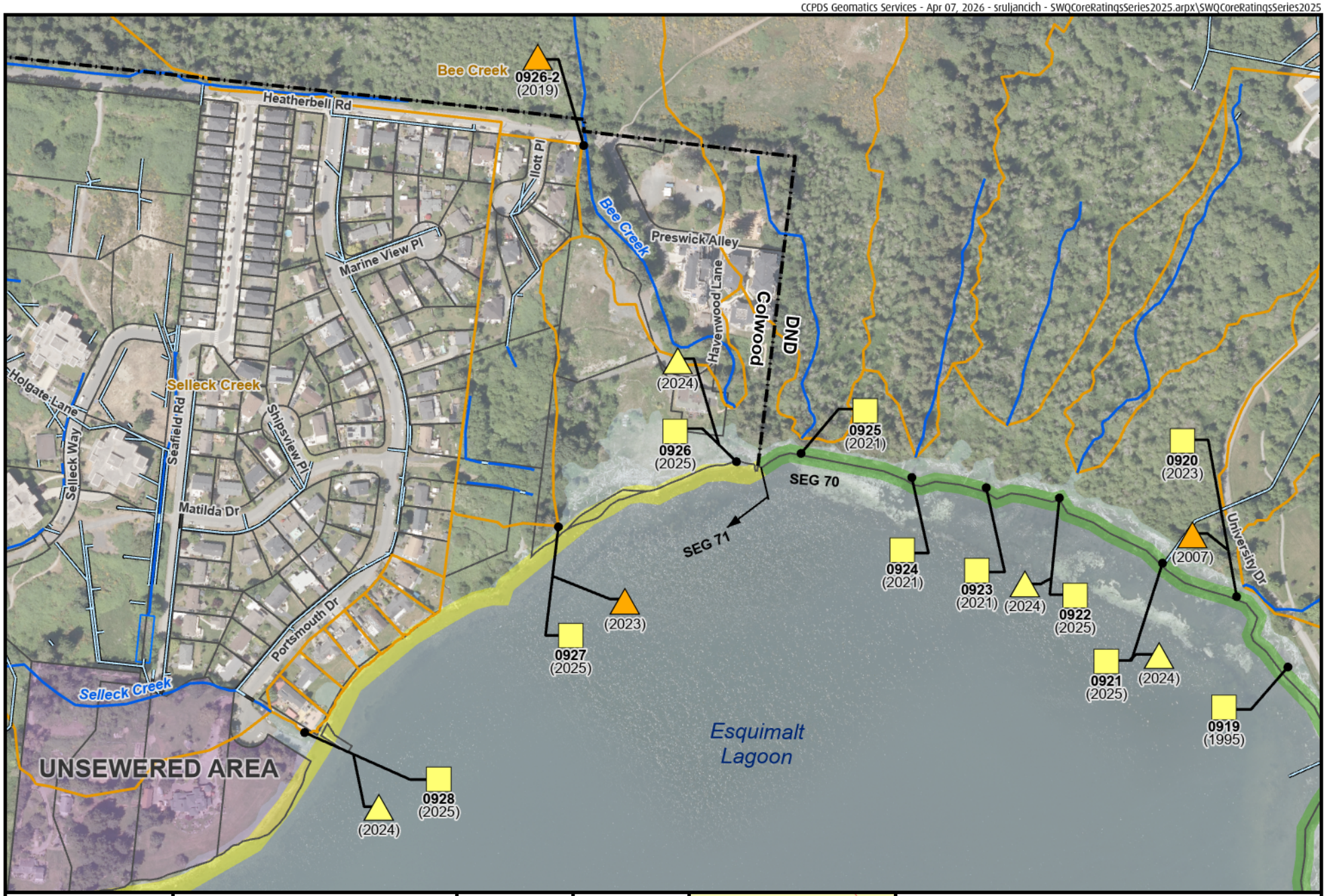


Figure 7

Stormwater Discharge Location and Level of Concern



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For Area Key Index See Figure 1

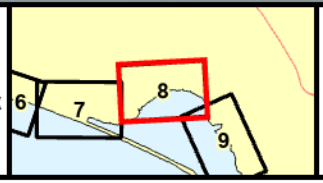

Figure 8

Stormwater Discharge Location and Level of Concern



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For Area Key Index See Figure 1

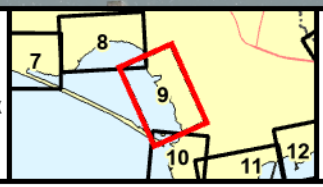
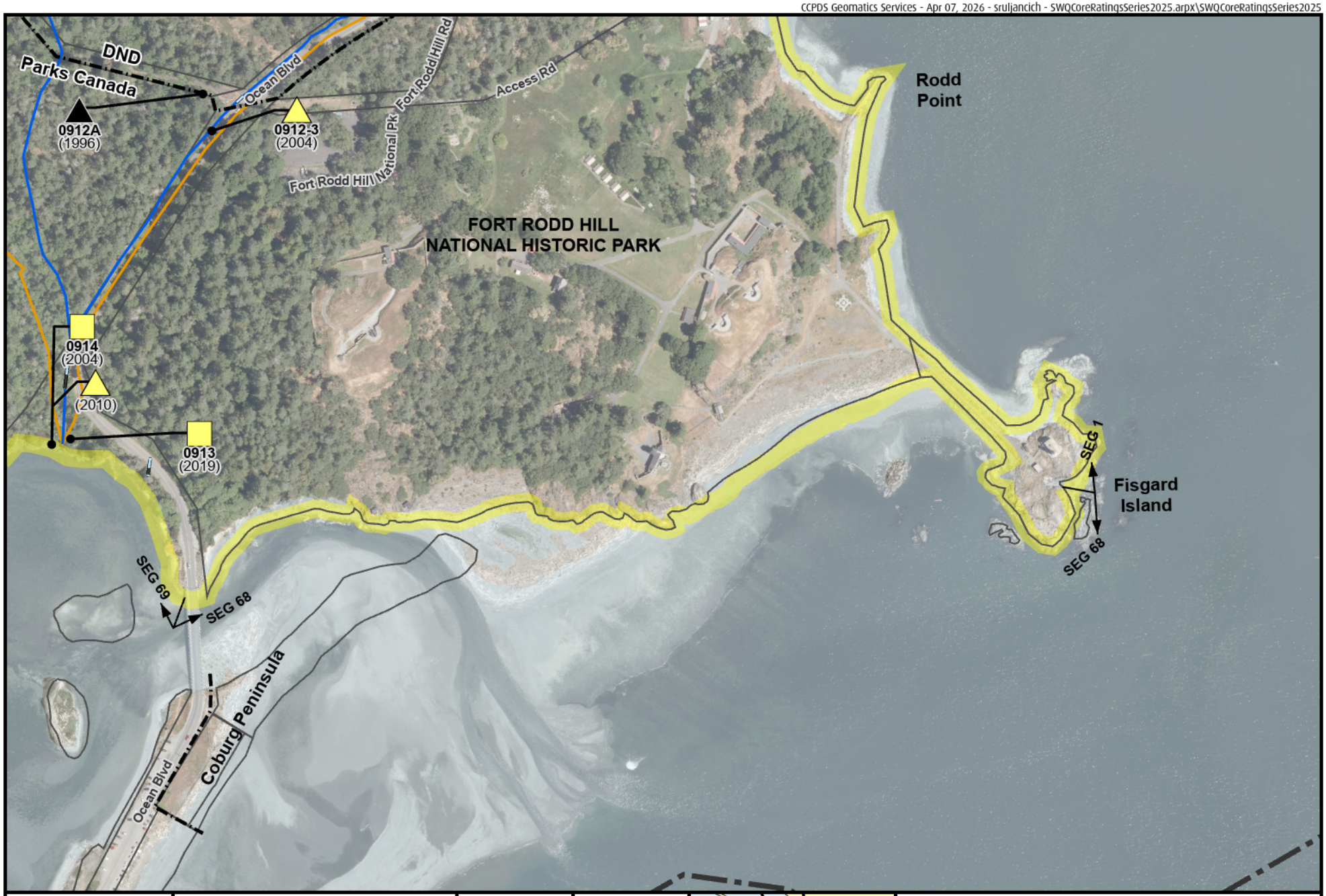


Figure 9

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

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For Area Key Index
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Figure 1

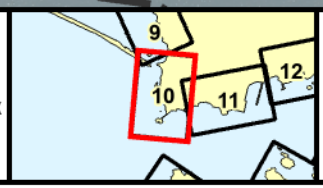

Figure 10

Stormwater Discharge Location and Level of Concern



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Metres
0 25 50 100 150
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For Legend
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For Area Key Index
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Figure 1

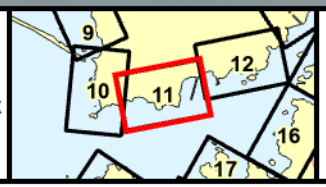
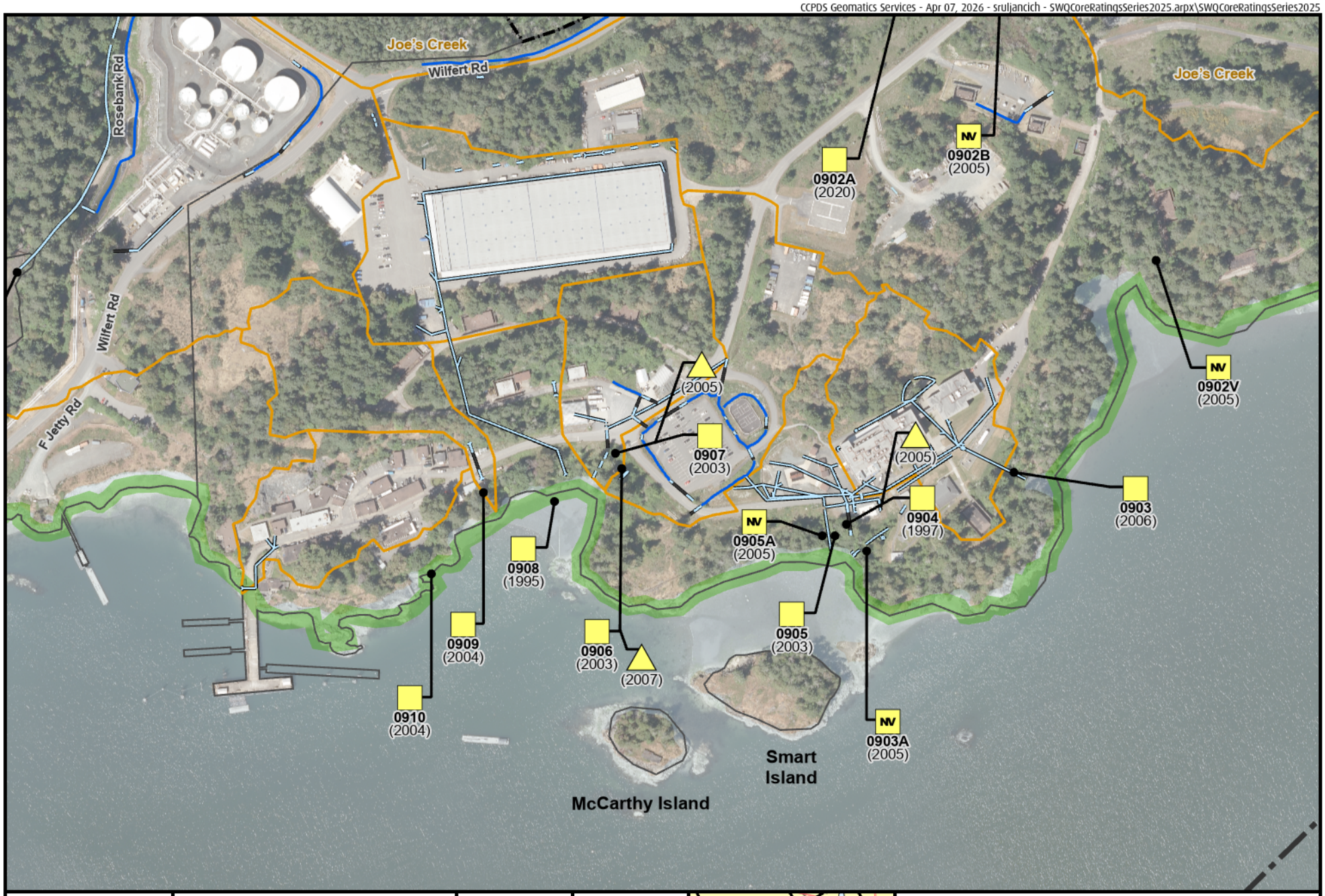


Figure 11
Stormwater Discharge Location
and Level of Concern



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Metres
0 25 50 100 150
Projection: UTM ZONE 10N NAD 83

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W S E N

For Legend
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For Area Key Index
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Figure 1

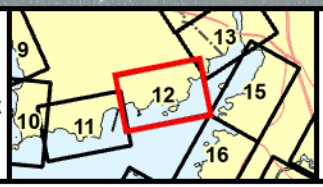
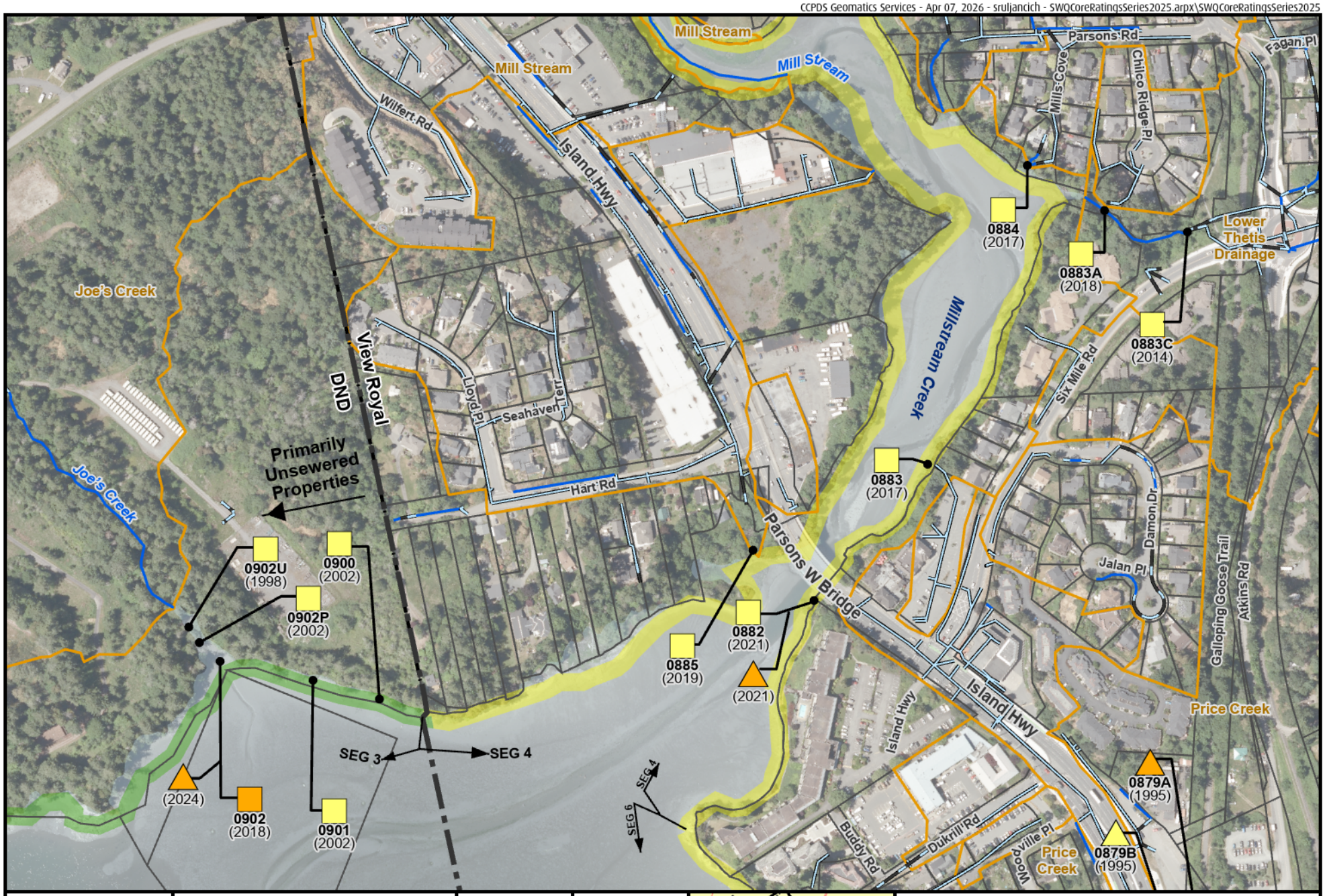


Figure 12
Stormwater Discharge Location and Level of Concern



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W S N E

For Legend
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For Area Key Index
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Figure 1

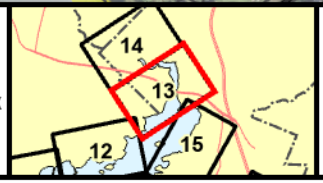
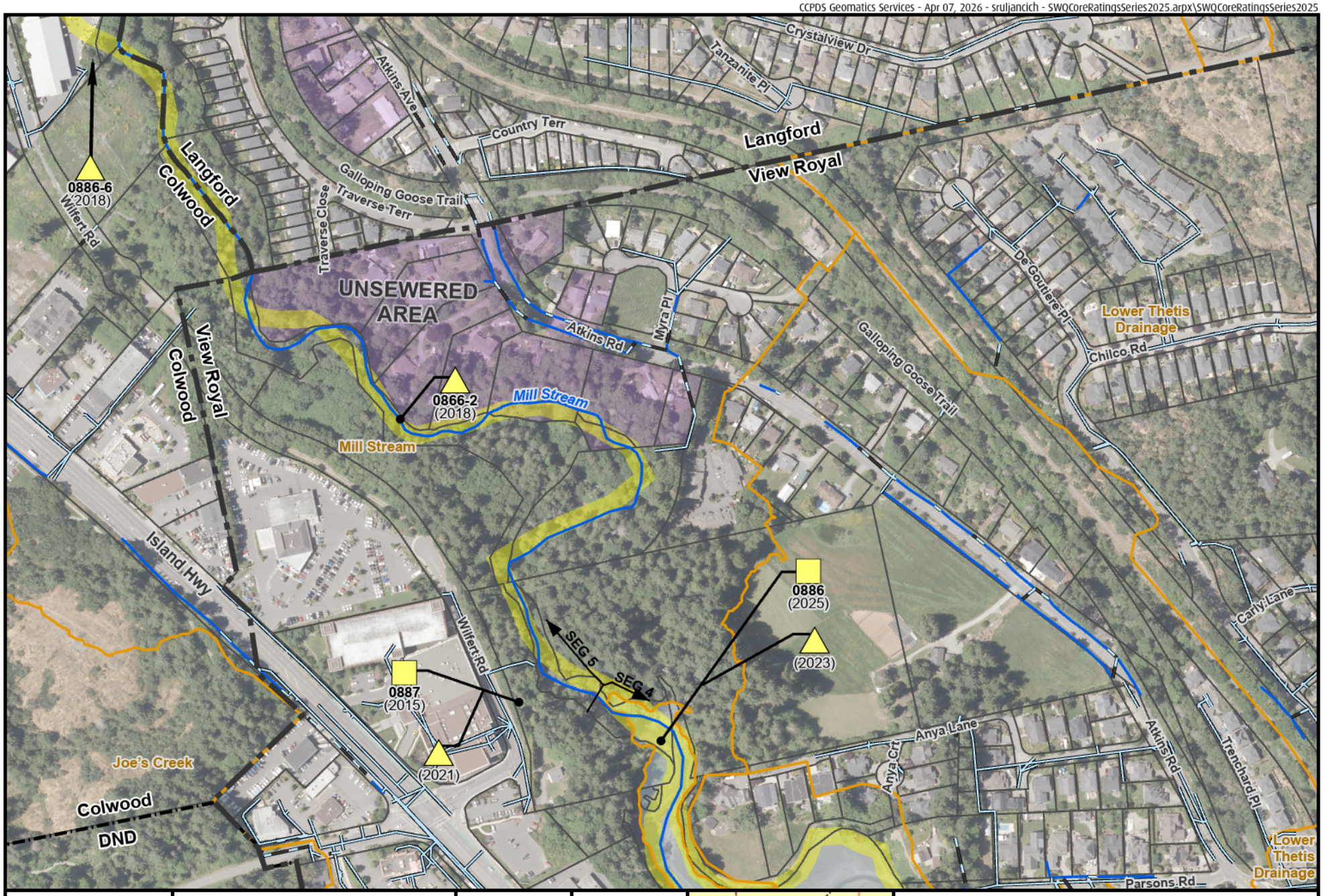


Figure 13

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

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W S N E

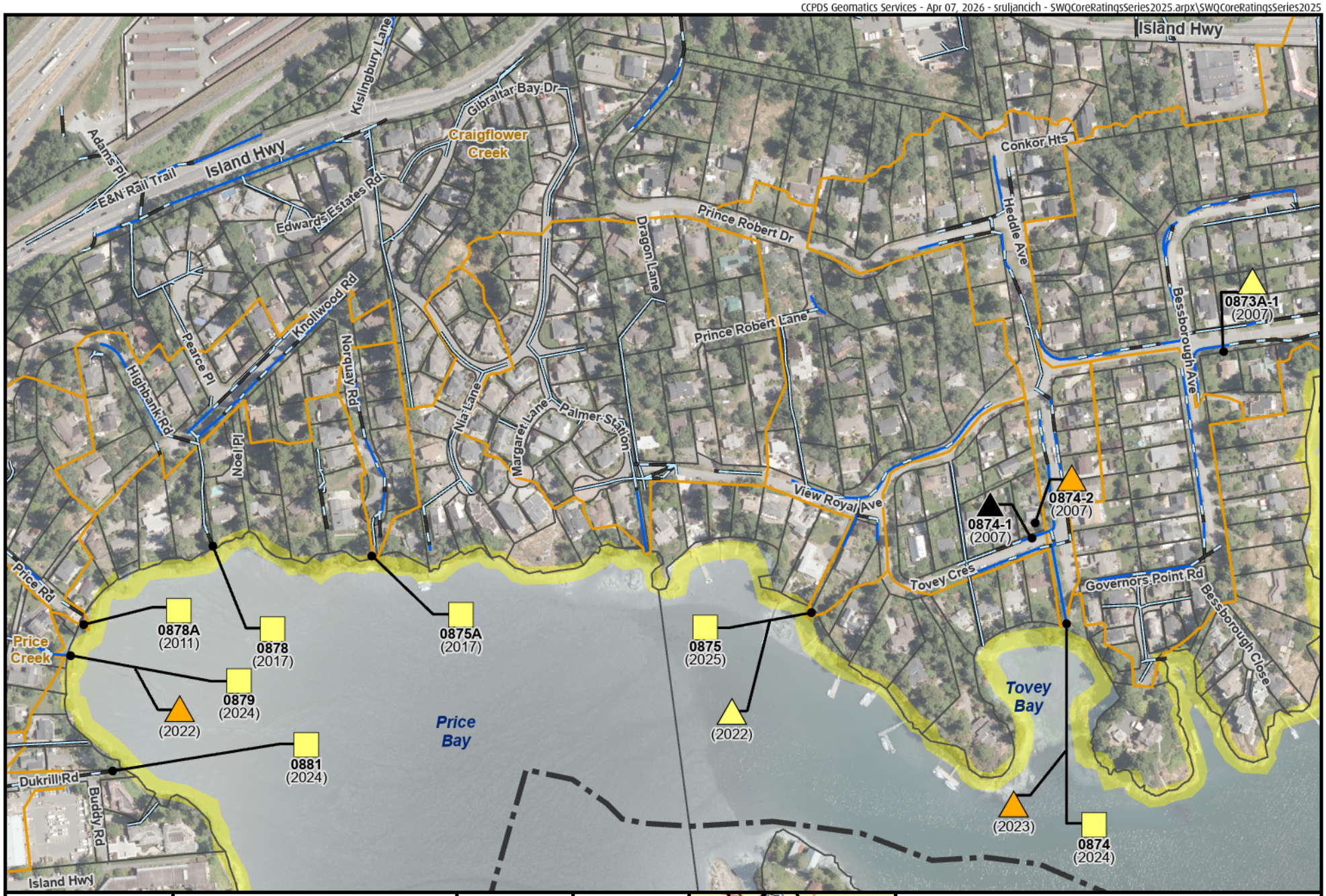
For Legend
See Figure 1

For Area Key Index
See
Figure 1



Figure 14

Stormwater Discharge Location and Level of Concern



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Metres
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Projection: UTM ZONE 10N NAD 83

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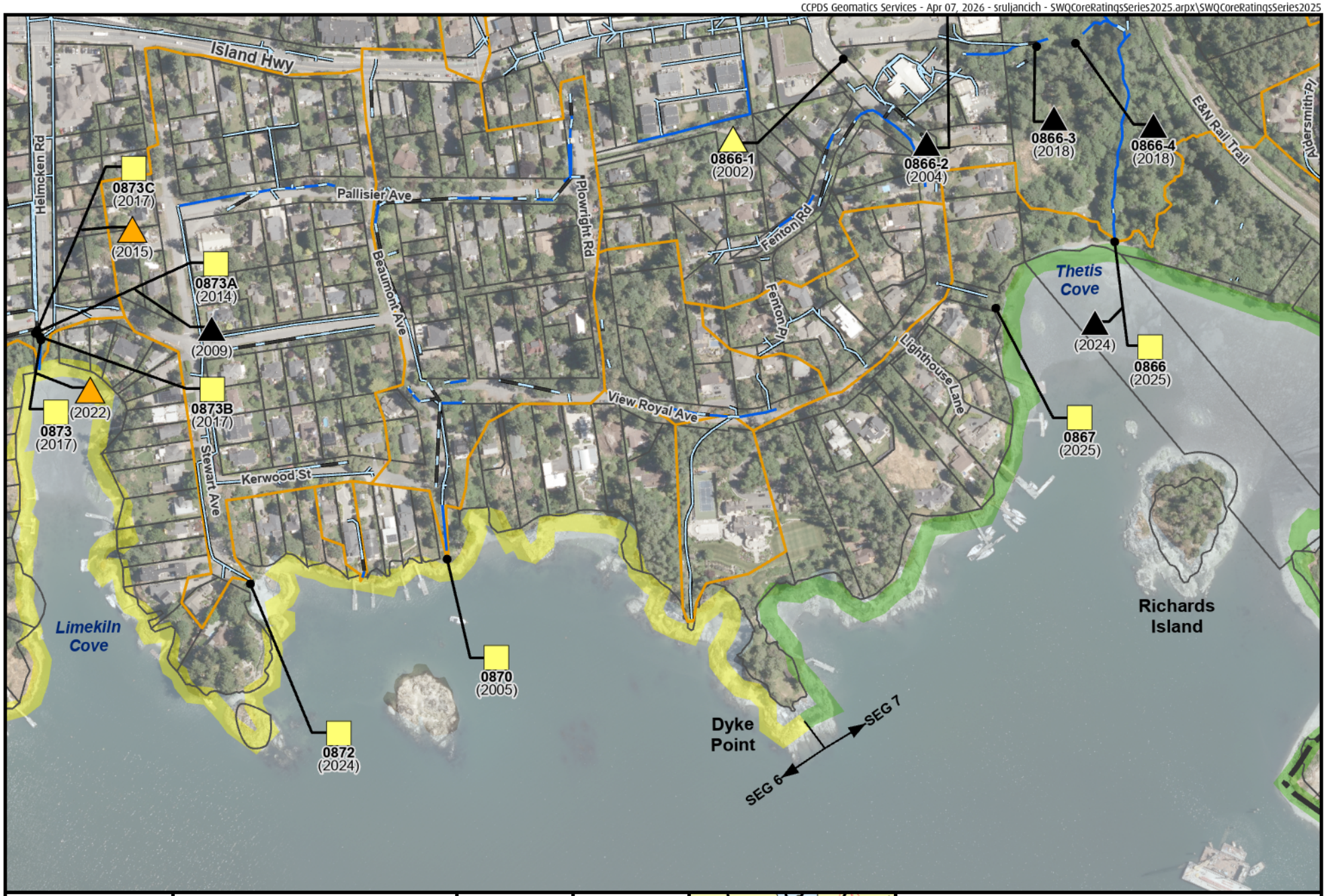
N E W S

For Legend See Figure 1

For Area Key Index See Figure 1



Figure 15
Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

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N E S W

For Legend See Figure 1

For Area Key Index See Figure 1

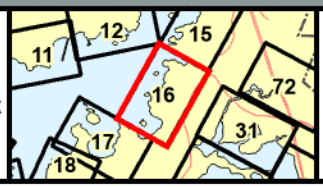

Figure 16

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

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For Legend See Figure 1

For Area Key Index See Figure 1

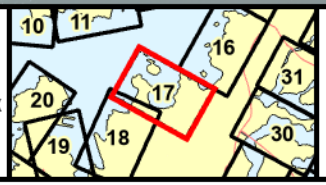
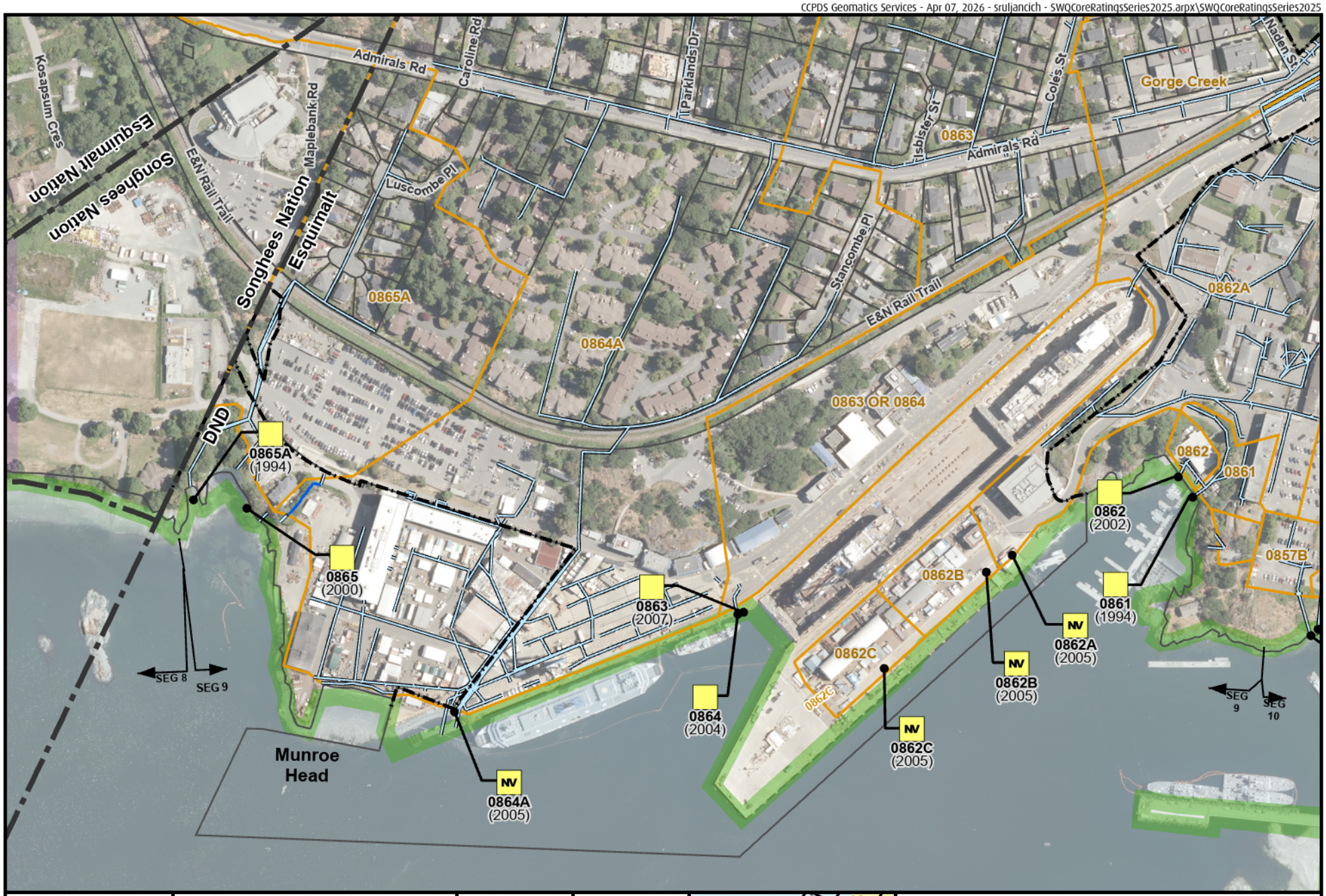


Figure 17

Stormwater Discharge Location and Level of Concern



CRD
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Metres
0 25 50 100 150
Projection: UTM ZONE 10N NAD 83

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N W E S

For Legend
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Figure 1

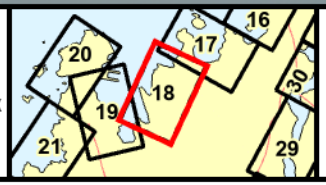
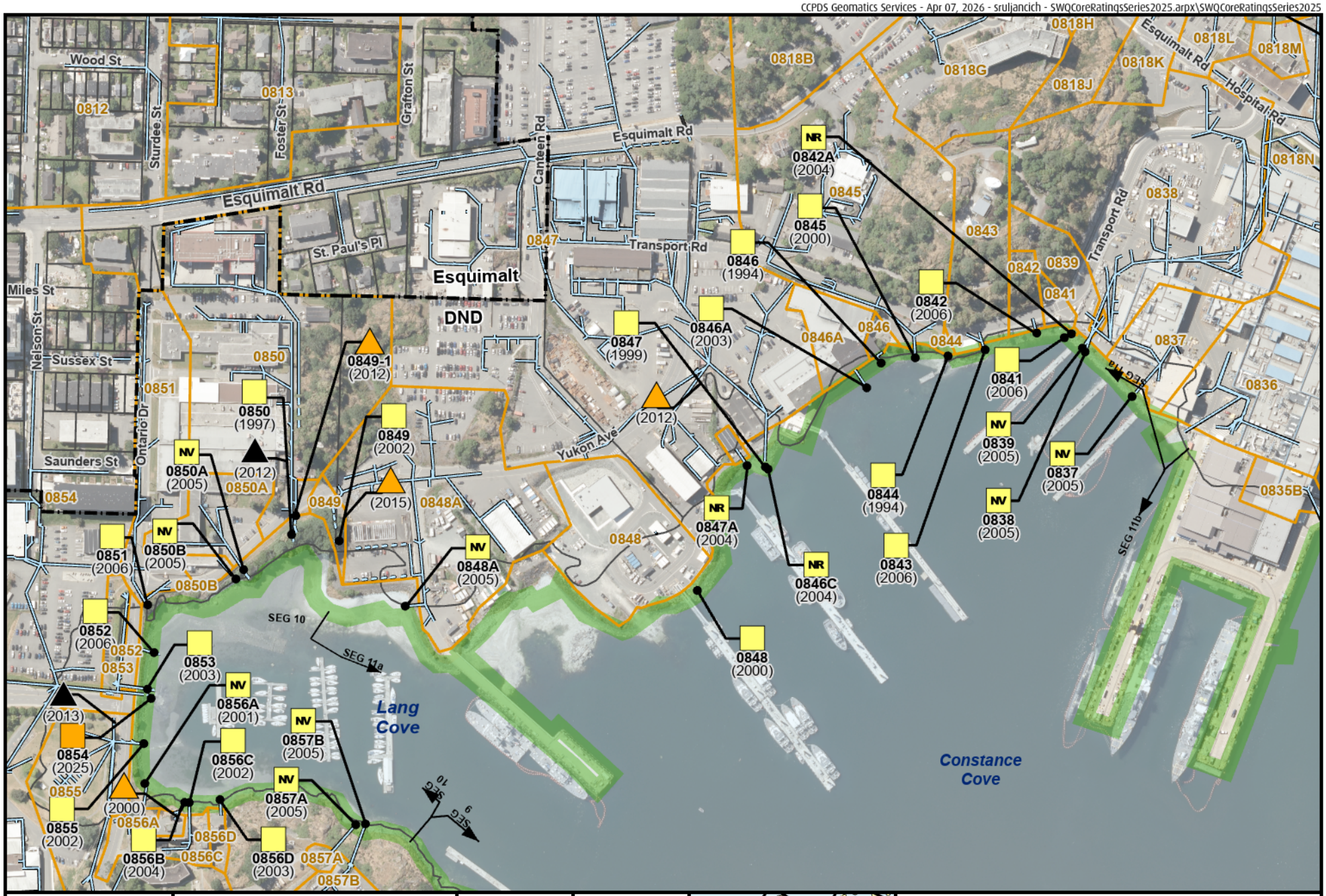


Figure 18
Stormwater Discharge Location and Level of Concern



CRD
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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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S E W N

For Legend See Figure 1

For Area Key Index See Figure 1

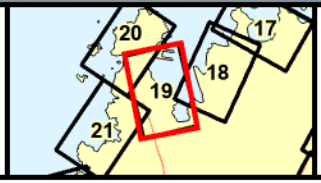
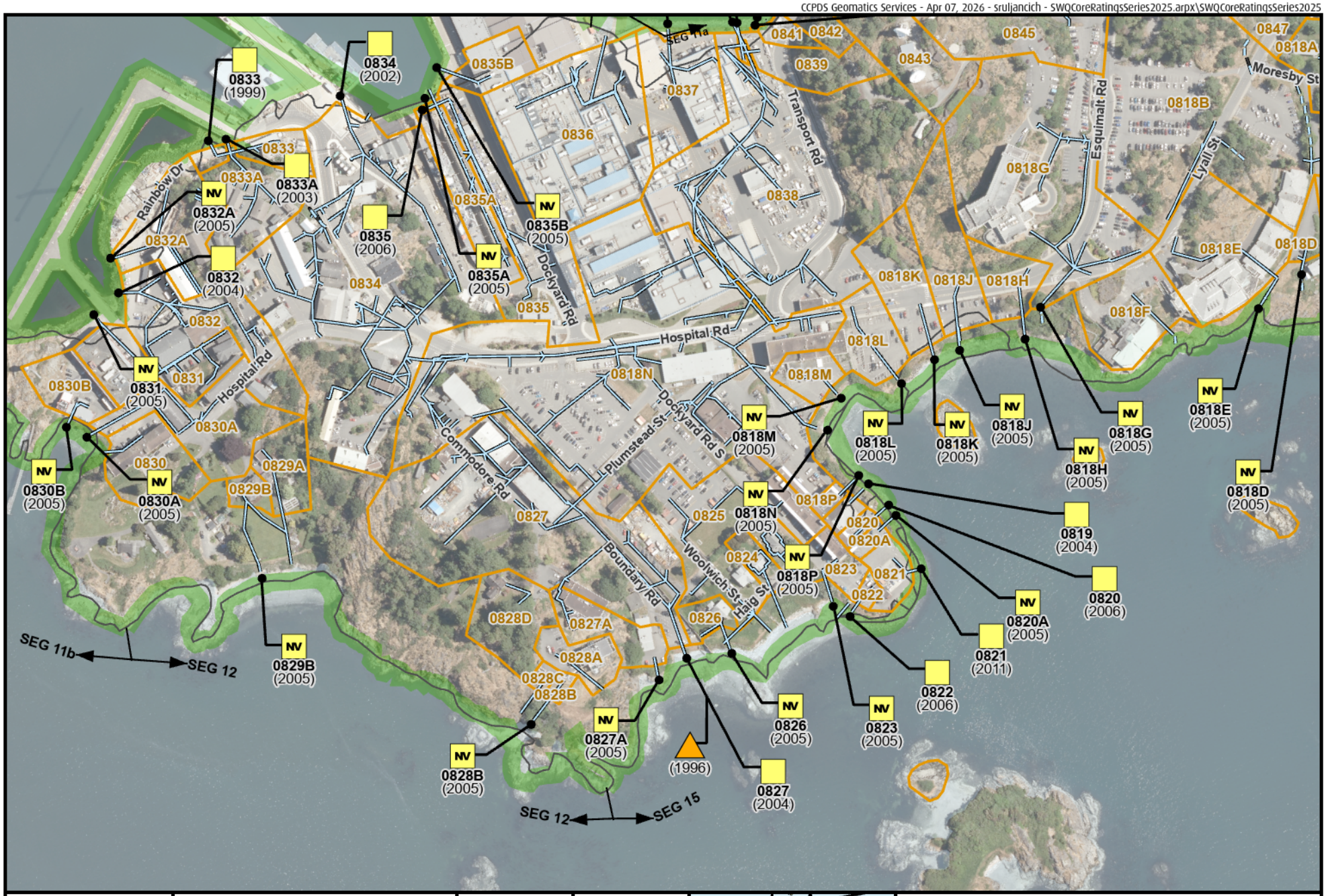


Figure 19

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N E S W

For Legend See Figure 1

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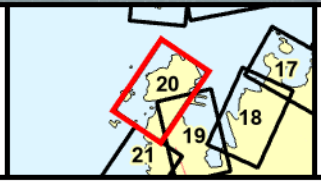
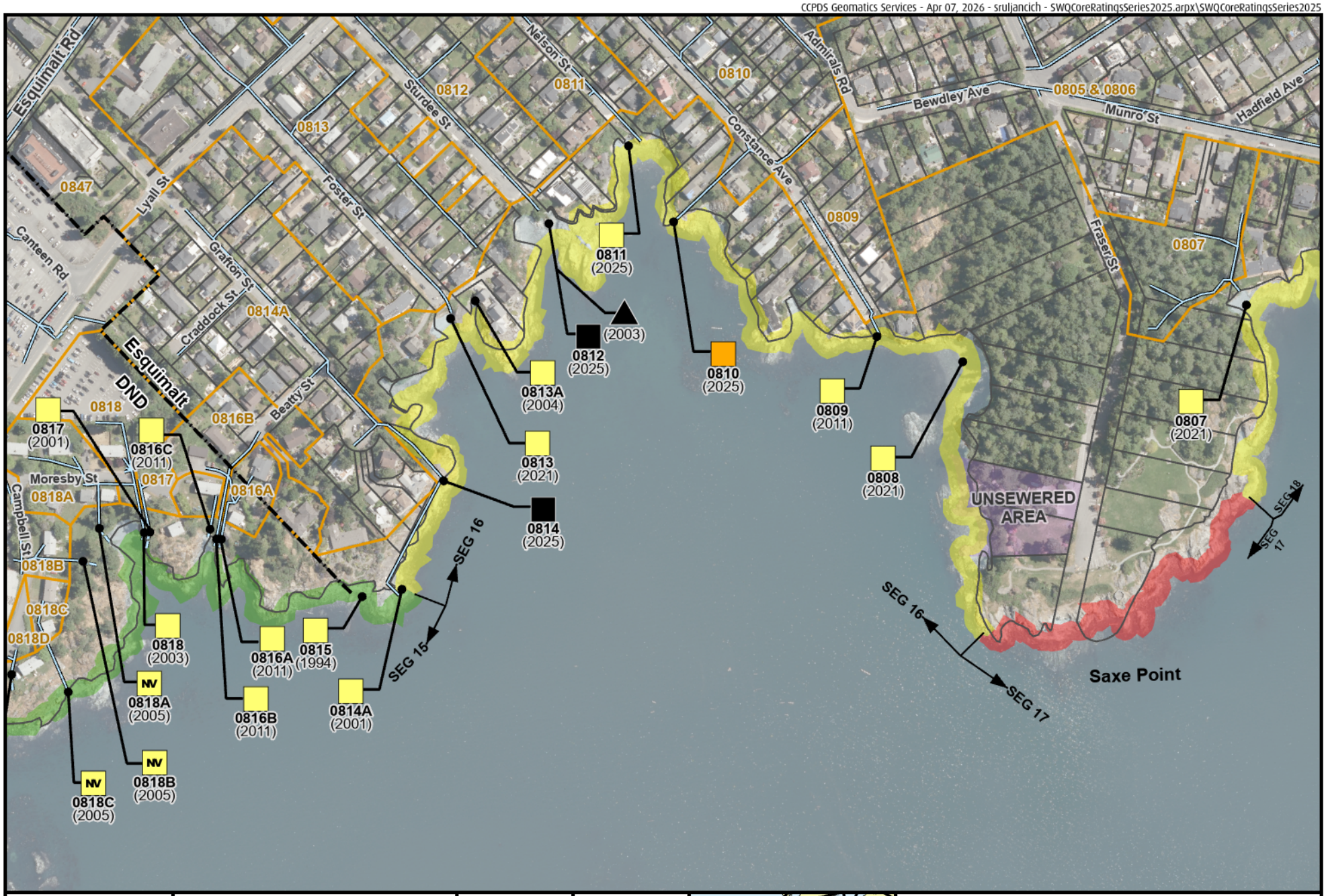


Figure 20

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N E S W

For Legend See Figure 1

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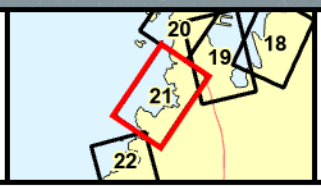
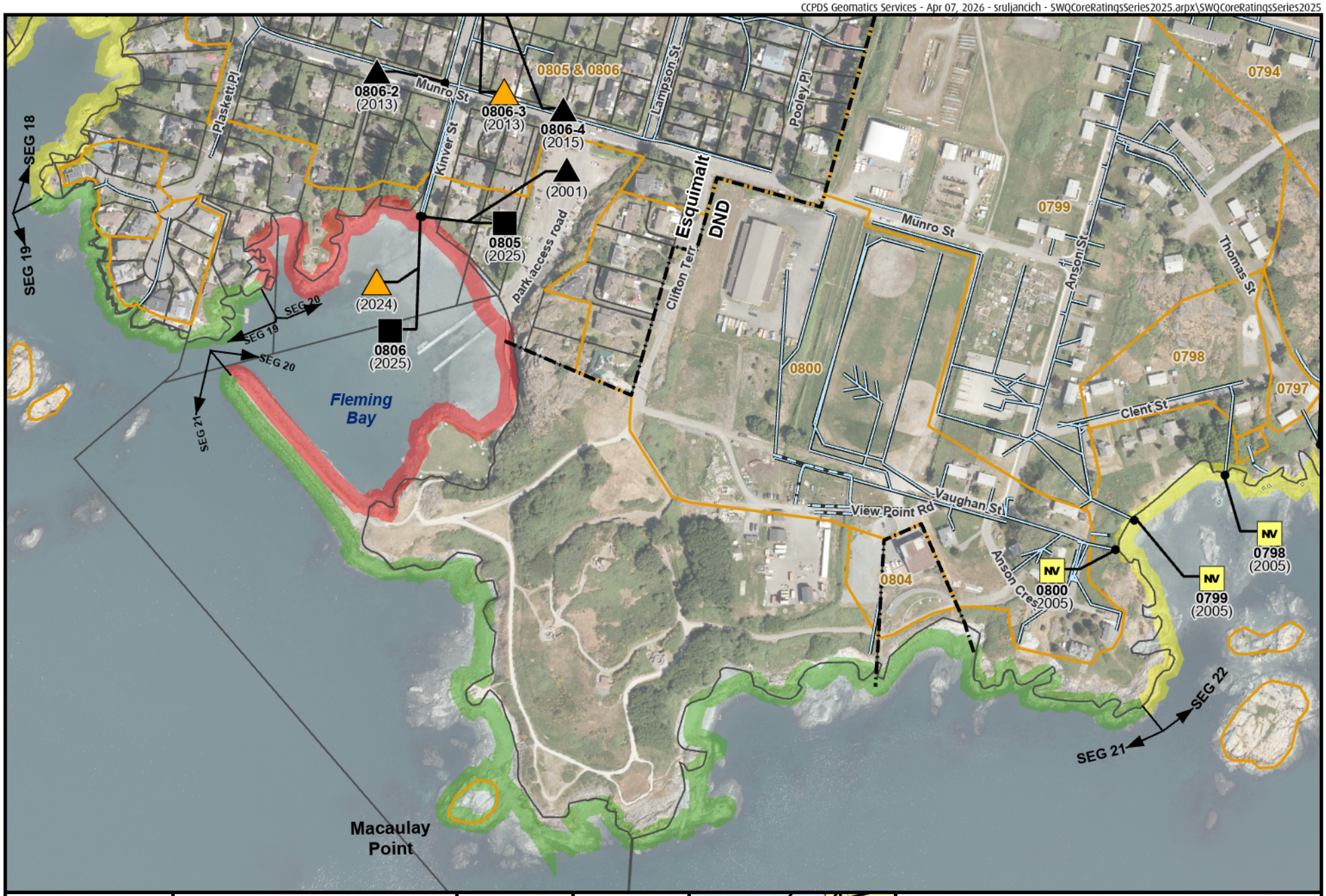


Figure 21

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N W E S

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Figure 1

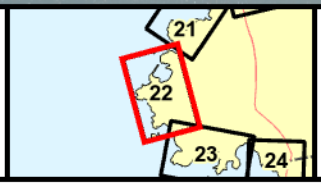

Figure 22

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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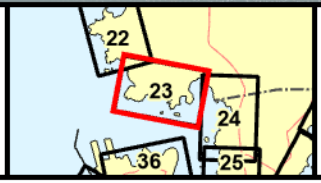

Figure 23

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N W E S

For Legend See Figure 1

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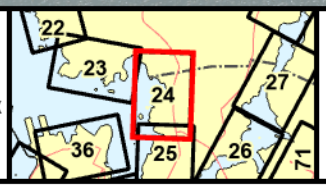
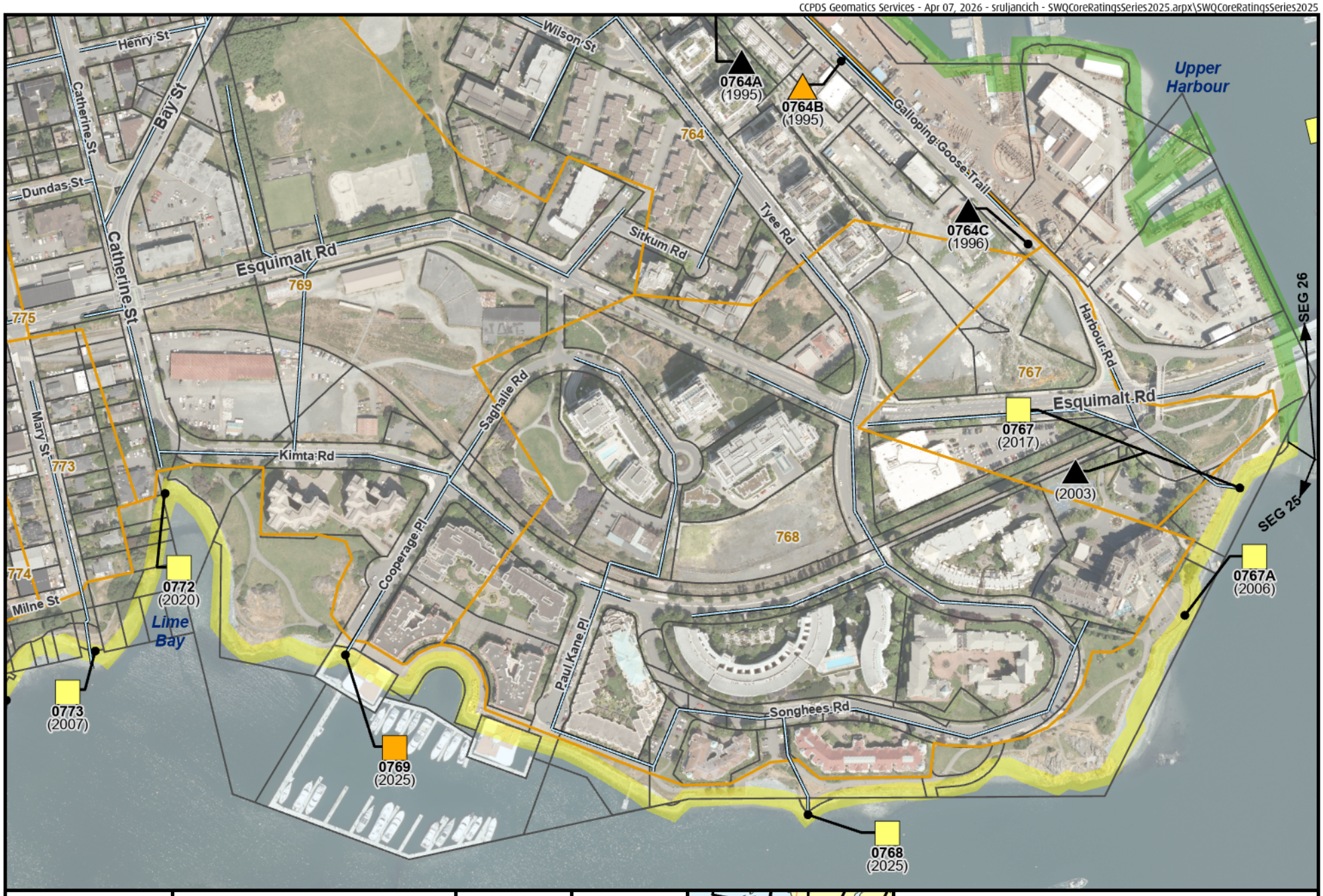


Figure 24

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N E S W

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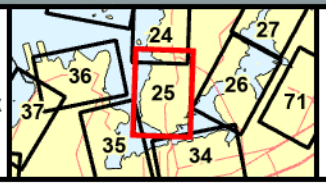
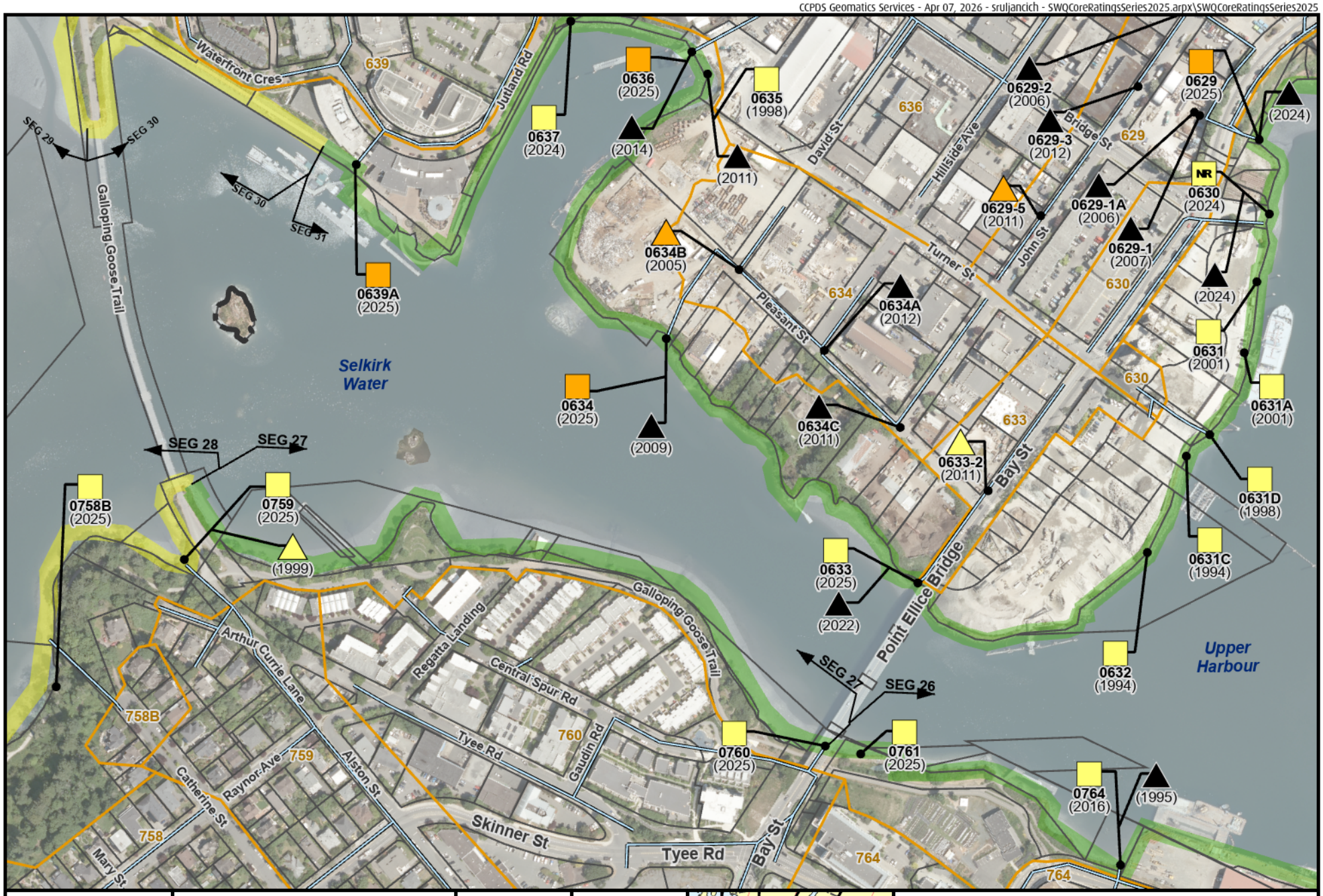


Figure 25

Stormwater Discharge Location and Level of Concern



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Metres
0 25 50 100 150
Projection: UTM ZONE 10N NAD 83

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N W E S

For Legend See Figure 1

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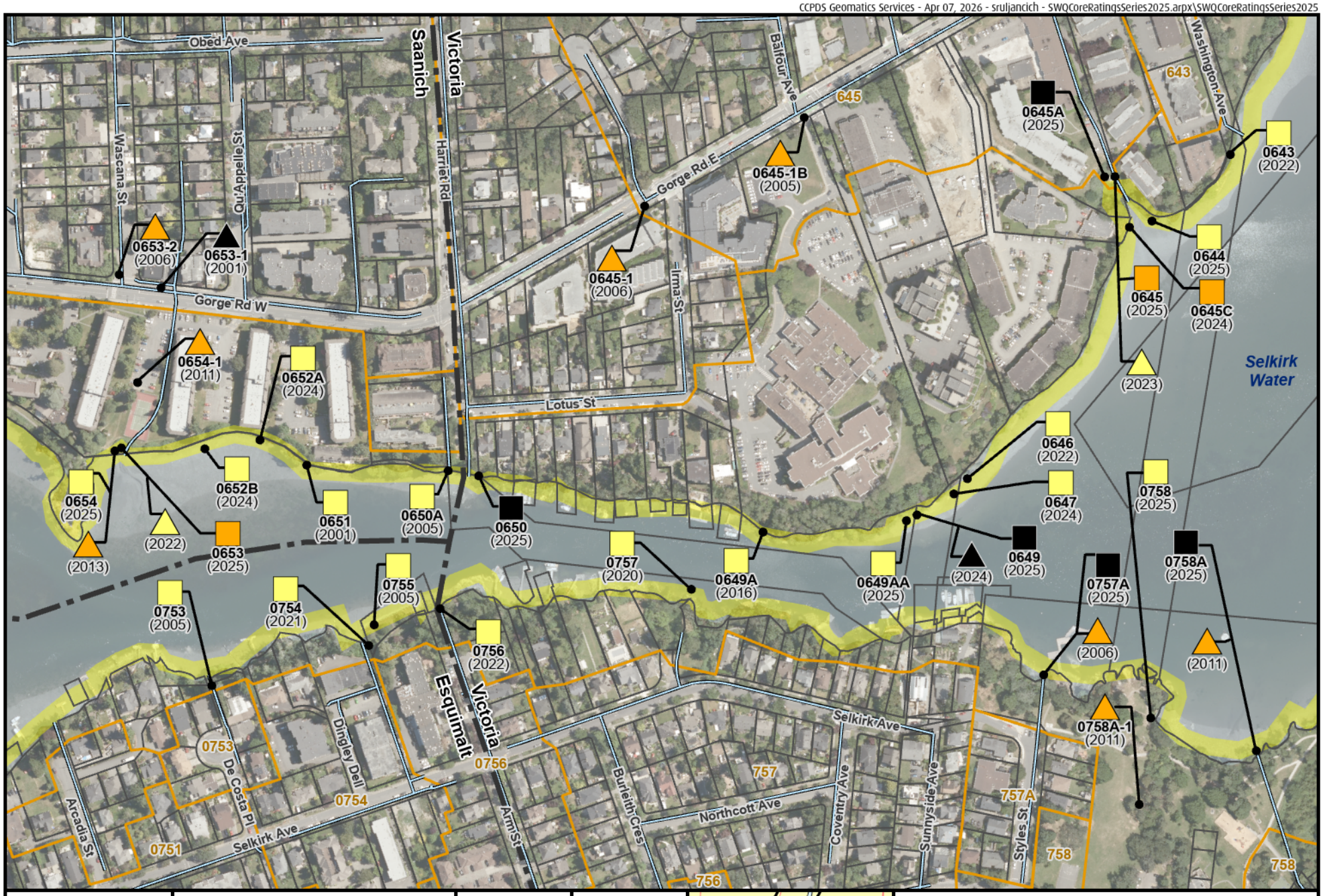
Figure 26

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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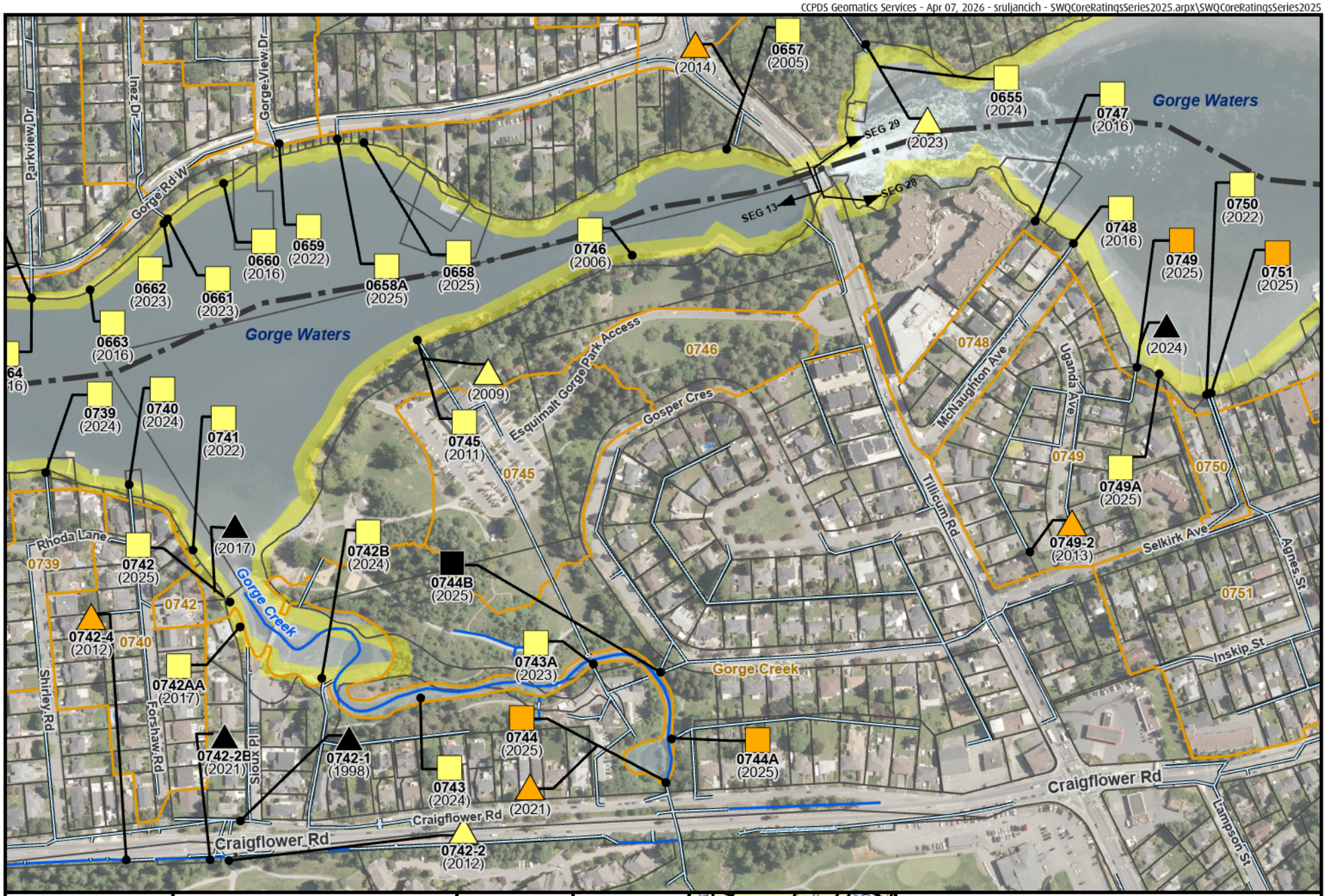
Figure 27

Stormwater Discharge Location and Level of Concern



Making a difference...together

Metres
0 25 50 100 150
Projection: UTM ZONE 10N NAD 83

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N E S W

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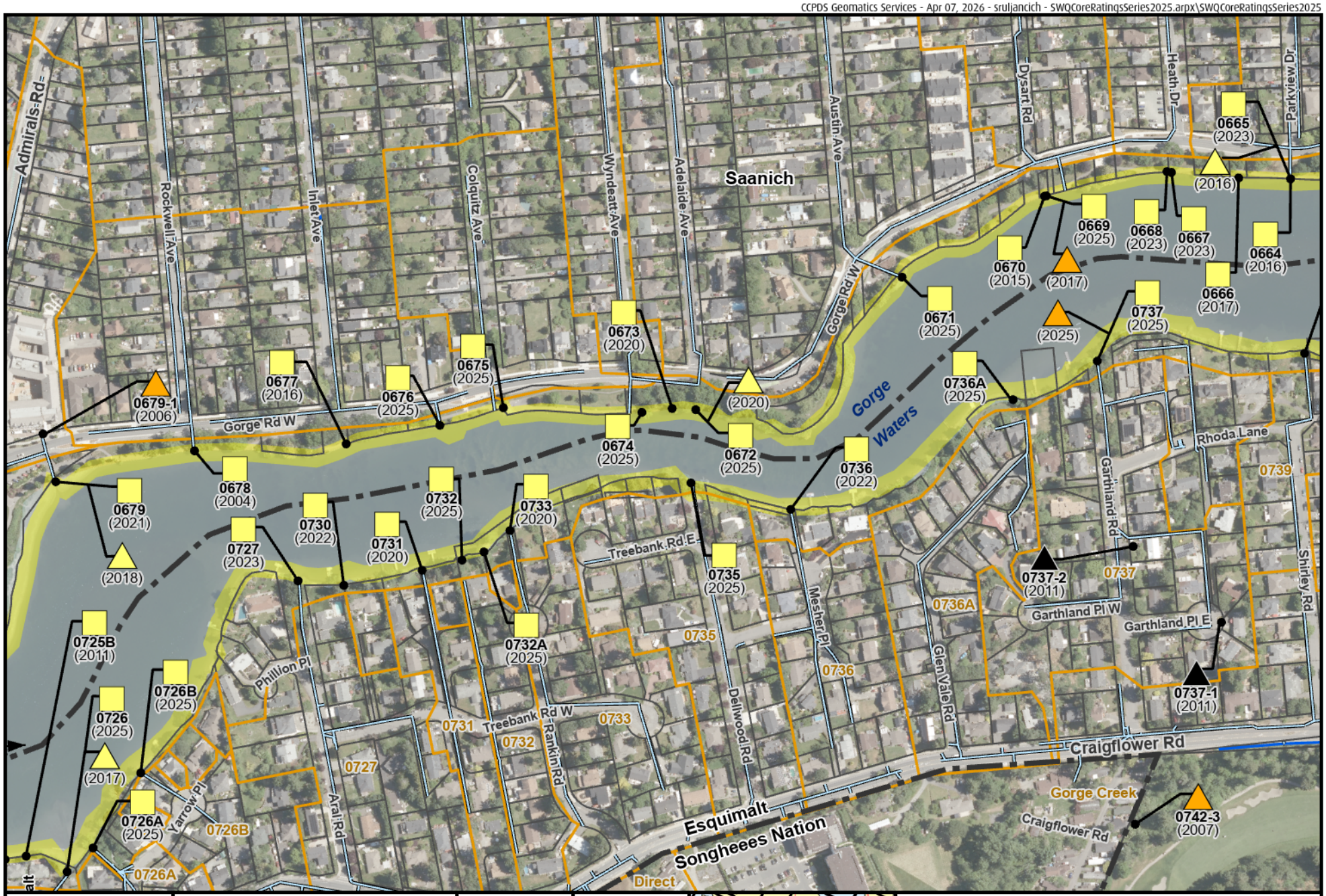
Figure 28

Stormwater Discharge Location and Level of Concern



CRD
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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N E S W

For Legend See Figure 1

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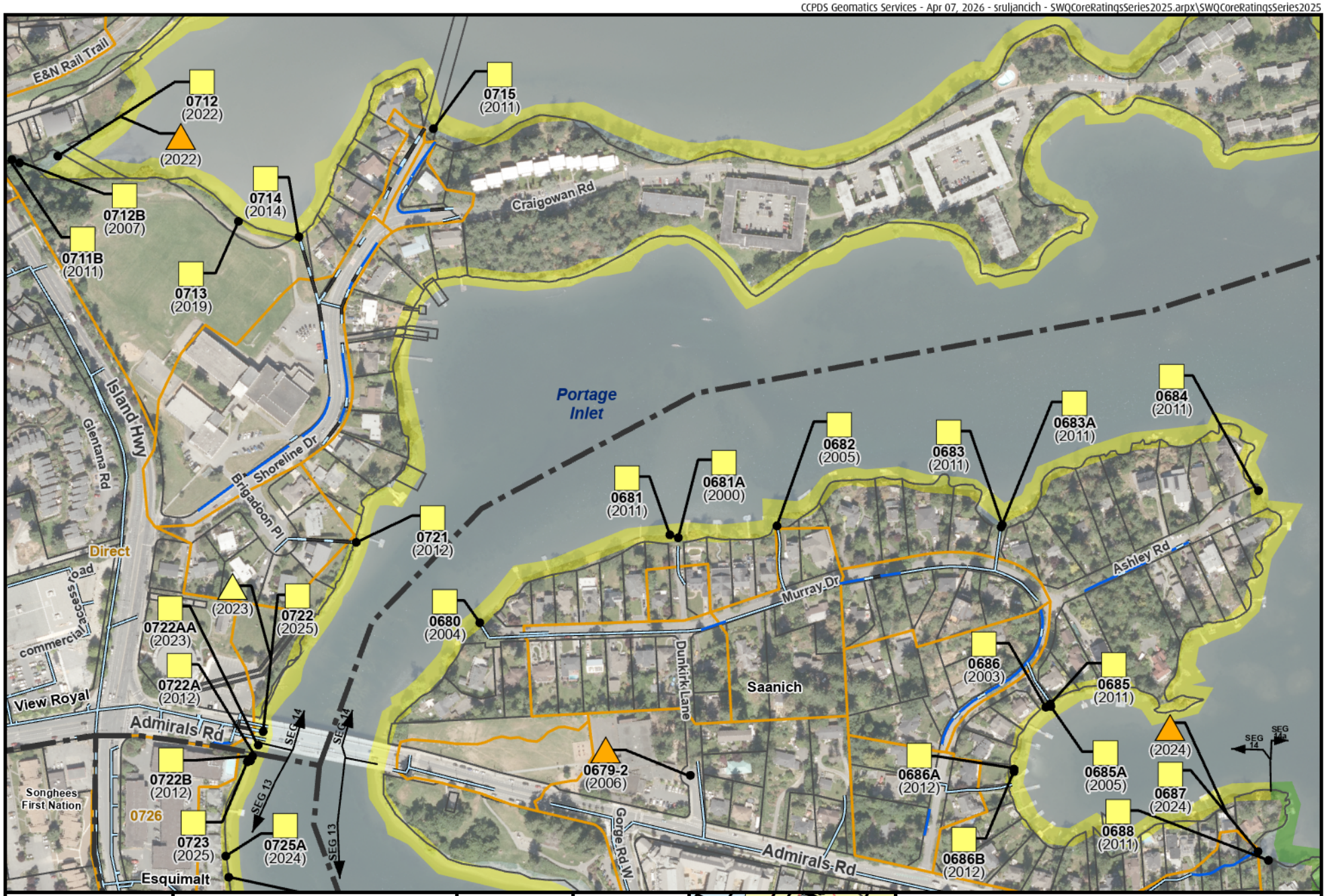
Figure 29

Stormwater Discharge Location and Level of Concern



CRD Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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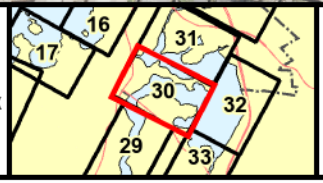

Figure 30

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

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W N S E

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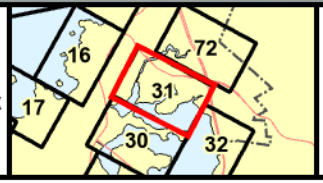

Figure 31

Stormwater Discharge Location and Level of Concern



CRD
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Metres
0 25 50 100 150
Projection: UTM ZONE 10N NAD 83

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N W E S

For Legend
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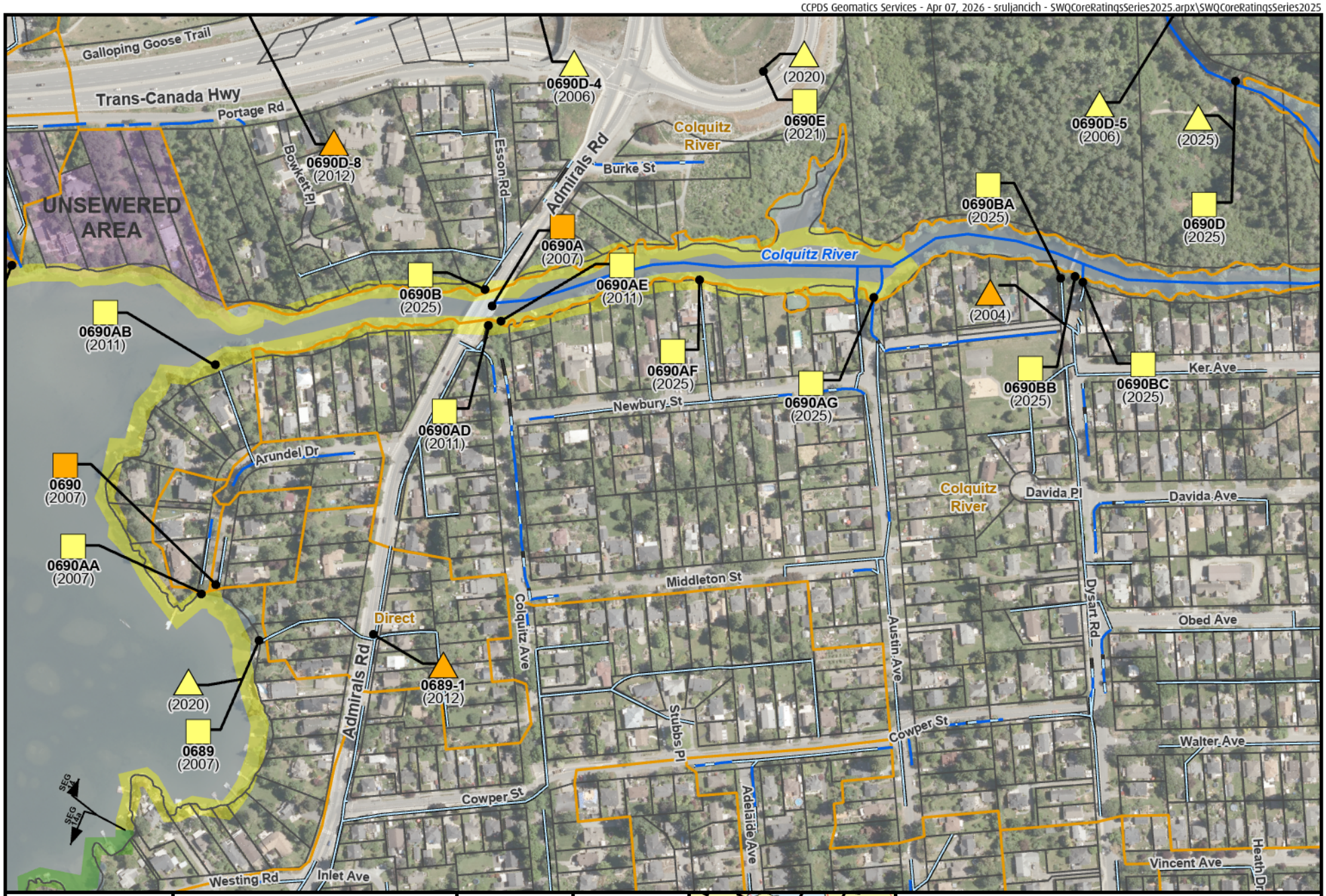
Figure 1



Figure 32
Stormwater Discharge Location
and Level of Concern



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0 25 50 100 150 Metres

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N E S W

For Legend See Figure 1

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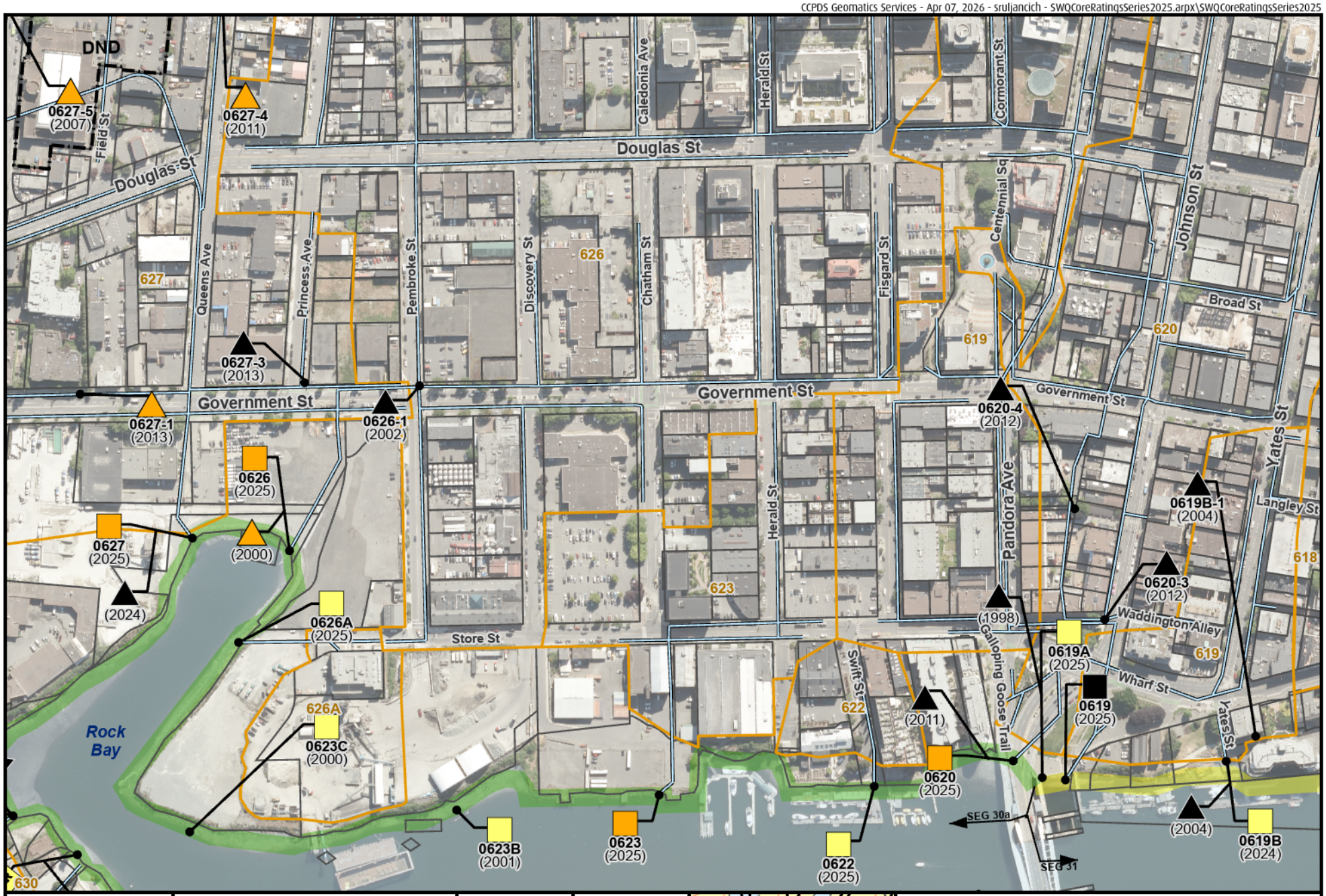
Figure 33

Stormwater Discharge Location and Level of Concern



CRD
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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N E S W

For Legend See Figure 1

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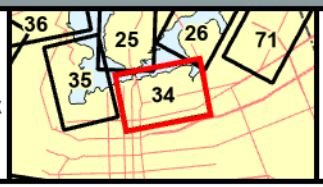
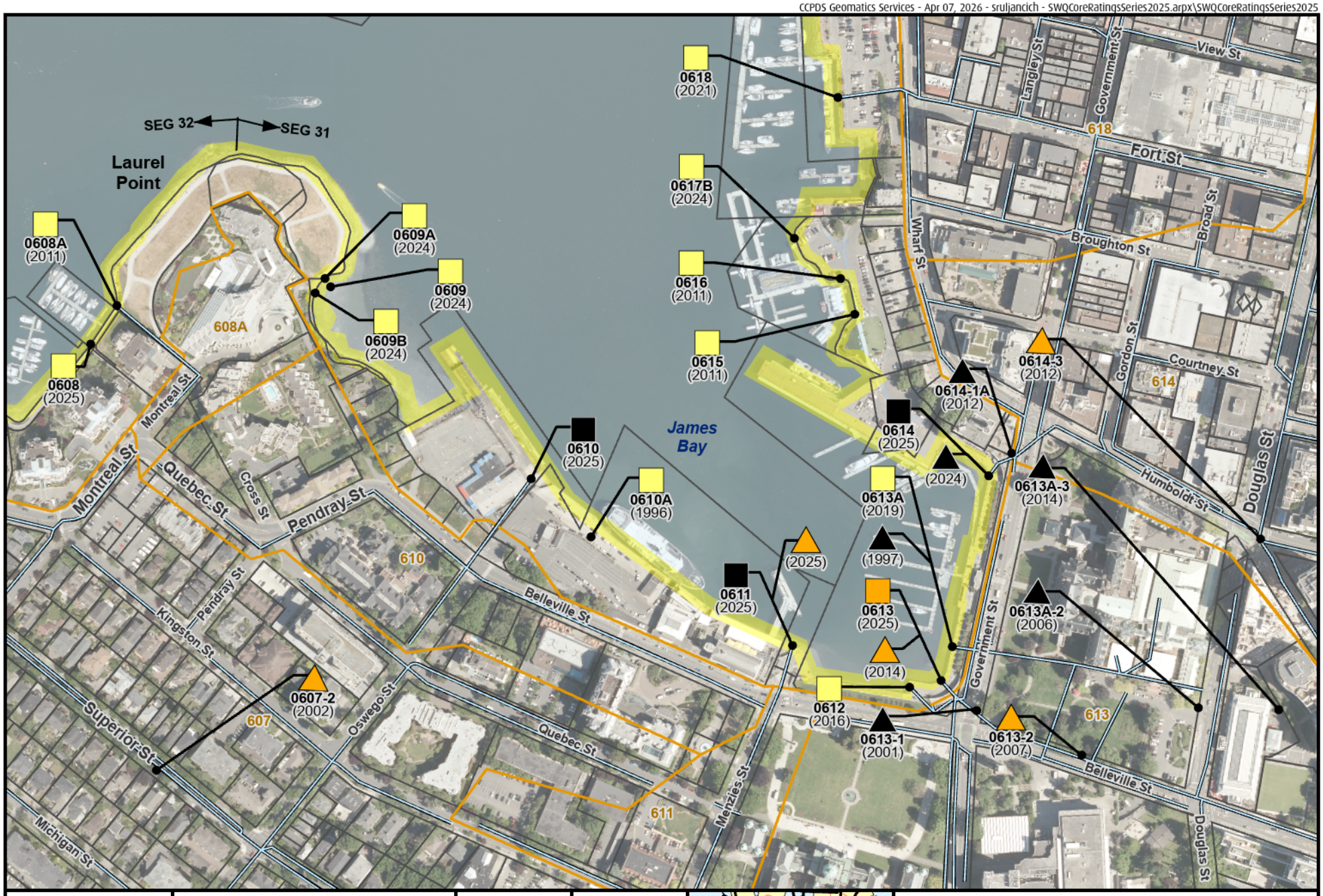


Figure 34

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

N W E S

For Legend See Figure 1

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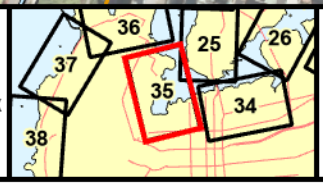

Figure 35

Stormwater Discharge Location and Level of Concern

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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

N E S W

For Legend
See Figure 1

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Figure 1

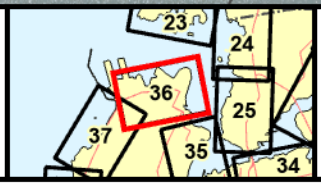

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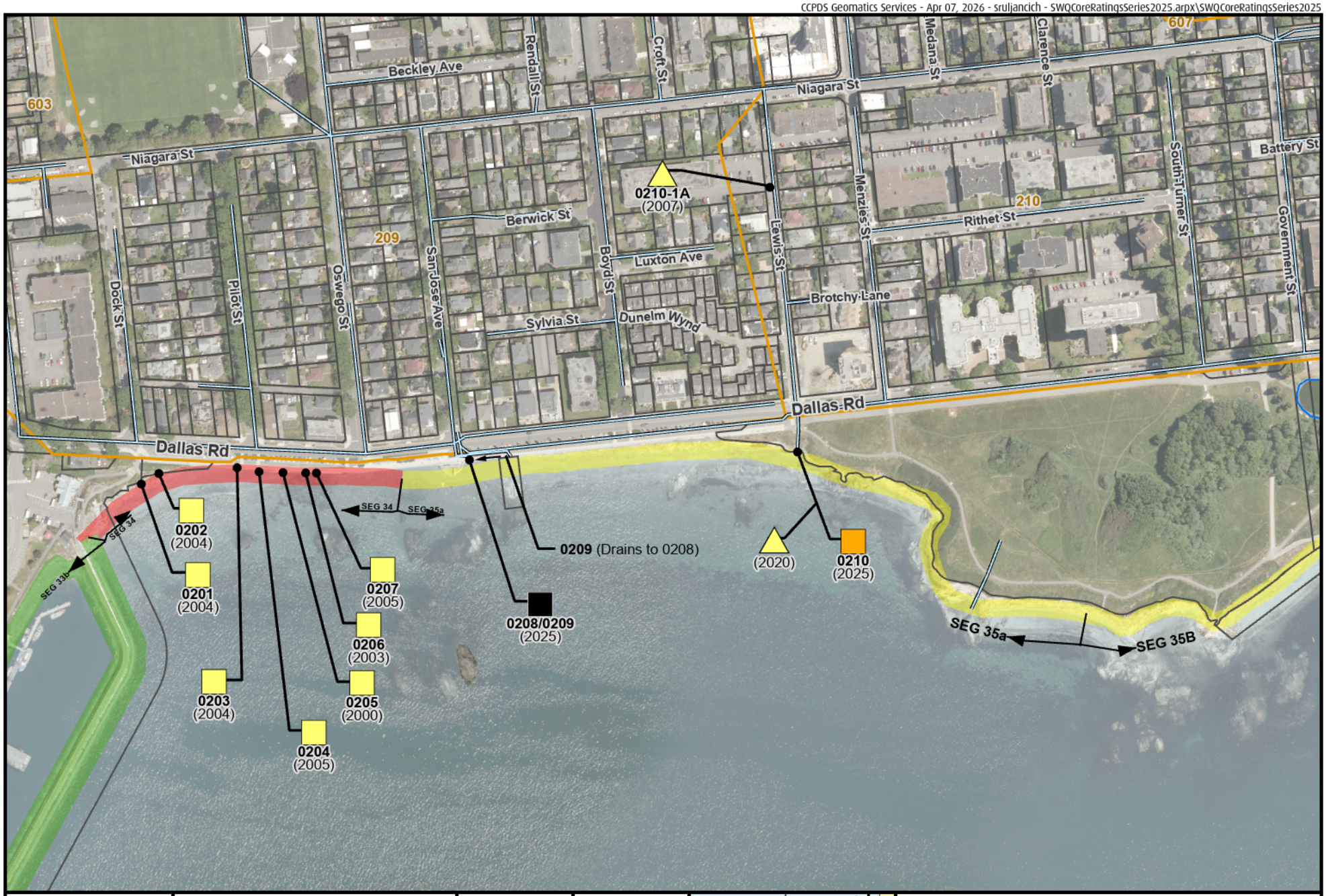
Figure 36

Stormwater Discharge Location and Level of Concern



CRD
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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N W E S

For Legend See Figure 1

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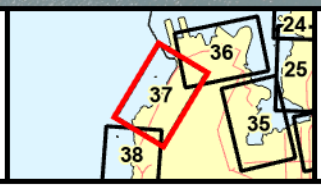

Figure 37

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N E S W

For Legend See Figure 1

For Area Key Index See Figure 2

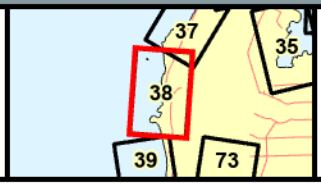
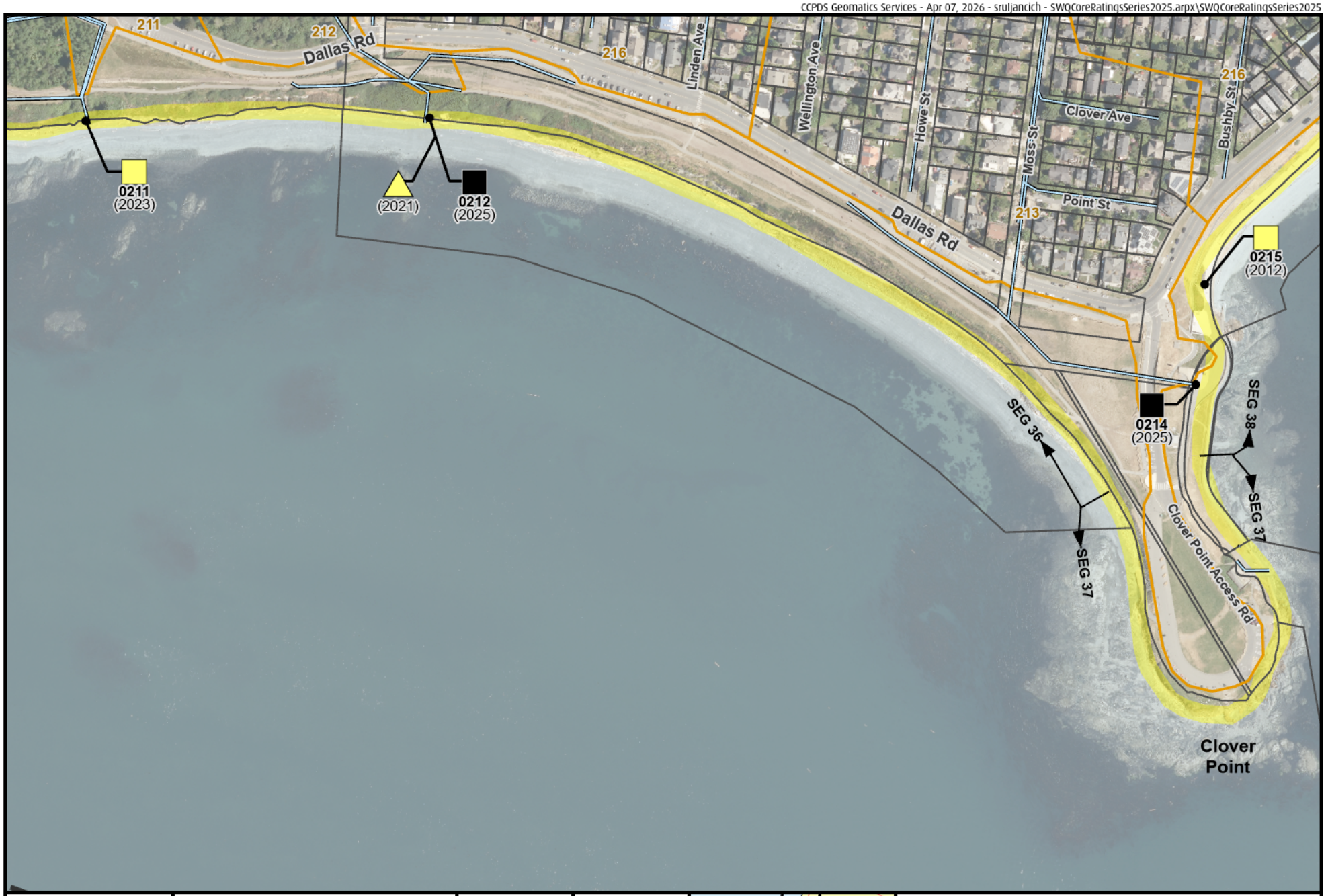


Figure 38

Stormwater Discharge Location and Level of Concern



CRD
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0 25 50 100 150 Metres

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N
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For Legend
See Figure 1

For Area Key Index
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Figure 2

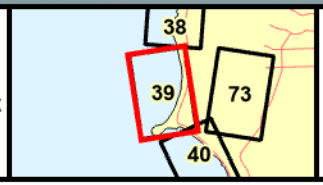
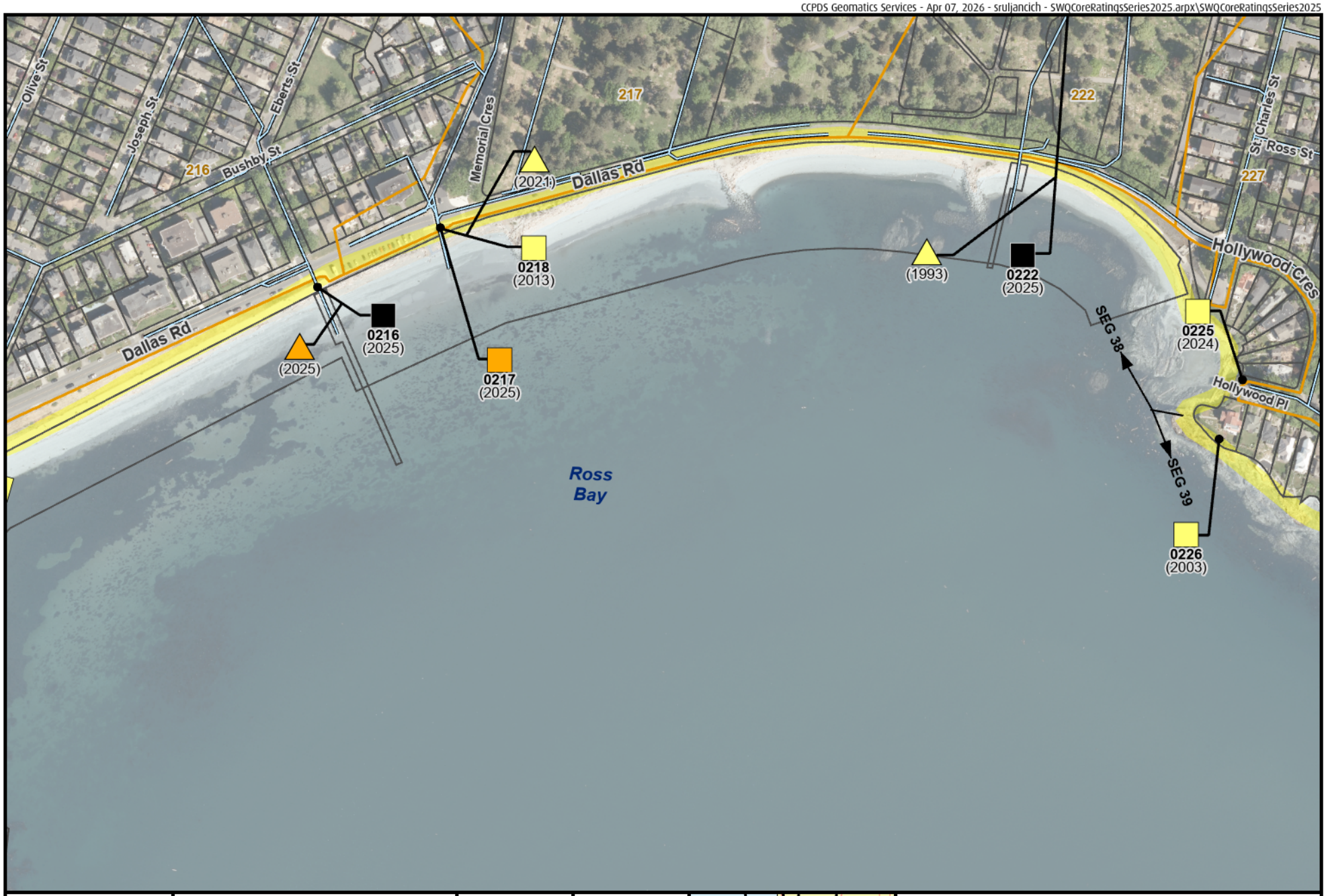


Figure 39

Stormwater Discharge Location and Level of Concern



Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N W E S

For Legend See Figure 1

For Area Key Index See Figure 2

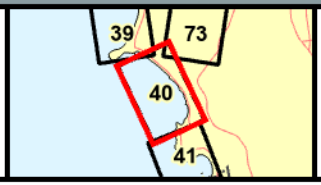

Figure 40

Stormwater Discharge Location and Level of Concern



CRD
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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

N W E S

For Legend See Figure 1

For Area Key Index See Figure 2

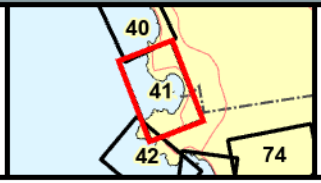

Figure 41
Stormwater Discharge Location and Level of Concern

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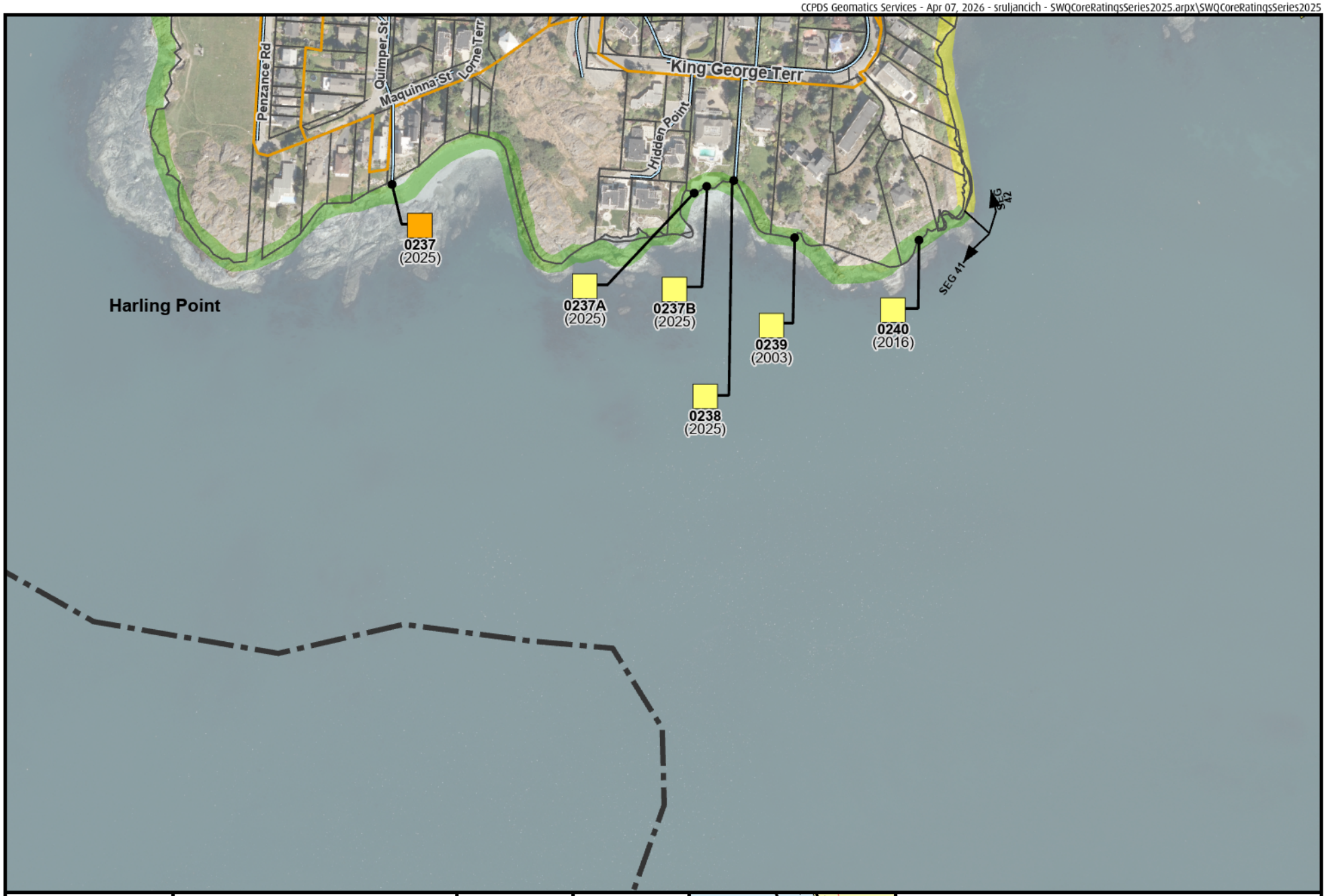

Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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For Legend See Figure 1

For Area Key Index See Figure 2

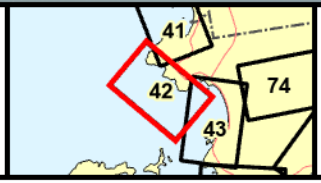

Figure 42

Stormwater Discharge Location and Level of Concern



Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N E S W

For Legend See Figure 1

For Area Key Index See Figure 2

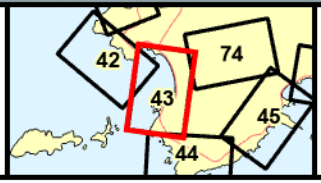

Figure 43

Stormwater Discharge Location and Level of Concern



Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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For Legend
See Figure 1

For Area Key Index
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Figure 2

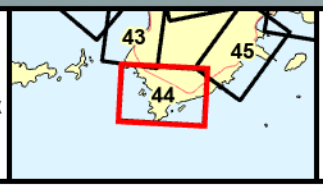

Figure 44

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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For Area Key Index See Figure 2

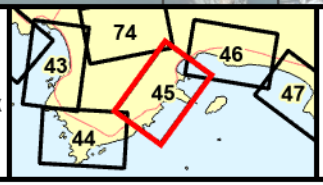
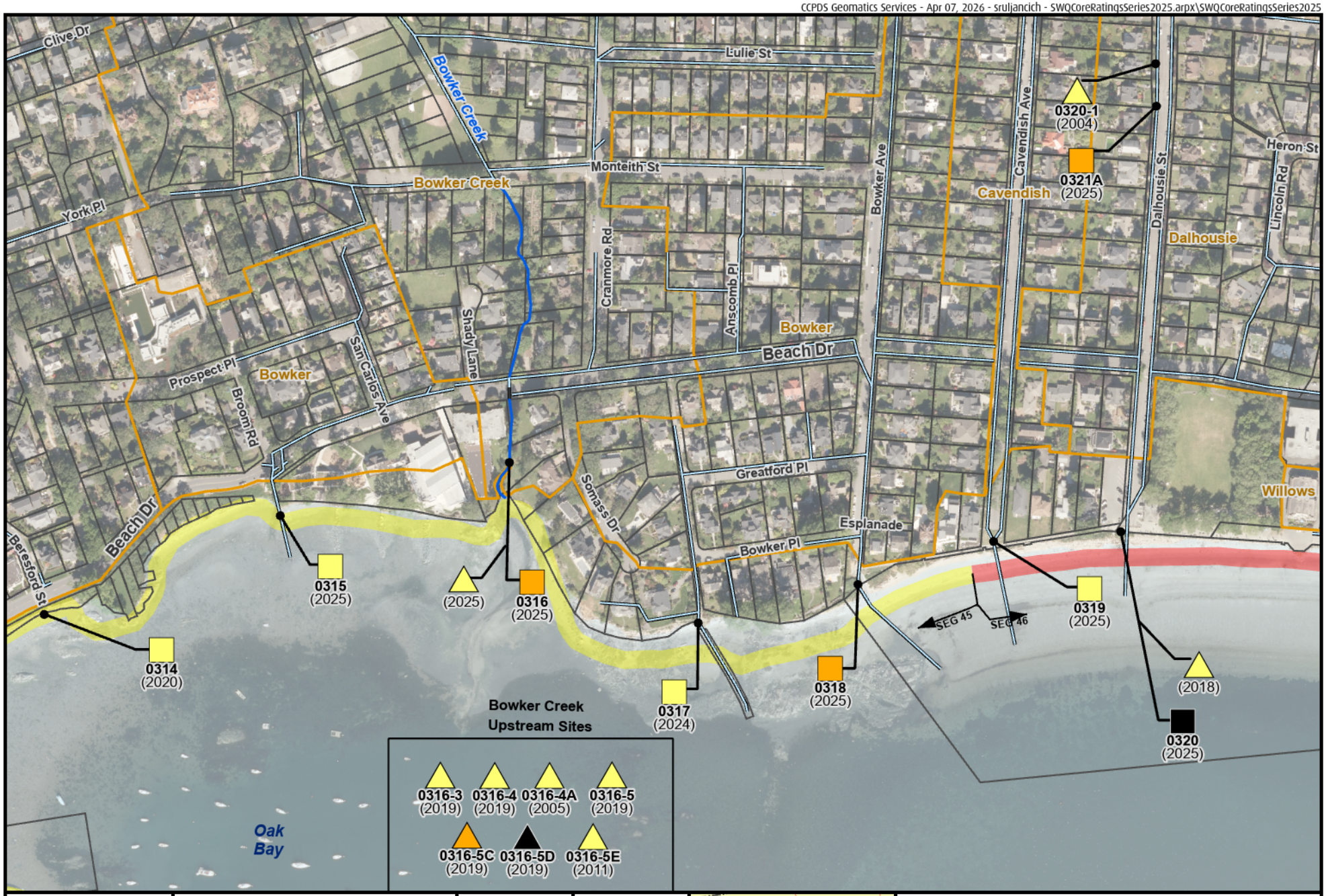


Figure 45

Stormwater Discharge Location and Level of Concern



CRD
Making a difference...together

Metres
0 25 50 100 150
Projection: UTM ZONE 10N NAD 83

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For Legend
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For Area Key Index
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Figure 2

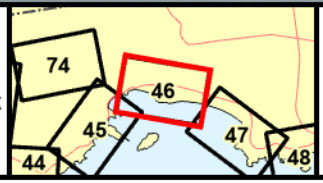

Figure 46
Stormwater Discharge Location and Level of Concern



Making a difference...together

Metres
0 25 50 100 150
Projection: UTM ZONE 10N NAD 83

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For Area Key Index See Figure 2

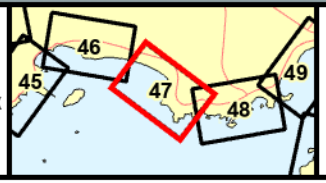

Figure 47
Stormwater Discharge Location and Level of Concern



Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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W S N E

For Legend See Figure 1

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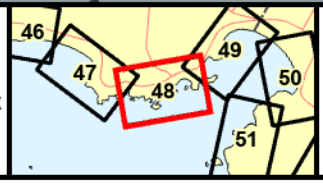
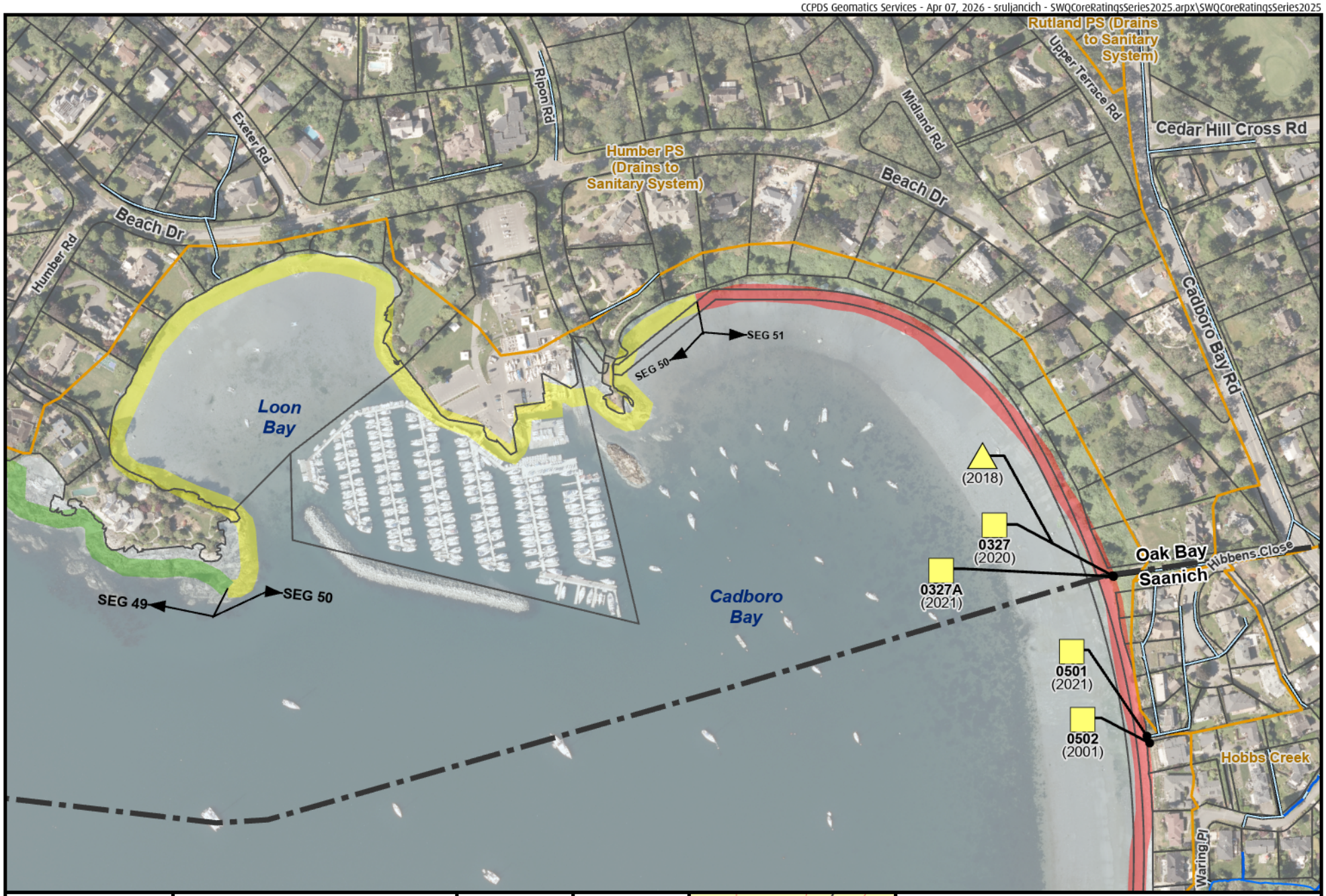


Figure 48

Stormwater Discharge Location and Level of Concern



CRD
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Metres
0 25 50 100 150
Projection: UTM ZONE 10N NAD 83

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For Legend
See Figure 1

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Figure 2

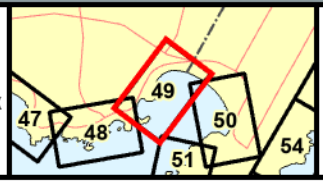
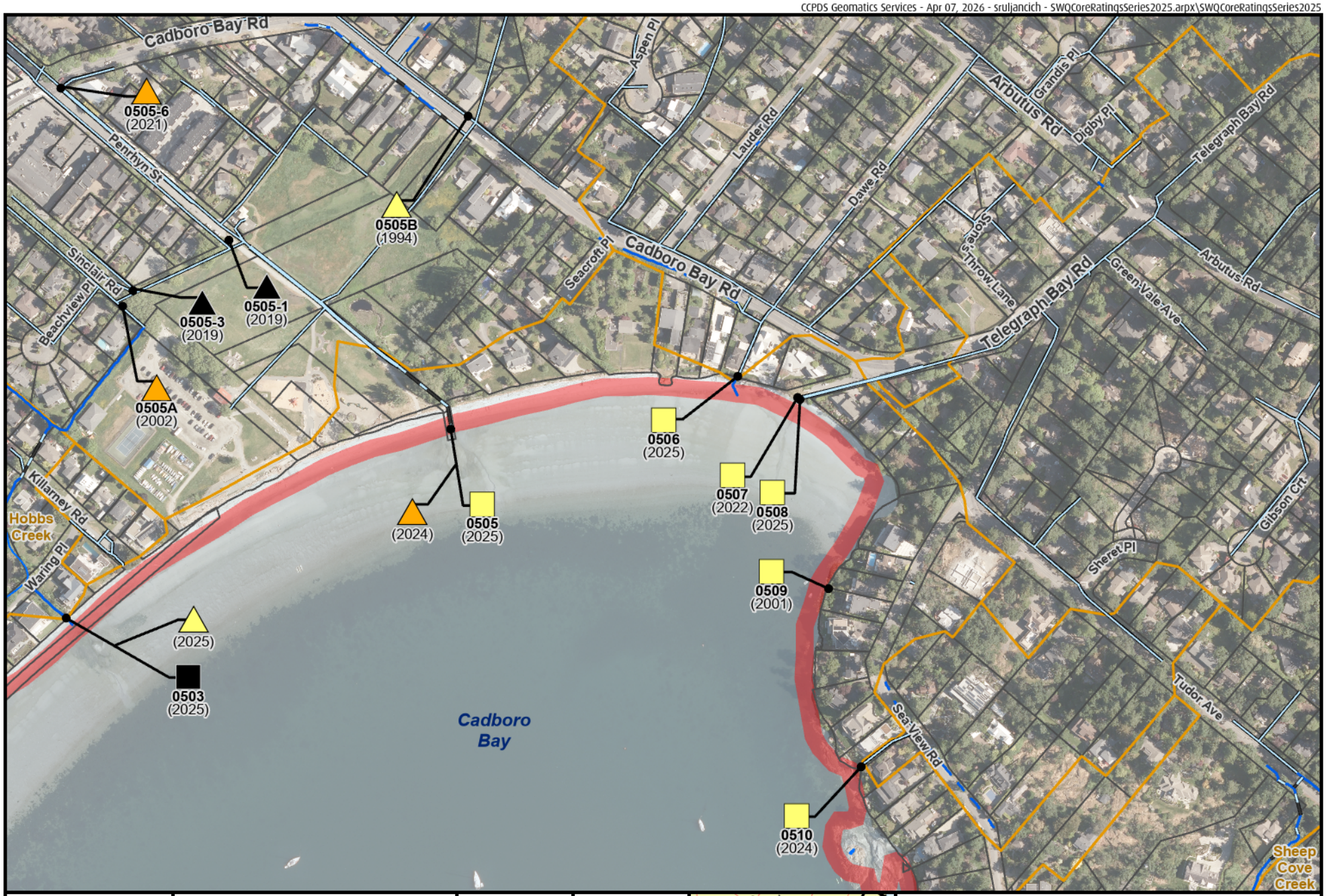


Figure 49
Stormwater Discharge Location and Level of Concern



CRD Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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N W E S

For Legend See Figure 1

For Area Key Index See Figure 2

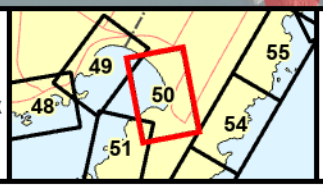
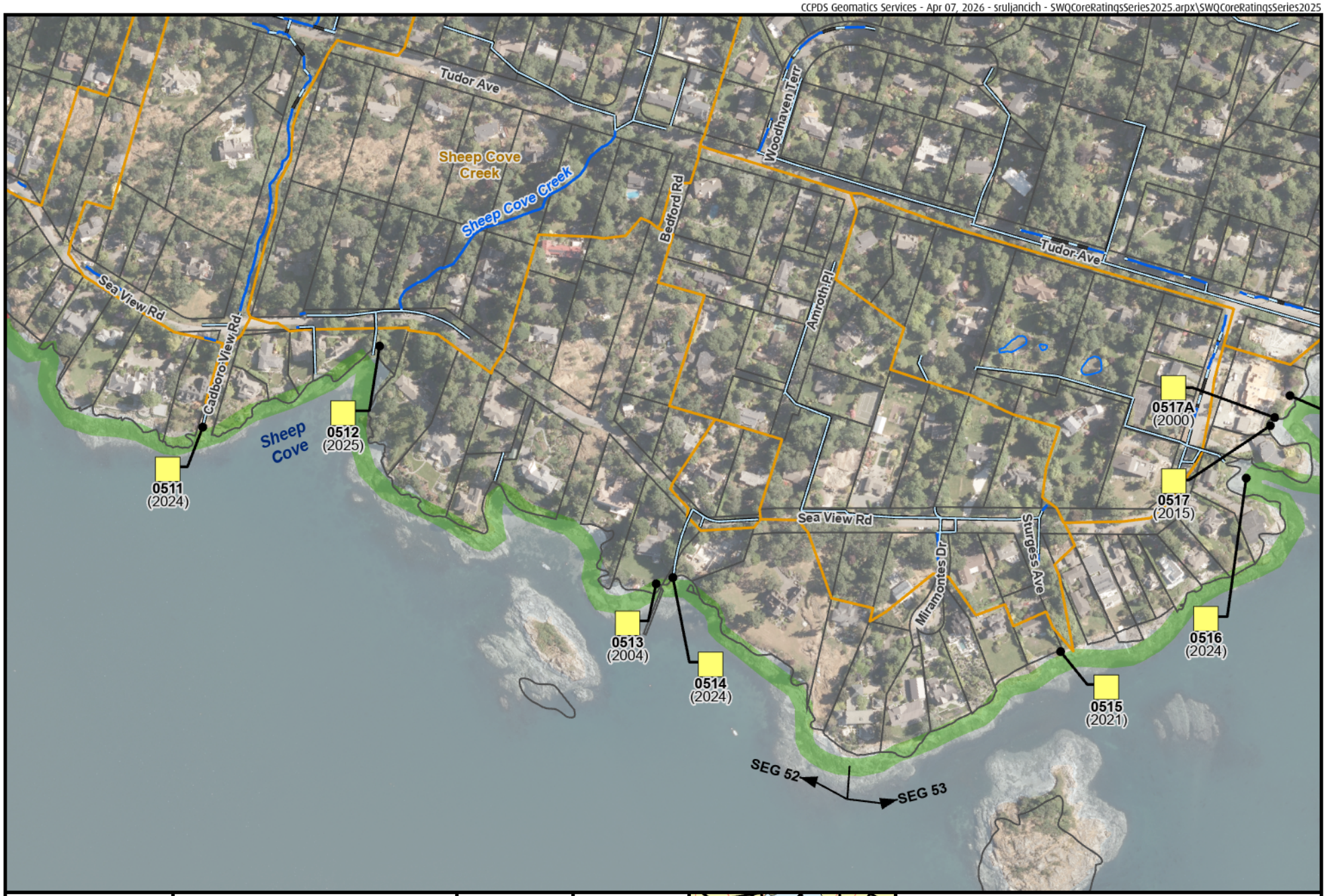


Figure 50

Stormwater Discharge Location and Level of Concern



Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

N E S W

For Legend See Figure 1

For Area Key Index See Figure 2

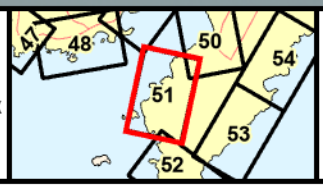


Figure 51

Stormwater Discharge Location and Level of Concern

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CRD
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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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W N S E

For Legend
See Figure 1

For Area Key Index
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Figure 2

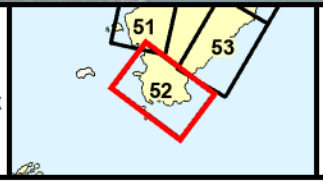

Figure 52

Stormwater Discharge Location and Level of Concern



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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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For Area Key Index See Figure 2

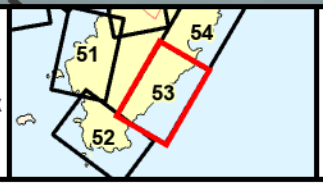
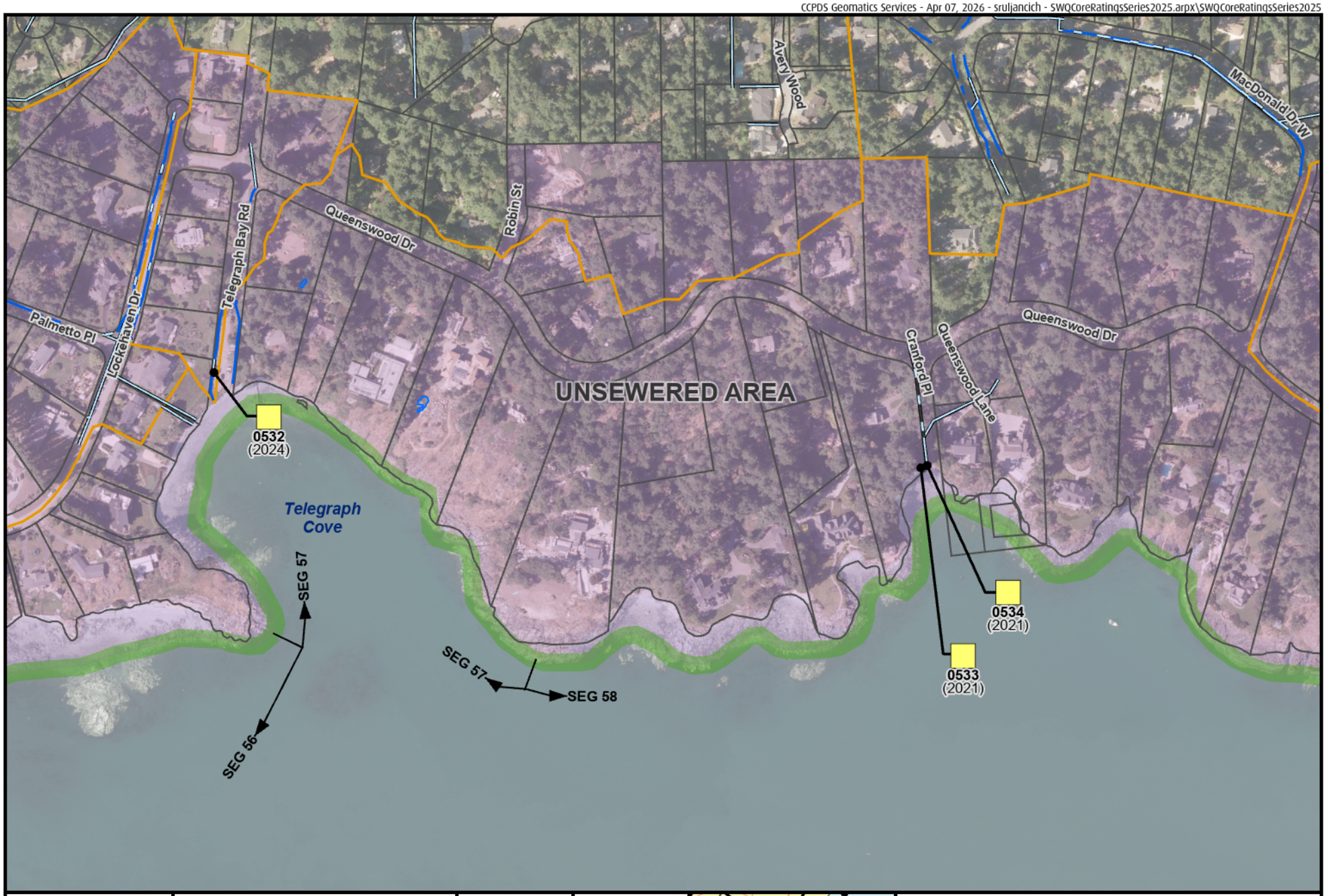


Figure 53

Stormwater Discharge Location and Level of Concern



Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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For Area Key Index See Figure 2

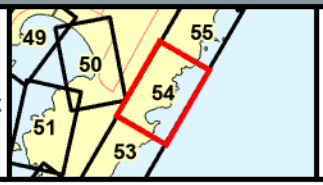

Figure 54

Stormwater Discharge Location and Level of Concern



Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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For Area Key Index See Figure 2

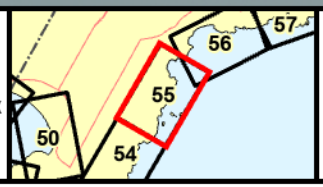
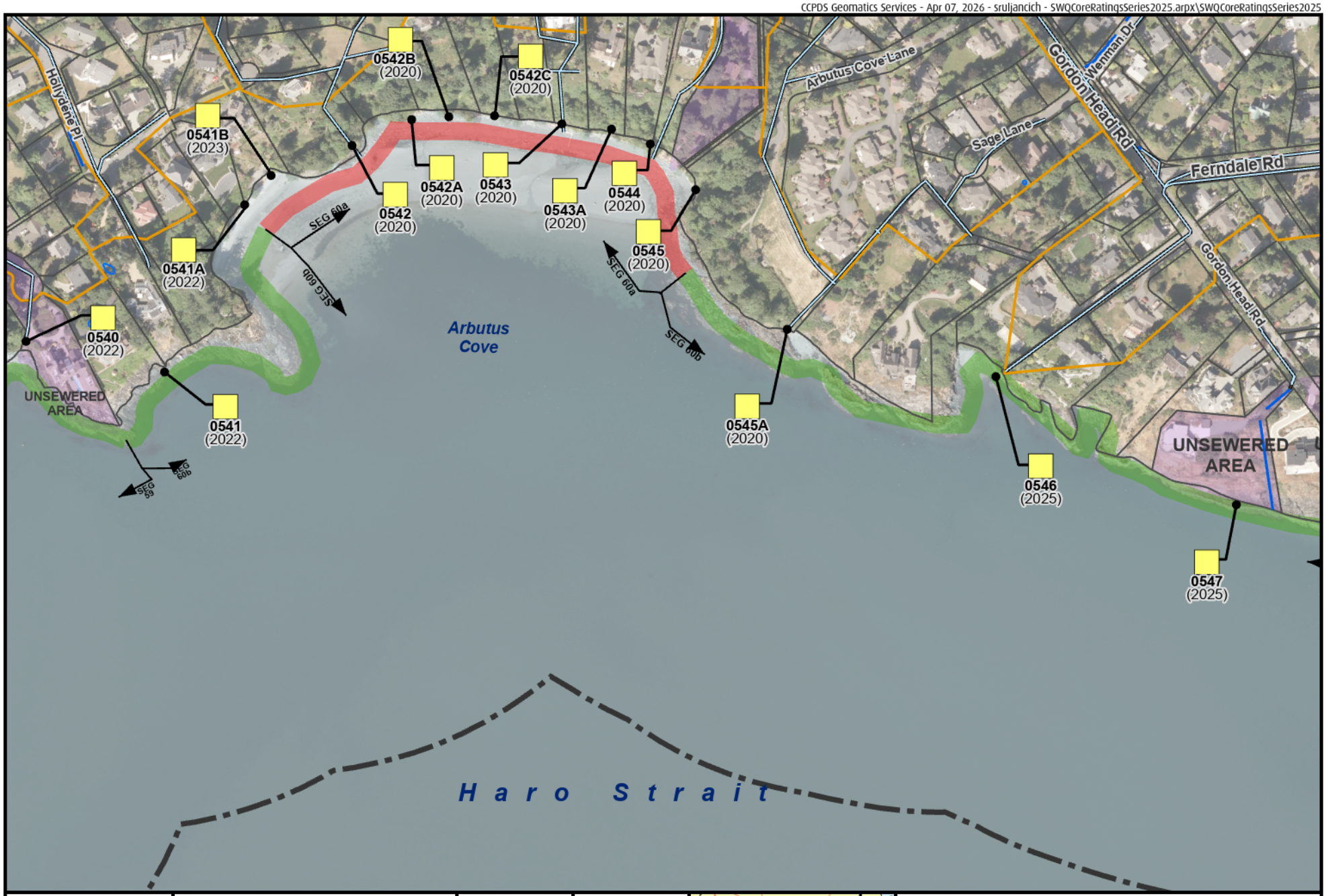


Figure 55

Stormwater Discharge Location and Level of Concern



CRD
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0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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W S N E

For Legend See Figure 1

For Area Key Index See Figure 2

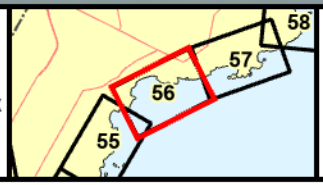

Figure 56

Stormwater Discharge Location and Level of Concern



CRD Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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W S N E

For Legend See Figure 1

For Area Key Index See Figure 2

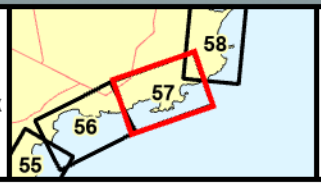
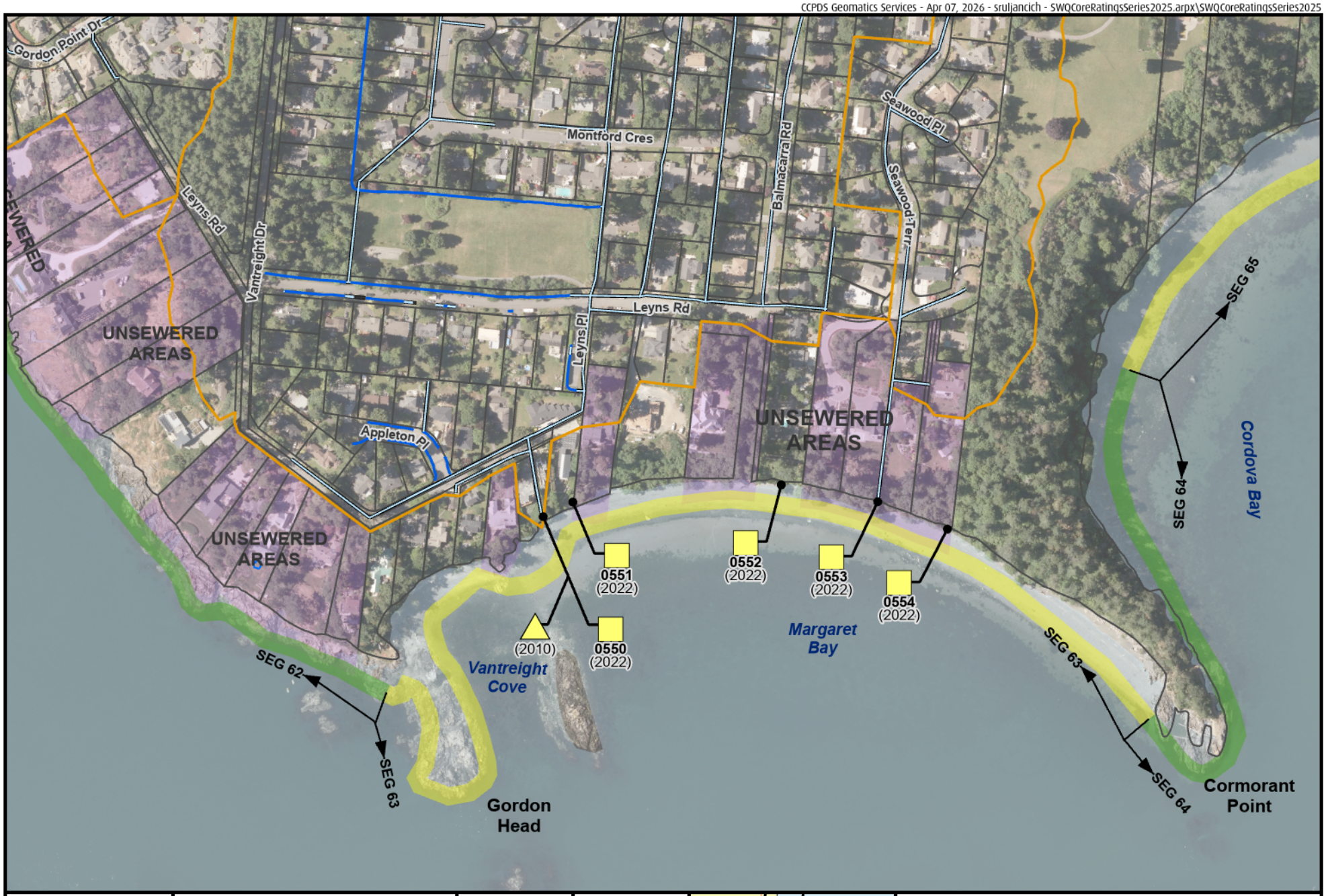


Figure 57

Stormwater Discharge Location and Level of Concern



CRD Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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S W E N

For Legend See Figure 1

For Area Key Index See Figure 3

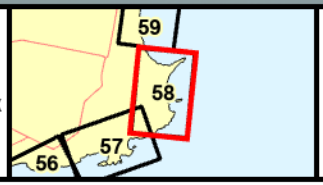

Figure 58

Stormwater Discharge Location and Level of Concern



Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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S W E N

For Legend See Figure 1

For Area Key Index See Figure 3

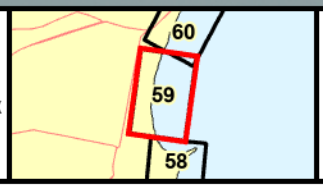
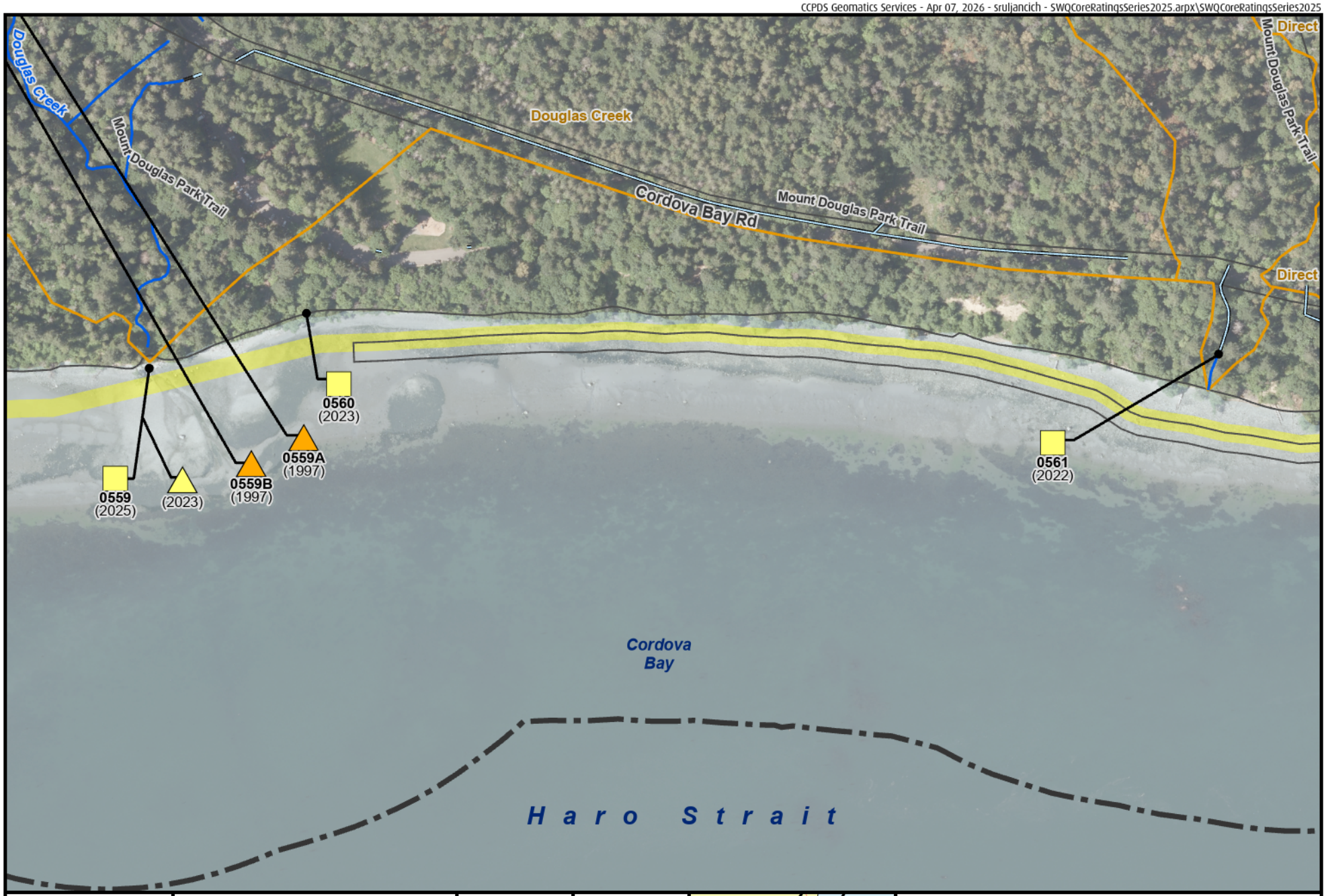


Figure 59

Stormwater Discharge Location and Level of Concern



CRD
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Metres
0 25 50 100 150
Projection: UTM ZONE 10N NAD 83

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For Legend
See Figure 1

For Area Key Index
See
Figure 3

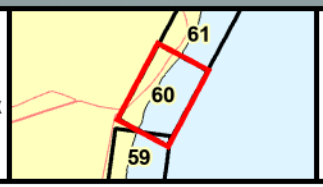
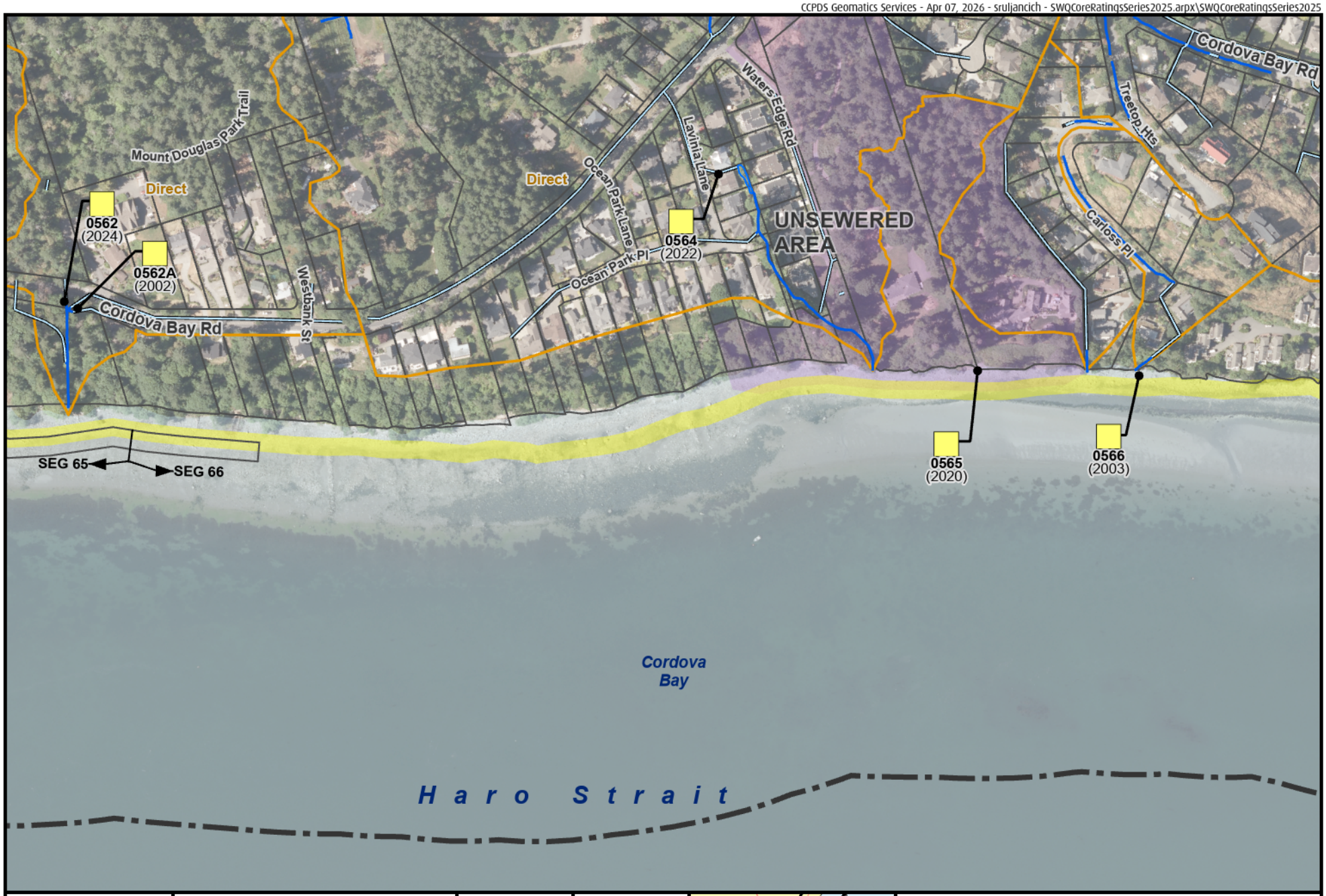


Figure 60
Stormwater Discharge Location and Level of Concern



CRD Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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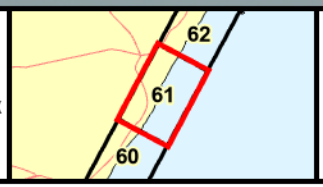

Figure 61

Stormwater Discharge Location and Level of Concern



CRD
Making a difference...together

0 25 50 100 150 Metres

Projection: UTM ZONE 10N NAD 83

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Figure 3

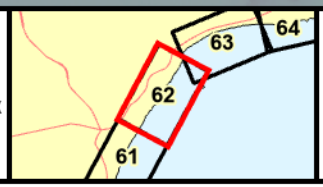

Figure 62
Stormwater Discharge Location
and Level of Concern



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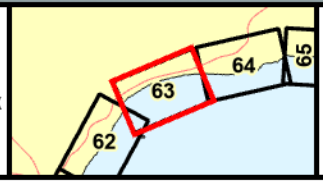
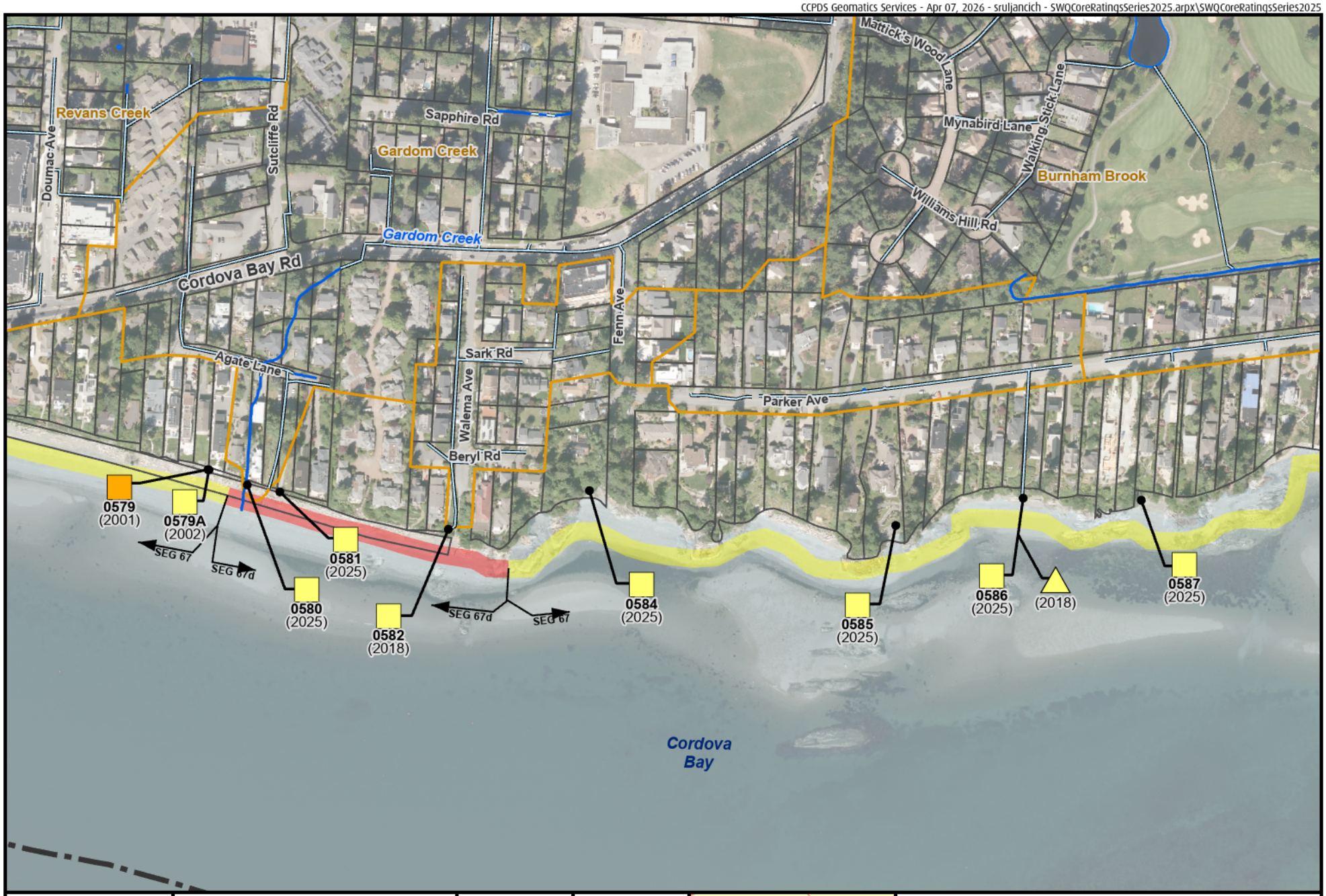


Figure 63

Stormwater Discharge Location and Level of Concern



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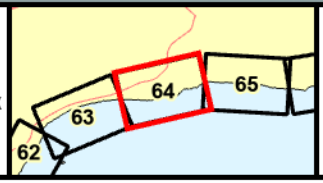
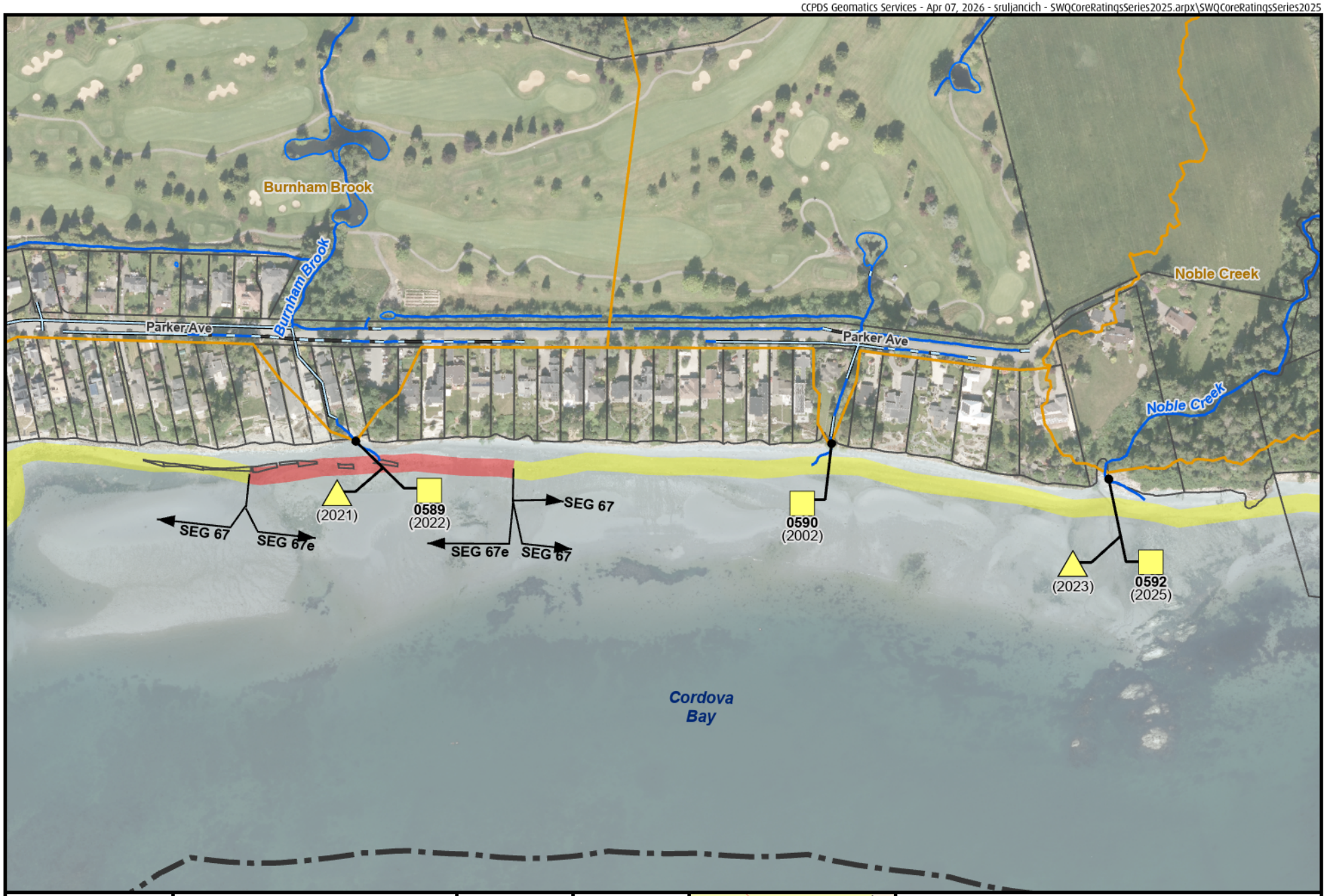


Figure 64

Stormwater Discharge Location and Level of Concern



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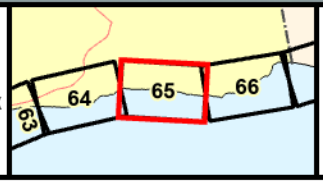
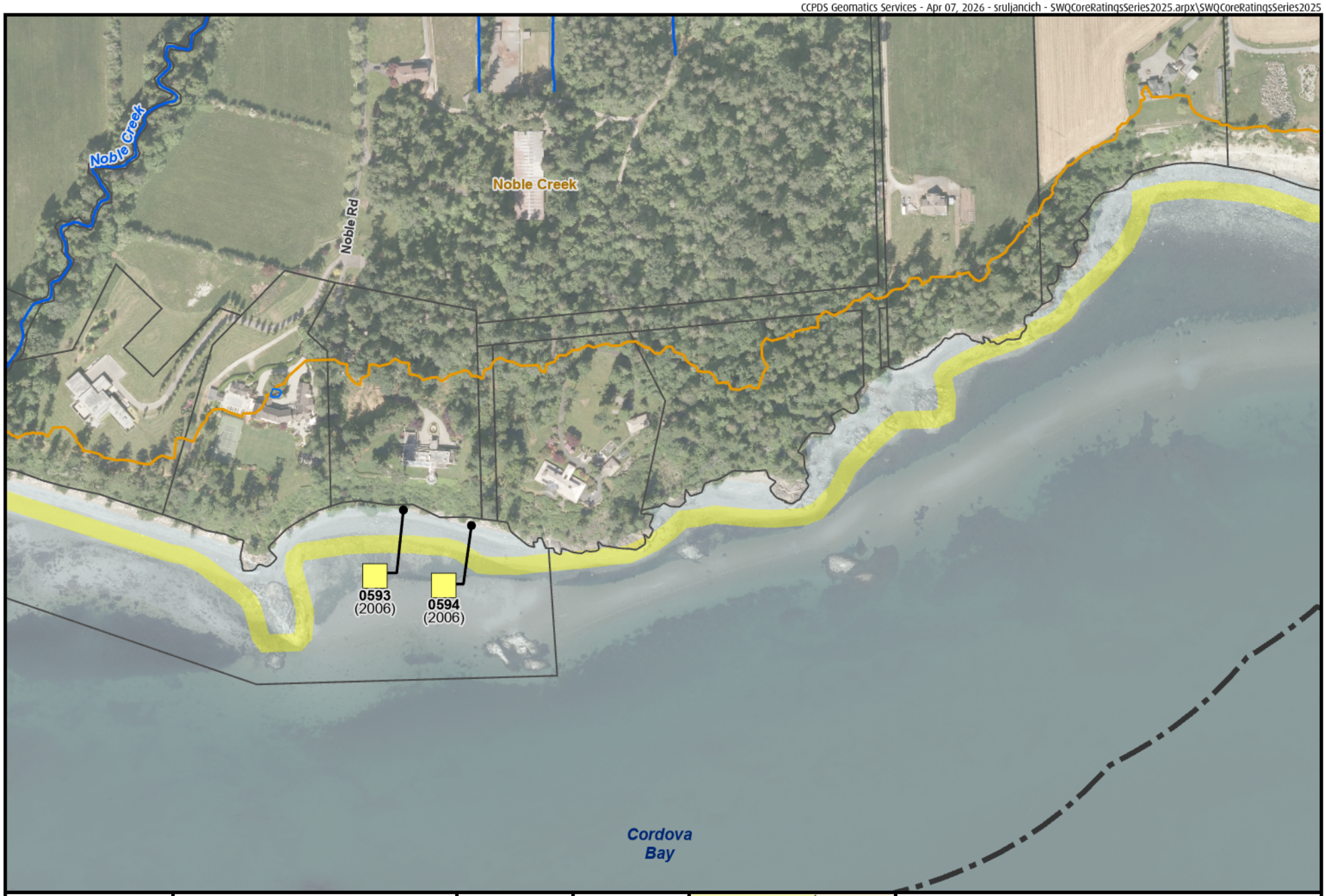


Figure 65

Stormwater Discharge Location and Level of Concern



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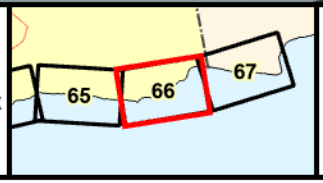

Figure 66

Stormwater Discharge Location and Level of Concern



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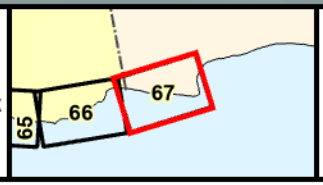
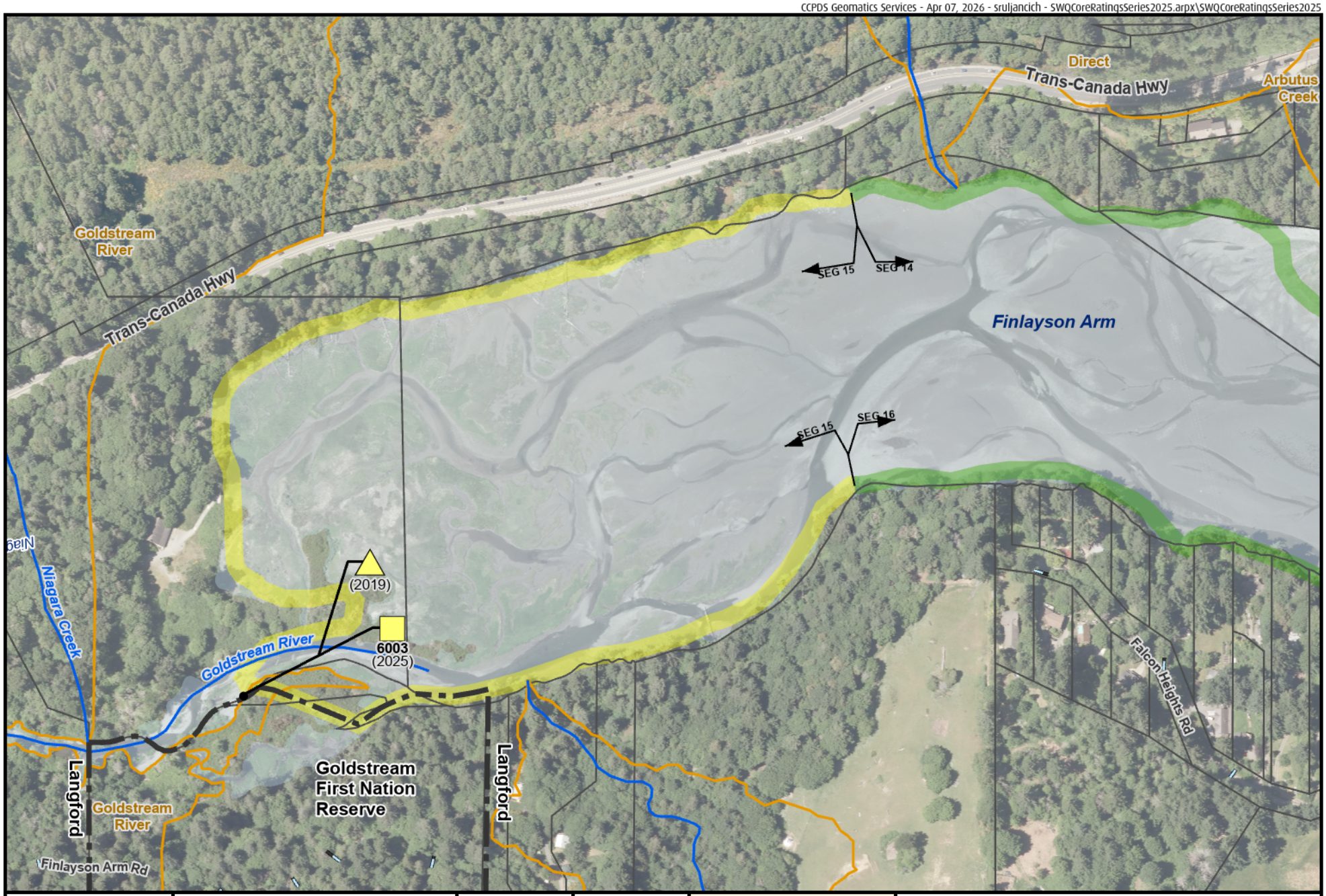


Figure 67

Stormwater Discharge Location and Level of Concern



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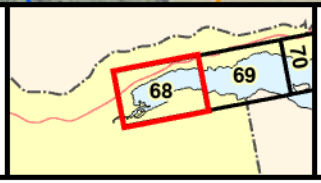
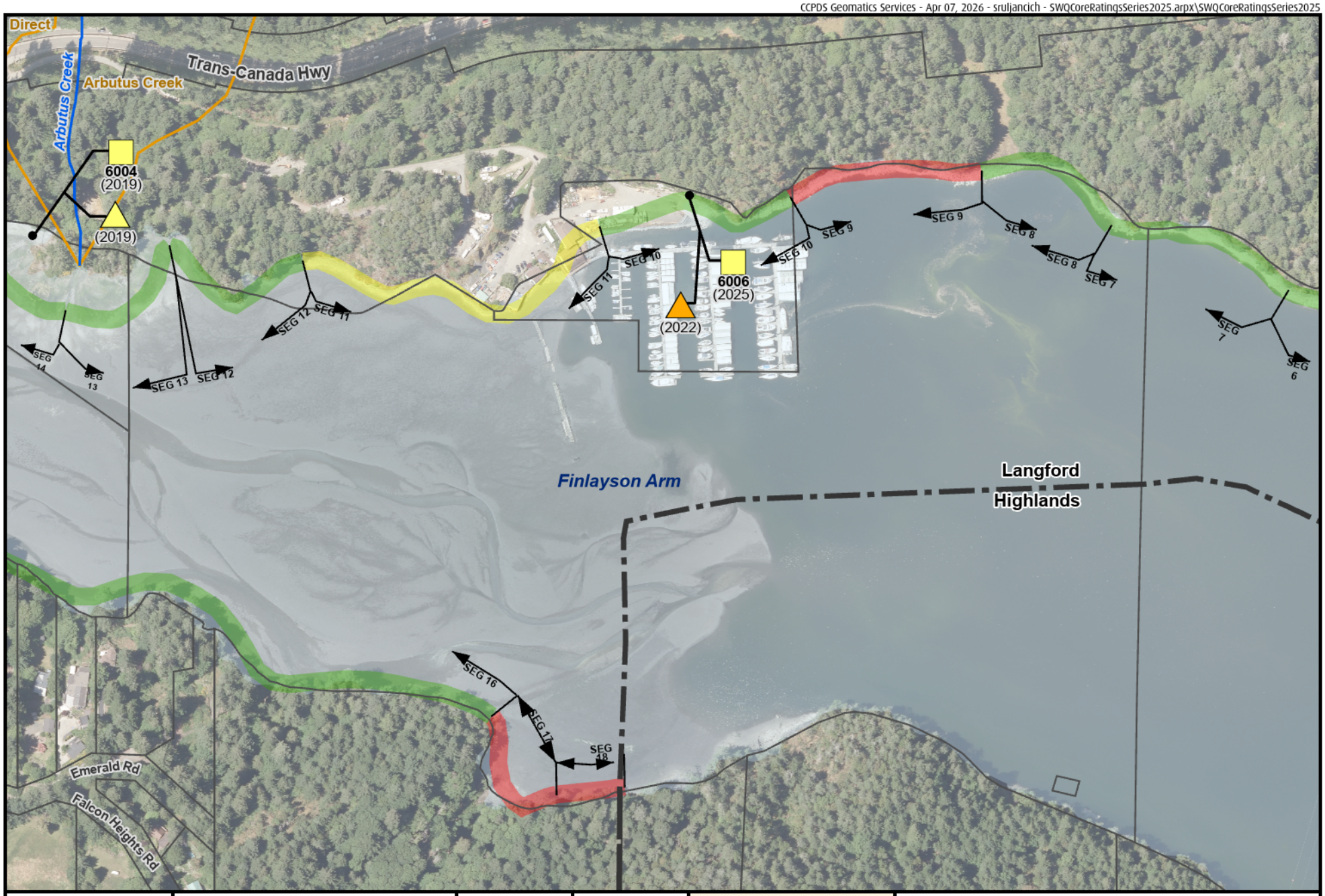


Figure 68

Stormwater Discharge Location and Level of Concern



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For Legend
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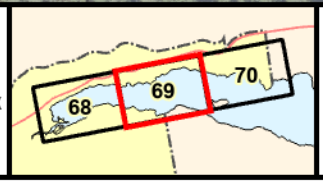
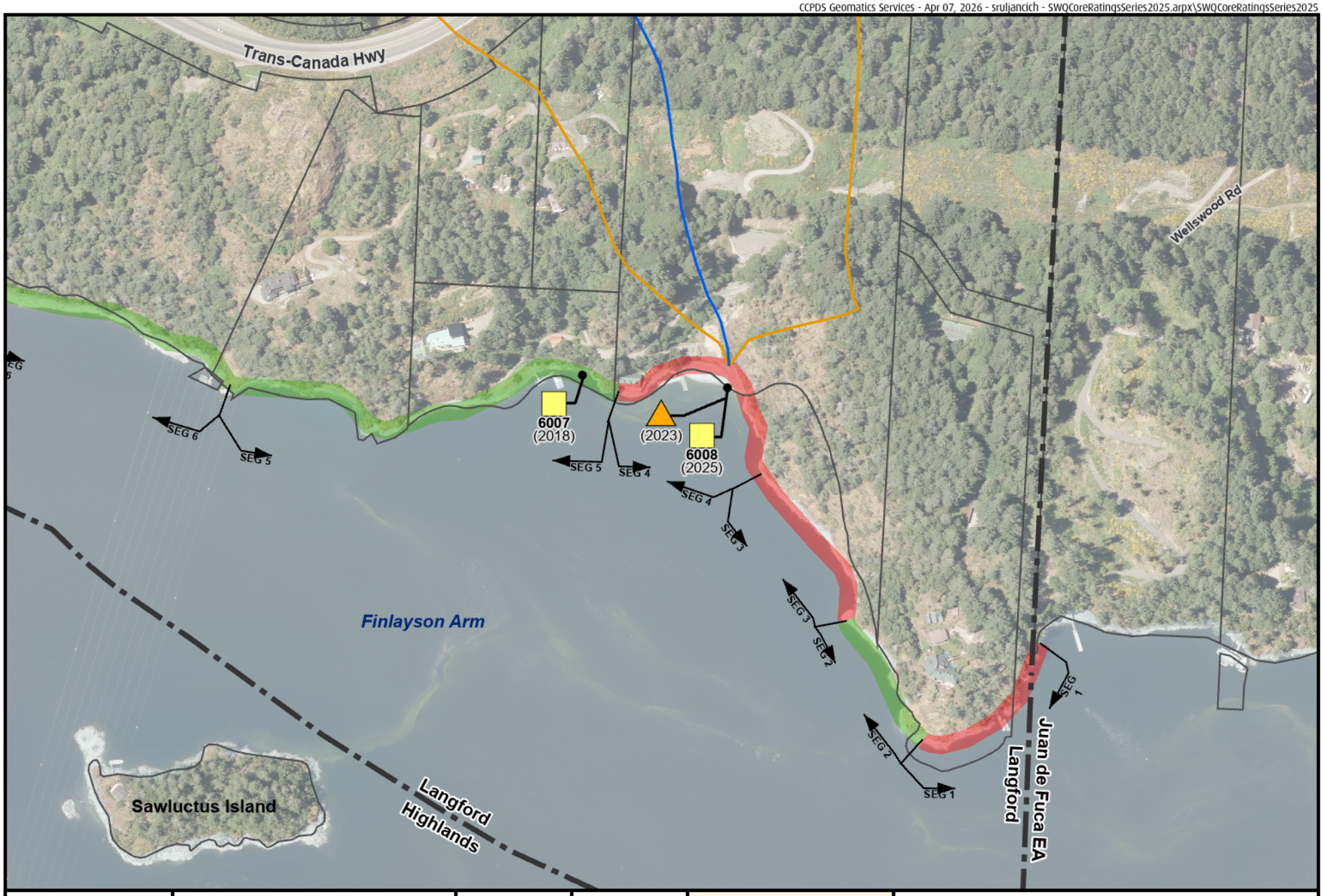


Figure 69
Stormwater Discharge Location
and Level of Concern



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Metres
0 25 50 100 150
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For Area Key Index
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Figure 4

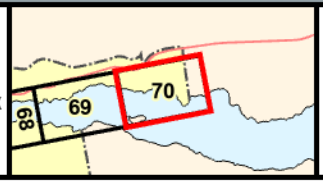
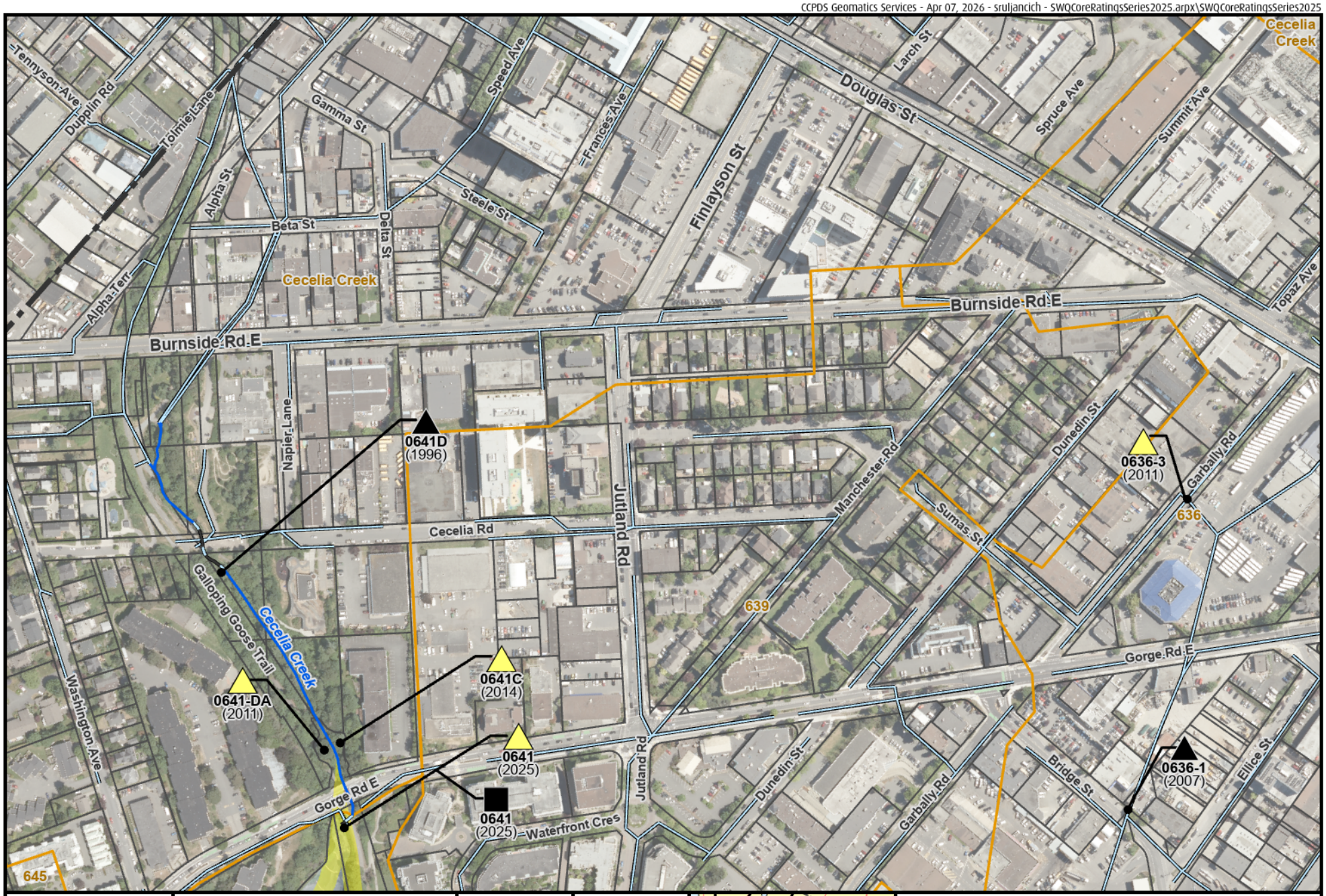


Figure 70
Stormwater Discharge Location
and Level of Concern



CRD
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Metres
0 25 50 100 150
Projection: UTM ZONE 10N NAD 83

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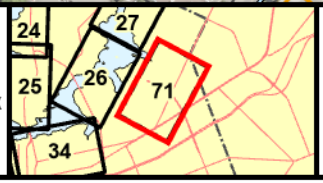
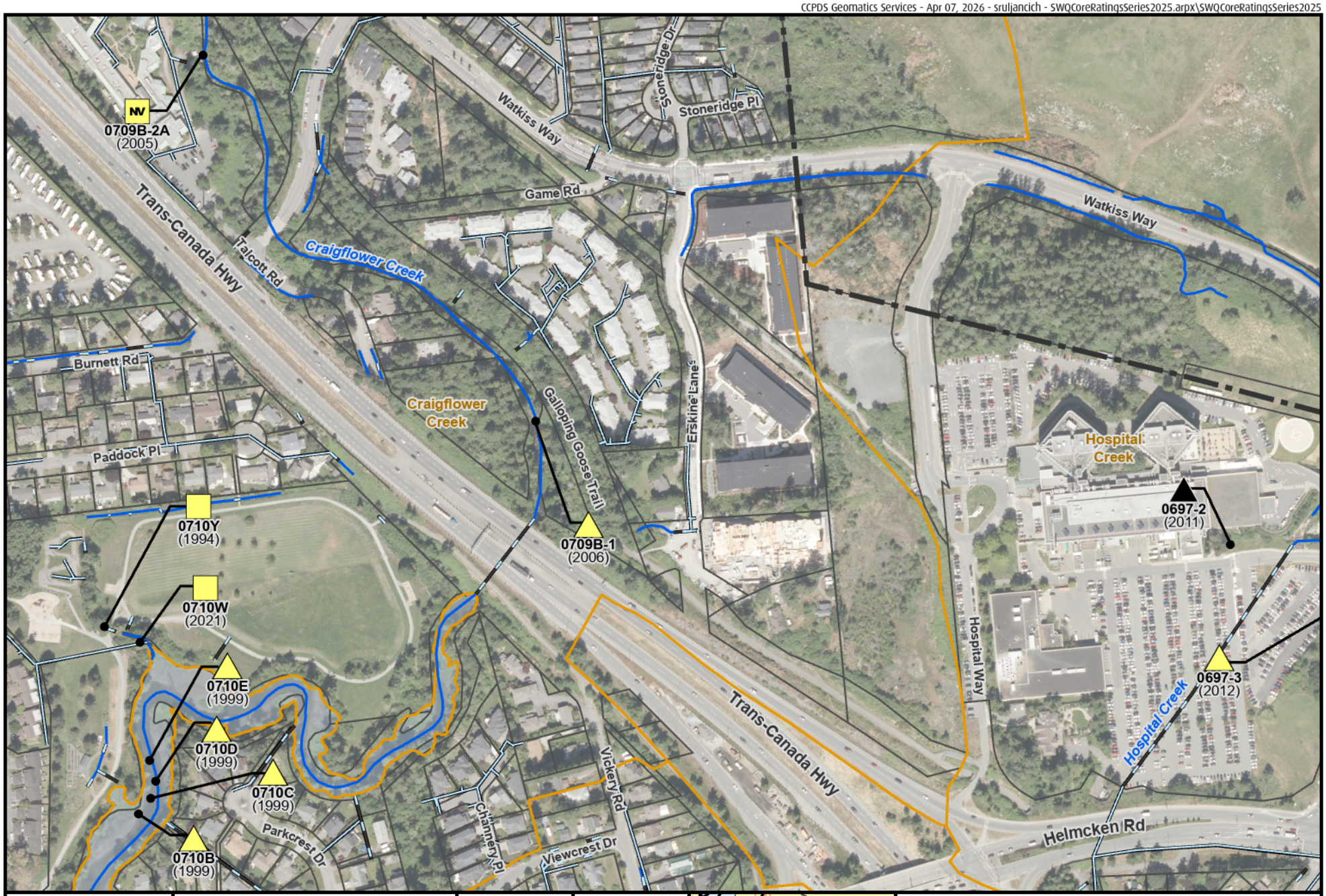


Figure 71

Stormwater Discharge Location and Level of Concern



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W N S E

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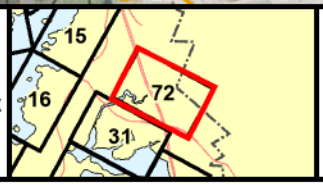
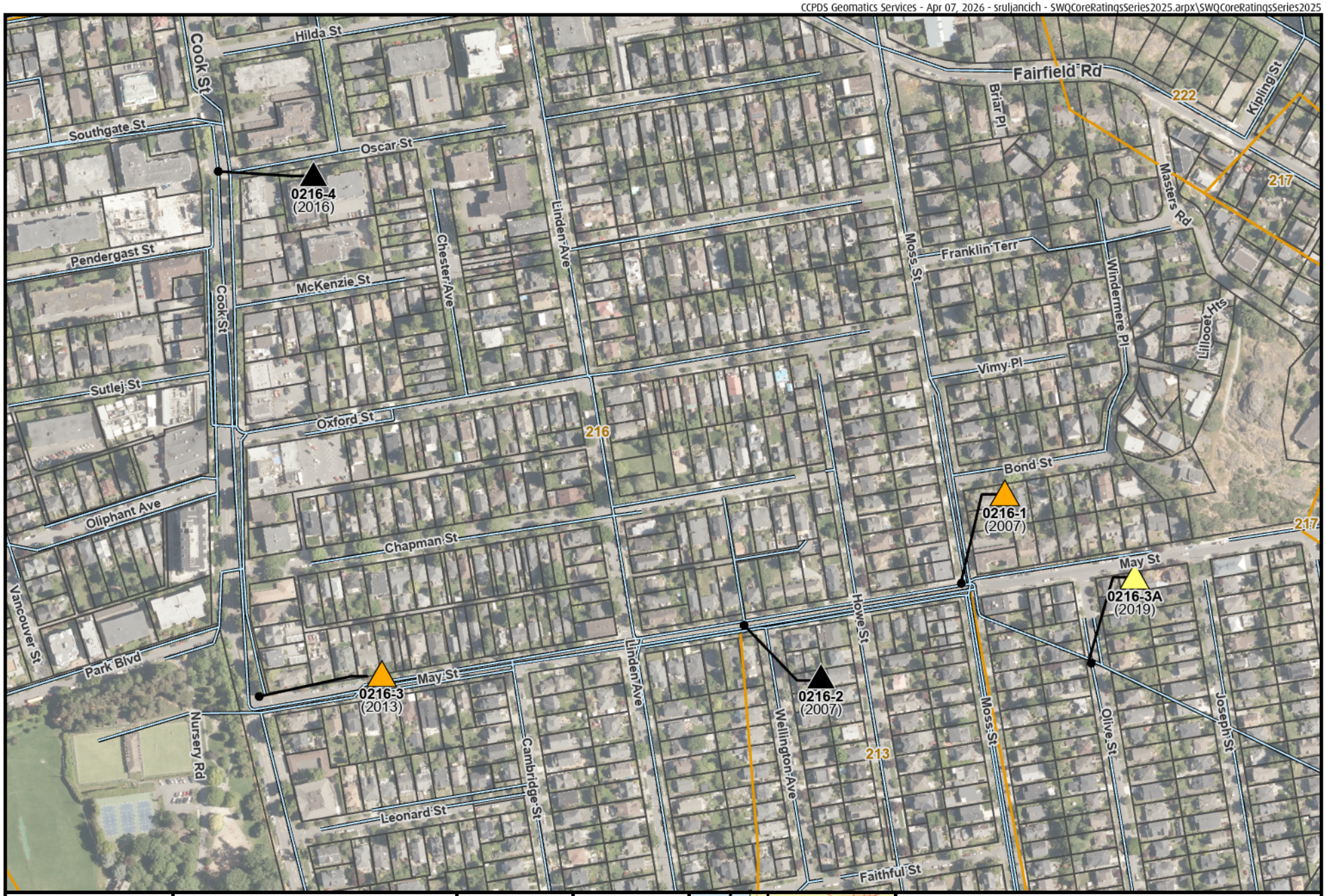


Figure 72

Stormwater Discharge Location and Level of Concern



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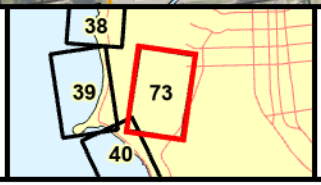
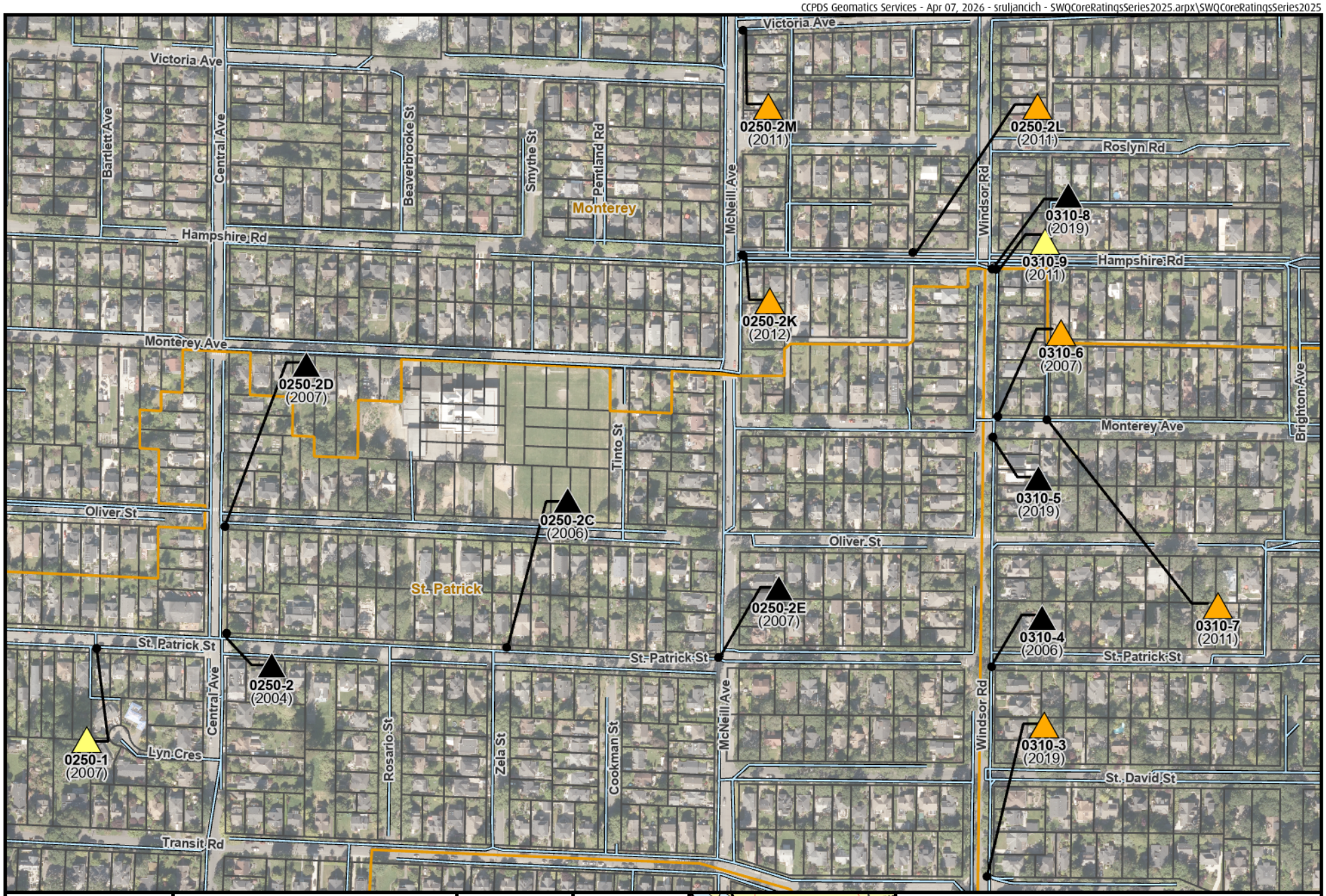


Figure 73

Stormwater Discharge Location and Level of Concern



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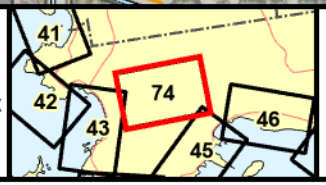

Figure 74

Stormwater Discharge Location and Level of Concern

APPENDIX B

CORE AREA STORMWATER PUBLIC HEALTH CONCERN RATINGS

Table 1 **Core Area Public Health Concern Ratings**

Discharge	Jurisdiction at Discharge	Figure No.	Bacterial Rating	Public Shoreline Use Rating	Sum of Ratings	Level of Concern			2025 Comments	Recommendations
						2023	2024	2025		
0209	Victoria	37	3	2	5	**High**	**High**	**High**	208 is an overflow for 209; infrastructure upgrades; very high count in 2023	Continue monitoring
0210	Victoria	37	2	2	4	Low	Moderate	Moderate		Continue monitoring
0212	Victoria	39	2	3	5	Low	Moderate	**High**	new source	Confirm rating
0214	Victoria	39	3	2	5	**High**	Low	Moderate	SPSO; work done upstream; 213 on Victoria maps	Confirm rating
0216	Victoria	40	3	3	6	**High**	**High**	**High**	SPSO, high flow, sewage odour	Continue monitoring
0217	Victoria	40	1	3	4	Low	Moderate	Moderate	Combined flow with 0218; outfall pipe underwater	Confirm rating
0222	Victoria	40	3	3	6	**High**	**High**	**High**	lower count in 2025	Continue monitoring
0227	Victoria	41	2	2	4	Moderate	Moderate	Moderate	low flow SPSO; SS and SD relining completed	Continue monitoring
0229	Victoria	41	2	3	5	Moderate	Moderate	Moderate	Gonzales Bay; dry in summer; elevated counts during rain	Continue monitoring
0230	Victoria	41	3	2	5	**High**	**High**	**High**	Gonzales Bay; outfall in ocean; sampled manhole	Continue monitoring and investigations
0236	Oak Bay	41	3	1	4	Moderate	Moderate	Moderate	higher in summer	Continue monitoring
0237	Oak Bay	42	2	2	4	Moderate	Moderate	Moderate	elevated in summer but low flow	Continue monitoring
0238	Oak Bay	42	1	2	3	NR	Low	Low	low in winter; dry in summer; difficult to access	Resample in 2028
0244	Oak Bay	43	3	2	5	Moderate	Moderate	**High**	new source	Continue monitoring and start investigations
0245	Oak Bay	43	3	3	6	**High**	**High**	**High**	suds observed occasionally	Continue monitoring
0249	Oak Bay	43	1	2	3	Low	Moderate	Low	dry in both seasons	Confirm rating
0250	Oak Bay	43	3	2	5	Moderate	Moderate	Moderate		Continue monitoring
0301	Oak Bay	44	1	1	2	NR	Low	Low	low in winter; dry in summer	Resample in 2029
0307	Oak Bay	45	3	2	5	Moderate	**High**	**High**		
0315	Oak Bay	46	3	2	5	NR	NR	Low	sewer odour	Confirm rating
0316	Oak Bay	46	2	2	4	Moderate	Moderate	Moderate	Bowker Creek; high flows, SPSO	Continue monitoring creek
0318	Oak Bay	46	2	3	5	**High**	**High**	Moderate	manhole when tide is high	Confirm rating
0319	Oak Bay	46	3	3	6	Low	Low	Low	Willows Beach	Continue monitoring

Table 1 Core Area Public Health Concern Ratings, continued

Discharge	Jurisdiction at Discharge	Figure No.	Bacterial Rating	Public Shoreline Use Rating	Sum of Ratings	Level of Concern			2025 Comments	Recommendations
						2023	2024	2025		
0320	Oak Bay	46	2	3	5	Moderate	**High**	**High**	Willows Beach	Continue monitoring
0321	Oak Bay	47	2	3	5	Low	Moderate	Low	Willows Beach, outfall	Confirm rating
0322	Oak Bay	47	2	3	5	**High**	**High**	Moderate	Willows Beach, outfall	Confirm rating
0323	Oak Bay	47	1	3	4	Moderate	Moderate	Moderate	stream; lots of birds	Continue monitoring
0503	Saanich	50	2	3	5	**High**	**High**	**High**	Cadboro Bay; duck pond upstream; counts lower	Continue monitoring
0505	Saanich	50	1	3	4	Low	Low	Low	large diffuser	Continue monitoring
0506	Saanich	50	1	3	4	Low	Low	Low		Resample in 2028
0508	Saanich	50	1	3	4	Low	Low	Low	large diffuser	Continue monitoring
0512	Saanich	51	1	1	2	NR	NR	Low		Resample in 2030
0518	Saanich	52	1	2	3	Low	Low	Low	high count in 2023	Confirm rating
0539	Saanich	55	1	2	3	Moderate	Low	Low	occasionally elevated	Confirm rating
0546	Saanich	56	1	1	2	NR	NR	Low	low counts	Resample in 2030
0547	Saanich	56	1	1	2	NR	NR	Low	dry in summer; low flow in winter; ditch	Resample in 2030
0548	Saanich	57	3	1	4	NR	Low	Moderate	elevated in winter	Confirm rating
0549	Saanich	57	1	3	4	NR	Low	Low	low counts; low flows	Confirm rating
0558	Saanich	59	2	2	4	Low	Low	Moderate	near PKOLS / Mt. Douglas Park access	Confirm rating
0559	Saanich	60	1	3	4	Moderate	Low	Low	PKOLS / Mt. Douglas Creek high flows, SPSO 5/30s in 2025; occasional high count during rain and upstream; surge flows	Continue monitoring
0567	Saanich	62	1	2	3	Moderate	Low	Low	beach access, waterfall; source repaired; low counts; low flows	Confirm rating
0571	Saanich	62	1	2	3	Low	Low	Low		Resample in 2030
0573	Saanich	62	1	2	3	Low	Low	Low		Resample in 2030
0574	Saanich	62	3	2	5	Moderate	Moderate	**High**	Galey Brook; new source	Confirm rating and start investigations
0578	Saanich	63	1	3	4	Low	Low	Low	high use beach	Continue monitoring
0580	Saanich	64	1	3	4	Moderate	Low	Low	high use beach	Continue monitoring
0581	Saanich	64	1	3	4	Moderate	Low	Low	high use beach	Continue monitoring
0584	Saanich private	64	1	1	2	NR	NR	Low	high use beach; dry	Continue monitoring

Table 1 Core Area Public Health Concern Ratings, continued

Discharge	Jurisdiction at Discharge	Figure No.	Bacterial Rating	Public Shoreline Use Rating	Sum of Ratings	Level of Concern			2025 Comments	Recommendations
						2023	2024	2025		
0585	Saanich private	64	1	1	2	NR	NR	Low		Resample in 2030
0585	Saanich private	64	1	1	2	NR	NR	Low	dry	Resample in 2030
0586	Saanich	64	1	1	2	NR	NR	Low		Resample in 2030
0587	Saanich private	64	2	1	3	NR	NR	Low		Resample in 2030
0592	Saanich	65	1	1	2	Low	Low	Low	high use beach	Continue monitoring
0603	Victoria	36	2	2	4	**High**	**High**	Moderate	lower counts; relining and infrastructure upgrades	Confirm rating
0606	Victoria	36	1	2	3	NR	NR	Low	doesn't flow; DND	resample in 2030
0607	Victoria	36	3	2	5	**High**	**High**	**High**	SPSO	Continue monitoring; start source investigations
0608	Victoria	35	1	2	3	Low	Low	Low	dry; private; high count in 2024	Confirm rating
0610	Victoria	35	3	2	5	Moderate	**High**	**High**		Confirm rating; do investigations
0611	Victoria	35	3	2	5	**High**	**High**	**High**	narrowed to legislature building; contacted them many times	Continue monitoring
0613	Victoria	35	2	2	4	Moderate	**High**	Moderate	variable counts	Continue monitoring and source investigations
0614	Victoria	35	3	2	5	**High**	**High**	**High**		Continue monitoring
0619	Victoria	34	3	2	5	**High**	**High**	**High**	sewer odour	Continue monitoring
0620	Victoria	34	3	2	5	Moderate	Moderate	Moderate	near bridge	Confirm rating
0622	Victoria	34	1	2	3	Low	Moderate	Low	near kayak launch; occasional high count	Confirm rating
0623	Victoria	34	3	1	4	NR	Low	Moderate	new source; flow and E.coli increased	Confirm rating and start investigations
0626	Victoria	34	3	1	4	Moderate	Moderate	Moderate	brewery waste source found; need permission to access discharge	Continue monitoring
0627	Victoria	34	3	1	4	Moderate	Moderate	Moderate	need permission to access; high flow	Continue monitoring
0629	Victoria	26	3	1	4	Moderate	Moderate	Moderate	lower count; only one sample	Continue monitoring and investigations
0633	Victoria	26	1	1	2	Low	Low	Low	small catchment; only one sample; low flow	Resample in 2029

Table 1 Core Area Public Health Concern Ratings, continued

Discharge	Jurisdiction at Discharge	Figure No.	Bacterial Rating	Public Shoreline Use Rating	Sum of Ratings	Level of Concern			2025 Comments	Recommendations
						2023	2024	2025		
0634	Victoria	26	3	1	4	Moderate	Moderate	Moderate	low flow; hydrocarbon, compost odours	Source narrowed; continue monitoring
0636	Victoria	26	3	1	4	Moderate	Moderate	Moderate	high flow; counts fluctuate; foul odour, murky, grey	Continue monitoring; start investigations
0641	Victoria	71	3	2	5	Moderate	**High**	**High**	Cecelia Creek; high flow; repaired main; SPSO	Continue monitoring and source investigations
0644	Victoria private	27	1	2	3	Moderate	Low	Low	High counts in past	Confirm rating
0645	Victoria	27	2	2	4	Moderate	Moderate	Moderate	counts fluctuate; flow intermittent; surges flows with high counts	Continue monitoring
0649	Victoria private	27	1	2	3	Moderate	Low	**High**	Gorge Road Health Centre private; 2025 sewage spill due to COV cross-connection	Confirm rating
0650	Victoria	27	3	2	5	**High**	**High**	**High**	low flow in summer	Continue monitoring
0653	Saanich	27	2	2	4	Low	Moderate	Moderate		Continue monitoring
0654	Saanich private	27	1	2	3	NR	NR	Low	Cedar Shore Apts; private drain	Resample in 2030
0658	Saanich	28	1	2	3	NR	NR	Low	low counts	Resample in 2030
0669	Saanich	29	1	2	3	Low	Low	Low	low flow; low counts	Resample in 2030
0671	Saanich	29	1	2	3	Moderate	**High**	Low	cross connection fixed in 2025	Confirm rating
0672	Saanich	29	1	2	3	NR	NR	Low	not connected to municipal system; suds	Resample in 2030
0674	Saanich	29	1	2	3	NR	NR	Low	dry	Resample in 2030
0675	Saanich	29	1	2	3	NR	Low	Low	often dry	Resample in 2030
0676	Saanich	29	1	2	3	Low	Low	Low	SPSO, low counts; dry in summer	Resample in 2030
0697	View Royal	31	1	2	3	Low	Low	Low	Hospital Creek: SPSO	Continue monitoring
0703	View Royal	31	1	2	3	Low	Low	Low		Resample in 2030
0722	View Royal	30	1	2	3	Low	Low	Low	one elevated count	Resample in 2030
0723	Esquimalt	30	1	2	3	NR	Low	Low	dry	Resample in 2030
0726	Esquimalt/Songhees F.N.	29	1	2	3	Moderate	Moderate	Low	high flows, occasionally elevated	Confirm rating
0732	Esquimalt	29	1	2	3	NR	NR	Low	low flows; low counts	Confirm rating
0735	Esquimalt	29	1	2	3	NR	Low	Low	dry in summer; low counts in winter	Resample in 2030

Table 1 Core Area Public Health Concern Ratings, continued

Discharge	Jurisdiction at Discharge	Figure No.	Bacterial Rating	Public Shoreline Use Rating	Sum of Ratings	Level of Concern			2025 Comments	Recommendations
						2023	2024	2025		
0737	Esquimalt	29	1	2	3	Low	Moderate	Low	dry in summer; low count in winter	Confirm rating
0742	Esquimalt	28	1	2	3	Moderate	Low	Low		Confirm rating
0744	Esquimalt	28	2	2	4	Moderate	Moderate	Moderate	Gorge Creek	Continue monitoring; investigate sources
0749	Esquimalt	28	2	2	4	Moderate	Moderate	Moderate	low flows; low counts	Continue monitoring;
0751	Esquimalt	28	2	2	4	Moderate	Moderate	Moderate		Continue monitoring
0758	Victoria	27	1	2	3	NR	NR	Low	sampled 5 times; low flows, low counts	Resample in 2030
0759	Victoria	26	1	2	3	Moderate	Low	Low	low flows; low counts	Confirm rating
0760	Victoria	26	1	1	2	NR	NR	Low	dry in summer	Confirm rating
0761	Victoria	26	1	1	2	NR	NR	Low	dry in summer	Resample in 2030
0764	Victoria	26	3	1	4	NR	NR	Moderate	elevated count exceeded hold time; low when resampled	Confirm rating
0768	Victoria	25	1	2	3	Moderate	Moderate	Low	SPSO	Confirm rating
0769	Victoria	25	2	2	4	Moderate	Moderate	Moderate	SPSO?	Continue monitoring
0774	Victoria	25	1	2	3	NR	Low	Low	small catchment	Continue monitoring
0775	Victoria	24	2	2	4	**High**	Moderate	Moderate	SPSO	Confirm rating
0779	Esquimalt	24	3	2	5	Moderate	Low	Moderate		Confirm rating
0780	Esquimalt	24	3	2	5	**High**	Moderate	Moderate	high flows	Continue monitoring
0781	Esquimalt	23	3	2	5	Moderate	**High**	**High**	sewer odour	Continue monitoring
0805	Esquimalt	22	3	3	6	**High**	**High**	**High**	SPSO	Continue monitoring and source investigations
0806	Esquimalt	22	3	3	6	**High**	**High**	**High**		Continue monitoring and source investigations
0810	Esquimalt	21	3	1	4	Low	Moderate	Moderate		Confirm rating
0811	Esquimalt	21	1	2	3	Moderate	Low	Low	dry	Resample in 2030
0812	Esquimalt	21	3	2	5	**High**	Moderate	**High**		Continue monitoring and source investigations
0814	Esquimalt	21	3	2	5	Moderate	**High**	**High**	SPSO; new source	Continue monitoring and start investigations

Table 1 Core Area Public Health Concern Ratings, continued

Discharge	Jurisdiction at Discharge	Figure No.	Bacterial Rating	Public Shoreline Use Rating	Sum of Ratings	Level of Concern			2025 Comments	Recommendations
						2023	2024	2025		
0854	Esquimalt/DND	19	3	1	4	Moderate	Moderate	Moderate	SPSO; lower counts; toilet paper present in past	Continue monitoring and investigate
0866	View Royal	16	1	1	2	NR	Low	Low		Resample in 2030
0867	View Royal	16	1	1	2	Low	Low	Low	dry; elevated count in 2024	Confirm rating
0875	View Royal	15	1	2	3	NR	Low	Low		Resample in 2030
0886	View Royal	14	1	2	3	Low	Low	Low	Millstream Creek; SPSO; spikes during heavy rainfall	Continue monitoring creek
0912	Colwood/Parks Canada	11	1	1	2	NR	NR	Low		Resample in 2030
0915	Colwood/DND	9	1	1	2	Low	Low	Low	creek	Resample in 2030
0916	Colwood/DND	9	1	1	2	Low	Low	Low	Colwood Creek; impacts seen in 2022	Continue monitoring and investigations ; sample in fall
0921	Colwood/DND	8	1	1	2	NR	Low	Low	stream	Resample in 2028
0922	Colwood/DND	8	1	1	2	NR	Low	Low	stream	Resample in 2028
0926	Colwood	8	1	2	3	Low	Low	Low	Bee Creek; higher than usual count	Continue monitoring creek
0927	Colwood	8	1	2	3	Low	Low	Low	elevated count in 2023	Continue monitoring
0928	Colwood	8	1	2	3	Low	Low	Low	Selleck Creek; discharges into Esquimalt Lagoon	Continue monitoring creek
0929	Colwood	7	1	2	3	Low	Low	Low	counts low; dry in summer	Elevated in 2022. Confirm rating
0931	Colwood	7	1	2	3	Low	Low	Low	Lagoona Brook; Esquimalt Lagoon; dry in summer	Continue monitoring
0932	Colwood	7	1	2	3	Low	Low	Low	discharges into Esquimalt Lagoon	Continue monitoring
0933	Colwood	7	1	2	3	Low	Low	Low	discharges into Esquimalt Lagoon	Continue monitoring
0937	Colwood	7	1	2	3	Low	Low	Low	dry in summer	Continue monitoring
0939	Colwood	7	1	2	3	NR	NR	Low	flow too low to sample	Confirm rating
6003	Langford	68	1	2	3	Low	Low	Low	Goldstream River SPSO	Continue monitoring
6006	Langford	68	1	1	2	Low	Low	Low	low flows; dry in summer	Continue monitoring
6008	Langford	70	1	3	4	Low	Low	Low	dry in summer	Continue monitoring

Table 1 Core Area Public Health Concern Ratings, continued

Discharge	Jurisdiction at Discharge	Figure No.	Bacterial Rating	Public Shoreline Use Rating	Sum of Ratings	Level of Concern			2025 Comments	Recommendations
						2023	2024	2025		
0237A	Oak Bay	42	1	2	3	NR	NR	Low	private discharge	Resample in 2028
0237B	Oak Bay	42	1	2	3	NR	NR	Low	private discharge	Resample in 2028
0310A	Oak Bay	45	2	2	4	Moderate	Moderate	Moderate		Continue monitoring
0313A	Oak Bay	45	3	2	5	NR	Low	Low		Resample in 2029
0321A	Oak Bay	47	3	3	6	Moderate	Moderate	Moderate	Willows Beach; discharge combined with 321 in late 2025	Confirm rating
0538A	Saanich	55	1	1	2	NR	Low	Low		Resample in 2030
0549A	Saanich	57	1	1	2	NR	Low	Low	low counts	Resample in 2030
0576A	Saanich	63	1	3	4	Low	Low	Low	high use beach	Continue monitoring
0607A	Victoria	36	3	2	5	**High**	Low	Moderate	eastern pipe; in 607 catchment	Confirm rating
0619A	Victoria	34	1	2	3	NR	NR	Low	not connected to COV drains	Confirm rating
0626A	Victoria	34	2	1	3	Moderate	Moderate	Low	newer pipe; elevated counts reduced; creosote odour	Confirm rating
0639A	Victoria	26	3	1	4	Moderate	Moderate	Moderate	Selkirk Water development; aka 639	Continue monitoring
0645A	Victoria private	27	3	2	5	Moderate	**High**	**High**	Difficult access; private discharge; investigations inconclusive	Continue monitoring
0649AA	Victoria private	27	1	2	3	NR	NR	Low	dry	Resample in 2030
0658A	Saanich	28	1	2	3	Low	Low	Low	dry	Resample in 2030
0690AF	Saanich	33	1	2	3	NR	NR	Low	dry	Resample in 2030
0690AG	Saanich	33	1	2	3	NR	NR	Low	low; dry in summer	Resample in 2030
0690B	Saanich	33	1	2	3	NR	NR	Low	low; dry in summer	Resample in 2030
0690BA	Saanich	0	1	2	3	NR	NR	Low	dry	Resample in 2030
0690BB	Saanich	33	1	2	3	NR	NR	Low	dry	Resample in 2030
0690BC	Saanich	33	1	2	3	NR	NR	Low	dry	Resample in 2030
0690D	Saanich	33	1	2	3	Low	Low	Low	Colquitz Creek; high flow	Continue monitoring
0704A	View Royal	31	1	2	3	NR	NR	Low	dry in summer; low count in winter	Confirm rating
0709B	View Royal	31	2	2	4	Low	Moderate	Low	Craigflower Creek; SPSO	Continue monitoring creek
0726A	Esquimalt	29	1	2	3	NR	NR	Low	low counts	Confirm rating
0726B	Esquimalt	29	1	2	3	NR	Low	Low	low flows; low counts	Confirm rating
0732A	Esquimalt private	29	1	2	3	NR	NR	Low	private pipe; dry	Confirm rating
0736A	Esquimalt private	29	1	2	3	Moderate	Low	Low	algae in channel	Confirm rating

Table 1 Core Area Public Health Concern Ratings, continued

Discharge	Jurisdiction at Discharge	Figure No.	Bacterial Rating	Public Shoreline Use Rating	Sum of Ratings	Level of Concern			2025 Comments	Recommendations
						2023	2024	2025		
0744A	Esquimalt	28	2	2	4	Low	Moderate	Moderate	park nursery; low flow	Continue monitoring
0744B	Esquimalt	28	3	2	5	**High**	**High**	**High**	cross-connection repair; relining done	Continue source investigations
0749A	Esquimalt private	28	1	2	3	Low	Low	Low	private pipe	Resample in 2030
0757A	Victoria	27	3	2	5	NR	NR	**High**	oil spill in 2025; often dry	Continue monitoring
0758A	Victoria	27	3	3	6	**High**	**High**	**High**	dry in summer	
0758B	Victoria	26	1	2	3	NR	NR	Low	dry	Confirm rating
0777A	Victoria	24	3	2	5	**High**	**High**	**High**	counts lower than in past	Continue monitoring
0865AB	Songhees F.N	17	1	2	3	Low	Low	Low	dry	Continue monitoring
0865B	Songhees F.N	17	1	2	3	Low	Low	Low	dry	Continue monitoring
0865C	Songhees F.N	17	1	2	3	Low	Low	Low	pipe decommissioned	Continue monitoring
0865D	Esquimalt F.N.	17	1	2	3	Low	Low	Low	iron bacteria in past	Continue monitoring
0865DA	Esquimalt F.N.	17	1	2	3	Low	Low	Low	low flows; low counts	Continue monitoring
0865F	Esquimalt F.N.	17	1	2	3	Moderate	Low	Low		Confirm rating
0865G	View Royal	17	1	1	2	Moderate	Low	Low		Confirm rating

Notes:

Level of Concern determined by sum of the bacterial and shoreline ratings. Low = sums of 2 and 3, moderate = sum of 4 and high = sums of 5 and 6.

EC = Escherichia coli (E. coli) counts.

NR = Not rated due to insufficient data or sample could not be obtained.

NA = Not assessed this year.

SPSO = This discharge acts as a sewage pump station overflow.
Private discharges are not part of the municipal system.

APPENDIX C

CORE AREA STORMWATER DISCHARGE BACTERIAL DATA

Table 1 Core Area Stormwater Discharge Bacterial Data

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
SW0209	San Jose, west of Holland Pt.	2024-02-13	no odour, clear, rain previous		**19,000**		50
		2024-07-08	no odour, clear, no recent rain		**4,300**		10
		2025-03-04	no odour, murky, light rain		**9,400**	>	200
		2025-08-22	no odour, clear, no rain		**6,200**		12
SW0210	Lewis, west of Holland Pt.	2024-02-13	no odour, clear, rain previous		**6,100**		30
		2024-07-08	no odour, clear, no recent rain		3		5
		2025-02-05	no odour, clear, snow prior		**550**		9
		2025-07-25	seaweed odour, clear, no rain		370		7
SW0212	Cook St	2024-02-13	no odour, clear, rain previous		20		30
		2024-07-08	no odour, clear, no recent rain		**5,900**		2
		2025-01-21	no odour, clear, no rain prior	<	1		12
		2025-07-25	creosote odour, amber, no rain		**3,300**		25
		2026-01-06	earthy odour, murky, heavy rain		**640**	>	250
SW0214	Clover Point	2024-04-10	no odour, clear, rain 2 days ago		70		65
		2024-07-08	no odour, clear, no recent rain		14		20
		2025-02-05	no odour, clear, snow prior	<	1		60
		2025-08-22	no odour, clear, no rain		**9,800**		8
SW0216	Eberts St., manhole	2024-02-13	no odour, clear, rain previous		**47,000**	>	250
		2024-07-08	sewer odour, amber, no recent rain		**63,000**		40
		2024-07-30	sewer odour, dark, first flush yesterday		**110,000**	>	300
		2025-01-21	no odour, clear, no rain prior		**5,100**	>	150
		2025-03-04	no odour, murky, light rain		**96,000**	>	400
		2025-08-22	mildew odour, clear, no rain		**11,000**	>	60
SW0218	Memorial Cres, eastern pipe, Ross Bay	2024-04-10	no odour, clear, rain 2 days ago		**540**		26
		2024-07-08	sewer odour, clear, no recent rain		**910**		3
		2025-03-04	sewer odour, murky amber, light rain		10		20
		2025-08-22	flow too low to sample, no rain			<	0.01

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
SW0222	MH in Ross Bay Cemetery, Ross Bay	2024-02-13	creosote odour, murky, rain previous		**8,900**	>	500
		2024-07-08	creosote odour, murky, no recent rain		**62,000**	>	200
		2025-01-21	creosote odour, amber, no rain prior		**13,000**	>	250
		2025-08-22	no odour, clear, no rain		45	>	100
SW0225	Ross Bay, end of Holwood Pl.	2024-04-04	dry, not sampled, no recent rain				0
		2024-07-08	dry, not sampled, no recent rain				0
SW0227	Wildwood Crescent	2024-01-29	sewer odour, murky, rain recent		**5,900**		8
		2024-07-08	no odour, clear, no recent rain		310	<	1
		2025-01-21	no odour, clear, no rain prior, otter activity		24		1
		2025-03-03	no odour, clear, recent rain		**400,000**		8
		2025-03-04	no odour, clear, light rain		**2,500**		4
		2025-03-10	no odour, clear, previous rain		54		4
		2025-03-11	no odour, clear, rain		**3,100**		20
		2025-03-13	no odour, murky, rain previous		250		5
		2025-03-17	no odour, clear, rain previous		**830**		6
		2025-07-25	no odour, clear, no rain		48	<	1
		2025-12-09	sewer odour, amber, heavy rain		**9,100**		50
		2026-01-08	no odour, murky, recent rain		**3,100**		10
SW0229	Ross St, Gonzales Bay	2024-01-29	no odour, clear, rain recent		**1,200**		12
		2024-07-15	dry, not sampled, no recent rain				0
		2025-01-21	no odour, clear, no rain prior		86		1
		2025-07-25	dry, not sampled, no rain				0
		2026-01-08	no odour, murky, recent rain		**2,400**		14
SW0230	Foul Bay Rd, Gonzales Bay	2024-01-29	no odour, clear, rain recent		**7,900**		60
		2024-07-15	dry, not sampled, no recent rain				0
		2025-01-24	no odour, clear, no rain prior		**31,000**		9
		2025-08-01	no odour, clear, no rain		**14,000**		6

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2026-01-08	no odour, murky, recent rain		**3,600**		20
SW0231	Marne St, Gonzales Bay	2024-01-29	sewer odour, clear, rain recent		40		8
		2024-07-15	no odour, clear, no recent rain		24	<	1
SW0236	Crescent Rd, Harling Pt.	2024-03-04	no odour, clear, some recent rain		210		10
		2024-07-15	no odour, amber, no recent rain		**12,000**		6
		2025-01-21	no odour, clear, no rain prior		**430**		8
		2025-08-01	no odour, clear, no rain		**9,600**		5
SW0237	Harling Pt.	2024-03-04	no odour, amber , some recent rain		250		12
		2024-07-15	no odour, amber, no recent rain		**2,500**		1
		2025-01-24	no odour, clear, no rain prior		16		1
		2025-08-01	no odour, clear, no rain		**470**	<	1
SW0237A	beach access 249 King George Terrace	**2025-07-24**	no odour, clear, no rain		2	<	1
SW0237B	King George Terrace access, right pipe	**2025-07-24**	no odour, clear, no rain	<	1	<	1
SW0238	261 King George Terrace, Harling Pt.	2024-04-04	no odour, clear, no recent rain		96		5
		2024-07-15	flow too low to sample, no recent rain			<	0.01
		2025-07-24	no odour, clear, no rain	<	1		1
		2025-07-24	no odour, clear, no rain		5		2
SW0244	Across from 242 Beach Drive, McNeill Bay	2024-01-29	sewer odour, clear, rain recent		**940**		8
		2024-07-15	no odour, clear, no recent rain		**9,400**		1
		2025-01-17	no odour, clear, light rain prior		**640**		7
		2025-07-25	no odour, clear, no rain		**12,000**		2
		2026-01-08	no odour, murky, recent rain		**20,000**		20
SW0245	Monterey Ave, McNeill Bay	2024-01-29	sewer odour, murky, rain recent		220	>	250
		2024-07-15	no odour, clear, no recent rain		**8,000**		9
		2024-07-29	earthy odour, darker amber, suds, first flush in morning		**3,100**		40
		2025-01-14	no odour, amber, light rain prior		**23,000**		24

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-07-25	no odour, clear, no rain		**650**		9
		2026-01-06	sulphur/earthy odour, murky, heavy rain		**790**	>	400
SW0249	Oliver, McNeill Bay	2024-01-29	creosote odour, murky, recent rain		35		2
		2024-07-15	no odour, yellow, no recent rain		**840**	<	1
		2025-01-24	dry, not sampled, no rain prior				0
		2025-07-25	dry, not sampled, no rain				0
		2026-01-08	no odour, murky, recent rain		27		7
SW0250	St. Patrick, McNeill Bay	2024-05-08	sewer odour, clear, no rain		**1,200**		80
		2024-07-15	no odour, amber, no recent rain			<	0.01
		2025-03-04	no odour, clear, recent rain		**2,200**		7
		2025-08-22	no odour, clear, no rain		**5,000**		2
SW0250-2D	MH @ NE corner of Oliver St. & Central Ave.	**2025-04-14**	wet, dark grey sand, rain prior				
SW0255	MH ;554 Beach Drive, McNeill Bay	2024-05-08	dry, not sampled, no rain				0
SW0256	McNeill Bay; W of Inglewood Terrace	**2025-08-22**	dry, not sampled, no rain				0
SW0258	western Royal Victoria Golf Course	2024-09-18	no odour, clear, no rain		26	<	1
SW0301	PS 963 Beach Dr, north of Gonzales Pt.	2024-05-08	no odour, clear, no rain		1	<	1
		2024-09-18	flow too low to sample, no rain			<	0.01
		2025-03-13	no odour, amber, rain previous		78		2
		2025-08-22	flow too low to sample, no rain			<	0.01
SW0304	end of Satellite St.	2024-05-08	dry, not sampled, no rain				0
		2024-09-18	flow too low to sample, no rain			<	0.01
SW0306	south side of Oak Bay Marina	2024-05-08	no odour, clear, no rain		70		5
SW0307	Oak Bay Marina	2024-02-12	no odour, clear, rain yesterday		**19,000**		3
		2024-05-08	strange odour, clear, no rain			<	1
		2024-07-29	hydrocarbon odour, darker amber, suds, first flush in morning		210		1

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-09-18	no odour, clear, no rain		**4,800**	<	1
		2025-01-24	no odour, clear, no rain prior		160		1
		2025-07-25	no odour, clear, no rain		**7,000**		1
		2026-01-08	no odour, clear, recent rain		**4,100**		4
SW0309	Upper pipe at the end of Windsor Road	2024-02-01	no odour, clear, light rain 2 days ago		2	<	1
		2024-07-29	no odour, amber, suds, first flush in morning		**5,300**		2
		2025-01-24	flow too low to sample, no rain prior			<	0.01
		2025-07-25	no odour, clear, no rain		35		11
		2026-01-08	no odour, clear, recent rain	<	1		4
SW0310	lower pipe at the end of Windsor Road	2024-02-01	no odour, clear, light rain 2 days ago		**2,400**		7
		2024-05-08	no odour, clear, no rain				15
		2024-07-29	no odour, amber, suds, first flush in morning		**4,100**		5
		2024-09-18	no odour, clear, no rain		**500**		6
		2025-01-14	no odour, clear, light rain prior		**610**		10
		2025-04-10	no odour, clear, rain previous		370		9
		2025-07-25	no odour, clear, no rain		**480**		7
		2026-01-08	no odour, murky, recent rain		**600**		22
SW0310A	stairs in seawall; north of Windsor Road	2024-02-01	no odour, clear, light rain 2 days ago		**2,100**		3
		2024-07-29	no odour, amber, suds, first flush in morning		**870**	<	1
		2025-01-24	no odour, clear, no rain prior		36		1
		2025-07-25	no odour, clear, no rain		**560**	<	1
		2026-01-08	no odour, clear, recent rain		**2,500**		6
SW0312	across from 1440 beach Drive, end of pipe.	2026-01-08	no odour, clear, recent rain		14		3
SW0313A	west of Oak Bay Marina	**2025-07-25**	dry, not sampled, no rain				0
		2025-10-30	dry, not sampled, rain previous				0
SW0315	Broom Road outfall, end of Broom Rd.	**2025-07-30**	sewer odour, amber, no rain		36		4

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2026-01-08	no odour, clear, recent rain	<	1		4
SW0316	Bowker Ck, south of Somass Dr.	2024-02-01	no odour, murky, light rain 2 days ago		**1,700**	>	2000
		2024-08-07	no odour, clear, no rain		**6,700**		450
		2024-08-14	no odour, clear, no rain		**1,000**		400
		2024-08-21	no odour, clear, light rain 3 days ago		**620**		400
		2024-08-28	no odour, clear, very light rain overnight		**720**		1600
		2024-09-04	no odour, clear, no rain		**1,600**		500
		2024-10-10	no odour, clear, rain previous		**400**		2000
		2024-10-17	no odour, clear, rain previous		**410**		2000
		2024-10-24	no odour, clear, no rain for 3 days		140	>	2500
		2024-10-31	no odour, clear, rain previous		290		3000
		2024-11-07	no odour, clear, no rain for 3 days		**520**		4000
		2025-04-10	no odour, amber, previous rain		230	>	2000
		2025-08-18	no odour, amber, no rain		29	>	2000
		2026-01-16	no odour, clear, rain previous		**4,100**	>	2000
SW0316-1B	Bowker Creek, daylight d/s of Monteith St.	**2025-08-18**	no odour, amber , no rain		35	>	2000
SW0316-1C	Bowker Creek, u/s of Monterey Ave.	**2025-08-18**	no odour, amber, no rain		15	>	1200
SW0316-1D	Bowker Creek, Oak Bay High School Track	**2025-07-17**	Bowker Creek oily spill, sheen on surface of water				
SW0316-3AA	Bowker Creek, daylight Cadboro Bay Road	**2025-07-10**	Sampled d/s of Cadboro Bay Rd due to oily spill, no flow estimate				
		2025-07-17	oily product portion of aqueous sample				
SW0316-3B	Bowker Creek, immediate d/s of Pearl St.	2024-08-07	no odour, clear, no rain		**2,200**		450
		2024-08-14	no odour, clear, no rain		140		250
		2024-08-21	no odour, clear, light rain 3 days ago		110		400
		2024-08-28	no odour, clear, very light rain overnight		280		1400

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-09-04	no odour, clear, no rain		240		400
		2024-10-10	no odour, clear, rain previous		350		2000
		2024-10-17	no odour, clear, rain previous		**530**		1800
		2024-10-24	no odour, clear, no rain for 3 days		84		2000
		2024-10-31	no odour, clear, rain previous		88		2000
		2024-11-07	no odour, clear, no rain for 3 days		89		3500
SW0316-4B	Bowker Creek, Browning Park	2024-06-20	sampled in tandem with Fluidion autosampler		**6,200**	>	400
		2024-08-07	no odour, clear, no rain, construction u/s		**2,100**		450
		2024-08-14	no odour, clear, no rain, construction u/s		**400**		200
		2024-08-21	no odour, clear, light rain 3 days ago, construction u/s		**460**		400
		2024-08-28	no odour, clear, very light rain overnight, construction u/s		**580**		800
		2024-09-04	no odour, clear, no rain, construction u/s		**560**		350
		2024-10-10	no odour, clear, rain previous		**730**		1500
		2024-10-17	no odour, clear, rain previous		290		500
		2024-10-24	no odour, clear, no rain for 3 days		58		1500
		2024-10-31	no odour, clear, rain previous		36		1500
		2024-11-07	no odour, clear, no rain for 3 days		**510**		1500
SW0316-5	Bowker Creek, u/s of Gordon Head Rd	2024-08-07	no odour, clear, no rain		28		25
		2024-08-14	no odour, clear, no rain		29		20
		2024-08-21	no odour, clear, light rain 3 days ago		120		30
		2024-08-28	no odour, clear, very light rain overnight		78		50
		2024-09-04	no odour, clear, no rain		31		25
		2024-10-10	no odour, clear, rain previous		190		60
		2024-10-17	no odour, clear, rain previous		270		60
		2024-10-24	no odour, clear, no rain for 3 days		56		60
		2024-10-31	no odour, clear, rain previous		32		80
		2024-11-07	no odour, clear, no rain for 3 days		12		80

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
SW0317	end of Bowker Lane	2024-01-23	no odour, amber, rain previous and		24		8
		2024-02-01	no odour, clear, light rain 2 days ago		220		8
		2024-07-29	no odour, amber, first flush in morning		13		4
		2025-01-17	no odour, clear, light rain prior	<	1		2
		2025-07-28	no odour, clear, no rain		1		5
		2026-01-16	no odour, clear, rain previous		1		30
SW0318	end of Bowker Ave.	2024-01-23	no odour, murky, rain previous and		**18,000**	>	250
		2024-02-01	no odour, murky, light rain 2 days ago		**6,000**		200
		2024-07-29	no odour, amber, first flush in morning		**6,900**		16
		2024-08-14	no odour. clear, no rain		**48,000**		40
		2024-10-23	no odour, clear, previous rain		**11,000**	>	60
		2024-11-13	no odour, amber, rain		**47,000**	>	200
		2025-01-17	no odour, clear, light rain prior		**3,800**	>	100
		2025-07-28	no odour, clear, no rain		**4,800**		24
		2026-01-16	no odour, clear, rain previous		**3,100**		100
SW0319	end of Cavendish Ave. (manhole).	2024-01-23	no odour, murky, rain previous and		18		11
		2024-02-01	no odour, clear, light rain 2 days ago		20		10
		2024-07-29	flow too low to sample, first flush in morning			<	0.01
		2025-01-24	no odour, clear, no rain prior	<	1		5
		2025-07-28	dry, not sampled, no rain				0
SW0320	end of Dalhousie St.	2024-01-23	no odour, murky, rain previous and		320		60
		2024-02-01	no odour, clear, light rain 2 days ago		**1,600**		40
		2024-07-29	no odour, amber, suds, first flush in morning		**2,700**		7
		2025-01-17	no odour, clear, light rain prior		**400**		20
		2025-07-28	no odour, clear, no rain		110		8
		2026-01-06	sulphur/earthy odour, murky, heavy rain		**3,000**	>	350
SW0321	end of Estevan Ave.	2024-01-24	no odour, murky, rain yesterday		90	>	120

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-02-08	no odour, clear, rain last night		60		90
		2024-07-30	no odour, amber, first flush yesterday		**2,900**		8
		2025-01-22	no odour, clear, no rain prior		23		9
		2025-10-01	no odour, clear, rain previous, construction u/s		8		2
		2026-01-16	no odour, clear, rain previous		1		8
SW0321A	NE side of intersection; Estevan	2024-01-24	no odour, amber, rain yesterday		**1,900**		60
		2024-02-08	no odour, clear, rain last night		63		38
		2024-07-30	no odour, amber, first flush yesterday		**20,000**		5
		2025-01-22	no odour, clear, no rain prior		320		10
		2025-10-01	no odour, clear, rain previous, construction u/s		**12,000**		3
SW0322	end of Thorpe Place beach access	2024-01-24	no odour, amber, rain yesterday		**550**		38
		2024-02-08	no odour, clear, rain last night		**950**		30
		2024-07-30	no odour, amber, first flush yesterday		**2,200**		7
		2025-01-22	no odour, dye green, no rain prior		33		20
		2025-10-01	no odour, clear, rain previous		**960**		1
		2026-01-16	hydrocarbon odour, clear, rain previous		5		40
SW0323	north end of Esplanade	2024-01-24	no odour, murky, rain yesterday		**830**	>	500
		2024-02-08	no odour, clear, rain last night		1	>	400
		2024-07-30	no odour, dark amber, suds, first flush yesterday		**2,400**		300
		2025-01-22	no odour, clear, no rain prior		6	>	200
		2025-08-18	no odour, clear, no rain		12		30
		2026-01-16	no odour, clear, rain previous		89	>	250
SW0327	center of Cadboro Bay	2024-10-29	no odour, clear, previous rain		26		3
SW0501	2730 Hibbens Close, Cadboro Bay	2024-10-29	no odour, clear, previous rain	<	1		100
SW0503	Hobbs Creek; Cadboro Bay	2024-02-14	sewer odour, murky, rain 2 days ago		**8,700**		80
		2024-05-14	no odour, clear, no rain		290		65
		2024-08-13	no odour, clear, no rain		**680**		60

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-10-29	sewer odour, amber, previous rain		320		100
		2024-11-18	sewer odour, amber, rain previous		**870**	>	250
		2025-02-05	no odour, clear, snow prior		**850**		70
		2025-07-28	no odour, clear, no rain		350		
SW0505	diffuser; east of parking lot, Cadboro Bay	2024-02-14	sewer odour, murky, rain 2 days ago		64		120
		2024-05-14	no odour, clear, no rain		14		75
		2024-08-13	no odour, clear, no rain		73		30
		2024-10-29	sewer odour, amber, previous rain		120		120
		2025-02-05	no odour, clear, snow prior		13		150
		2025-07-28	no odour, clear, no rain		29		
		2024-11-18	marine water		14		
SW0506	30 m west of Telegraph Bay Rd	2024-02-06	no odour, clear, drizzle 2 days ago		7		24
		2024-08-13	no odour, clear, no rain		290		5
		2024-10-29	no odour, amber, previous rain		51		30
		2024-11-18	no odour, clear, rain previous		13		40
		2025-02-05	no odour, clear, snow prior		4		10
		2025-07-28	no odour, clear, no rain		36		5
SW0508	diffuser, Telegraph Bay Rd, Cadboro Bay	2024-02-06	no odour, clear, drizzle 2 days ago		3		90
		2024-08-13	no odour, clear, no rain		27		7
		2024-10-29	no odour, amber, previous rain		26		38
		2024-11-18	no odour, clear, rain previous		210		60
		2025-02-05	no odour, clear, snow prior		42		18
		2025-07-28	no odour, clear, no rain		11		6
SW0510	2751 Sea View Rd, Ten Mile Point	2024-04-04	no odour, clear, no recent rain	<	1		4
		2024-08-13	dry, not sampled, no rain				0
SW0511	Cadboro View Rd. beach access	2024-04-04	dry, not sampled, no recent rain				0

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-08-13	dry, not sampled, no rain				0
SW0512	with discharge 513, 2825 Sea View Rd	**2025-03-17**	no odour, clear, rain previous		10		12
		2025-08-26	flow too low to sample, no rain			<	0.01
SW0514	boat ramp; 2893 Sea View Rd.	2024-04-04	flow too low to sample, no recent rain			<	0.01
		2024-08-13	dry, not sampled, no rain				0
SW0517A	0.5 m east of steps at 2997 Seaview Rd.	**2025-03-17**	dry, not sampled, rain previous				0
		2025-08-26	dry, not sampled, no rain				0
SW0518	access 3895 Tudor Ave, Ten Mile Point	2024-02-14	no odour, clear, rain 2 days ago		1		8
		2024-08-13	no odour, clear, no rain	<	1		5
		2025-03-17	sewer odour, clear, rain previous		10		8
		2025-08-26	no odour, clear, no rain	<	1		1
SW0523	Baynes Rd.	2024-04-04	dry, not sampled, no recent rain				0
		2024-08-13	dry, not sampled, no rain				0
SW0524A	White Rock St	2024-02-14	dry, not sampled, rain 2 days ago				0
		2024-04-04	no odour, clear, no recent rain	<	1		6
		2024-08-13	dry, not sampled, no rain				0
SW0525	3030 Spring Bay Rd, Ten Mile Point	2024-04-04	dry, not sampled, no recent rain				0
		2024-08-13	dry, not sampled, no rain				0
SW0526	3018 Spring Bay Rd, Ten Mile Point	2024-04-04	dry, not sampled, no recent rain				0
		2024-09-11	dry, not sampled, no rain				0
SW0527	Tudor Ave, Ten Mile Point	2024-04-04	no odour, clear, no recent rain		6		8
		2024-09-11	no odour, clear, no rain		1		1
SW0528	Tudor Ave, N of SW0527, Ten Mile Point	2024-04-04	flow too low to sample, no recent rain			<	0.01
		2024-09-11	flow too low to sample, no rain			<	0.01
SW0532	Telegraph Bay Rd.	2024-02-14	no odour, clear, rain 2 days ago		4		4

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-09-11	flow too low to sample, no rain			<	0.01
SW0535	Guinivere Place beach access	**2025-03-19**	no odour, amber with suds, rain previous		2		7
		2025-08-26	dry, not sampled, no rain				0
SW0538	1 m east of sidewalk; Queen Alexandra	**2025-03-19**	no odour, clear, rain previous	<	1		50
		2025-08-26	no odour, clear, pooled, no rain		5		
SW0538A	7.5 m east of SW0538; Queen Alexandra	2024-02-14	sewer odour, clear, rain 2 days ago		10		60
		2024-09-11	no odour, clear, no rain		86		8
		2025-03-19	no odour, amber, rain previous		38		100
		2025-08-26	no odour, clear, no rain		4		9
SW0539	east side of Queen Alexandra	2024-02-14	no odour, clear, rain 2 days ago		7		35
		2024-09-11	no odour, clear, no rain		28		8
		2025-03-19	no odour, amber, rain previous		12		80
		2025-08-26	no odour, clear, no rain		220		15
SW0546	south side of 4325 Gordon Head Rd	**2025-03-19**	no odour, clear, rain previous		9		60
		2025-08-26	no odour, clear, no rain		3		8
SW0547	end of Gordon Head Rd	**2025-03-19**	no odour, turbid from sampling, rain previous	<	2		2
		2025-08-26	dry, not sampled, no rain				0
SW0548	4451 Shore Way, Gordon Head	2024-09-10	no odour, clear, no rain		**2,500**		9
		2024-10-29	no odour, amber, previous rain		**810**		20
		2025-01-21	no odour, clear, no rain prior		**14,000**		10
		2025-08-26	no odour, clear, no rain		24		6
SW0549	end of Shore Way, Gordon Head	2024-09-10	flow too low to sample, no rain			<	0.01
		2024-10-29	sewer odour, amber, previous rain		20		20
		2025-03-19	no odour, clear, rain previous		1		4
		2025-08-26	no odour, clear, no rain		270	<	1
SW0549A	E of Glencoe Cove Park, Gordon Head	2024-09-10	new station near 549, sampled from MH		7		5

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-10-29	no odour, clear, previous rain		10		30
		2025-03-19	no odour, clear, rain previous		2		10
		2025-08-26	no odour, clear, no rain		15		10
SW0558	180 m east of Mt Douglas beach access	2024-02-05	sewer odour, clear, drizzle in past 2 days		48		9
		2024-09-10	no odour, clear. no rain		20	<	1
		2025-04-15	sulphur odour, clear, no rain		60		8
		2025-08-26	no odour, clear, no rain		**980**	<	1
SW0559	Mt. Doug Creek, Cordova Bay	2024-02-05	no odour, clear, drizzle in past 2 days		60	>	400
		2024-09-10	no odour, clear. no rain		42	>	400
		2025-04-15	no odour, clear, no rain		34	>	1000
		2025-08-13	no odour, clear, no rain previous, meter malfunction		18		300
		2025-08-20	no odour, clear, no rain previous		15		300
		2025-08-26	no odour, clear, no rain		18		100
		2025-08-27	no odour, clear, no rain previous		19		300
		2025-09-03	no odour, clear, no rain previous		12		141
		2025-09-10	no odour, clear, no rain previous		31		250
		2025-10-24	no odour, clear, rain		**3,000**		500
		2025-10-31	no odour, clear, rain, E.coli exceeded hold time (not included)				90
		2025-11-05	no odour, clear, light rain		17		150
		2025-11-13	no odour, clear, rain		49		600
		2025-11-20	no odour, clear, no rain, potential influence by hydrant flushing		26		400
SW0559-2	Douglas Creek daylight, Robinwood Dr.	**2025-08-13**	no odour, clear, no rain previous		210		250
		2025-08-20	no odour, clear, no rain previous, potential hydrant flushing		32		300
		2025-08-27	no odour, clear, no rain previous, potential hydrant flushing		51		300
		2025-09-03	no odour, clear, no rain previous, hydrant flushing		**3,900**		200

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-09-10	no odour, clear, no rain previous		28		100
		2025-10-24	no odour, clear, rain		**3,000**		500
		2025-10-31	no odour, clear, rain, E.coli exceeded hold time (not included)				90
		2025-11-05	no odour, clear, light rain		36		150
		2025-11-13	no odour, murky, rain, potential influence by hydrant flushing		330		600
		2025-11-20	no odour, muddy brown, no rain, hydrant flushing, surge flow		**2,300**		150
SW0562	south side of 4550 Cordova Bay Rd	2024-03-04	no odour, amber , some recent rain		9		12
		2024-09-10	dry, not sampled, no rain				0
SW0567	south side of 4771 Timber Place	2024-03-04	sewer odour, clear, some recent rain		34		60
		2024-09-10	no odour, clear, no rain		3		4
		2025-04-15	sewer odour, clear, no rain	<	1		12
		2025-08-27	flow too low to sample, no rain			<	0.01
SW0571	SW side of 1120 Totem Lane	2024-03-04	no odour, clear, some recent rain		5		10
		2024-09-10	flow too low to sample, no rain			<	0.01
		2025-04-15	flow too low to sample, no rain			<	0.01
		2025-08-27	no odour, clear, no rain				6
SW0573	north of beach access; D'Arcy Lane	2024-03-04	mildew odour, clear, some recent rain		7		8
		2024-09-10	dry, not sampled, no rain				0
		2025-04-15	flow too low to sample, no rain			<	0.01
		2025-08-27	flow too low to sample, no rain			<	0.01
SW0574	4915 Cordova Bay Rd	2024-02-05	no odour, clear, drizzle in past 2 days		**410**	>	300
		2024-09-10	no odour, clear, no rain		**2,400**		30
		2025-01-21	no odour, clear, no rain prior		**12,000**		20
		2025-06-04	no odour, clear, no rain		**1,200**		80
		2025-08-27	no odour, clear, no rain		**2,500**		40
SW0576A	beach access; 4989 Cordova Bay Rd	2024-02-05	no odour, clear, drizzle in past 2 days		1		24
		2024-09-10	no odour, clear, no rain		16		10

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-04-15	no odour, clear, no rain		88		8
		2025-08-27	no odour, clear, no rain		19		20
SW0577	beach access; 5055 Cordova Bay Rd	2024-02-05	flow too low to sample, drizzle in past 2 days			<	0.01
		2024-09-10	no odour, clear, no rain		17		24
SW0578	south of access; 5091 Cordova Bay Rd	2024-02-05	no odour, murky, drizzle in past 2 days		43	>	500
		2024-09-10	no odour, clear, no rain		22	>	250
		2025-04-15	no odour, clear, no rain		40	>	400
		2025-08-27	no odour, clear, no rain		110		80
SW0580	20 m south of park on Agate Lane	2024-02-05	no odour, clear, drizzle in past 2 days		4		12
		2024-09-10	no odour, clear, no rain		7		1
		2025-04-15	sewer odour, clear, no rain		1		1
		2025-08-27	flow too low to sample, no rain			<	0.01
SW0581	5179 Agate Lane	2024-02-05	no odour, clear, drizzle in past 2 days		5	<	1
		2024-09-10	no odour, clear, no rain		6		8
		2025-04-15	no odour, clear, no rain		1		8
		2025-08-27	no odour, clear, no rain		11		6
SW0582	bottom of access stairs; Walema Rd	**2025-04-15**	sour odour, clear, no rain		1		5
		2025-08-27	no odour, clear, no rain		10	<	1
SW0584	30 m south of Fenn Ave beach access	**2025-05-01**	flow too low to sample, no rain			<	0.01
		2025-08-27	dry, not sampled, no rain				0
SW0585	10 m S of beach access; 5275 Parker Ave	**2025-05-01**	flow too low to sample, no rain			<	0.01
		2025-08-27	flow too low to sample, no rain			<	0.01
SW0586	17 m S of beach access 5309 Parker Ave	**2025-05-01**	no odour, clear, no rain		1		4
		2025-08-27	no odour, clear, no rain		35		1
SW0587	15 m S of beach access; 5325 Parker Ave	**2025-05-01**	no odour, murky, no rain		**1,100**		4

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-08-27	flow too low to sample, no rain			<	0.01
SW0592	Noble Creek, north of 5575 Parker Rd.	2024-02-05	earthy odour, turbid brown, drizzle past 2 days		66	>	1000
		2024-09-10	no odour, amber, no rain		35	>	600
		2025-05-01	no odour, clear, no rain		23	>	300
		2025-08-27	no odour, clear, no rain		42	>	250
SW0603	20 m south of James Bay Anglers	2024-03-14	no odour, clear, light rain 2 days ago		270		5
		2024-04-26	no odour, suds, recent rain		**4,600**		150
		2024-07-19	no odour, clear, no recent rain		**570,000**		1
		2025-03-04	no odour, clear, recent rain		**410**		7
		2025-09-08	no odour, clear, no rain		**680**		1
SW0606	west of jetty at HMCS Naval Reserve	**2025-09-08**	flow too low to sample, no rain			<	0.01
SW0607	east of Fisherman's Wharf, NW pipe.	2024-03-14	no odour, clear, light rain 2 days ago		**14,000**		10
		2024-07-19	sewer odour, yellow, no recent rain		**23,000**		12
		2025-03-04	creosote odour, murky, recent rain		**42,000**		24
		2025-09-08	no odour, clear, no rain		**540**		20
SW0607A	east of Fisherman's Wharf, SE pipe.	2024-03-14	no odour, clear, light rain 2 days ago		110		11
		2024-07-19	no odour, clear, no recent rain		200		14
		2025-03-04	sewer odour, murky, recent rain		**6,100**		16
		2025-09-08	no odour, clear, no rain	<	1		28
SW0608	Between 640 and 636 Montreal	2024-03-14	flow too low to sample, light rain 2 days ago			<	0.01
		2024-04-26	no odour, clear, recent rain		**5,500**		15
		2024-07-19	dry, not sampled, no recent rain				0
		2025-03-04	dry, not sampled, previous rain				0
		2025-09-08	dry, not sampled, no rain				0
SW0609	30 m SW of riprap below Laurel Point	2024-04-10	no odour, clear, rain 2 days ago		9		1
		2024-07-19	no odour, clear, no recent rain		24		1
SW0610	Oswego St	2024-03-14	no odour, clear, light rain 2 days ago		**3,000**		9

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-07-19	no odour, clear, no recent rain		**12,000**		16
		2025-02-19	no odour, amber, prior rain		**2,300**		8
		2025-09-08	no odour, clear, no rain		**1,200**		16
SW0611	at Menzies St.	2024-03-14	no odour, clear, light rain 2 days ago		**12,000**		10
		2024-07-19	no odour, clear, no recent rain		**190,000**		15
		2025-02-19	sweet/metallic odour, amber, prior rain		**13,000**		10
		2025-09-08	no odour, clear, no rain		**13,000**		6
SW0613	Government and Belleville St.	2024-04-10	no odour, murky amber, rain 2 days ago		**24,000**		70
		2024-07-22	no odour, amber, no recent rain		**20,000**		40
		2025-04-28	no odour, amber, no rain, very low tide		30		60
		2025-10-09	no odour, clear, rain previous, exceeded hold time		**3,900**		160
SW0614	Humbolt/Wharf and Government	2024-04-10	sewer odour, amber, rain 2 days ago		**15,000**		100
		2024-07-22	no odour, amber, no recent rain		250		60
		2025-04-28	no odour, amber, no rain, very low tide		**6,300**		80
		2025-10-10	sulphur odour, clear, rain previous, exceeded hold time		**1,500**		80
SW0617B	passenger ramp at Air BC terminal	2024-03-14	flow too low to sample, light rain 2 days ago			<	0.01
		2024-04-26	no odour, grey, recent rain		**3,800**		15
		2024-07-19	flow too low to sample, no recent rain			<	0.01
SW0619	south side of Johnson St. bridge	2024-03-14	no odour, clear, light rain 2 days ago		59		5
		2024-07-19	sewer odour, murky, no recent rain		**200,000**		2
		2025-04-01	creosote/sewer odour, clear, rain previous		38		6
		2025-10-03	no odour, murky, rain previous		**5,500**		5
SW0619A	north side of Johnson St. bridge 619A	**2025-04-01**	creosote/sewer odour, amber, rain previous		8		8
		2025-10-03	flow too low to sample, rain previous			<	0.01
SW0619B	Under Regency dock walkway	2024-03-14	flow too low to sample, no recent rain			<	0.01
		2024-04-26	no odour, grey, recent rain		**21,000**		30
		2024-07-19	flow too low to sample, no recent rain			<	0.01

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
SW0620	north side of Johnson St. bridge	2024-03-14	no odour, murky, light rain 2 days ago		**15,000**		40
		2024-04-26	sewer odour, grey, recent rain		**19,000**		800
		2024-07-19	sewer odour, murky, no recent rain		**8,000**		10
		2025-04-01	creosote/sewer odour, amber, rain previous		**620**		20
		2025-10-03	sewer/chemical odour, murky amber, rain previous		**16,000**		40
SW0622	end of Swift St.	2024-03-14	no odour, clear, no recent rain		50		2
		2024-07-19	musty odour, yellow, no recent rain		**2,000**	<	1
		2025-04-01	no odour, clear, rain previous		67		1
		2025-10-03	flow too low to sample, rain previous			<	0.01
SW0623	end of Chatham St.	2024-04-10	flow too low to sample, rain 2 days ago			<	0.01
		2024-07-19	dry, not sampled, no recent rain				0
		2025-04-01	no odour, clear, rain previous		**440**		6
		2025-10-03	earthy, amber, rain previous		**5,200**		7
SW0626	behind 2122 Government St, Rock Bay	2024-04-26	sewer odour, grey, recent rain		**5,000**		600
		2024-08-19	no odour, clear. no rain		**81,000**		20
		2025-04-29	no odour, clear, no rain		55		24
		2025-07-23	skunky, amber, no rain, brewery investigation		**540,000**		32
SW0626A	2140 Store St., Rock Bay	2024-04-26	no odour, grey, recent rain		**24,000**		60
		2024-08-19	no odour, clear. no rain		**1,500,000**		9
		2025-04-29	no odour, clear, no rain		350		2
		2025-10-03	no odour, clear, rain previous		330		6
SW0627	south side of Ocean Cement, Rock Bay	2024-04-26	sewer odour, grey, recent rain		**5,800**		1000
		2024-08-19	no odour, clear. no rain		**63,000**		80
		2025-04-29	no odour, clear, no rain		**9,800**		60
SW0629	east of Bridge St, Rock Bay	2024-04-26	sewer odour, grey with oily sheen, recent rain		**25,000**		60
		2024-10-10	no odour, murky, prior rain		**6,100**		20
		2025-03-07	sulphur odour, brown, previous rain		**480**		30

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
SW0629-7	MHD3031 corner of John St/Rock bay Ave	**2025-05-23**	dirty brown, solvent odour, rain previous		24		8
SW0629-8	MHD3033; corner of Hillside/Rock bay Ave	2024-05-23	grey/brown flow, solvent odour, rain previous	<	1		7
SW0633	Under south side of Bay St. bridge	2024-04-26	foul odour, grey, recent rain		300		7
		2024-09-12	dry, not sampled, no rain				0
SW0634	end of David St., below Budget Steel	2024-04-26	sewer odour, grey, recent rain		**12,000**		20
		2024-09-12	compost/garbage odour, turbid, organics, no rain		**110,000**		7
		2025-05-27	compost/garbage odour, murky particulates, no rain		**7,800**		3
		2025-10-03	garbage/compost odour, murky grey, rain previous		**7,700**		5
SW0636	south Victoria municipal yard, South Bay	2024-03-11	earthy/chemical odour, turbid brown, recent rain		320	>	250
		2024-04-26	sewer odour, grey, recent rain		**8,700**		800
		2024-09-12	no odour, murky, no rain		**700,000**		60
		2025-04-28	chemical odour, murky, no rain		340		120
SW0637	below parking spot #211, Selkirk	2024-04-10	sewer odour, murky rusty , rain 2 days ago		1		1
		2024-09-12	dry, not sampled, no rain				0
SW0639A	Selkirk Water Development	2024-04-10	no odour, clear, rain 2 days ago		**840**		2
		2024-09-12	flow too low to sample, no rain			<	0.01
		2025-04-28	no odour, clear, no rain		**9,600**		4
		2025-09-08	flow too low to sample, no rain			<	0.01
SW0641	Mouth of Cecelia Creek (EMS#: E253590)	2024-03-11	no odour, murky, recent rain		**7,000**	>	600
		2024-07-10	turbidity white flow, no odour, no prior rain			>	200
		2024-07-17	amber , sewer odour, no prior rain		**3,200**	>	200
		2024-07-17	amber, sewer odour, no prior rain		**8,200**	>	200
		2024-07-18	amber, sewer odour, no prior rain		**4,700**	>	200
		2024-07-18	amber, sewer odour, no prior rain		**5,100**	>	200
		2024-07-23	meter results not measured, no observations		**11,000**		

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-04-08	no odour, murky, recent rain		**38,000**	>	500
		2025-09-08	no odour, amber, no rain		**17,000**		250
SW0641-3C	Cecelia Creek, 1 m d/s of Cecelia Rd.	2024-06-20	sampled in tandem with Fluidion autosampler		**4,200**	>	500
SW0641-3D	1650 mm concrete pipe (EMS#: E332244)	2024-07-17	amber, sewer odour, sheen on surface, no prior rain		**6,000**	>	200
		2024-07-18	amber, sewer odour, sheen on flow, no prior rain		**3,200**	>	200
		2024-07-18	amber, sewer odour, sheen on surface, no prior rain		**2,000**	>	200
		2024-07-18	amber, oily sheen, sewer odour, no prior rain			>	200
		2024-07-22	sewer odour, oily sheen on surface, no recent rain		**9,500**	>	200
		2024-07-29	no odour, amber, first flush in morning		**4,000**	>	300
SW0641-3G	Combined flow 641-3E & 641-3F	2024-07-17	amber , no odour, stagnant flow (not estimated), no prior rain		**450**		
		2024-07-18	no odour, grass in channel, stagnant flow (not estimated), no prior rain		**2,500**		
		2024-07-18	no odour, turbid, stagnant flow, grass in channel , no prior rain		**2,300**		
SW0644	below 221 Gorge Rd	2024-03-11	flow too low to sample, rain yesterday			<	0.01
		2024-04-26	no odour, clear, recent rain		**7,000**		4
		2024-09-05	dry, not sampled. no rain				0
		2025-04-28	flow too low to sample, no rain			<	0.01
		2025-09-08	dry, not sampled, no rain				0
		2025-10-29	dry, rain previous				0
SW0645	Carrol St. easement	2024-03-11	no odour, murky, rain yesterday		**490**		6
		2024-09-05	dry, not sampled. no rain				0
		2025-04-08	no odour, clear, recent rain		38		6
		2025-09-08	no odour, amber, surge flow, no rain		**10,000**		20
SW0645A	Prince Charles Apts/Gorge Rd	2024-03-11	no odour, clear, rain yesterday		380		8
		2024-09-05	no odour, clear, no rain		**36,000**		4

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-04-08	no odour, clear, recent rain		**6,100**		9
		2025-09-08	no odour, clear, no rain		**320,000**		1
SW0645B	west of stairs below #145 Chapman Point	2024-03-11	flow too low to sample, recent rain			<	0.01
		2024-04-26	no odour, clear, recent rain		**8,300**		8
		2024-09-05	no odour, clear, no rain		**4,200**		1
		2025-04-28	no odour, clear, no rain		49		2
SW0645C	Chapman Point -105 & 135 Gorge Rd	2024-04-26	no odour, clear, recent rain		130		10
		2025-09-08	flow too low to sample, no rain			<	0.01
SW0647	Gorge Rd. Hospital, boat docks	2024-03-11	flow too low to sample, rain yesterday			<	0.01
		2024-09-05	dry, not sampled. no rain				0
SW0649	scoured channel, Gorge Rd. Health Centre	2024-03-11	no odour, clear, rain yesterday		12	<	1
		2024-09-05	flow too low to sample, no rain			<	0.01
		2025-04-28	dry, not sampled, no rain				0
		2025-07-30	no odour, murky, rain		**6,000,000**		150
		2025-09-08	no odour, amber, no rain		**1,300,000**		1
		2025-10-29	musty odour, clear, rain previous		**11,000**		2
SW0649AA	west of SW0649	**2025-04-28**	dry, not sampled, no rain				0
		2025-09-08	dry, not sampled, no rain				0
SW0650	east of "Outfall" sign; Harriet Road	2024-03-11	no odour, clear, surge flow, recent rain		**680**		30
		2024-06-04	no odour, murky, recent rain		**16,000**		40
		2024-06-12	no odour, clear, no rain		**4,500**		6
		2024-11-13	no odour, clear, rain		**2,800**		20
		2025-04-08	no odour, clear, recent rain		**5,600**		10
		2025-09-08	no odour, clear, no rain		**11,000**		1
SW0651	behind Cedar Shore Apts.	2024-09-05	flow too low to sample, no rain			<	0.01
SW0652A	In wall, east side 71 Gorge Rd West	2024-03-27	no odour, clear, light rain in morning	<	1		1

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-09-05	no odour, clear, no rain		9	<	1
SW0652B	In retaining wall, at 71 Gorge Rd West	2024-03-27	no odour, clear, light rain in morning		5		2
		2024-09-05	no odour, clear, no rain		3	<	1
SW0653	below tennis courts at Cedar Shore Appts	2024-03-11	no odour, clear, recent rain		38		7
		2024-09-05	no odour, clear, no rain		**430**		7
		2025-04-29	no odour, clear, no rain		**3,400**		10
		2025-09-08	no odour, clear, no rain		300		18
SW0654	north of tennis courts, Cedar Shore Appts.	**2025-04-29**	no odour, clear, no rain	<	1		2
		2025-09-08	no odour, clear, no rain		16		1
SW0655	In small cove in Gorge Park	2024-03-11	no odour, clear, recent rain		1		8
		2024-03-11	no odour, clear, recent rain	<	1		8
		2024-09-05	no odour, clear, no rain		20	<	1
SW0658	SE of Gorge View Dr	**2025-04-29**	no odour, clear, no rain		2		6
		2025-09-08	no odour, clear, no rain		2		2
SW0658A	direct below 384 Gorge Rd.	2024-05-10	flow too low to sample, no rain			<	0.01
		2024-09-05	flow too low to sample, no rain			<	0.01
		2025-04-29	flow too low to sample, no rain			<	0.01
		2025-09-08	flow too low to sample, no rain			<	0.01
SW0669	Dysart Rd.	2024-05-10	flow too low to sample, no rain			<	0.01
		2024-09-05	no odour, clear, no rain		59		3
SW0671	Austin Ave, 5 m west of last white pole	2024-03-27	no odour, clear, light rain in morning		**15,000**		12
		2024-09-05	no odour, amber, no rain		**9,000**		1
		2025-04-29	skunky odour, clear, no rain		**88,000**		4
		2025-04-30	skunky odour, clear, no rain		**15,000**		4
		2025-06-02	sewer odour, clear, no rain		**5,100**		5
		2025-06-10	musty odour, amber, no rain				

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-09-09	no odour, clear, no rain		240		3
		2025-10-29	no odour, clear, rain previous		75		8
SW0672	Adelaide Ave.	**2025-04-29**	dry, not sampled, no rain				0
		2025-09-09	dry, not sampled, no rain				0
		2025-10-29	dry, not sampled, rain previous				0
SW0674	Wyndeatt Ave	**2025-04-29**	no odour, greenish with suds, no rain		82		1
		2025-09-09	dry, not sampled, no rain				0
SW0675	Colquitz Ave.	2024-03-27	no odour, clear, light rain in morning		58		10
		2024-09-05	dry, not sampled. no rain				0
		2025-04-29	dry, not sampled, no rain				0
		2025-09-09	dry, not sampled, no rain				0
SW0676	across from 820 Gorge Rd	2024-03-27	no odour, clear, light rain in morning		14		9
		2024-09-05	dry, not sampled. no rain				0
		2025-04-29	no odour, clear, no rain		2		4
		2025-09-09	dry, not sampled, no rain				0
SW0679	Gorge Rd. at Admirals Rd.	2024-05-24	asphalt odour, clear, no rain		200		8
		2024-09-05	no odour, amber, no rain		34		7
SW0687	Under walkway bridge at 2892 Westing Rd	2024-05-10	no odour, clear, no rain		290		30
		2024-09-09	no odour, clear, no rain		20		12
SW0690AF	736 Newbury, south bank of Colquitz River	**2025-04-30**	flow too low to sample, no rain			<	0.01
		2025-09-09	flow too low to sample, no rain			<	0.01
SW0690AG	End of Austin Rd. right-of-way	**2025-04-30**	no odour, clear, no rain		2	<	1
		2025-09-09	dry, not sampled, no rain				0
SW0690B	4m W of Admiral Rd Bridge north bank	**2025-04-30**	burnt hair odour, amber, no rain		1		1
		2025-09-09	dry, not sampled, no rain				0
SW0690BA	5m NW of bridge, south Colquitz River	**2025-04-30**	flow too low to sample, no rain			<	0.01

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-09-09	dry, not sampled, no rain				0
SW0690BB	5m east of bridge, below P.S. at Dysart	**2025-04-30**	flow too low to sample, no rain			<	0.01
		2025-09-09	dry, not sampled, no rain				0
SW0690BC	below telephone pole at Dysart	**2025-04-30**	dry, not sampled, no rain				0
		2025-09-09	dry, not sampled, no rain				0
SW0690D-12	Haliburton Brook, Beaver Lake	2024-01-25	BEES sampled, rain overnight		11		
		2024-02-28	BEES sampled, rain		84		
		2024-03-26	BEES sampled, rain yesterday		17		
		2024-04-24	BEES sampled, rain in morning		20		
		2024-05-29	BEES sampled, recent rain		14		
		2024-06-24	BEES sampled, no recent rain		30		
		2024-07-30	BEES sampled, first flush yesterday		360		
		2024-08-27	BEES sampled, no recent rain		260		
		2024-09-25	BEES sampled, rain in afternoon		160		
		2024-10-30	BEES sampled, previous rain		17		
		2024-11-28	BEES sampled, previous rain		3		
		2025-01-29	BEES sampled, no rain prior		15		
		2025-02-27	BEES sampled, rain prior		4		
		2025-03-27	BEES sampled, rain prior		24		
		2025-04-29	BEES sampled, rain prior				
		2025-05-28	BEES sampled, no rain		14		
		2025-06-26	BEES sampled, no rain		57		
		2025-07-30			320		
		2025-09-03	BEES sampled, no rain		200		
		2025-10-01	BEES sampled, rain		39		
		2025-10-29	BEES sampled, rain previous		62		
		2025-12-03	BEES sampled, rain		4		

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2026-01-08	BEES sampled, rain		22		
SW0690D-12A	Haliburton Brook, d/s of highway	2024-01-25	BEES sampled, rain overnight		300		
		2024-02-28	BEES sampled, rain		38		
		2024-03-26	BEES sampled, rain yesterday		370		
		2024-04-24	BEES sampled, rain in morning		280		
		2024-05-29	BEES sampled, recent rain		3		
		2024-07-30	BEES sampled, first flush yesterday		240		
		2024-08-27	BEES sampled, no recent rain		240		
		2024-09-25	BEES sampled, rain in afternoon		**600**		
		2024-10-30	BEES sampled, previous rain		24		
		2024-11-28	BEES sampled, previous rain		12		
		2025-01-29	BEES sampled, no rain prior		2		
		2025-02-27	BEES sampled, rain prior		4		
		2025-03-27	BEES sampled, rain prior		12		
		2025-04-29	BEES sampled, rain prior				
		2025-05-28	BEES sampled, no rain		16		
		2025-06-26	BEES sampled, no rain		65		
		2025-07-30	BEES sampled, no rain		240		
		2025-10-01	BEES sampled, rain		35		
		2025-10-29	BEES sampled, rain previous		48		
		2025-12-03	BEES sampled, rain		34		
		2026-01-08	BEES sampled, rain		13		
SW0690D-12B		2024-01-25	BEES sampled, rain overnight		40		
		2024-06-24	BEES sampled, no recent rain		20		
		2024-07-30	BEES sampled, first flush yesterday		200		
		2024-08-27	BEES sampled, no recent rain		**600**		

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-09-25	BEES sampled, rain in afternoon		**4,500**		
		2024-10-30	BEES sampled, previous rain		33		
		2024-11-28	BEES sampled, previous rain		8		
		2025-09-03	BEES sampled, no rain		72		
SW0690D-15	Hamster Creek/Whiskey Creek	2024-02-28	BEES sampled, rain		**410**		
		2024-03-26	BEES sampled, rain yesterday		11		
		2024-04-24	BEES sampled, rain in morning		**420**		
		2024-05-29	BEES sampled, recent rain		66		
		2024-10-30	BEES sampled, previous rain		10		
		2024-11-28	BEES sampled, previous rain		5		
SW0690D-17	O'Donnell Creek from north boat launch	2024-01-25	BEES sampled, rain overnight		120		
		2024-02-28	BEES sampled, rain		360		
		2024-03-26	BEES sampled, rain yesterday		16		
		2024-04-24	BEES sampled, rain in morning		65		
		2024-05-29	BEES sampled, recent rain		80		
		2024-06-24	BEES sampled, no recent rain		200		
		2024-07-30	BEES sampled, first flush yesterday		**2,100**		
		2024-08-27	BEES sampled, no recent rain		**510**		
		2024-09-25	BEES sampled, rain in afternoon		170		
		2024-10-30	BEES sampled, previous rain		60		
		2024-11-28	BEES sampled, previous rain		120		
		2025-01-29	BEES sampled, no rain prior		39		
		2025-02-27	BEES sampled, rain prior		21		
		2025-03-27	BEES sampled, rain prior		94		
		2025-04-29	BEES sampled, rain prior		**93 enterococci**		
		2025-05-28	BEES sampled, no rain		48		

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-06-26	BEES sampled, no rain		91		
		2025-07-30	BEES sampled, no rain		**410**		
		2025-09-03	BEES sampled, no rain		300		
		2025-10-01	BEES sampled, rain		65		
		2025-10-29	BEES sampled, rain previous		58		
		2025-12-03	BEES sampled, rain		24		
		2026-01-08	BEES sampled, rain		240		
SW0690D-2	Colquitz River, behind Tillicum Mall	2024-04-19	no odour, amber, no recent rain		50	>	800
		2024-09-09	no odour, amber, no rain		91	>	2000
		2025-04-30	no odour, clear, no rain		53	>	700
		2025-08-15	no odour, murky, high flow not estimated, rain				
		2025-09-09	no odour, clear, no rain		72		2000
		2025-11-24	no odour, murky, rain previous		45		3000
SW0690D-24	Durrell Creek, u/s of Colquitz	**2025-11-24**	sulphur odour, murky, rain previous		14	>	200
		2025-12-03	sulphur odour, amber , rain, RSCL sewer overflow investigation.		**3,600**	>	400
		2025-12-11	sulphur odour, murky, heavy rain, RSCL sewer overflow investigation.		**430**	>	1200
		2025-12-17	sulphur odour, murky, heavy rain		340	>	2000
SW0691A	1173 Portage Rd	2024-05-10	no odour, clear, brown foam, no rain		24		40
		2024-09-09	flow too low to sample, no rain			<	0.01
SW0697	beside 152 St. Giles St, Hospital Creek	2024-04-24	no odour, murky amber, rain earlier		**680**	>	200
		2024-09-20	no odour, clear, no rain		36		60
		2025-04-30	no odour, clear, very low tide, no rain		43	>	250
		2025-07-22	no odour, clear, marine influence, no rain		30		100
SW0701	between 69 and 73 Kingham Place	**2025-04-09**	dry, not sampled, no rain				0
		2025-07-22	dry, not sampled, no rain				0

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
SW0703	Tidewater Rd; SE corner of Helmcken Park	2024-04-11	no odour, amber, rain 3 days ago		24	<	1
		2024-09-09	dry, not sampled, no rain				0
		2025-04-09	no odour, amber, rain		18	<	1
		2025-07-23	flow too low to sample, no rain			<	0.01
SW0704	south of fence at Helmcken Park	**2025-04-09**	no odour, clear, potential marine influence, rain		4		2
		2025-07-23	flow too low to sample, no rain			<	0.01
SW0704A	Helmcken Centennial Park, 160 White Pine Rd	**2025-04-09**	no odour, amber, rain	<	1		2
		2025-07-23	flow too low to sample, no rain			<	0.01
SW0706A	south side of Midwood Rd	**2025-04-09**	flow too low to sample, rain			<	0.01
		2025-07-23	flow too low to sample, no rain			<	0.01
SW0707	Seabird Place road end, below park sign	**2025-04-09**	dry, not sampled, rain				0
		2025-07-23	dry, not sampled, no rain				0
SW0709B	Craigflower Creek, under Helmcken Bridge	2024-04-19	no odour, clear, no recent rain		30	>	2000
		2024-09-20	no odour, clear, no rain		**690**	>	250
		2025-09-10	no odour, clear, no rain		83		300
		2025-10-28	no odour, clear, rain previous		23	>	400
SW0710	15m south of Helmcken Rd Bridge	2024-02-07	no odour, clear, no recent rain		1		7
		2024-09-09	no odour, clear, no rain		16		3
SW0722	Under center of Craigflower Bridge, PVC	2024-03-27	no odour, clear, light rain in morning		320		12
		2024-08-22	no odour, clear, recent rain		43		3
		2025-04-02	creosote odour, clear, no rain		38		7
		2025-07-23	no odour, clear, no rain		26		10
SW0723	NW of motel at Craigflower and Admirals	2024-03-27	dry, not sampled, light rain in morning				0

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-08-22	flow too low to sample, recent rain			<	0.01
		2025-04-02	flow too low to sample, no rain			<	0.01
		2025-07-23	no flow seen, not sampled, no rain				0
SW0725A	motel; Craigflower & Admirals	2024-03-27	no odour, clear, light rain in morning		89		2
		2024-08-22	flow too low to sample, recent rain			<	0.01
SW0725B	Comfort Inn at Craigflower and Admirals	**2025-04-02**	No flow, pipe not seen				0
		2025-07-23	flow too low to sample, no rain			<	0.01
SW0726	center of Pallard Cove, 5601 Lupin Road	2024-03-27	hydrocarbon odour, clear, light rain in morning		70		40
		2024-08-22	no odour, clear, recent rain		**570**		9
		2025-04-02	creosote odour, clear, no rain		60		40
		2025-07-23	no odour, clear, no rain		110		60
SW0726A	Yarrow Place	**2025-04-02**	no odour, clear, no rain		4		2
		2025-07-24	no odour, clear, no rain		38	<	1
SW0726B	east side of 914 Yarrow Place	2024-05-10	flow too low to sample, no rain			<	0.01
		2024-08-22	no odour, clear, recent rain		180	<	1
		2025-04-02	chemical odour, clear, no rain		14		1
		2025-07-24	flow too low to sample, no rain			<	0.01
SW0732	west side of 944 Rankin Rd	**2025-04-02**	no odour, clear, no rain	<	2		1
		2025-07-29	flow too low to sample, no rain			<	0.01
SW0732A	west side of 948 Rankin Rd.	**2025-04-02**	flow too low to sample, no rain			<	0.01
		2025-07-29	flow too low to sample, no rain			<	0.01
SW0735	west of steps at Dellwood Rd	2024-04-25	no odour, clear (suds), recent rain		28		8
		2024-08-22	no odour, clear, recent rain		220		1
		2025-04-02	sulphur odour, clear, no rain		6		3
		2025-07-29	flow too low to sample, no rain			<	0.01
SW0736A	#14-915 Glenvale, man-made stream	2024-03-27	no odour, clear, light rain in morning		11		6

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-08-22	no odour, clear, algae in channel, recent rain		32		2
		2025-04-02	flow too low to sample, no rain	<	2		2
		2025-07-29	no odour, clear, racoon in channel, no rain		54		3
SW0737	Garthland Rd.	2024-04-25	no odour, clear (suds), recent rain		6		25
		2024-08-22	no odour, clear, recent rain		**890**	<	1
		2025-01-17	no odour, clear, light rain prior		17		6
		2025-07-29	flow too low to sample, no rain			<	0.01
SW0739	west side of 1166 Rhoda Lane	2024-04-24	dry, not sampled, no rain				0
		2024-08-22	flow too low to sample, recent rain			<	0.01
SW0740	Foreshaw Rd	2024-04-24	no odour, clear, recent rain		32	<	1
		2024-08-22	no odour, clear, recent rain		120	<	1
SW0742	Sioux Pl., u/s edge of pool dam	2024-03-14	no odour, clear, no recent rain		61		9
		2024-07-19	no odour, clear, no recent rain		38		4
		2024-08-21	no odour, clear, no rain		74		2
		2025-04-30	no odour, clear, no rain		40		10
		2025-07-29	no odour, clear, no E.coli sample collected, no rain			<	1
SW0742B	SW of parking area @ Kinsmen Gorge Park	2024-03-27	flow too low to sample, light rain in morning			<	0.01
		2024-05-10	perfume odour, clear, standing water, no rain		5		
		2024-08-12	flow too low to sample, no recent rain			<	0.01
SW0743	Gorge-Esquimalt Park, south bank of creek	2024-03-27	flow too low to sample, light rain in morning			<	0.01
		2024-08-12	dry, not sampled, no recent rain				0
SW0743A	Gorge-Esquimalt Park	2024-03-27	no odour, clear, light rain in morning		280	<	1
		2024-08-12	flow too low to sample, no recent rain			<	0.01
SW0744	Gorge Creek - dual pipes at Craigflower Rd	2024-03-27	no odour, clear, light rain in morning		**1,400**		40
		2024-08-12	no odour, amber, no recent rain		**600**		18

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-01-16	no odour, clear, light rain prior	<	1		20
		2025-07-29	no odour, clear, no rain		**520**		40
SW0744A	Gorge-Esquimalt Park, Esq. Parks nursery	2024-03-27	flow too low to sample, light rain in morning			<	0.01
		2024-04-18	no odour, clear, no recent rain		3		1
		2024-04-25	no odour, clear, recent rain		20		5
		2024-05-08	sight sewer odour, murky, recent rain		**16,000**		
		2024-08-12	flow too low to sample, no recent rain			<	0.01
		2025-01-16	no odour, clear, light rain prior		**1,200**	<	1
		2025-04-09	no odour, clear, rain		1		1
		2025-07-29	flow too low to sample, no rain			<	0.01
SW0744B	Gorge-Esquimalt Park, 1034 Gosper Cres.	2024-02-07	sewer odour, murky, no recent rain		**110,000**		10
		2024-03-27	sewer odour, murky, light rain in morning		**70,000**		8
		2024-04-18	sewer odour, murky, no recent rain		**65,000**		7
		2024-08-12	strong laundry odour, murky grey, no recent rain		**59,000**		7
		2024-11-14	sewer odour, murky, previous rain		**5,500**		40
		2025-01-16	sewer odour, clear, light rain prior		**14,000**		8
		2025-04-08	sewer odour, murky, recent rain		**4,200**		8
		2025-06-11	sewer odour, clear, no rain		**6,800**		5
		2025-07-29	sewer odour, murky, biofilm on discharge, no rain		**420,000**		3
		2026-01-16	sewer odour, murky, rain previous		**5,400**		15
SW0749	south side of 306 Uganda	2024-03-27	no odour, clear, light rain in morning		**6,100**		1
		2024-09-05	dry, not sampled, no rain				0
		2025-04-29	no odour, clear, no rain		310	<	1
		2025-07-29	no rain, sampled from MH0X3				
		2025-07-29	flow too low to sample, no rain			<	0.01
SW0749A	on property line 930 Selkirk Ave	2024-03-27	flow too low to sample, light rain in morning			<	0.01

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-09-05	flow too low to sample, no rain			<	0.01
		2025-04-29	dry, not sampled, no rain				0
		2025-07-29	dry, not sampled, no rain				0
SW0750	behind 930 Selkirk Ave., under wood wharf	**2025-07-29**	dry, not sampled, no rain				0
SW0751	pipe and spill pad behind 928 Selkirk	2024-03-27	no odour, clear, light rain in morning		240		8
		2024-09-05	no odour, clear, no rain		250		1
		2025-04-29	no odour, clear, no rain		**480**		3
		2025-07-29	no odour, clear, no rain		**840**		8
SW0753	end of right-of-ay east of 1023 DeCosta Pl.	**2025-02-07**	flow too low to sample, melting snow			<	0.01
SW0757A	below parking area; Styles St	**2025-02-07**	flow too low to sample, melting snow			<	0.01
		2025-04-09	sewer odour, clear, rain		**6,300**		1
		2025-04-28	sewer and hydrocarbon odour, murky, no rain		**89,000**		1
		2025-09-10	dry, not sampled, no rain				0
SW0758	Sof rock outcrop, NW Banfield Park	**2025-02-07**	flow too low to sample, melting snow			<	0.01
		2025-04-09	no odour, clear, rain	<	1		2
		2025-04-10	no odour, clear, rain previous		1		2
		2025-04-28	no odour, clear, no rain	<	1		1
		2025-09-10	dry, not sampled, no rain				0
SW0758A	below play area in Banfield Park	2024-04-25	no odour, clear (suds), recent rain		**8,500**		35
		2024-06-13	sewer odour, green from tracer dye, no rain		**17,000**		8
		2024-06-25	sewer odour, clear, no recent rain		**2,200**		9
		2025-04-09	no odour, clear, rain		**750**		20
		2025-04-28	sulphur odour, murky, no rain		**4,200**		8
		2025-09-10	sewer odour, murky, no rain		**33,000**		5
		2025-09-10	dry, not sampled, no rain				0
SW0758B	below Catherine St	**2025-04-28**	dry, not sampled, no rain				0

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
SW0759	west of Trestle Bridge at Currie Lane	2024-04-24	no odour, clear, recent rain		28		6
		2024-07-24	no odour, clear, no recent rain		22	<	1
		2025-04-28	no odour, clear, no ran, probable tidal influence		14	<	1
		2025-09-10	flow too low to sample, no rain			<	0.01
SW0760	under Pt Ellice (Bay St.) Bridge	**2025-04-29**	no odour, amber, no rain		24		6
		2025-09-10	dry, not sampled, no rain				0
SW0761	south of pillars of Pt Ellice Bridge	**2025-04-29**	couldn't see pipe in rocks, wet , no rain			<	0.01
		2025-09-10	dry, not sampled, no rain				0
SW0764	north end of Harbour Rd.	**2025-04-29**	no odour, clear, no rain		**750**		22
		2025-10-10	no odour, clear, rain previous, analyzed past hold time		**11,000**		40
SW0768	below parking east of 65 Songhees Rd.	2024-03-14	no odour, clear, light rain 2 days ago		**1,800**		8
		2024-07-22	no odour, clear, no recent rain		190		18
		2025-04-01	no odour, clear, rain previous		65		6
		2025-10-10	no odour, clear, rain previous, analyzed past hold time		21		18
SW0769	Cooperidge Place	2024-03-14	no odour, clear, light rain 2 days ago		**1,800**		20
		2024-07-22	no odour, clear, no recent rain		**500**		10
		2025-04-01	no odour, clear, rain previous		**440**		25
		2025-09-10	no odour, clear, no rain		380		40
SW0774	Russell St.	2024-05-27	no odour, clear, recent rain		110		1
		2025-02-07	flow too low to sample, no rain			<	0.01
		2025-09-10	dry, not sampled, no rain				0
		2025-10-29	no odour, murky, rain previous		300		1
SW0775	Robert St.	2024-02-12	no odour, clear, rain yesterday		**3,000**		9
		2024-07-22	flow too low to sample, no recent rain			<	0.01
		2025-01-17	no odour, clear, light rain prior		28		2
		2025-09-10	sewer odour, clear, no rain		**1,300**		6

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
SW0777A	extends from rock wall at Barnard Ave	2024-01-16	sewer odour, murky , no rain previous		**15,000**		60
		2024-02-12	sewer odour, murky amber, rain yesterday		**2,700,000**	>	60
		2024-02-27	sewer odour, murky, light rain yesterday		**27,000**		60
		2024-03-14	sewer odour, clear, light rain 2 days ago		**18,000**		70
		2024-04-11	sewer odour, murky, rain 3 days ago		**11,000**	>	60
		2024-07-22	sewer odour, murky, no recent rain		**140,000**		20
		2025-01-21	sewer odour, amber, no rain prior		**9,200**		30
		2025-04-01	sewer/chemical odour, amber, rain previous		**2,200**		28
		2025-07-30	sewer odour, amber, no rain		**730,000**		20
		2026-01-14	sewer odour, murky, rain previous		**2,400**	>	200
SW0779	W 531 West Bay Terrace, under boardwalk	2024-02-12	no odour, clear, rain yesterday		180		6
		2024-07-24	no odour, amber, no recent rain		36		12
		2025-02-04	no odour, clear, snow prior		**420**		6
		2025-07-30	no odour, clear, no rain		**5,200**		5
SW0780	Under boardwalk, 537 Head St, West Bay	2024-02-12	no odour, clear, rain previous		**31,000**		9
		2024-04-24	foul odour, clear with grey bacteria like film, recent rain		**820**		30
		2024-07-24	no odour, clear, no recent rain		7		1
		2024-09-09	no odour, clear, no rain		**2,100**		3
		2025-02-04	no odour, clear, snow prior		**5,100**		10
		2025-07-30	no odour, clear, no rain		**520**		16
SW0781	below 503 Head St, West Bay	2024-02-27	no odour, murky, light rain yesterday		**420**		25
		2024-04-24	no odour, clear (some suds), recent rain		**9,600**		150
		2024-07-24	no odour, clear, no recent rain		12		80
		2024-09-09	no odour, clear, no rain		**5,400**		16
		2025-07-30	sewer odour, murky with macerated paper, no rain		**9,400**		60
		2025-12-11	no odour, murky, potential tidal influenced, heavy rain		**4,600**		

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
SW0805	8 m west of beach access at Kinver St	2024-02-06	sewer odour, clear, drizzle 2 days ago		**8,200**		70
		2024-07-24	sewer odour, murky amber, no recent rain		**390,000**		11
		2024-09-18	sewer odour, murky with masticated paper, no rain		**17,000**		8
		2025-02-04	sewer odour, murky grey, snow prior		**5,700**		24
		2025-08-06	sewer odour, clear, biofilm on discharge, rain		**530,000**		35
		2026-01-19	sewer odour, murky, no rain		**2,100**	>	200
SW0806	10 m west of beach access at Kinver St	2024-02-06	sewer odour, clear, drizzle 2 days ago		**12,000**		24
		2024-04-24	no odour, clear, recent rain		**2,500**		25
		2024-07-24	sewer odour, clear, no recent rain		**9,200**		8
		2024-09-18	sewer odour, murky, no rain		**7,900**		2
		2025-02-04	no odour, murky grey, snow prior		**520**		10
		2025-08-06	sewer odour, clear, rain		**7,800**		2
		2026-01-19	sewer odour, clear, no rain		**8,500**		22
SW0810	south side of 440 Constance Ave	2024-05-10	flow too low to sample, no rain			<	0.01
		2024-07-24	no odour, clear, no recent rain		**13,000**	<	1
		2025-02-04	no odour, clear, snow prior		**9,600**		7
		2025-08-06	no odour, clear, rain		350	<	1
		2026-01-19	no odour, clear, no rain		330		9
SW0811	west of wooden viewing platform	2024-05-10	dry, not sampled, no rain				0
		2024-07-24	dry, not sampled, no recent rain				0
		2025-02-04	flow too low to sample, snow prior			<	0.01
SW0812	Sturdee, 7 m east of beach access stairs	2024-05-10	sewer odour, murky, no rain		**12,000**		2
		2024-06-04	no odour, clear, recent rain		290		12
		2024-07-24	flow too low to sample, no recent rain			<	0.01
		2024-11-12	no odour, clear, previous rain		**780**		16
		2025-01-16	no odour, clear, light rain prior		**9,800**		4

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2026-01-19	no odour, murky, no rain		**3,900**		8
SW0813	Foster St., east side of cove	2026-01-19	no odour, clear, no rain		**4,300**		6
SW0814	crack in rocks at Grafton St.	2024-05-10	no odour, clear, no rain		**5,600**		2
		2024-07-24	no odour, clear, no recent rain		**41,000**	<	1
		2025-01-16	no odour, clear, light rain prior		**600**		4
		2026-01-19	sewer odour, murky, grey bacteria mat, no rain		**960,000**		1
SW0854	Gate Rd off Admirals Rd	2024-04-11	sewer odour, murky, rain 3 days ago		**10,000**		60
		2024-07-22	sewer odour, clear, no recent rain		**7,500**		18
		2025-04-28	no odour, murky, no rain, very low tide		**5,300**		20
SW0865AB	N of 200 Maplebank Rd. (decommissioned)	2024-09-12	dry, not sampled, no rain				0
		2025-05-27	flow too low to sample, no rain			<	0.01
		2025-09-05	not sampled, no rain, pipe is capped				
SW0865B	below baseball field (decommissioned)	2024-09-12	dry, not sampled, no rain				0
		2025-05-27	no flow and couldn't see pipe, no rain				0
		2025-09-05	not sampled, no rain, pipe is decommissioned				
SW0865C	south end Plumber Bay (decommissioned)	2024-09-12	dry, not sampled, no rain				0
		2025-05-27	no flow and couldn't see pipe, no rain				0
		2025-09-05	not sampled, no rain, pipe is decommissioned				
SW0865D	south Plumper Bay	2024-09-12	flow too low to sample, no rain			<	0.01
		2025-05-27	no odour, clear, no rain		270		2
		2025-09-05	flow too low to sample, no rain			<	0.01
SW0865DA	SE section of Plumper Bay	2024-09-12	dry, not sampled, no rain				0
		2025-05-27	no odour, clear, no rain		37	<	1
		2025-09-05	flow too low to sample, no rain			<	0.01
SW0865F	north Plumber Bay	2024-09-12	flow too low to sample, no rain			<	0.01
		2025-05-27	flow too low to sample, no rain			<	0.01

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-09-05	no odour, clear, no rain		220		4
SW0865G	Thetis Cove, end of Hallowell Rd	2024-04-24	no odour, clear, recent rain		29		30
		2024-09-12	dry, not sampled, no rain				0
		2025-05-27	no odour, clear, no rain		27		2
		2025-09-05	multiple visits, tide too high to sample, no rain				
SW0866	Portage Park, west of rock outcropping	2024-09-06	dry, not sampled, no rain				0
		2024-09-11	no odour, clear, no rain		110	>	2000
		2025-05-27	no odour, clear, no rain		5		1
		2025-09-12	dry, not sampled, no rain				0
SW0867	between 95 and 101 View Royal Ave	2024-04-24	foul odour, grey/sudsy flow, recent rain		310	<	1
		2024-09-06	dry, not sampled, no rain				0
		2025-05-27	dry, not sampled, no rain				0
		2025-09-05	dry, not sampled, no rain				0
SW0873	larger of 2 pipes; ravine at Helmcken Rd	2024-09-06	dry, not sampled, no rain				0
SW0875	between 547 and 549 View Royal Ave	2024-04-22	no odour, clear, light rain yesterday	<	1		1
		2024-09-06	dry, not sampled, no rain				0
		2025-05-27	dry, not sampled, no rain				0
		2025-09-05	no odour, clear, pooled water, flow not estimated, no rain		34		
SW0879	creek on west side of Price Rd.	2024-03-21	no odour, clear, no recent rain		1		13
		2024-09-06	no odour, clear, no rain		45		14
SW0881	Dukrill, northeast of beach access stairs	2024-03-21	dry, not sampled, no recent rain				0
		2024-09-06	dry, not sampled, no rain				0
SW0885	southwest side of Parsons Bridge	**2025-05-15**	no odour, murky, iron oxide bacteria, no rain		24		4
		2025-09-05	standing water, not sampled, no rain				0

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
SW0886	Mill Stream below 1700 Wilfert Rd, rapids	2024-03-21	no odour, clear, no recent rain		22	>	3000
		2025-05-15	no odour, clear, no rain		48	>	2500
		2025-09-05	no odour, clear, salmon fry observed, no rain		21		500
SW0902	Station SW0902	2024-04-11	no odour, clear, rain 3 days ago		10	>	250
		2024-07-25	no odour, clear, no recent rain		74		24
		2025-05-15	no odour, clear, no rain		35		40
		2025-09-05	standing water, too shallow, not sampled, no rain				
SW0912	east Fort Rodd Hill	**2025-03-05**	dry, not sampled, recent rain				0
		2025-09-05	dry, not sampled, no rain				0
SW0913	east Esquimalt Lagoon	2024-01-26	no odour, clear, rain previous		3		7
		2024-04-11	no odour, clear, rain 3 days ago	<	1		8
		2024-07-25	dry, not sampled, no recent rain				0
SW0914	below curve in Ocean Blvd	2024-01-26	no odour, clear, rain previous		4		40
		2024-04-11	no odour, clear, rain 3 days ago		17		14
		2024-07-25	dry, not sampled, no recent rain				0
SW0915	20 m west of Belmont Park septic tanks	2024-04-11	no odour, clear, rain 3 days ago		40		24
		2024-07-25	dry, not sampled, no recent rain				0
		2025-03-05	no odour, clear, recent rain		1		22
		2025-09-12	no odour, clear, no rain		58		5
SW0916	Colwood Creek mouth	2024-01-26	no odour, clear, rain previous		70	>	350
		2024-07-25	no odour, clear, no recent rain		31	>	200
		2025-03-05	no odour, clear, recent rain		6	>	2000
		2025-09-12	no odour, clear, no rain		85		80
		2026-01-21	no odour, clear, no rain			>	500
SW0918	40 m west of 917, below playing fields	2024-07-25	pipe underwater, could not sample, no recent rain				
SW0921	65 m west of 920, well defined channel	2024-04-22	no odour, clear, light rain yesterday		2		200

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-07-25	no odour, clear, no recent rain		25		7
		2025-03-06	no odour, clear, recent rain		8		32
		2025-09-12	no odour, clear, no rain	<	1		400
SW0922	100m south of 921, Hatley Creek	2024-07-25	no odour, clear, no recent rain		1		8
		2025-03-06	no odour, clear, recent rain	<	1		8
		2025-09-12	no odour, clear, no rain		21		800
SW0926	Bee Creek, north side of Ocean Grove	2024-01-26	no odour, clear, rain previous		24	>	350
		2024-08-07	no odour, clear, no rain		47		750
		2024-08-14	no odour, clear, no rain		25		750
		2024-08-21	no odour, clear, light rain 3 days ago		82		1000
		2024-08-28	no odour, clear, very light rain overnight		280		1200
		2024-09-04	no odour, clear, no rain		63		900
		2024-10-10	no odour, clear, rain previous		24		1500
		2024-10-17	no odour, clear, rain previous		28		2000
		2024-10-24	no odour, clear, no rain for 3 days		92		3000
		2024-10-31	no odour, clear, rain previous		4		2000
		2024-11-07	no odour, clear, no rain for 3 days		14		2000
		2025-03-05	no odour, clear, recent rain		2	>	400
		2025-08-05	no odour, clear, no rain		**610**		500
		2026-01-21	no odour, clear, no rain			>	350
SW0927	Miller Brook; north side of Matilda Drive	2024-04-22	no odour, clear, light rain yesterday	<	1		60
		2024-09-11	flow too low to sample, no rain			<	0.01
		2025-03-06	sewer odour, amber, recent rain	<	1		8
		2025-08-05	no odour, clear, no rain		24		40
		2026-01-21	no odour, clear, no rain				32
SW0928	Selleck Creek, Portsmouth Drive	2024-01-26	no odour, clear, rain previous		14		60
		2024-08-07	no odour, clear, no rain		25		650

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2024-08-14	no odour, clear, no rain		58		650
		2024-08-21	no odour, clear, light rain 3 days ago		170		900
		2024-08-28	no odour, clear, very light rain overnight		34		900
		2024-09-04	no odour, clear, no rain		64		800
		2024-10-10	no odour, clear, rain previous		98		1000
		2024-10-17	no odour, clear, rain previous		73		1000
		2024-10-24	no odour, clear, no rain for 3 days		57		1500
		2024-10-31	no odour, clear, rain previous		58		900
		2024-11-07	no odour, clear, no rain for 3 days		13		1000
		2025-03-05	no odour, clear, recent rain		1		60
		2025-08-05	no odour, clear, no rain		27		200
		2026-01-21	no odour, clear, no rain			>	110
SW0929	below Anchorage Ave	2024-04-22	no odour, clear, light rain yesterday		17		50
		2024-09-11	dry, not sampled, no rain				0
		2025-03-06	no odour, clear, recent rain		35		10
		2025-08-05	no odour, silty from sampling, no rain		42		50
		2025-10-09	no odour, clear, rain previous		55		30
		2025-11-18	no odour, clear, light rain previous		20		30
		2026-01-21	no odour, clear, no rain				9
SW0931	SW 3279 Anchorage Ave, Lagoona Brook	2024-04-22	no odour, clear, light rain yesterday		3		30
		2024-09-11	dry, not sampled, no rain				0
SW0932	ditch south end of Esquimalt Lagoon	2024-04-22	no odour, clear, light rain yesterday	<	1		220
		2024-09-11	no odour, clear, no rain	<	1		10
		2025-03-06	no odour, clear, recent rain	<	1		20
		2025-08-05	no odour, clear, no rain	<	1		150
SW0933	pipe at south end of Esquimalt Lagoon	2024-04-22	no odour, clear, light rain yesterday		37		200
		2024-09-11	no odour, clear, no rain		22		7

Table 1 Core Area Stormwater Discharge Bacterial Data, continued

Station ID	Station Description	Sample Date	Sample Comment		E. Coli		Flow Rate
					CFU/100 mL		L/min
		2025-03-06	no odour, clear, recent rain	<	1		20
		2025-08-05	no odour, clear, no rain, evidence of otter		72		70
SW0935	Top of bank on Ocean Blvd	2024-09-11	dry, not sampled, no rain				0
SW0935A	Milburn below discharge 936	2024-04-22	no odour, clear, light rain yesterday		3		150
		2024-09-11	no odour, clear, no rain		10		6
SW0937	below north side of Ocean Blvd cul de sac	**2025-03-06**	no odour, clear, recent rain		1		7
		2025-08-05	no odour, clear, no rain		48		30
SW0939	15m south of Ocean Blvd beach access	2024-04-22	no odour, clear, light rain yesterday		9		40
		2024-09-11	no odour, clear, no rain		15		3
		2025-05-02	flow too low to sample, no rain			<	0.01
		2025-08-05	flow too low to sample, no rain			<	0.01
SW0940	35 m north of 3384B Ocean Blvd	2024-09-11	dry, not sampled, no rain				0

APPENDIX D

ESCHERICHIA COLI SAMPLING
QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM

APPENDIX D

ESCHERICHIA COLI SAMPLING
QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM FOR 2025

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APPENDIX D

ESCHERICHIA COLI SAMPLING
QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM FOR 2025

1.0 INTRODUCTION

Quality assurance and quality control (QA/QC) programs are a set of protocols adopted to ensure that the results of a study are valid, internally consistent and comparable with similar projects. These protocols are set out in writing and based on current and relevant research. This appendix discusses:

- field sampling methods
- sample handling procedures
- analytical procedures
- field and laboratory replication (quality control)
- data assessment

The data collected for the stormwater monitoring QA/QC program are used to ensure consistency in field handling and analytical methods. If the data exceed a specified precision criterion, then the lab is notified of a potential problem in the procedure and steps are taken to resolve the issue.

2.0 METHODS FOR *ESCHERICHIA COLI* SAMPLING

2.1 Stormwater Discharge Sampling

Field samplers used sterile 500 mL wide-mouth disposable bottles containing 1.5 mL of sodium thiosulphate (for sample dechlorination) to collect stormwater discharge samples from the point of discharge. Bottles were supplied by Bureau Veritas in Victoria, BC. Care was taken to avoid contamination of the sample with substances that did not originate in the stormwater (e.g., salt water, other discharges) that may confuse the results. Labeled samples were stored in an insulated cooler with ice packs and delivered to the laboratory on the same date. Bureau Veritas analyzed samples for *Escherichia coli* (*E. Coli*) bacteria following the procedures in Standard Methods (APHA, 1998) and reported as colony forming units/100 mL (CFU/100 mL).

2.1.1 Stormwater Sample Replicates (Field Splits)

Ten percent of the samples collected were replicated and the field replicate samples identified as "field splits". CRD staff collected a single sample in a 500 mL sample bottle and inverted 30 times to ensure that the sample was well-mixed. The sample was then split evenly into two separate bottles. Staff labelled the bottles and submitted them to Bureau Veritas for analysis. These samples were submitted as blind samples (not identified as field splits).

2.1.2 Quality Control Precision Assessment

In 2025, field staff collected 18 field splits at six stormwater discharges in the core area of the CRD. Samples were analyzed for *E. Coli* levels. Field splits were used to establish the precision criterion for the CRD Core Area, District of Sooke and Southern Gulf Island Electoral Area sampling programs. The discharges were chosen based on previous high, moderate, or low levels of *E. Coli* concentrations (two discharges for each category) to represent the varying *E. Coli* counts that would be analyzed. Staff collected three individual 500 mL grab samples at each of the six stations and split each into two replicate bottles. Staff also submitted three blank samples of potable water in 500 mL sample bottles as part of the assessment. Each sample had a unique identification number and was submitted blindly to the lab (i.e., the lab had no information about the sample).

2.1.3 Calculation of Laboratory Precision

Laboratory precision for *E. Coli* analysis (e.g., a measure of consistency by the lab) is determined by analyzing 18 pairs of field samples (field splits). The following, taken from Standard Methods, 18th Edition (APHA, 1998), explains the procedure for calculating the precision criterion and determining whether the log ranges for the field splits are “acceptable” or “unacceptable”:

- The data are arranged in pairs (D_1 and D_2). The log of each field measurement is determined (L_1, L_2) and the difference (range) in the log value between each pair of field splits is calculated: $R = (L_2 – L_1)$. An average range (Mean-R) is then determined for all of the pairs.

- The precision criterion is calculated by multiplying the Mean-R by 3.27 and is rounded to one decimal place.

- The log range (R) is calculated for each of the field splits and compared to the precision criterion, to determine whether the sample is acceptable or not, according to the following criterion:

  Acceptable (A) If the calculation is less than the precision criterion, then the field data are within normal variability.

  Unacceptable (U) If the calculation is greater than the precision criterion, then the field data are outside of the normal variability. All data collected after the last "acceptable" set of data should be discarded and no further analysis should be done until the source of the problem is identified by the lab.

It is important not to place too severe an interpretation on the results from the QA calculation, especially when they are close to the "unacceptable" guideline. Each result represents a value within a 95% confidence interval, which gets proportionately larger as the actual result gets smaller. Therefore, one can expect 5% of the samples to be outside of the precision criterion, through randomness. Also, any *E. Coli* count under 200 FC/100 mL is considered too small an amount to accurately calculate or compare to a precision criterion (APHA, 1998). It is also important to note that discharges with *E. Coli* counts lower than 200 FC/100 mL receive a low public health concern rating.

The results are rounded to one decimal place and compared to the precision criterion (e.g., 0.5). If the calculated value from the duplicate results still exceeds the criterion (e.g., 0.55 or greater), then an informal investigation of the laboratory should be initiated. If only a few duplicates are unacceptable (e.g., one out of every twenty pairs of duplicates), the lab is probably meeting the guideline.

The overall process is intended to act as an "alarm", alerting the study group to potential problems with the sampling and analytical procedures. As part of the review, the following elements are considered:

- the number of pairs exceeding the criterion
- the actual *E. Coli* value of the pairs of data
- field notes on the "field split" procedure
- comments from the laboratory

3.0 RESULTS

3.1 Quality Assurance Results

Field staff collected 18 pairs of stormwater samples from six discharges having historically high, moderate or low levels of *E. Coli* bacteria. Staff blindly submitted samples to the lab for analysis of the *E. Coli* concentration and used the data to calculate the precision criterion.

3.1.1 Blanks

Field staff submitted three blank samples (CRD tap water) to the lab for analysis for *E. Coli* bacteria. Blanks were reported as having <10 CFU/100 mL. Therefore, the results meet the QA requirements.

3.1.2 Precision Criterion

Table 1 shows the lab results of the 18 pairs of samples used to determine the precision criterion for the 2025 Stormwater Monitoring Program. The calculated criterion for this laboratory, using these 18 sets of duplicates was 0.4.

3.1.3 Field Splits

Wet Weather Sampling

Table 2 presents the results for the field splits collected in the core area during the wet period of the 2025 Stormwater Sampling Program. Data were compared to the precision criterion (0.4), as described in Section 3.1.2. None of the field splits exceeded the precision criterion, therefore, the results are acceptable.

Dry Weather Sampling

Table 3 presents the results for the field splits collected in the core area during the dry period of the 2025 Stormwater Sampling Program. Two of the field splits exceeded the precision criterion. These splits had very high *E. coli* counts (greater than or equal to 59,000 CFU/ 100 mL) which are not indicative of most of the samples and the method acknowledges that 5% of samples will have results outside of the precision criterion, through randomness, therefore, the results are acceptable.

4.0 CONCLUSIONS

Requirements for the Stormwater Monitoring QA/QC Program were carried out in 2025. The QA/QC results were acceptable for rating stormwater discharges for public health concerns.

5.0 REFERENCES

APHA, 1998. American Public Health Association, American Water Works Association, Water Pollution Control Federation, 20th Edition. Standard Methods for the Examination of Water and Wastewater.

Drinnan, R.W. 1995. Memo to R. Miller, CRD Engineering, February 7; 4pp.

Hutcheson, D. 1995. Memo to R. Miller, CRD Engineering, February 7; 2pp.

Table 1 Laboratory Quality Assurance Exercise Results for 2025

CRD Data, Batch Samples: 18 pairs, 2025						
Discharge No.	**Pair No.**	**1st Duplicate D1**	**2nd Duplicate D2**	**Log D1 L1**	**Log D2 L2**	**Range of Logs (Rlog) (L1 L2)**
447	1	54	75	1.7324	1.8751	0.1427
	2	78	47	1.8921	1.6721	0.2200
	3	64	83	1.8062	1.9191	0.1129
416	1	6	4	0.7782	0.6021	0.1761
	2	4	6	0.6021	0.7782	0.1761
	3	2	10	0.3010	1.0000	0.6990
318	1	3800	4400	3.5798	3.6435	0.0637
	2	4800	4500	3.6812	3.6532	0.0280
	3	4900	3900	3.6902	3.5911	0.0991
777A	1	9200	7200	3.9638	3.8573	0.1065
	2	6700	5600	3.8261	3.7482	0.0779
	3	8100	8100	3.9085	3.9085	0.0000
245	1	23000	25000	4.3617	4.3979	0.0362
	2	39000	53000	4.5911	4.7243	0.1332
	3	59000	61000	4.7709	4.785	0.0145
222	1	13000	13000	4.1139	4.114	0.0000
	2	11000	13000	4.0414	4.114	0.0726
	3	13000	14000	4.1139	4.146	0.0322
Mean - R_{log} (Sum R_{log}/18)						0.1217
Precision Criterion (3.27 x Mean-R_{log})						0.3979

Table 2 Laboratory Quality Assurance Results – Wet Period 2025

Date	Discharge Number	E. Coli Counts CFU/100 mL	Log	Log Range	Acceptable (A) or Unacceptable (U)
21-Jan	236	430	2.6335	0.0314	A
		400	2.6021		
22-Jan	323	6	0.7782	0.0000	A
		6	0.7782		
24-Jan	230	31000	4.4914	0.1112	A
		24000	4.3802		
5-Feb	319	1	0.0000	0.0000	A
		1	0.0000		
4-Mar	503	850	2.9294	0.0051	A
		860	2.9345		
7-Mar	603	410	2.6128	0.1725	A
		610	2.7853		
14-Mar	629	480	2.6812	0.1015	A
		380	2.5798		
20-Mar	538A	38	1.5798	0.0223	A
		40	1.6021		
1-Apr	620	620	2.7924	0.0848	A
		510	2.7076		
1-Apr	769	420	2.6232	0.1010	A
		530	2.7243		
8-Apr	641	38000	4.5798	0.4658	U
		13000	4.1139		
15-Apr	578	40	1.6021	0.0700	A
		47	1.6721		
28-Apr	854	5300	3.7243	0.1390	A
		7300	3.8633		
29-Apr	764	750	2.8751	0.0170	A
		780	2.8921		
1-May	592	23	1.3617	0.0362	A
		25	1.3979		
2-May	6008	1	0.0000	0.0000	A
		1	0.0000		
27-May	865D	270	2.4314	0.1526	A
		190	2.2788		
29-Oct	649	11000	4.0414	0.1223	A
		8300	3.9191		

Notes:
*Counts below 200 CFU/100 mL are not expected to meet the criterion.
5% of samples will have results outside of the precision criterion, through randomness.

Table 3 Laboratory Quality Assurance Results – Dry Period 2025

Date	Discharge	Field Split Fecal Coliform Counts	Log	Log Range	Acceptable (A), Unacceptable (U) or Conditionally Acceptable (U*)
25-Jul	212	3300	3.5185	0.0256	A
		3500	3.5441		
28-Jul	220	110	2.0414	0.2139	A
		180	2.2553		
24-Jul	238	1	0.0000	0.6990	U*
		5	0.6990		
29-Jul	744	520	2.7160	0.0084	A
		510	2.7076		
6-Aug	805	530000	5.7243	0.9534	U
		59000	4.7709		
26-Aug	549A	15	1.1761	0.2553	A
		27	1.4314		
27-Aug	578	110	2.0414	0.0000	A
		110	2.0414		
8-Sep	610	1200	3.0792	0.1447	A
		860	2.9345		
8-Sep	649	1300000	6.1139	0.6185	U
		5400000	6.7324		
9-Sep	671	240	2.3802	0.5169	U*
		73	1.8633		
3-Oct	620	16000	4.2041	0.0263	A
		17000	4.2304		
10-Oct	768	21	1.3222	0.0757	A
		25	1.3979		
		650	2.8129		

Notes:
*Discharges with counts below 200 CFU/100 mL are not expected to meet the criterion.
5% of samples will have results outside of the precision criterion, through randomness.

APPENDIX E

CORE AREA STORMWATER CONTAMINANT DATA

Table 1 Stormwater Sediment Contaminant Data

Station	Sample Date	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Silver	Zinc	Org. Carbon (%)	LPAHs **	HPAHs**
	CRD MSQG	57	5.1	260	390	450	0.41	6.1	410	NA	370	960
	CCME ISQG	7.24	0.7	52.3	18.7	30	0.13	1	124			
	CCME PEL	42	4.2	160	108	112	0.7	2.2	271			
	Vancouver Island Soil Background*	4	0.95	65	100	40	0.15	1	150			
SW0244	19/04/2023	2.76	0.113	28.8	*35.4*	20.9	<0.05	<0.05	90.9	1.7	9.4	64.7
SW0250-2	14/04/2025	2.3	0.093	16.7	*21.4*	27.2	0.101	0.071	119	-	-	-
SW0250-2A	14/04/2025	5.79	0.1	23.4	*42.2*	25.7	0.063	0.051	106	-	-	-
SW0309	11/08/2023	5.02	0.1	30.9	131	80	<0.05	0.12	115	0.8	17.5	113.8
SW0310-US	10/04/2025	3.74	0.47	31.4	95.9	58.4	0.05	0.205	263	-	70	450
SW0316	04/09/2024	4.9	0.107	25.8	*37.4*	17.5	0.05	<0.05	132	5.2	0.1	0.6
	02/12/2024	5.49	0.111	22.2	*30.5*	224	0.083	0.076	108	0.22	24.5	172.7
	10/04/2025	3.26	0.113	20.6	*22.8*	9.78	<0.05	<0.05	98.5	0.29	4.8	25.2
SW0316-3B	02/12/2024	4.08	0.111	21.9	*25.9*	10.5	0.076	<0.05	85	0.4	7.0	47.5
SW0316-4B	02/12/2024	2.38	0.133	26.4	*59.9*	23.3	<0.05	<0.05	105	0.76	197.4	421.1
SW0316-5	02/12/2024	3.96	0.086	25.7	*23.6*	7.44	<0.05	<0.05	80.1	0.79	1.9	12.5
SW0503	14/05/2024	2.2	0.098	20.3	*34.1*	7.68	<0.05	<0.05	51.8	1	1.8	7.9
SW0505-1	14/05/2024	2.26	0.123	16.3	*45.7*	43.3	0.213	0.104	92.1	3.1	23.2	67.7
SW0558	19/04/2023	2.58	0.117	21.4	*51.4*	8.57	<0.05	0.074	124	4.5	0.7	7.1
	12/06/2023	4.74	0.435	34.9	131	19.9	0.118	0.206	262	9.9	0.7	4.2
SW0559	19/04/2023	3.25	0.085	20	*21.3*	7.05	0.05	<0.05	91.3	1.1	4.8	33.6
	12/06/2023	3.36	0.075	20.4	*24.1*	6.69	<0.05	<0.05	87.9	0.2	16.0	55.0
SW0592	12/06/2023	4.65	0.371	36.2	*46.6*	10.6	0.073	0.143	120	7.4	0.2	1.4
SW0641	14/09/2023	3.6	0.13	29.5	*48.9*	27.4	0.066	<0.05	129	0.54	6.9	53.7
	08/04/2025	1.99	0.151	25.3	*54.4*	36.5	0.058	<0.05	145	0.68	9.6	57.4
SW0641-3D	18/07/2024	2.24	0.149	50.9	*48.9*	27.5	0.086	<0.05	154	0.62	177.4	290.3
SW0645	21/04/2023	4.68	0.225	37	*56.6*	60.6	<0.05	<0.05	142	2.2	5.5	45.5
SW0655	27/04/2023	3.85	0.139	29.7	*52.3*	87.3	0.055	<0.05	103	1.4	0.3	5.6
SW0687	24/04/2023	5.41	0.26	28.3	*57.5*	33.9	0.122	0.312	225	7.9	3.9	25.3
	10/05/2024	2.35	0.14	25.5	*42.5*	15	0.089	0.128	112	0.92	6.3	32.6
	09/09/2024	3.56	0.146	27.1	*50*	46.9	0.147	0.071	193	0.96	4.9	31.3
SW0690D-2	09/09/2025	2.25	0.069	21.6	*23.4*	14.8	<0.05	0.077	87.3	0.52	3.7	21.2
SW0710	09/09/2024	2.32	0.104	43.5	*81.5*	9.11	0.08	<0.05	154	0.75	267	880
SW0722	03/04/2023	2.54	0.142	36.4	*61.6*	9.88	0.095	0.053	138	1.1	2.5	8.5
SW0737	03/04/2023	3.7	0.122	27.8	*47.6*	11.3	0.082	0.055	126	1.1	71.8	345.5
	13/06/2023	3.18	0.1	26.4	*42.4*	16.8	<0.05	0.07	92	1.7	105.9	394.1
	25/04/2024	2.37	0.077	30.5	*49*	10.2	<0.05	<0.05	205	0.87	414	1149
	22/08/2024	3	0.105	29.6	*50*	13.6	0.128	0.071	128	1.1	109.1	418.2
	17/01/2025	3.44	0.112	38.4	*52.9*	19.9	<0.05	0.059	116	0.84	60.7	261.9
SW0866	23/04/2024	5.34	0.496	36.9	*77.9*	28.5	0.085	0.155	527	13	0.6	2.2
	06/09/2024	5.25	0.422	31.9	*68.4*	32.3	0.076	0.122	477	12	0.4	1.6
SW0874	04/05/2023	5.12	0.379	28.5	*56.9*	29.6	0.123	1.38	290	15	0.2	1.3
SW0886-2	14/09/2023	1.62	0.059	23.5	*21.9*	4.7	<0.05	<0.05	62.2	0.32	21.6	53.1
SW0886-6	14/09/2023	2.43	0.094	28.1	*36*	5.14	0.061	<0.05	89.2	0.39	2.5	5.9
SW0902	11/04/2024	5.74	0.306	39.5	*54.7*	31.7	0.08	0.151	190	5.6	2.9	15.5
SW0916	21/01/2026	0.86	<0.05	16	9.98	3.76	<0.05	0.145	63.1	0.73	1.4	7.1
SW0921	23/04/2024	1.81	0.07	18.2	15.4	3.74	<0.05	0.067	56.4	0.34	0.3	0.3
SW0922	23/04/2024	7.29	0.125	12.6	6.94	8.46	<0.05	<0.05	27.8	42	0.1	0.4
SW0926	23/04/2024	1.57	<0.05	14.1	9.17	3.53	<0.05	<0.05	28.5	0.42	8.6	31.0
	04/09/2024	2.7	0.169	20.3	*18.8*	6.09	0.059	<0.05	48	0.2	35.0	325.0
SW0927	14/04/2023	15.3	0.313	17.1	*44.4*	29.5	0.138	0.083	119	35	0.3	1.4
SW0928	23/04/2024	1.86	0.083	21.8	*24*	6.25	<0.05	<0.05	62.6	4.8	10.8	60.4
SW0929	09/10/2025	5.99	0.136	37.6	*59.2*	6.98	0.065	0.161	658	5.7	0.5	1.9
	18/11/2025	5.55	0.247	34	*80.3*	10.8	0.111	0.212	414	9.3	0.1	1.6
	21/01/2026	4.46	<0.05	31	*54.8*	6.74	<0.05	0.13	220	3.6	0.3	2.5
SW0934	28/03/2023	2.32	0.106	28.2	*42.3*	11.9	0.05	0.062	77.2	3.5	1.1	5.7
SW0980-5	04/10/2023	3.22	0.062	19.9	*19*	3.79	<0.05	<0.05	55	2.2	0.8	2.8
SW6003	03/09/2025	3.46	0.081	33.9	*24.7*	4.29	0.053	0.177	49.6	0.38	1.1	5.7
SW6008	14/04/2023	4.4	0.258	38.2	*48.8*	9.32	<0.05	0.068	245	3.5	0.8	2.8

Notes

Concentrations are in mg/kg dry weight, except for Organic Carbon which is percent.
CRD MSQG =Marine sediment quality guidelines adopted from Washington State's Department of Ecology for protection of aquatic life.
LPAH and HPAH are low and high molecular weight polycyclic aromatic hydrocarbons, respectively.
CCME = Canadian Council of Ministers of the Environment.
ISQG = interim sediment quality guideline; concentrations above this level but below the PEL will occasionally result in adverse effects on aquatic life.
*Vancouver Island Background Concentrations are regional estimates (95th percentiles); https://www2.gov.bc.ca/assets/gov/environment/air-land-water/site-remediation/docs/protocols/protocol_4.pdf
* *Carbon normalized for comparison to guidelines.

XX italicized values exceed a guideline but are below the Vancouver Island background concentration (95th percentile)
XX Value is greater than or equal to the CCME ISQG
XX Value is greater than or equal to the CCME PEL
XX Value is greater than or equal to CRD MSQG and adverse effects to aquatic life are likely to occur

For mercury only, the CRD MSQG is lower than the CCME PEL.
Some samples are not collected at discharge to marine, therefore marine guidelines are not applicable but used for screening purposes, see Table 4 for freshwater comparison

Table 2 Calculation of Sediment Contaminant Ratings

Station Name	Sample Date	Ratios of Contaminant Concentration to CRD Sediment Quality Guideline										TEQ	Rating
		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Silver	Zinc	LPAH	HPAH		
	CRD MSQG	57	5.1	260	390	450	0.41	6.1	410	5.2	12		
SW0244	19/04/2023	0.05	0.02	0.11	0.09	0.05	0.12	0.01	0.22	0.03	0.07	0.76	Low
SW0250-2	14/04/2025	0.04	0.02	0.06	0.05	0.06	0.25	0.01	0.29	-	-	0.79	NR
SW0250-2A	14/04/2025	0.10	0.02	0.09	0.11	0.06	0.15	0.01	0.26	-	-	0.80	NR
SW0309	11/08/2023	0.09	0.02	0.12	0.34	0.18	0.12	0.02	0.28	0.05	0.12	1.33	Moderate
SW0310-US	10/04/2025	0.07	0.09	0.12	0.25	0.13	0.12	0.03	0.64	0.11	0.30	1.86	Moderate
SW0316	04/09/2024	0.09	0.02	0.10	0.10	0.04	0.12	0.01	0.32	0.00	0.00	0.79	Low
	02/12/2024	0.10	0.02	0.09	0.08	0.50	0.20	0.01	0.26	0.07	0.18	1.50	Moderate
	10/04/2025	0.06	0.02	0.08	0.06	0.02	0.12	0.01	0.24	0.01	0.03	0.65	Low
SW0316-3B*	02/12/2024	0.07	0.02	0.08	0.07	0.02	0.19	0.01	0.21	0.02	0.05	0.74	Low
SW0316-4B*	02/12/2024	0.04	0.03	0.10	0.15	0.05	0.12	0.01	0.26	0.53	0.44	1.73	Moderate
SW0316-5*	02/12/2024	0.07	0.02	0.10	0.06	0.02	0.12	0.01	0.20	0.01	0.01	0.61	Low
SW0503	14/05/2024	0.04	0.02	0.08	0.09	0.02	0.12	0.01	0.13	0.00	0.01	0.51	Low
SW0505-1	14/05/2024	0.04	0.02	0.06	0.12	0.10	0.52	0.02	0.22	0.06	0.07	1.23	Moderate
SW0558	19/04/2023	0.05	0.02	0.08	0.13	0.02	0.12	0.01	0.30	0.00	0.01	0.75	Low
	12/06/2023	0.08	0.09	0.13	0.34	0.04	0.29	0.03	0.64	0.00	0.00	1.65	Moderate
SW0559	19/04/2023	0.06	0.02	0.08	0.05	0.02	0.12	0.01	0.22	0.01	0.04	0.62	Low
	12/06/2023	0.06	0.01	0.08	0.06	0.01	0.12	0.01	0.21	0.04	0.06	0.67	Low
SW0592	12/06/2023	0.08	0.07	0.14	0.12	0.02	0.18	0.02	0.29	0.00	0.00	0.93	Low
SW0641	14/09/2023	0.06	0.03	0.11	0.13	0.06	0.16	0.01	0.31	0.02	0.06	0.95	Low
	08/04/2025	0.03	0.03	0.10	0.14	0.08	0.14	0.01	0.35	0.03	0.06	0.97	Low
SW0641-3D	18/07/2024	0.04	0.03	0.20	0.13	0.06	0.21	0.01	0.38	0.48	0.30	1.83	Moderate
SW0645	21/04/2023	0.08	0.04	0.14	0.15	0.13	0.12	0.01	0.35	0.01	0.05	1.09	Moderate
SW0655	27/04/2023	0.07	0.03	0.11	0.13	0.19	0.13	0.01	0.25	0.00	0.01	0.94	Low
SW0687	24/04/2023	0.09	0.05	0.11	0.15	0.08	0.30	0.05	0.55	0.01	0.03	1.41	Moderate
	10/05/2024	0.04	0.03	0.10	0.11	0.03	0.22	0.02	0.27	0.02	0.03	0.87	Low
	09/09/2024	0.06	0.03	0.10	0.13	0.10	0.36	0.01	0.47	0.01	0.03	1.31	Moderate
SW0690D-2	09/09/2025	0.04	0.01	0.08	0.06	0.03	0.12	0.01	0.21	0.01	0.02	0.61	Low
SW0710	09/09/2024	0.04	0.02	0.17	0.21	0.02	0.20	0.01	0.38	0.72	0.92	2.67	**High**
SW0722	03/04/2023	0.04	0.03	0.14	0.16	0.02	0.23	0.01	0.34	0.01	0.01	0.98	Low
SW0737	03/04/2023	0.06	0.02	0.11	0.12	0.03	0.20	0.01	0.31	0.19	0.36	1.41	Moderate
	13/06/2023	0.06	0.02	0.10	0.11	0.04	0.12	0.01	0.22	0.29	0.41	1.38	Moderate
	25/04/2024	0.04	0.02	0.12	0.13	0.02	0.12	0.01	0.50	1.12	1.20	3.27	**High**
	22/08/2024	0.05	0.02	0.11	0.13	0.03	0.31	0.01	0.31	0.29	0.44	1.71	Moderate
	17/01/2025	0.06	0.02	0.15	0.14	0.04	0.12	0.01	0.28	0.16	0.27	1.26	Moderate
SW0866	23/04/2024	0.09	0.10	0.14	0.20	0.06	0.21	0.03	1.29	0.00	0.00	2.12	**High**
	06/09/2024	0.09	0.08	0.12	0.18	0.07	0.19	0.02	1.16	0.00	0.00	1.92	**High**
SW0874	04/05/2023	0.09	0.07	0.11	0.15	0.07	0.30	0.23	0.71	0.00	0.00	1.72	Moderate
SW0886-2	14/09/2023	0.03	0.01	0.09	0.06	0.01	0.12	0.01	0.15	0.06	0.06	0.59	Low
SW0886-6*	14/09/2023	0.04	0.02	0.11	0.09	0.01	0.15	0.01	0.22	0.01	0.01	0.66	Low
SW0902	11/04/2024	0.10	0.06	0.15	0.14	0.07	0.20	0.02	0.46	0.01	0.02	1.23	Moderate
SW0916	21/01/2026	0.02	0.01	0.06	0.03	0.01	0.12	0.02	0.15	0.00	0.01	0.43	Low
SW0921	23/04/2024	0.03	0.01	0.07	0.04	0.01	0.12	0.01	0.14	0.00	0.00	0.43	Low
SW0922	23/04/2024	0.13	0.02	0.05	0.02	0.02	0.12	0.01	0.07	0.00	0.00	0.44	Low
SW0926	23/04/2024	0.03	0.01	0.05	0.02	0.01	0.12	0.01	0.07	0.02	0.03	0.38	Low
	04/09/2024	0.05	0.03	0.08	0.05	0.01	0.14	0.01	0.12	0.09	0.34	0.92	Low
SW0927	14/04/2023	0.27	0.06	0.07	0.11	0.07	0.34	0.01	0.29	0.00	0.00	1.22	Moderate
SW0928	23/04/2024	0.03	0.02	0.08	0.06	0.01	0.12	0.01	0.15	0.03	0.06	0.58	Low
SW0929	09/10/2025	0.11	0.03	0.14	0.15	0.02	0.16	0.03	1.60	0.00	0.00	2.24	**High**
	18/11/2025	0.10	0.05	0.13	0.21	0.02	0.27	0.03	1.01	0.00	0.00	1.82	**High**
	21/01/2026	0.08	0.01	0.12	0.14	0.01	0.12	0.02	0.54	0.00	0.00	1.05	Moderate
SW0934	28/03/2023	0.04	0.02	0.11	0.11	0.03	0.12	0.01	0.19	0.00	0.01	0.63	Low
SW0980-5*	04/10/2023	0.06	0.01	0.08	0.05	0.01	0.12	0.01	0.13	0.00	0.00	0.47	Low
SW6003	03/09/2025	0.06	0.02	0.13	0.06	0.01	0.13	0.03	0.12	0.00	0.01	0.57	Low
SW6008	14/04/2023	0.08	0.05	0.15	0.13	0.02	0.12	0.01	0.60	0.00	0.00	1.16	Low

Notes

This table shows the ratio of contaminant concentration to CRD Marine Sediment Quality Guideline.

*CRD MSQG = Marine sediment quality guidelines adopted from Washington State's Department of Ecology for protection of aquatic life.

LPAH and HPAH are low and high molecular weight polycyclic aromatic hydrocarbons, respectively.

XX Value is approaching (ratio >0.75) or greater than (ratio is >1) the CRD MSQG and adverse effects to aquatic life probable.

TEQ is toxicity equivalency quotient which is a sum of all the ratios as an indicator of overall probable adverse effect from all contaminants.

Ratings are calculated as follows: low if the ratio sum (TEQ) is < 1; moderate if it is > 1 with no individual ratios greater than 0.75 and high if an individual ratio is > 0.75.

Some samples are not collected at discharge to marine, therefore marine guidelines are not applicable but used for screening purposes, see Table 4 for freshwater comparisons.

Table 3 Summary of Sediment Chemical Contaminant Ratings and Recommendations

Discharge[1]	Figure	Jurisdiction	Sediment Contaminant Ratings Over Time								Notes & Recommendations
			2018	2019	2020	2021	2022	2023	2024	2025	
210 West of Holland Point	37	Victoria	–	–	Low	–	–	–	–	–	Small residential catchment, historically low. Resample in 2026
212 East of Finlayson Point	39	Victoria	Moderate	Low	Low	Low	–	–	–	–	Metals slightly elevated in water. Resample in 2026.
216 Ross Bay	40	Victoria	no sediment	Low	–	–	–	Moderate contaminants in water	–	Moderate based on water	Elevated mercury u/s in seds & discharge; 216 is tidal, sampled at 216-3A. Narrowed down a source of Hg. Hg detected after relining done. Metals intermittently elevated in water including copper and zinc. Sewage present. Resample in 2026.
218 Ross Bay	40	Victoria	–	–	NR	Low	–	–	–	–	Difficult to find sediment. Elevated metals in water including copper, lead, zinc and silver. Continue water sampling. Resample seds in 2026.
229 Gonzales Bay	41	Victoria	–	–	–	-	–	–	–	–	Small residential catchment; tidal; no sediment available; contaminants low in water
244 McNeill Bay	43	Oak Bay	–	–	–	–	–	Low	–	–	Contaminants low in water. Confirm rating
245 McNeill Bay	43	Oak Bay	–	–	–	–	–	Moderate based on water	–	–	Low in 2001, 2004, 2013. No sediment in 2018. Elevated aqueous copper and soap suds. Resample seds in 2026
250 McNeill Bay	43	Oak Bay	–	–	–	–	–	–	Moderate based in water	–	250-2A is POD but doesn't drain whole catchment and is tidal. PAHs elevated in sediment but not detected in water; metals low relative to other drains in water **Took off of action list.** 250-1A is high & 250-2A is moderate. Historical PAH contamination upstream.
306 Orchard & Newport Ave	45	Oak Bay	High	High u/s	High u/s	–	–	–	Low in water	–	Elevated HPAH and lead in past sediment. Metals and PAH low in water. **Action Required**. No sediment at discharge; elevated PAH and lead at 306-2a (Newport Ave & Currie Rd). Sample in 2026
307 Oak Bay Marina	45	Oak Bay	High	High	-	Moderate at 307-2A	–	–	–	–	Sampled at 307 and 307-2. Elevated PAH, mercury, lead and zinc. **Action Required**: Oak Bay cleaned out manholes at Currie & Newport in 2021. Narrowed down. Confirm rating at 307-2
310 Windsor Rd	45	Oak Bay	–	High u/s	-	–	–	Moderate	–	Moderate	Moderate rating due to water and upstream sediment. Contaminants elevated in water during first flush Previous contamination at Windsor & Monterey. Oak Bay cleaned out manholes in 2021. **Took off of action list**. Confirm rating.
311 1420 Beach Dr	45	Oak Bay	–	–	–	–	–	–	–	–	Short line, packed with beach sand. Intertidal. Cease sampling
316 Bowker Ck.	46	Oak Bay	–	Low	–	–	–	–	Low	Low	Discharge rated low. Upstream, 316-5D rated high due to copper & zinc Sample in 2030
320 Dalhousie St	46	Oak Bay	Low	–	–	–	–	–	–	–	Elevated copper and zinc in water. Resample sediment in 2026
323 North Esplanade	46	Oak Bay	–	–	–	–	Low in water	Low in water	–	–	Contaminants low in water. Resample sediment in 2026
324 Cattle Point	46	Oak Bay	–	High	–	Low	Moderate	–	–	–	Sampled for first time in 2019; Elevated lead but doesn't drain into ocean

Discharge[1]	Figure	Jurisdiction	Sediment Contaminant Ratings Over Time							Notes & Recommendations
			2018	2019	2020	2021	2022	2023	2024	2025	
											Cease sampling
325 Rutland Rd	48	Oak Bay	_	_	_	_	_	_	_	_	Resample sediment in 2026
327 Cadboro Bay	49	Oak Bay	Low	_	_	_	_	_	_	_	Resample sediment in 2026
503 Cadboro Bay	50	Saanich	Moderate	_	_	_	_	_	Low	Low	Aqueous contaminants low. Resample in 2030
505 Cadboro Bay	50	Saanich	High	High	High	Moderate u/s	_	Low in water	Moderate	_	Overflow for CRD's Penrhyn Station. lead, Hg above CCME guideline. Discharge is tidal; sample 505-1 or 505-3. Contaminants low in water
											Took off action list. Saanich cleaned line out 2019. Sediment elevated in Hg upstream to Cadboro Bay Road but low in water. Continue monitoring and investigations
558 Mt. Douglas beach	59	Saanich	_	_	_	_	_	Low/Moderate	_	_	Contaminants low in water. Confirm rating in 2027
559 Douglas Ck.	60	Saanich	_	_	_	Low	_	Low	_	_	Sample above weir (559-2) after spill June 17 had elevated zinc & PAHs. Contaminants low in water in 2025. Resample in 2027.
574 Cordova Bay Rd	63	Saanich	_	_	_	Low	_	_	_	_	Low contaminants in water. Resample 2027.
578 Cordova Bay Rd	63	Saanich	_	_	_	Low	_	_	_	_	Low contaminants in water. Resample 2027.
586 Parker Ave	64	Saanich	Low	_	_	_	_	_	_	_	Low contaminants in water. Resample 2027.
589 Burnham Brook	65	Saanich	_	_	_	Low	_	_	_	_	Drains golf course. Sample in 2027.
592 Noble Ck.	65	Saanich	_	_	_	_	_	Low	_	_	Low contaminants in water. Sample in 2026 (Noble Creek)
603 James Bay Anglers	36	Victoria	NA	_	_	_	_	_	_	_	Elevated zinc & PAH in 2017; no sediment in 2018 or 2020. Contaminants in water low in summer.
											Action Required. Sediment not available. Confirm lower rating. Cadmium, copper and zinc elevated in water.
611 Menzies	35	Victoria	NA	_	_	_	_	_	_	Moderate based on water	Only water samples, elevated copper, lead and zinc
											Continue sampling
613 Govt. St & Belleville	35	Victoria	_	_	_	_	_	_	_	_	Moderate (2014). Sampled at 613-2 (MH D2719). Elevated copper and zinc in water. Sample sediment in 2026.
613A Govt. St & Belleville	35	Victoria	_	_	_	_	_	_	_	_	Rated high in 2014 due to mercury & zinc behind Crystal Gardens.
											Cease sampling, line is intertidal.
614 Wharf & Govt.	35	Victoria	Moderate	_	_	_	_	Contaminants in water	Contaminants in water	Contaminants in water	Elevated lead, mercury & zinc. tidal. 614-1a is a short tributary, from a shallow line that drops into the discharge, confirmed by dye.
											Samples trapped at 614-2 in 2009 & 2014. Sampled 614-1A in 2017. **Action Required.** CRD narrowed down a source. COV pumped out manhole at tourist sign and catchbasin in front of Empress Hotel.

Discharge[1]	Figure	Jurisdiction	Sediment Contaminant Ratings Over Time								Notes & Recommendations
			2018	2019	2020	2021	2022	2023	2024	2025	
620 North of Johnson St bridge	34	Victoria	–	–	–	–	–	Contaminants in water	–	Contaminants in water	**Action Required:** Consistently rated high for zinc but copper & lead elevated in past. Fire upstream in 2019, elevated Cd,copper and zinc in water. Resample
627 Rock Bay	34	Victoria	–	–	–	–	–	–	–	–	Tidally influenced at discharge (627) & 627-3. Aqueous metals high **Action Required.** Access difficult
629 Rock Bay	26	Victoria	–	–	–	–	–	–	High based on water	High based on water	Water samples show elevated arsenic, cadmium, chromium, iron, lead, zinc and aqueous PAHs. Business source found upstream in 2024. **Action Required.** Access difficult
630 Rock Bay	26	Victoria	–	–	–	–	–	Contaminants in water	Contaminants in water	–	Contaminants in water. Access difficult. Sample in 2027.
633 Bay St. Bridge	26	Victoria	–	–	–	–	Low in sed / high in water	–	Contaminants in water	–	Difficult access. Low in sediment but elevated zinc and other metals in past at 633-2. Confirm rating **Action Required**. Elevated cadmium, chromium, copper, iron, lead, zinc and pyrene in water.
634 David St	26	Victoria	–	–	–	–	–	–	–	Aqueous metals high	**Action Required;** Rated high for zinc in 2009. Water samples show elevated iron, cadmium, chromium, copper, iron, lead and zinc.
635 Ralmax	26	Victoria	–	–	–	–	–	–	–	–	Discharge is tidal; can't be sampled upstream; sampling ceased.
636 South of Victoria works yard	26	Victoria	Metals elevated in water	–	–	–	–	–	–	–	Elevated zinc and other metals in sediment. **Action Required.** Elevated cadmium, chromium, copper, iron, lead and zinc in water. Resample sediment in 2027
641 Cecelia Creek.	26	Victoria	Moderate	–	–	–	–	Low	Moderate	Low	Chromium, zinc and PAH above freshwater sediment guidelines. Zinc high in water. Cross-connections fixed in 2024. Damaged infrastructure present. Resample in 2027.
645 Carrol St.	27	Victoria	Moderate	–	–	–	–	Low	–	–	Cadmium, chromium, copper, lead and zinc elevated in water. Lead above CCME ISQG; Confirm Rating
649 Gorge Rd. hospital	27	Victoria private	–	–	–	–	–	–	–	Aqueous metals high	Copper, mercury & zinc elevated in sediment Copper elevated and mercury detected in water, sewage present. Sewage spill in 2025 due to CRD sewer work backfilling sewage into private cross-connection **Action Required**. Hospital and Island Health investigating sources
653 Cedar Shore Appts	27	Saanich	–	–	–	–	Low in water	–	–	–	Sample in 2026.
654 Cedar Shore Appts	27	Saanich private	–	–	–	–	–	–	–	Moderate aqueous metal concentrations	Rated high in past, but potential tidal influence. Difficult to get sediment. Resample in 2026.
655 E. of Gorge Bridge	28	Saanich	–	–	–	–	High	Low	–	–	Lead in sediment elevated above ISQG Copper, lead and zinc elevated in water. Confirm rating
657	28	Saanich	–	–	–	–	–	–	–	–	Tidal, sample at 657-1.

Discharge[1]	Figure	Jurisdiction	Sediment Contaminant Ratings Over Time							Notes & Recommendations
			2018	2019	2020	2021	2022	2023	2024	2025	
W. of Gorge Bridge											Small catchment, need traffic control, low in past, cease sampling
669 Dysart Rd	29	Saanich	–	–	–	–	–	–	–	–	Report of oil spill in June 2018; no PAHS detected in water in 2020. No sediment in pipe in 2018 or 2019; Could not access in 2020. Confirm rating
672 Adelaide Ave	29	Saanich	–	Moderate	Low	–	–	–	–	–	Contaminants low in water. Resample in 2026.
679 Gorge & Admirals	29	Saanich	Low	–	–	–	–	–	–	–	Elevated lead and tin in water. Resample and investigate in 2026.
687 Westing Rd	30	Saanich	–	–	–	–	High	Moderate	Moderate	–	Small stream, elevated arsenic, lead and zinc occasionally. Possible historical source. Sample water
689 Below Admirals Rd	33	Saanich	–	Low	Low	–	–	–	–	–	Resample in 2027
690BB foot of Dysart	33	Saanich	–	–	–	–	–	–	–	–	Tidal at discharge & no upstream sampling location
690D Colquitz River	33	Saanich	–	–	–	–	–	–	–	Low	No elevated metals in water. Resample in 2030.
690E Colquitz River	33	Saanich	–	Low	Low	–	–	–	–	–	Resample in 2026.
692 Portage Rd	32	Saanich	–	Moderate	High	Moderate	–	–	–	–	Zinc elevated in sediment but low in water. Deteriorating pipe.
695 Camden Ave	32	View Royal	–	Moderate	Low	–	–	–	–	–	Sampled at 695-1A; Resample in 2026.
697 Hospital Ck.	31	View Royal	–	–	–	–	–	–	–	–	Zinc in ditch near hospital parking lot. Zinc and copper in water. Source narrowed down plus highway runoff. Can't be sampled at discharge (sampling ceased).
698 Stillwater Rd	31	View Royal	–	Moderate	–	–	–	–	–	–	Resample in 2026.
709B Craigflower Ck.	31	View Royal	–	–	Low	–	–	–	–	–	Aqueous metals low. Resample in 2026
710 Helmcken Rd bridge	31	View Royal	Moderate	Moderate	–	–	–	–	Moderate	–	Zinc above CCME ISQG but concentration is low in water
712 Old Isl Hwy	30	View Royal	Low	High	Moderate	Moderate	Moderate	–	–	–	Low contaminants in water. Resample in 2027
722 Craigflower Bridge	30	View Royal	–	–	–	Moderate based on water	Low based on water	Low	–	–	No seds in 2016, 2019 or 2020. Elevated copper in water in 2021, lower upon resampling.
726 Craigflower & Admirals	29	Esquimalt	Low	–	–	–	–	–	–	–	Low rating confirmed. Low aqueous metals in 2025. Resample in 2026
737 Garthland Rd	29	Esquimalt	–	–	–	High	Low	Moderate	Moderate	Moderate	PAHs intermittently elevated in sediment. PAH and zinc elevated in water samples. **Took off action list**. Source appears to be catchbasin at Garthland Pl (737-1). Asked Esquimalt to clean out manhole. Contaminants lower in 2025.
742 Sioux Pl	28	Esquimalt	–	Low u/s	High u/s	High u/s	High u/s	-	–	–	Sampled at 742-2 as 742 is tidal. Source narrowed. **Mercury 5X > guideline.** **Action Required.** Esquimalt has been notified. Low mercury on the golf course.

Discharge[1]	Figure	Jurisdiction	Sediment Contaminant Ratings Over Time								Notes & Recommendations
			2018	2019	2020	2021	2022	2023	2024	2025	
744 Gorge-Esquimalt Pk	28	Esquimalt	–	–	Moderate	Moderate	–	–	–	–	Elevated zinc in sediment and slightly elevated in water. Resample in 2026.
749 Uganda St	28	Esquimalt	–	–	–	–	–	–	–	Moderate based on water	Samples marine-influenced before 2008. Zinc and mercury elevated in 2017. Appears to be food waste present upstream. Oil spill in past. Copper and zinc elevated in water.
											Action Required. Source narrowed down. Esquimalt contacted. Resample after action taken
758A Bamfield Park	27	Victoria	–	–	–	–	–	–	–	–	Discharge is intertidal. Rating based on 758A-1. No sediment in trap in 2025, but sewer worms present. Water samples have relatively low contaminants, but cadmium elevated in one sample.
767 Ocean Pt Resort	25	Victoria	–	–	–	–	–	–	–	–	Short line, intertidal. Discharge not accessible. Zinc elevated in past
											Removed from action list. Cease sampling.
780 Head St	24	Esquimalt	–	–	–	–	–	–	Moderate based on water	Moderate based on water	Cadmium, copper and zinc elevated in water. No sediment available. Resample in 2026.
781 Head St	23	Esquimalt	–	–	–	–	–	–	Moderate based on water	–	Elevated lead in 2015. Copper and zinc elevated in water. Difficult to find sediment
806 Kinver St	22	Esquimalt	–	–	–	–	–	–	Moderate based on water		Copper & zinc elevated in discharge sediment and water; zinc & PAH u/s of Hatfield & Kinver but not farther u/s
											Action Required; CRD narrowed down to within 2 blocks. Resample discharge
847 concrete building	19	DND	–	–	–	–	–	–	–		Rating confirmed. Can not access site. DND doing own monitoring. Cease sampling
849 fleet building	19	DND	–	–	–	–	–	–	–		Findings shared with DND.
866 Portage Pk	16	View Royal	High u/s	–	Low	Moderate	–	–	**High**	–	Rated high due to elevated zinc. Copper and zinc concentrations low in water.
											Narrowed down. Elevated copper and zinc in stream. View Royal cleaned out manhole and catchbasins upstream but nearby cathode zinc source underground. Confirm rating.
873 Helmcken Rd	16	View Royal	–	–	–	–	Moderate	–	–	–	Resample in 2027
873A Helmcken Rd	16	View Royal	–	–	–	–	–	–	–	–	Sampled at 873 to represent discharge of 873, 873A and 873C. Zinc elevated in ditch upstream likely due to corroded pipe. Zinc low at discharge.
873C Helmcken Rd	16	View Royal	–	–	–	–	–	–	–	–	Sampled at 873 to represent discharge of 873, 873A and 873C. Corroded pipe u/s but zinc low at discharge.
874 Tovey Bay	15	View Royal	–	–	–	Moderate	Moderate	Moderate	–	–	Zinc above PEL in sediment. Source may be corroded pipe. Metals low in water
											Action removed. Resample in 2027.

Discharge[1]	Figure	Jurisdiction	Sediment Contaminant Ratings Over Time							Notes & Recommendations
			2018	2019	2020	2021	2022	2023	2024	2025	
875 View Royal Ave	15	View Royal	_	_	_	_	Low	_	_	_	Low aqueous metals. Resample in 2027
879 Price Rd	15	View Royal	_	_	_	_	Moderate	_	_	_	Low aqueous metals. Resample in 2027
882 Parsons Bridge	13	View Royal	_	_	_	Moderate	_	_	_	_	No exceedances in water sample. Resample in 2027.
886 Millstream Ck.	14	View Royal	Low	_	_	_	_	Low	_	_	Low aqueous metals except for one sample in 2023 with high chromium (130 ug/L) and other metals. Resample in 2026 (Mill Stream Creek)
887 Wilfert Rd	14	View Royal	_	_	_	Low	_	_	_	_	Low in past. Difficult to find sediment. Resample in 2027.
902 Joe's Creek.	13	DND	Low	_	_	_	_	_	Moderate	_	Metals low in water. Resample in 2026 (Joe's Creek)
916 Colwood Ck.	9	Royal Roads	_	_	_	_	Low	_	_	_	Resample in 2027
921	8	Royal Roads	_	Low	_	_	_	_	Low	_	Resample in 2029
922 Hatley Ck	8	Royal Roads	_	Low	_	_	_	_	Low	_	Resample in 2029
926 Bee Ck.	8	Colwood	_	Low	Low	_	_	_	Low	_	Resample in 2029.
927 Miller Brook	8	Colwood	Low	_	_	_	_	Moderate	_	_	Confirm rating
928 Selleck Ck	8	Colwood	_	Moderate	_	_	_	_	Low	_	Sampled with 5 in 30s; Resample in 2029
931 Lagoona Brook	7	Colwood	_	Low	_	_	_	_	_	_	Resample in 2026
932 S end Esquimalt Lagoon	7	Colwood	_	Low	_	_	_	_	_	_	Resample in 2026
933 S end Esquimalt Lagoon	7	Colwood	_	_	_	_	Low	_	_	_	Resample in 2027
934 Ocean Blvd	7	Colwood	_	_	_	Low	_	Low	_	_	Resample in 2028
937 Ocean Blvd	7	Colwood	_	Low	_	_	_	_	_	_	Resample in 2026
6003 Goldstream River	67	Langford	_	Low	_	_	_	_	_	Low	Resample in 2026 as part of 5/30s
6004 Saanich Inlet	67	Langford	_	Low	_	_	_	_	_	_	Resample in 2026.
6006 Saanich Inlet	68	Langford	_	_	_	_	Moderate	_	_	_	**Action Required.** Confirm rating; Elevated PAH in past; creosote log pile nearby. PAH in water above CCME ISQG
6008 Trans Canada	68	Langford	Moderate	Moderate	_	_	_	Moderate	_	_	Slightly elevated zinc. Sample water in 2028

Notes
[1] Contaminant rating for a discharge is based on point of discharge.
Ratings from 2012 to 2018 are displayed; refer to previous reports for ratings prior to 2010.
Metals: arsenic As, cadmium Cd, chromium Cr, copper Cu, lead Pb, mercury Hg, silver Ag and zinc Zn
Organic substances: high and low molecular weight polycyclic aromatic hydrocarbons HPAH and LPAH
u/s is upstream

Table 4 Freshwater Stream Sediment Analytical Data

Station	Sample Date		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Silver	Zinc	LPAH*	HPAH*
	CCME ISQG		5.9	0.6	37.3	35.7	35	0.17	0.5	123	0.1	1
	CCME PEL		17	3.5	90	90	91	0.486		315		
	*Vancouver Island Background**		4	0.95	65	100	40	0.15	1	150		
SW0316	Bowker Creek	04/09/2024	4.9	0.107	*25.8*	*37.4*	17.5	0.05	0.05	*132*	0.0051	0.029
		02/12/2024	5.49	0.111	22.2	30.5	224	0.083	0.076	108	0.054	0.38
		10/04/2025	3.26	0.113	20.6	22.8	9.78	0.05	0.05	98.5	0.014	0.073
SW0316-3B	Bowker Creek Upstream	02/12/2024	4.08	0.111	21.9	25.9	10.5	0.076	0.05	85	0.028	0.19
SW0316-4B	Bowker Creek Upstream	02/12/2024	2.38	0.133	26.4	*59.9*	23.3	0.05	0.05	105	1.5	3.2
SW0316-5	Bowker Creek at UVIC	02/12/2024	3.96	0.086	25.7	23.6	7.44	0.05	0.05	80.1	0.015	0.099
SW0503	Hobbs Creek	14/05/2024	2.2	0.098	20.3	34.1	7.68	0.05	0.05	51.8	0.018	0.079
SW0559	Douglas Creek	19/04/2023	3.25	0.085	20.0	21.3	7.05	0.05	0.05	91.3	0.053	0.37
		12/06/2023	3.36	0.075	20.4	24.1	6.69	0.05	0.05	87.9	0.032	0.11
SW0592	Noble Creek	12/06/2023	4.65	0.371	36.2	*46.6*	10.6	0.073	0.143	120	0.017	0.1
SW0641	Cecelia Creek	14/09/2023	3.6	0.13	*29.5*	*48.9*	27.4	0.066	0.05	*129*	0.037	0.29
		08/04/2025	1.99	0.151	*25.3*	*54.4*	36.5	0.058	0.05	*145*	0.065	0.39
SW0641-3D		18/07/2024	2.24	0.149	50.9	*48.9*	27.5	0.086	0.05	154	1.1	1.8
SW0690D-2	Colquitz Creek	09/09/2025	2.25	0.069	21.6	23.4	14.8	0.05	0.077	87.3	0.019	0.11
SW0866	Mill Stream	23/04/2024	5.34	0.496	36.9	*77.9*	28.5	0.085	0.155	527	0.082	0.28
SW0886-2		14/09/2023	1.62	0.059	23.5	21.9	4.7	0.05	0.05	62.2	0.069	0.17
SW0886-6		14/09/2023	2.43	0.094	28.1	*36*	5.14	0.061	0.05	89.2	0.0098	0.023
SW0902	Joe's Creek	11/04/2024	5.74	0.306	39.5	*54.7*	31.7	0.08	0.151	190	0.16	0.87
SW0916	Colwood Creek	21/01/2026	0.86	0.05	16.0	9.98	3.76	0.05	0.145	63.1	0.0099	0.052
SW0926	Bee Creek	23/04/2024	1.57	0.05	14.1	9.17	3.53	0.05	0.05	28.5	0.036	0.13
		04/09/2024	2.7	0.169	20.3	18.8	6.09	0.059	0.05	48	0.07	0.65
SW0927	Miller Brook	14/04/2023	15.3	0.313	17.1	*44.4*	29.5	0.138	0.083	119	0.11	0.5
SW0928	Selleck Creek	23/04/2024	1.86	0.083	21.8	24	6.25	0.05	0.05	62.6	0.52	2.9
SW0980-5	Bilston Creek Upstream	04/10/2023	4.10	0.062	19.9	19	3.79	0.05	0.05	55	0.018	0.062
SW6003	Goldstream River	03/09/2025	4.13	0.08	33.9	24.7	4.29	0.05	0.18	49.6	0.04	0.23
SW6008	Saanich Inlet	14/04/2023	4.17	0.26	38.2	*48.8*	9.32	0.05	0.07	245	0.05	0.23

Notes
Concentrations are in mg/kg dry weight
LPAH and HPAH are low and high molecular weight polycyclic aromatic hydrocarbons, respectively
CCME = Canadian Council of Ministers of the Environment
Guidelines are for protection of freshwater aquatic life
ISQG = interim sediment quality guideline; concentrations above this level but below the PEL will occasionally result in adverse effects on aquatic life
PEL = probable effects level; concentrations above this level will frequently result in adverse effects to aquatic life
*PAH guidelines are the BC Environment and Parks (ENV) working sediment quality guidelines
Vancouver Island background soil concentration regional estimates (95th percentiles) from BC ENV
www2.gov.bc.ca/assets/gov/environment/air-land-water/site-remediation/docs/protocols/protocol_4.pdf

XX	*Italicized values are those that exceed a guideline but are below the Vancouver Island background soil concentration 95th percentile*
XX	Value is greater than or equal to the CCME ISQG for freshwater aquatic life
	Value is greater than or equal to the CCME PEL for freshwater quality life

Table 5 Average Concentration of Contaminants in Stormwater

		Aluminum		Antimony		Arsenic		Cadmium		Chromium		Cobalt		Copper		Hardness ($CaCO_3$)		Iron		Lead		Manganese		Molybdenum		Nickel		Silver		Tin		Zinc	
Water Quality Guidelines*		-	-	-	-	**12.5**	-	**0.12**	-	**2.5 (Cr (III) +Cr (IV))**		-	-	**3**	**2**	-	-	-	-	**140**	**2**	-	-	-	-	-	-	**3**	**1.5**	-	-	**55**	**10**
Station	n	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean
SW0209	5	198	103	0.5	0.423	1.26	1.02	0.05	0.027	0.72	0.61	0.35	0.20	6.39	5.0	244	191	465	217	1.04	0.43	79	29.1	2.3	1.85	1.88	1.69	0.01	0.01	0.2	0.2	9.1	6.6
SW0210	5	155	63	0.55	0.313	1.7	1.36	0.08	0.037	0.83	0.53	0.26	0.12	6.42	4.8	314	254	198	88	1.03	0.45	9.23	6.2	3.36	2.25	1.29	0.96	0.01	0.01	0.2	0.2	9.4	5.6
SW0212	6	1170	320	0.25	0.157	1.07	0.55	0.03	0.018	*1.98*	0.65	0.77	0.28	5.42	2.8	231	113	1350	408	4.34	1.26	86.6	40.2	2.68	1.08	2.15	1.25	0.01	0.01	0.2	0.2	16.5	5.2
SW0214	5	2270	725	0.59	0.292	1.47	0.76	0.08	0.036	*3.49*	1.44	1.8	0.57	14.2	7.6	133	87	2740	1038	10.20	3.91	215	60.4	0.95	0.55	4.34	1.77	0.18	0.05	0.67	0.3	38.1	18.7
SW0216	9	2570	526	2.06	0.591	2.73	1.32	0.14	0.029	*5.17*	1.56	1.45	0.47	67.3	12.6	219	162	2960	721	11.00	1.84	199	72.2	7.53	3.51	6.02	2.79	0.15	0.03	0.62	0.2	167	27
SW0218	5	1420	624	0.98	0.719	2.05	1.41	0.1	0.04	*8.39*	3.41	0.98	0.51	13.6	8.3	1730	684	7880	3351	8.37	4.08	267	112.9	2.84	2.34	4.42	2.78	0.20	0.06	4	1.1	30	14.9
SW0222	5	2200	590	0.42	0.332	0.99	0.70	0.03	0.021	*4.23*	1.37	1.09	0.47	11.2	7.0	169	141	1950	689	1.57	0.92	141	68.8	2.32	1.46	4.06	2.06	0.02	0.01	0.2	0.2	18.3	10.9
SW0227	14	824	260	1.27	0.713	1.6	0.80	0.04	0.021	*1.96*	0.80	0.45	0.22	14.5	6.8	154	106	616	229	3.59	0.98	18.4	10.4	1.97	0.82	3.84	1.90	0.04	0.01	0.41	0.2	20.3	8.9
SW0229	6	493	256	0.61	0.552	0.93	0.82	0.03	0.027	1.36	1.12	0.37	0.26	6.88	5.8	164	123	494	229	1.90	0.94	12.9	8.5	3.01	2.00	2.16	1.90	0.02	0.01	0.2	0.2	17.9	12.3
SW0230	6	209	152	0.45	0.349	0.76	0.56	0.03	0.018	0.79	0.65	0.37	0.21	16.7	7.3	181	139	325	167	0.97	0.51	35.6	16.4	1.45	0.96	1.81	1.32	0.02	0.01	0.67	0.3	28.5	10.1
SW0231	3	118	87	0.44	0.333	1.16	0.72	0.01	0.008	0.35	0.30	0.17	0.12	5.85	4.2	127	104	221	135	0.41	0.28	47.3	18.3	0.9	0.68	0.91	0.81	0.01	0.01	0.2	0.2	5.81	4.7
SW0236	5	136	88	0.99	0.674	0.72	0.53	0.01	0.008	*3.6*	1.37	0.16	0.13	7.38	5.0	182	171	96.6	54	0.26	0.15	9.5	4.5	5.77	4.25	11.9	3.24	0.01	0.01	0.2	0.2	11.2	7.8
SW0237	5	370	185	1.87	0.834	1.42	0.90	0.12	0.041	*2.86*	1.36	0.54	0.27	67.7	22.7	167	106	378	231	13.10	4.14	10.8	7.1	2.12	1.02	3.58	2.40	0.05	0.02	0.77	0.3	159	44.9
SW0238	3	124	76	0.23	0.125	0.5	0.34	0.01	0.008	0.55	0.34	0.32	0.16	11.8	5.7	109	68	709	278	0.39	0.26	151	54.3	0.43	0.31	1.3	0.79	0.01	0.01	0.2	0.2	7.9	5.5
SW0244	7	647	210	0.75	0.414	1.48	0.76	0.02	0.012	1.02	0.56	0.3	0.16	11	5.3	140	112	289	120	0.64	0.29	26.1	13.6	1.09	0.66	2.41	1.41	0.02	0.01	0.2	0.2	8.2	4.6
SW0245	8	604	343	1.03	0.687	1.78	1.13	0.03	0.019	*1.73*	1.31	0.38	0.29	91.9	24.0	173	119	905	513	2.53	1.19	48	27.7	4.66	1.92	4.58	2.22	0.01	0.01	0.22	0.2	29.9	12.2
SW0249	4	534	374	0.81	0.564	1.6	1.16	0.04	0.024	*1.74*	1.36	0.3	0.23	23.8	12.6	251	172	441	320	1.15	0.70	18.8	12.4	1.94	1.29	3.66	3.08	0.02	0.02	0.2	0.2	16.6	9.9
SW0250	4	2910	1005	0.78	0.535	2.2	1.60	0.03	0.021	*4.56*	2.13	0.94	0.53	14.9	9.2	430	310	1950	858	2.73	1.31	67.6	28.0	14.4	5.57	6.1	3.28	0.03	0.02	0.4	0.3	21.2	10.1
SW0301	2	1050	533	0.53	0.373	0.53	0.46	0.04	0.026	*2.27*	1.30	1.02	0.71	21.6	16.9	274	171	1700	860	2.05	1.25	110	60.6	2.46	1.53	4.22	3.41	0.02	0.01	0.2	0.2	26.4	15.1
SW0306	4	102	88	0.4	0.313	0.68	0.67	0.03	0.025	*3.83*	2.19	0.3	0.29	8.46	6.7	588	587	165	142	0.26	0.24	14.5	10.0	4.68	3.26	15.4	8.74	0.05	0.05	1	1.0	7.9	6.1
SW0307	7	142	85	0.39	0.182	0.9	0.55	0.02	0.013	0.5	0.28	0.32	0.20	19.7	6.1	236	163	585	349	1.25	0.60	80.1	48.5	0.73	0.50	2.18	1.21	0.01	0.01	0.2	0.2	17.2	7.0
SW0309	5	164	64	1.73	0.881	2.74	2.57	0.03	0.015	0.87	0.49	0.15	0.09	74.1	34.0	507	320	189	88	0.38	0.22	48	21.1	2.61	2.11	1.14	0.73	0.02	0.01	0.4	0.3	7.3	3.0
SW0310	9	313	131	0.52	0.366	4.3	1.03	0.02	0.011	1.3	0.70	0.24	0.14	34.3	7.3	213	170	231	101	0.90	0.27	16.2	6.0	1.8	1.40	1.92	1.16	0.01	0.01	0.29	0.2	17.8	6.1
SW0310A	6	381	104	3.35	0.987	0.87	0.62	0.04	0.017	0.87	0.43	0.32	0.14	64.3	15.2	350	276	225	86	1.22	0.42	47.6	27.8	1.95	1.39	2.2	1.43	0.02	0.01	0.2	0.2	23.2	6.5
SW0315	2	521	461	0.69	0.672	1.3	1.17	0.02	0.018	1.12	0.91	0.49	0.45	14.4	12.1	229	193	485	346	1.74	1.61	16.4	16.2	6.5	4.86	4.28	3.34	0.01	0.01	0.2	0.2	6.7	6.6
SW0316	32	226	60	0.83	0.547	1.44	0.95	0.02	0.008	1.11	0.52	0.26	0.12	8.04	4.5	181	135	377	117	0.58	0.18	35.1	11.1	17.8	7.65	1.77	1.15	0.01	0.01	0.22	0.2	10.2	5.9
SW0317	6	76	41	0.5	0.463	0.53	0.45	0.02	0.014	0.43	0.31	0.25	0.16	26.3	14.1	199	163	50.6	39	0.17	0.12	14.2	5.7	0.88	0.75	1.61	1.40	0.01	0.01	0.2	0.2	23.5	6.6
SW0318	8	261	178	0.59	0.388	1.05	0.77	0.02	0.014	1.13	0.80	0.22	0.16	37.4	8.8	181	123	243	144	0.68	0.37	13	7.0	1.4	1.04	2.12	1.36	0.01	0.01	0.2	0.2	16.1	6.9
SW0319	2	236	169	0.46	0.414	4.22	2.78	0.01	0.009	1.06	1.05	0.27	0.23	4.81	3.8	167	163	218	147	0.36	0.26	8.98	6.4	4.6	3.59	2.33	1.93	0.01	0.01	0.2	0.2	3.55	3.3
SW0320	7	1500	419	0.72	0.457	3.6	1.61	0.05	0.019	*3.39*	1.29	0.81	0.30	25.2	9.1	185	123	1400	393	5.79	1.59	54.4	14.9	5.15	2.10	3.5	1.80	0.04	0.01	0.2	0.2	37.8	12.9
SW0321	6	610	307	0.86	0.448	1.7	0.99	0.04	0.023	*1.84*	0.97	0.27	0.18	41.4	12.3	143	92	401	241	2.09	1.10	13	7.2	0.94	0.61	2.94	1.84	0.01	0.01	0.2	0.2	40.3	14.6
SW0321A	5	764	446	1.03	0.496	16.8	4.21	0.18	0.052	*100*	20.95	0.59	0.32	111	26.8	130	103	1020	427	16.60	4.21	39.4	15.4	1.19	0.88	2.91	2.18	0.05	0.02	0.2	0.2	123	31.3
SW0322	6	308	158	1.74	0.664	1.2	0.91	0.02	0.012	1.41	0.86	0.27	0.17	17.3	7.5	226	147	214	126	0.51	0.26	15.2	6.1	2.6	1.24	2.62	1.74	0.01	0.01	0.2	0.2	16.3	7.4
SW0323	6	368	173	0.39	0.197	1.23	0.69	0.02	0.009	*1.54*	0.64	0.33	0.18	21.8	8.3	146	104	639	257	1.10	0.34	65.2	27.7	1.65	0.67	2.33	1.28	0.01	0.01	0.2	0.2	17.4	10.3
SW0503	10	686	132	0.2	0.113	1.63	1.03	0.08	0.015	*1.56*	0.45	0.48	0.13	6.1	1.7	886	273	1100	347	3.77	0.64	314	99.7	1.13	0.69	1.56	0.57	0.03	0.01	1	0.3	15.5	3.4
SW0505	8	440	127	0.24	0.144	0.98	0.70	0.09	0.025	1.43	0.59	0.52	0.24	7.15	3.3	538	248	761	277	0.35	0.22	98.9	67.2	1.42	0.91	2.02	1.11	0.02	0.01	0.41	0.3	10.5	4.3
SW0506	6	394	159	0.65	0.329	1.35	0.74	0.05	0.022	*1.66*	0.71	1.12	0.43	10.3	6.0	208	183	2340	674	1.22	0.35	1030	256.0	3.98	1.84	3.69	2.52	0.01	0.01	0.2	0.2	42.2	13.4
SW0508	7	188	111	0.73	0.282	1.71	1.07	0.03	0.015	1.17	0.67	0.16	0.14	13.2	8.2	178	136	249	129	0.48	0.22	39.1	9.5	1.32	0.52	1.23	0.90	0.01	0.01	0.23	0.2	15.2	9.1
SW0518	6	78.7	28	0.11	0.108	0.24	0.22	0.02	0.009	*3.78*	0.79	0.09	0.06	4.21	2.9	124	114	59.9	23	0.06	0.04	2.03	1.2	0.34	0.27	2.35	0.82	0.01	0.01	0.2	0.2	24.8	5.7
SW0524A	2	74.6	50	0.06	0.042	0.74	0.40	0.01	0.009	0.54	0.32	0.08	0.05	1.56	1.2	142	79	97.2	84	0.13	0.11	6.13	4.5	0.39	0.23	0.92	0.61	0.01	0.01	0.2	0.2	2	1.8
SW0527	2	30	21	0.05	0.042	0.15	0.15	0.01	0.005	0.13	0.12	0.08	0.07	1.54	1.1	78.1	76	35.4	35	0.06	0.06	19.6	18.7	0.14	0.13	0.53	0.46	0.01	0.01	0.2	0.2	3.9	3.0
SW0538	2	958	496	0.3	0.234	4.05	2.67	0.25	0.148	*2.45*	1.42	1.57	0.98	46.5	26.1	208	200	2390	1274	12.60	6.87	414	248.2	1.24	0.97	3.05	2.08	0.03	0.02	0.32	0.3	58.1	34.0
SW0538A	4	128	75	0.12	0.072	0.89	0.52	0.01	0.007	0.67	0.40	0.36	0.18	12.2	4.5	132	104	495	333	0.20	0.12	85.6	45.4	0.39	0.25	1.05	0.79	0.01	0.01	0.2	0.2	3.4	2.5

		Aluminum		Antimony		Arsenic		Cadmium		Chromium		Cobalt		Copper		Hardness ($CaCO_3$)		Iron		Lead		Manganese		Molybdenum		Nickel		Silver		Tin		Zinc	
Water Quality Guidelines*		-	-	-	-	12.5	-	0.12	-	2.5 (Cr (III) +Cr (IV))		-	-	3	2	-	-	-	-	140	2	-	-	-	-	-	-	3	1.5	-	-	55	10
Station	n	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean
SW0539	5	6560	1343	0.83	0.214	1.77	0.96	0.22	0.048	*11.7*	2.67	6.9	1.43	91	18.9	160	125	9800	2005	33.80	6.81	270	59.5	0.43	0.32	12	2.80	0.03	0.01	1.91	0.5	204	42.2
SW0546	2	163	91	0.24	0.145	0.4	0.25	0.02	0.014	0.58	0.34	0.12	0.08	2.88	1.8	85.2	52	183	119	0.19	0.12	7.37	6.1	0.19	0.14	0.88	0.55	0.01	0.01	0.2	0.2	17.3	9.5
SW0548	4	132	64	0.31	0.251	0.7	0.47	0.02	0.009	0.48	0.35	0.2	0.16	5.02	3.5	134	94	95.3	56	0.13	0.10	4.08	3.1	0.81	0.54	0.89	0.65	0.01	0.01	0.2	0.2	7.9	4.4
SW0549	3	3320	1431	0.21	0.158	0.86	0.56	0.12	0.063	*4.35*	1.94	1.91	0.82	55.9	23.2	134	108	3440	1444	8.72	3.45	127	58.7	0.33	0.26	5.11	2.55	0.02	0.01	0.2	0.2	42.9	19.1
SW0549A	4	43.7	26	0.21	0.164	0.78	0.52	0.06	0.021	0.32	0.24	0.2	0.14	7.55	4.3	192	160	49.9	36	0.14	0.08	6.53	3.4	0.92	0.72	0.85	0.69	0.01	0.01	0.2	0.2	11.1	5.4
SW0558	5	193	117	1.01	0.424	1.18	0.64	0.01	0.007	0.93	0.52	0.22	0.17	6.47	3.3	208	170	152	92	0.10	0.07	16.3	7.9	3.71	1.48	1.57	1.10	0.01	0.01	0.2	0.2	6.9	3.3
SW0559	28	311	49	0.41	0.260	1.11	0.76	0.01	0.006	0.94	0.28	0.26	0.08	6.47	3.1	156	107	366	67	0.73	0.08	22.3	6.4	1.18	0.83	1.04	0.74	0.01	0.01	0.2	0.2	21.8	6.2
SW0559-2	20	2810	239	0.85	0.367	3.18	1.19	0.18	0.022	*4.45*	0.65	1.99	0.25	30.4	6.2	189	113	3410	417	9.74	0.90	204	33.6	1.65	0.98	4.69	1.18	0.03	0.01	0.25	0.2	296	35.0
SW0562	2	725	621	0.11	0.094	0.37	0.27	0.04	0.034	*16.5*	8.35	0.29	0.25	3.86	3.1	59.5	47	600	488	0.50	0.42	20.3	16.0	14.8	7.45	68.5	34.82	0.02	0.02	0.4	0.3	43.2	25.1
SW0567	5	125	38	0.4	0.154	0.51	0.33	0.18	0.041	0.2	0.14	0.19	0.14	6.41	3.2	175	130	221	100	0.45	0.12	84.9	56.6	0.86	0.49	0.9	0.84	0.01	0.01	0.2	0.2	8.6	3.3
SW0571	2	56.7	47	0.1	0.089	0.37	0.25	0.06	0.034	*3.68*	1.89	0.51	0.30	2.24	1.7	119	96	178	102	0.23	0.15	140	72.5	3.84	1.97	15.3	7.77	0.01	0.01	0.2	0.2	7.2	6.6
SW0573	3	423	147	0.13	0.113	0.45	0.33	0.04	0.017	0.54	0.44	0.42	0.20	3.92	2.4	124	114	507	183	0.64	0.23	57.5	24.6	0.78	0.69	2.38	1.91	0.01	0.01	0.2	0.2	5.9	3.4
SW0574	6	24.8	17	0.11	0.095	0.63	0.39	0.01	0.005	0.22	0.16	0.14	0.10	1.82	1.5	146	124	179	149	0.12	0.05	53.4	39.6	0.42	0.26	0.8	0.67	0.01	0.01	0.2	0.2	3	2.0
SW0576A	5	99.9	61	0.08	0.065	0.56	0.49	0.01	0.008	0.48	0.40	0.09	0.06	1.66	1.2	155	138	154	102	0.16	0.13	5.92	5.2	0.38	0.28	0.7	0.57	0.01	0.01	0.2	0.2	4.4	3.3
SW0578	4	10.2	8	0.06	0.046	0.48	0.41	0.03	0.013	0.31	0.24	0.05	0.04	0.8	0.6	144	133	234	194	0.04	0.03	48.3	40.9	0.3	0.27	0.39	0.36	0.01	0.01	0.2	0.2	1.4	1.2
SW0580	4	179	88	0.14	0.118	1.48	0.79	0.02	0.012	0.44	0.35	0.23	0.14	4.03	2.4	101	89	415	225	0.84	0.44	45.5	27.7	0.48	0.38	0.85	0.64	0.01	0.01	0.2	0.2	11.9	8.3
SW0581	5	49.6	27	0.1	0.090	0.29	0.25	0.04	0.012	0.46	0.27	0.11	0.08	1.35	1.1	86.8	85	123	95	0.13	0.07	14	11.2	0.4	0.29	1.06	0.56	0.01	0.01	0.2	0.2	4	2.7
SW0582	2	230	124	0.44	0.326	0.5	0.39	0.02	0.013	0.41	0.28	0.25	0.14	3.32	2.8	151	108	267	148	0.63	0.36	32.1	16.9	0.92	0.88	1.06	0.97	0.01	0.01	0.2	0.2	7.2	7.0
SW0586	2	50.6	41	0.15	0.133	0.46	0.38	0.02	0.014	0.24	0.23	0.08	0.07	2.15	2.0	216	208	73	60	0.08	0.06	41.9	23.3	0.71	0.53	0.8	0.70	0.01	0.01	0.2	0.2	2.9	2.9
SW0592	5	1330	491	0.19	0.118	1.5	1.21	0.07	0.024	*11.8*	3.07	1.02	0.44	8.84	3.5	181	167	1710	734	1.30	0.42	114	74.6	11.7	3.34	46	10.78	0.02	0.01	0.2	0.2	12.2	4.7
SW0603	6	96.5	57	1.71	0.948	2.74	1.80	0.55	0.112	*1.67*	0.70	0.51	0.23	18.7	7.6	255	198	169	96	1.97	0.71	22.7	12.9	3.76	2.00	1.98	1.56	0.02	0.01	0.55	0.3	48.6	13.8
SW0607	6	187	134	0.74	0.531	1.68	1.22	0.03	0.018	0.71	0.50	0.46	0.32	12.7	8.2	559	298	732	420	0.41	0.30	162	100.7	4.08	2.96	2.79	1.87	0.02	0.01	0.4	0.3	14.5	11.8
SW0607A	5	140	71	0.4	0.400	1.86	1.35	0.1	0.100	*2*	2.00	0.99	0.45	3.3	2.5	4790	3898	274	142	1.14	0.62	654	161.3	8.4	5.20	2.71	2.14	0.20	0.18	4	4.0	20	18.3
SW0609	3	137	66	0.65	0.593	3.75	3.12	0.05	0.042	1	0.90	0.1	0.10	12.7	8.1	2340	1680	291	281	1.67	1.35	5.25	4.7	2.73	2.39	1	0.96	0.10	0.08	2	1.7	10	9.7
SW0610	5	188	85	1.46	1.017	1.71	1.15	0.36	0.093	1.34	1.08	0.55	0.30	125	38.9	171	113	425	316	4.57	1.82	73.7	43.8	2.21	1.54	4.66	1.91	0.07	0.02	0.28	0.2	50.9	25.2
SW0611	5	182	122	0.85	0.535	1.18	0.82	0.08	0.051	0.95	0.75	0.55	0.38	60.8	32.9	321	232	537	318	5.92	3.13	95	51.2	3.25	1.83	2.6	1.93	1.00	0.38	0.33	0.2	43.8	26.8
SW0613	7	481	209	0.85	0.718	2	1.16	0.07	0.030	*2.04*	1.14	0.52	0.27	34.1	16.9	326	237	1370	758	7.37	1.71	169	117.2	15	5.79	4.58	1.88	0.03	0.01	0.46	0.2	40.9	17.8
SW0614	5	232	166	1.37	0.938	5.79	2.10	0.3	0.111	*5.04*	2.22	0.4	0.28	28.8	18.5	393	286	399	316	2.82	1.67	20.8	16.8	18	6.17	4.08	2.16	0.02	0.01	0.74	0.4	97.2	50.7
SW0619	5	674	245	1.24	0.821	1.62	1.09	0.15	0.064	*2.19*	1.04	0.72	0.39	29.8	16.7	298	224	1340	608	12.90	3.54	66.8	39.6	2.63	1.73	3.2	2.06	0.15	0.05	0.6	0.3	56	22.5
SW0620	5	615	256	1.32	0.736	4.73	1.91	0.13	0.059	*5.35*	2.11	0.79	0.42	38.8	20.9	201	128	1120	757	3.64	1.85	146	80.4	6.59	3.15	21.4	5.98	0.12	0.04	0.66	0.3	521	140
SW0622	5	590	185	0.82	0.425	18.5	4.16	0.05	0.032	*2.6*	1.04	0.56	0.32	21.7	16.1	1540	382	886	357	2.96	1.11	23.9	13.3	2.67	1.08	2.49	1.59	0.10	0.03	2	0.6	157	104
SW0623	2	1000	518	0.61	0.581	0.95	0.94	0.11	0.064	*3.44*	2.15	2.34	1.27	32.8	18.8	309	173	9250	4641	22.50	11.32	493	247.9	2.67	1.78	4.93	3.29	0.17	0.09	1.89	1.0	160	143
SW0624	6	2620	592	1.02	0.736	1.71	1.26	0.06	0.036	*4.7*	1.57	2.4	0.67	27.7	17.7	785	305	3480	811	4.18	1.40	91.2	28.5	4	2.05	4.65	1.63	0.05	0.02	1	0.4	53.7	26.0
SW0626	6	380	212	1.09	0.917	2.63	1.49	0.05	0.029	*1.57*	1.16	0.85	0.43	19.5	16.0	432	189	2040	779	1.84	1.07	392	130.1	3.54	2.14	3.66	2.08	0.04	0.02	0.49	0.3	56.4	42.0
SW0627	4	331	184	1.52	0.928	1.24	1.02	0.03	0.023	*2.1*	1.09	0.3	0.23	13.6	10.1	755	293	423	353	0.97	0.76	126	84.9	5.53	3.16	1.7	1.42	0.02	0.01	0.2	0.2	55.5	35.6
SW0629	6	3490	1074	13	5.637	2.16	1.18	0.27	0.181	*12.1*	6.35	2.65	1.13	450	200	704	406	4910	2213	75.7	28.1	626	340.0	11.7	7.39	33.3	16.13	0.10	0.07	13.6	6.5	628	347
SW0634	4	1900	1006	4.56	2.353	10.1	4.72	1.26	0.625	*4.95*	3.23	91.7	28.59	149	78.0	418	270	5920	4475	53.4	18.5	2420	####	5.24	3.48	28.8	14.30	0.22	0.12	14.5	5.3	3590	1493
SW0636	4	5430	2138	1.51	1.116	3.45	2.11	0.14	0.114	*10.7*	5.06	4.01	1.97	25.9	21.5	441	281	8620	4130	17.7	8.9	609	406.8	5.74	3.64	10.6	6.65	0.06	0.04	1.09	0.9	121	75
SW0639A	2	153	127	0.61	0.594	1.64	1.41	0.01	0.013	*6.62*	3.63	0.24	0.23	6.5	5.3	405	352	208	204	0.57	0.53	14.8	12.3	6.54	6.18	6.2	3.91	0.02	0.02	0.4	0.3	12.9	10.5
SW0641	35	339	71	1.94	0.698	1.35	0.90	0.09	0.020	*2.74*	0.80	0.52	0.17	27.3	7.7	217	161	915	198	3.76	0.39	121	40.9	4.28	2.34	10.5	1.87	0.01	0.01	0.56	0.2	4690	152
SW0644**	2	####	####	5.87	3.080	14.3	7.46	3.8	1.916	*79.1*	41.60	25	12.67	384	200	182	99	####	####	248	124.4	1220	619.5	4.66	2.50	77.1	41.31	0.50	0.25	8.4	4.5	1690	866
SW0645	4	8850	2437	1.36	0.651	4.37	1.60	0.18	0.061	*20*	5.75	5.96	1.74	63.8	23.5	213	162	####	3778	38	10.50	825	228.6	2.81	1.33	15.6	4.98	0.13	0.05	0.68	0.3	157	59
SW0645A	6	80.1	24	0.24	0.194	0.74	0.33	0.01	0.007	*5.41*	1.05	0.29	0.13	2.87	1.5	313	273	251	118	0.18	0.07	333	130.8	5.78	1.33	22.8	4.58	0.01	0.01	0.2	0.2	5.2	2.4

		Aluminum		Antimony		Arsenic		Cadmium		Chromium		Cobalt		Copper		Hardness ($CaCO_3$)		Iron		Lead		Manganese		Molybdenum		Nickel		Silver		Tin		Zinc	
Water Quality Guidelines*		-	-	-	-	12.5	-	0.12	-	2.5 (Cr (III) +Cr (IV))		-	-	3	2	-	-	-	-	140	2	-	-	-	-	-	-	3	1.5	-	-	55	10
Station	n	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean
SW0645B	3	921	419	0.51	0.323	0.98	0.62	0.01	0.014	*2.3*	1.69	0.67	0.32	9.2	6.6	200	99	1050	500	1.10	0.87	44.1	20.9	0.77	0.60	1.44	1.27	0.01	0.01	0.2	0.2	10.9	8.5
SW0649	4	377	204	0.51	0.298	2.35	1.12	0.09	0.037	0.79	0.54	1.03	0.44	68.5	33.2	263	129	614	308	1.96	1.01	581	273.8	1.41	0.74	4.9	2.60	0.03	0.02	0.33	0.2	38.2	18.6
SW0650	6	593	175	0.75	0.325	3.31	1.19	0.04	0.024	*1.66*	0.62	0.53	0.26	18.3	8.2	196	152	664	210	8.67	1.84	62.1	25.6	2.45	1.60	2.78	1.74	0.08	0.02	0.66	0.3	42.7	17.3
SW0652A	2	14.3	9	0.21	0.202	0.8	0.63	0.01	0.008	0.11	0.11	0.28	0.25	0.84	0.8	295	284	292	257	0.18	0.10	164	148.0	0.77	0.65	0.69	0.63	0.01	0.01	0.2	0.2	6.9	6.1
SW0652B	2	12.4	9	0.31	0.271	0.32	0.31	0.01	0.009	0.26	0.24	0.04	0.04	2.93	1.9	270	252	22.3	17	0.05	0.04	8.53	8.4	0.29	0.29	0.85	0.83	0.01	0.01	0.2	0.2	7.6	6.1
SW0653	6	222	111	0.4	0.277	0.81	0.61	0.02	0.010	0.76	0.52	0.18	0.11	5.49	3.2	229	165	542	325	0.23	0.18	88	49.8	1.2	0.93	1.43	0.99	0.01	0.01	0.28	0.2	5.2	4.1
SW0654	2	42.1	29	0.24	0.208	0.42	0.38	0.03	0.023	*7.37*	4.82	0.26	0.25	9.98	9.1	386	355	40.1	40	0.34	0.32	50.4	47.3	1.11	1.00	4.97	4.26	0.01	0.01	0.2	0.2	22.6	17.2
SW0655	4	2270	852	0.49	0.402	1.96	1.17	0.09	0.046	*7.19*	3.37	2.03	0.86	15.9	7.9	376	286	5430	2709	20.4	5.94	1060	754.3	7.72	2.87	29.2	10.31	0.02	0.01	0.23	0.2	78.3	30.9
SW0658	2	20.1	14	0.48	0.429	0.75	0.69	0.02	0.020	0.31	0.26	0.13	0.13	7.11	5.4	450	435	27	19	0.08	0.06	3.44	2.6	1.75	1.48	1.27	1.18	0.02	0.02	0.4	0.4	2.1	2.1
SW0661	2	26.5	26	0.02	0.021	0.07	0.07	0.01	0.005	0.21	0.21	0.02	0.02	1.01	1.0	17	17	40.3	40	0.03	0.03	2.4	2.4	0.15	0.14	0.49	0.46	0.01	0.01	0.2	0.2	1.3	1.3
SW0671	7	481	180	0.53	0.330	1.39	0.72	0.03	0.019	0.82	0.59	0.56	0.23	55.8	18.4	205	164	437	163	1.83	0.57	65.4	17.0	2.11	1.27	9.84	4.45	0.02	0.01	0.2	0.2	29.3	14.9
SW0676	2	341	187	0.37	0.367	0.7	0.55	0.09	0.051	1.19	1.10	0.29	0.24	8.8	7.8	2130	1093	533	292	0.64	0.42	14.2	9.7	3.83	3.11	3.8	2.50	0.10	0.06	2	1.1	15.3	12.7
SW0679	3	30.3	28	4.19	2.827	1.18	0.82	0.01	0.010	0.14	0.12	0.07	0.06	3.31	2.6	248	241	92.7	90	195.0	128.4	32.3	30.5	2.64	2.21	0.98	0.86	0.01	0.01	9.98	6.7	2.3	2.0
SW0687	3	1000	517	0.65	0.568	13.2	4.97	0.1	0.045	*1.57*	1.12	0.76	0.44	10.2	7.8	209	140	1190	652	3.12	1.88	62.3	38.8	1.15	0.86	2.3	1.89	0.03	0.02	0.2	0.2	36.6	19.2
SW0690D-2	6	185	122	0.16	0.119	1.03	0.71	0.06	0.016	*2.65*	0.71	0.21	0.19	2.43	1.8	126	103	560	460	1.06	0.41	85.6	65.8	2.95	0.83	10.6	2.59	0.01	0.01	0.2	0.2	5.3	4.2
SW0691A	2	2660	1347	0.61	0.371	0.93	0.56	0.09	0.048	*5.02*	2.58	1.89	1.01	26.9	14.3	119	105	3590	1835	17.20	8.68	168	102.5	0.67	0.51	5.22	2.87	0.03	0.02	0.49	0.3	62.2	32.5
SW0697	5	1240	498	0.59	0.274	1.65	0.77	0.03	0.020	*2.84*	1.21	1.63	0.66	11.7	6.3	653	294	3780	1240	3.65	0.93	725	205.8	3.04	2.00	3.41	2.04	0.02	0.01	0.4	0.2	74.7	30.4
SW0703	3	534	366	0.19	0.155	1.74	1.28	0.07	0.039	1.07	0.84	1.91	1.40	4.76	3.6	236	231	8830	5577	1.58	1.35	2490	####	0.47	0.44	2.66	2.15	0.01	0.01	0.2	0.2	30.7	17.4
SW0709B	6	101	67	0.11	0.055	0.39	0.22	0.02	0.007	0.65	0.34	0.09	0.07	1.9	0.9	107	81	376	235	0.06	0.05	209	62.0	0.49	0.32	2.02	0.93	0.01	0.01	0.2	0.2	2.16	1.2
SW0710	3	261	103	0.14	0.138	0.3	0.28	0.04	0.020	0.49	0.28	0.21	0.16	7.16	4.2	161	126	317	202	0.28	0.13	260	96.3	0.43	0.38	0.84	0.59	0.01	0.01	0.2	0.2	12.2	6.8
SW0722	6	235	122	0.4	0.270	0.82	0.64	0.02	0.010	0.73	0.44	0.24	0.13	13.5	7.1	201	157	357	153	0.56	0.21	18.4	9.8	1.89	1.26	1.8	1.08	0.02	0.01	0.2	0.2	16.1	6.8
SW0726	5	188	96	0.4	0.230	1.49	0.78	0.1	0.035	*2*	0.69	0.24	0.16	7.07	3.7	4460	1211	427	240	0.32	0.19	168	69.9	6.4	2.12	1.81	1.10	0.10	0.04	4	1.1	17.4	9.5
SW0726A	2	93.5	55	0.18	0.162	0.41	0.34	0.04	0.022	0.57	0.34	0.1	0.07	3.72	2.6	345	255	125	65	0.21	0.12	30.2	17.7	0.78	0.60	1.77	1.26	0.01	0.01	0.2	0.2	13.1	7.1
SW0726B	2	779	516	0.47	0.372	0.9	0.81	0.04	0.031	*3.6*	2.04	0.54	0.42	12.3	8.0	164	137	867	601	0.57	0.39	133	116.0	7.77	4.17	2.51	1.97	0.01	0.01	0.2	0.2	7.5	6.4
SW0727	2	32.2	32	0.15	0.152	0.32	0.32	0.01	0.005	0.18	0.17	0.14	0.13	0.9	0.9	262	262	173	165	0.05	0.05	59.5	57.6	0.64	0.63	0.64	0.61	0.01	0.01	0.2	0.2	2	1.9
SW0735	3	322	220	0.72	0.528	0.89	0.74	0.02	0.015	0.9	0.67	0.2	0.17	7.07	4.9	190	146	300	208	0.42	0.26	113	81.5	0.69	0.59	1.37	1.12	0.01	0.01	0.2	0.2	14.4	8.3
SW0736A	6	894	196	0.21	0.187	0.75	0.40	0.04	0.013	*1.83*	0.59	0.57	0.17	5.2	3.3	221	166	1240	270	0.33	0.17	26.3	12.0	0.79	0.67	2.22	0.84	0.02	0.01	0.2	0.2	6.4	4.4
SW0737	5	1790	534	1.01	0.636	2.08	0.98	0.03	0.019	*3.87*	1.45	1.41	0.44	47.2	15.7	294	210	4660	1127	2.25	0.87	145	39.2	7.78	3.01	2.82	1.68	0.03	0.01	0.2	0.2	333	76.8
SW0740	2	776	436	0.57	0.423	1.05	0.77	0.02	0.015	*1.55*	0.91	0.55	0.41	9.37	6.2	101	98	778	424	0.93	0.53	25.7	13.6	0.95	0.77	1.81	1.62	0.02	0.01	0.2	0.2	7.9	5.2
SW0742	6	266	95	0.98	0.353	0.96	0.56	0.09	0.030	*1.53*	0.70	0.7	0.39	3.51	2.6	977	339	1670	840	0.38	0.14	562	305.3	4.46	1.21	4.09	2.21	0.05	0.02	1	0.4	19.5	10.9
SW0742B	2	413	274	0.42	0.404	1.26	1.09	0.03	0.022	1.12	0.87	0.68	0.64	10.8	8.4	139	101	1650	1217	1.76	1.35	275	203.0	0.69	0.64	1.69	1.50	0.01	0.01	0.2	0.2	18.6	18.1
SW0743A	2	853	801	0.23	0.191	0.85	0.77	0.05	0.041	*2.14*	1.88	0.86	0.82	6.76	6.7	670	449	2120	1745	3.13	2.62	284	263.5	0.97	0.81	2.38	2.08	0.05	0.04	1	0.6	26	23.3
SW0744	6	552	148	0.73	0.339	1.12	0.76	0.03	0.017	*2.24*	0.68	0.56	0.24	11.7	5.8	182	140	971	426	2.27	0.55	173	94.9	1.29	0.95	2.57	1.89	0.02	0.01	0.23	0.2	125	36.8
SW0744A	6	208	129	1.33	0.486	0.98	0.65	0.04	0.022	0.59	0.42	1.89	0.54	5.13	3.6	236	172	2250	829	0.60	0.40	984	331.4	1.35	0.68	1.59	1.24	0.01	0.01	0.2	0.2	186	54.6
SW0744B	12	4180	812	3.33	1.147	2.07	1.06	0.11	0.033	*10.2*	1.83	2.91	0.66	175	25.4	214	154	6200	1207	10.70	1.86	450	167.4	1.8	1.16	8.24	2.59	0.05	0.02	2.2	0.6	150	27.7
SW0749	4	9300	3024	5.77	1.923	14.5	4.77	2.07	0.584	*18.7*	6.34	7.96	3.07	50.9	24.0	412	248	####	7268	25.50	11.29	750	306.9	3.06	1.75	16.3	10.17	0.05	0.03	4.97	1.4	208	83.4
SW0751	5	267	138	2.45	1.007	2.2	1.12	0.03	0.017	*3.36*	1.62	0.36	0.23	7.2	5.4	143	129	259	145	1.06	0.43	18.3	12.5	4.68	2.26	3.58	1.92	0.01	0.01	0.28	0.2	9.1	4.9
SW0757A	2	322	219	0.27	0.244	1.02	0.96	0.04	0.036	0.58	0.58	3.82	2.51	28	20.4	156	132	820	535	1.69	1.12	403	221.0	0.76	0.71	3.94	3.36	0.05	0.04	0.2	0.2	47.6	30.2
SW0758	2	39.8	31	0.1	0.099	0.23	0.22	0.01	0.009	0.16	0.16	0.05	0.05	2.8	2.5	223	210	31.5	29	0.04	0.03	0.7	0.6	0.22	0.19	0.64	0.58	0.01	0.01	0.2	0.2	1.6	1.5
SW0758A	6	566	344	0.77	0.493	1.81	0.96	0.49	0.107	*1.52*	1.27	0.62	0.40	14.9	8.7	533	267	897	561	3.31	1.89	125	78.5	10.6	2.67	3.5	2.03	0.02	0.02	0.4	0.3	50.8	17.0
SW0759	4	266	126	0.48	0.400	2.71	1.59	0.1	0.038	*2*	1.63	0.57	0.34	35.4	12.5	2590	798	380	252	2.25	0.95	100	39.4	4.4	1.84	2.54	1.94	0.20	0.06	4	1.2	20	10.3
SW0764	2	39	34	0.82	0.625	0.59	0.56	0.08	0.072	0.66	0.58	0.09	0.07	22.8	17.6	1350	1220	90	83	0.62	0.41	28.3	20.2	2.72	2.61	10.6	6.48	0.05	0.05	1	1.0	21	20.1
SW0768	5	96.8	45	0.82	0.568	0.87	0.62	0.02	0.012	*1.88*	1.04	0.23	0.16	34.1	18.0	356	294	408	236	0.35	0.28	73.2	52.6	5.44	4.30	1.56	1.24	0.01	0.01	0.46	0.3	31.4	20.1

		Aluminum		Antimony		Arsenic		Cadmium		Chromium		Cobalt		Copper		Hardness ($CaCO_3$)		Iron		Lead		Manganese		Molybdenum		Nickel		Silver		Tin		Zinc	
Water Quality Guidelines*		-	-	-	-	12.5	-	0.12	-	2.5 (Cr (III) +Cr (IV))		-	-	3	2	-	-	-	-	140	2	-	-	-	-	-	-	3	1.5	-	-	55	10
Station	n	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean
SW0769	5	649	178	0.77	0.492	0.66	0.51	0.06	0.018	*7.02*	1.68	0.81	0.23	13.1	5.1	233	157	1230	396	4.24	1.00	221	144.4	6.07	1.91	26.2	5.90	0.02	0.01	0.75	0.3	95.5	27.0
SW0774	2	206	110	1.61	1.178	1.7	1.12	0.05	0.029	0.97	0.68	0.4	0.23	8.06	5.2	384	239	181	95	0.52	0.33	52.5	26.7	1.66	1.46	1.64	0.93	0.01	0.01	0.4	0.3	47.1	25.5
SW0775	5	170	117	2.25	0.973	0.74	0.69	0.25	0.071	*3.68*	1.73	0.67	0.22	56.9	15.7	168	123	310	141	3.46	1.31	48.8	14.2	4.09	2.19	15.3	6.97	0.01	0.01	0.35	0.2	333	82.6
SW0777A	10	283	152	1.22	0.524	1.85	1.06	0.22	0.043	*3.73*	1.01	0.44	0.30	28.9	8.8	197	148	702	378	3.13	0.86	202	75.7	26.9	6.83	2	1.69	0.05	0.02	0.71	0.3	347	49.6
SW0779	5	772	196	3.31	1.086	3.29	1.42	0.03	0.013	*2.59*	1.07	1.5	0.54	9.05	6.0	350	216	1820	639	2.01	0.50	727	178.0	10.9	5.10	3.81	1.85	0.01	0.01	0.21	0.2	24.5	7.6
SW0780	7	773	166	1.01	0.601	3.77	1.53	0.15	0.036	*4.18*	1.13	0.66	0.26	21.9	9.4	231	109	1080	287	2.93	0.77	53.1	23.0	8.22	2.54	1.98	1.14	0.03	0.01	1	0.3	85.3	31.1
SW0781	7	917	239	1.07	0.464	0.94	0.60	0.05	0.021	*2.89*	0.86	0.75	0.23	18.3	8.7	191	91	1460	558	3.14	0.81	85.2	54.2	3.84	1.26	2.35	1.15	0.02	0.01	0.37	0.2	56.4	20.8
SW0805	8	479	178	1.13	0.583	2.35	1.09	0.07	0.028	*5.94*	1.52	0.44	0.26	30.5	11.0	201	139	489	251	1.31	0.52	45.9	23.5	14.1	6.77	24.7	4.40	0.03	0.01	0.31	0.2	26	12.3
SW0806	8	287	170	0.81	0.381	1.47	0.81	0.06	0.029	0.75	0.49	0.53	0.25	28.2	7.7	199	125	425	293	0.64	0.30	319	125.6	1.12	0.68	3.92	1.61	0.01	0.01	0.26	0.2	63.6	17.1
SW0810	3	457	277	2	0.966	1.59	0.93	0.13	0.074	*1.6*	0.88	0.52	0.34	31.7	13.6	123	115	582	325	7.76	3.02	30.9	22.1	2.89	1.60	2.34	1.39	0.09	0.04	0.26	0.2	37.4	18.6
SW0812	4	324	208	0.87	0.512	1.25	0.80	0.06	0.033	*11.3*	3.38	0.68	0.40	11.4	6.9	259	186	381	225	1.24	0.71	70.2	27.9	22.8	9.89	45.7	12.57	0.01	0.01	0.2	0.2	29.7	20.5
SW0814	4	403	276	1.58	0.942	1.65	1.12	0.04	0.028	*6.32*	3.44	0.65	0.46	14.5	9.6	153	130	280	215	0.97	0.64	23.8	14.4	10.2	6.16	1.94	1.35	0.01	0.01	0.2	0.2	12.5	8.0
SW0854	4	141	81	1.07	0.484	2.46	1.16	0.03	0.015	0.87	0.53	0.23	0.15	8.67	5.8	240	172	272	236	0.27	0.21	98.9	82.7	6.33	4.01	2.14	1.09	0.01	0.01	0.2	0.2	8.4	6.6
SW0865D	2	412	214	0.07	0.072	1.64	1.27	0.06	0.035	0.92	0.62	2.15	1.48	1.88	1.2	389	367	####	6150	1.27	0.72	3380	####	0.8	0.71	2.68	2.19	0.01	0.01	0.2	0.2	5	3.4
SW0865F	2	922	508	0.4	0.335	2.15	1.98	0.16	0.094	*1.88*	1.23	2.37	1.30	48.2	26.8	243	204	1320	805	2.44	1.33	68.7	40.5	2.56	1.74	9.33	5.42	0.02	0.01	0.22	0.2	37.8	21.1
SW0865G	3	730	528	0.67	0.518	1.08	0.82	0.09	0.049	*1.51*	1.26	0.58	0.42	22.6	15.1	506	333	1290	910	1.84	0.96	114	88.2	1.67	1.25	1.62	1.37	0.02	0.02	0.4	0.3	53.5	36.4
SW0866	2	128	75	0.11	0.108	0.48	0.34	0.01	0.007	0.36	0.35	0.54	0.30	3.76	3.0	234	203	559	324	0.24	0.21	385	200.5	2.64	1.63	1.94	1.30	0.01	0.01	0.2	0.2	16.5	9.4
SW0875	2	178	101	0.16	0.125	0.91	0.58	0.02	0.014	0.38	0.24	0.39	0.24	2.61	2.1	165	148	429	232	0.36	0.22	80	44.5	0.52	0.36	1.19	0.79	0.01	0.01	0.2	0.2	4.6	3.8
SW0879	2	506	292	0.1	0.085	0.49	0.41	0.02	0.010	0.92	0.55	0.25	0.18	2.62	2.0	98.1	98	829	534	0.72	0.38	81.7	63.9	0.46	0.38	1.04	0.83	0.01	0.01	0.2	0.2	5.3	3.6
SW0886	24	336	40	0.31	0.114	0.35	0.22	0.56	0.031	*130*	5.71	0.35	0.10	3.88	1.9	230	149	545	104	0.43	0.05	53.3	16.1	134	6.17	559	23.78	0.01	0.01	0.2	0.2	89.6	5.8
SW0902	3	576	306	0.15	0.129	0.78	0.54	0.01	0.007	0.91	0.54	0.39	0.24	2.8	2.4	225	179	1160	673	0.53	0.32	309	196.5	0.85	0.75	1.32	1.04	0.01	0.01	0.2	0.2	8.1	5.7
SW0915	3	282	134	0.08	0.068	0.24	0.19	0.01	0.005	0.69	0.37	0.26	0.15	2.7	1.7	145	132	530	265	0.22	0.12	63.6	30.5	0.18	0.15	0.79	0.47	0.01	0.01	0.2	0.2	4.9	3.2
SW0916	4	131	58	0.09	0.062	0.41	0.29	0.01	0.006	1.35	0.59	0.24	0.12	1.39	1.1	97.6	86	842	462	0.47	0.19	289	122.7	1.38	0.46	4.91	1.50	0.01	0.01	0.2	0.2	6.1	3.6
SW0921	4	111	52	0.05	0.028	0.43	0.27	0.01	0.007	0.67	0.49	0.16	0.09	1.06	0.8	106	101	1120	440	0.22	0.12	81.4	35.0	0.1	0.09	0.47	0.38	0.01	0.01	0.2	0.2	1.6	1.5
SW0922	3	14.1	8	0.03	0.022	0.43	0.25	0.01	0.006	0.28	0.28	0.05	0.04	0.52	0.5	114	111	117	67	0.07	0.04	58.7	20.2	0.16	0.12	0.3	0.25	0.01	0.01	0.2	0.2	1	1.0
SW0926	23	131	42	0.03	0.020	0.36	0.30	0.1	0.010	*16.7*	1.03	0.17	0.11	0.73	0.5	129	121	247	102	0.16	0.06	55.1	22.0	17	0.83	69.3	3.53	0.01	0.01	0.2	0.2	1.3	0.7
SW0927	4	227	144	0.06	0.048	1.76	1.38	0.02	0.010	0.78	0.49	0.2	0.14	1.61	1.3	101	96	1030	693	0.40	0.24	109	83.9	0.62	0.54	0.58	0.46	0.01	0.01	0.2	0.2	4.1	3.1
SW0928	23	47.8	19	0.06	0.033	0.31	0.19	0.78	0.039	*3.96*	0.51	0.09	0.05	1.58	0.9	135	122	98.5	45	0.09	0.03	11.4	6.6	4.26	0.29	15.5	1.07	0.01	0.01	0.4	0.2	5	1.2
SW0929	7	5280	1260	0.19	0.066	2.33	0.75	0.13	0.046	*13.2*	3.27	4.47	1.10	35.2	9.5	154	141	6790	1592	3.92	1.02	554	149.1	0.32	0.12	13.6	3.47	0.05	0.02	0.24	0.2	63.8	20.8
SW0931	2	134	97	0.03	0.024	0.24	0.22	0.02	0.011	0.61	0.54	0.15	0.10	1.85	1.3	131	128	218	147	0.43	0.29	35.5	19.2	0.07	0.07	0.75	0.58	0.01	0.01	0.2	0.2	9.4	5.3
SW0932	5	23.9	11	0.02	0.020	0.16	0.15	0.03	0.010	0.77	0.47	0.04	0.03	0.63	0.5	124	122	33.1	16	0.17	0.05	0.8	0.3	0.06	0.05	0.33	0.31	0.01	0.01	0.2	0.2	1	1.0
SW0933	5	82.5	41	0.06	0.038	0.24	0.20	0.02	0.010	0.67	0.49	0.08	0.05	1.42	1.0	136	127	118	60	0.17	0.10	9.55	4.5	0.11	0.09	0.52	0.34	0.01	0.01	0.2	0.2	6.4	2.5
SW0935A	3	21.2	17	0.03	0.027	0.19	0.17	0.01	0.005	0.37	0.36	0.04	0.04	14.3	5.2	122	114	81.4	48	0.15	0.09	2.09	1.5	0.05	0.05	1.83	0.86	0.01	0.01	0.2	0.2	8.3	5.3
SW0937	2	88.5	46	0.02	0.020	0.17	0.16	0.01	0.007	0.48	0.42	0.09	0.06	1.06	0.8	107	107	114	60	0.20	0.11	6.21	3.4	0.05	0.05	0.65	0.52	0.01	0.01	0.2	0.2	6.2	5.6
SW0939	2	61.4	55	0.02	0.022	0.22	0.21	0.01	0.011	0.52	0.49	0.12	0.10	1.08	0.9	152	150	113	112	0.54	0.41	15.9	11.2	0.05	0.05	0.4	0.35	0.01	0.01	0.2	0.2	4.2	2.8

Notes

Concentrations are averages collected between 2023 and 2025.

Concentrations are in total state.

*BC working and approved water quality guidelines for protection of marine aquatic life were applied (acute and chronic)

Although aquatic life guidelines do not apply to stormdrains, these comparisons indicate potential impacts to the marine environment.

The chromium working guidelines are for Cr (VI) and Cr (VII) and not fully applicable.

xx — value exceeds the provincial guideline for protection of marine aquatic life

xx — Italicized value exceeds a guideline which is only partially applicable. Further investigation is needed.

**source found, subsequent samples are low, monitoring will continue.

Table 6 Average Concentration of Polycyclic Aromatic Hydrocarbons (µg/L)

Station			1 Methylnaphthalene		2 Methylnaphthalene		Acenaphthene		Acenaphthylene		Acridine		Anthracene		Benzo(K)Fluoranthene		Benzo[a]anthracene		Benzo[a]pyrene		Benzo[ghi]perylene		Chrysene		dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3 C,D)Pyrene		Naphthalene		Phenanthrene		Pyrene		Quinoline		HPAH		LPAH
BC Guidelines for Aquatic Life		Freshwater		1				6				3		4				0.1		0.01				0.1				4		12				1		0.3		0.02					
		Marine																		0.01										12				1									
SW0216	Ross Bay	2023-04-13	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02		0.041	<	0.05	<	0.1
SW0227	Wildwood	2025-03-03	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-03-04	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-03-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-03-11	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-03-17	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-07-25	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0245	McNeill Bay	2024-07-29	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02		0.037	<	0.05	<	0.1
SW0250	McNeill Bay	2024-05-08	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05		0.043		0.058	<	0.05		0.056		0.0092		0.1	<	0.05	<	0.05	<	0.1	<	0.05		0.11	<	0.02		0.42	<	0.1
		2025-03-04	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0306	Oak Bay	2023-04-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-05-08	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0307	Oak Bay	2023-02-23	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-05-08	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01		0.0089	<	0.05	<	0.02	<	0.003		0.05	<	0.05	<	0.05	<	0.1		0.065		0.035	<	0.02		0.093	<	0.1
		2024-09-18	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01		0.0057	<	0.05	<	0.02	<	0.003		0.044	<	0.05	<	0.05	<	0.1		0.065		0.028		0.022		0.077	<	0.1
		2025-01-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0310	Oak Bay	2023-02-23	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-05-08	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-09-18	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0316	Bowker Creek	2025-04-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0316-1D	Bowker Creek	2025-07-17	<	0.05	<	0.1	<	0.05		0.064	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05		0.075	<	0.003		0.11	<	0.05	<	0.05	<	0.1	<	0.05		0.63	<	0.02		0.81	<	0.1
SW0316-3AA*	Bowker Creek	2025-07-10		160		280		63		9.4		19	<	0.05	<	0.25		1.3		0.49		0.77		14		0.12		6.7		89	<	0.25		21		260		230	<	15		260		900
SW0320	Willows Beach	2023-02-23	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0503	Hobbs Creek	2024-05-14	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0505	Cadboro Bay	2024-05-14	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-10-29	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-02-05	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-07-28	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0559	Mt. Doug Creek	2023-02-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0603	Outer Harbour	2023-03-22	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.13	<	0.05	<	0.05	<	0.1		0.054	<	0.02	<	0.02		0.13	<	0.1
		2024-04-26	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1

Table 6 Continued

Station			1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Acridine		Anthracene		Benzo(K)Fluoranthene		Benzo[a]anthracene		Benzo[a]pyrene		Benzo[ghi]perylene		Chrysene		dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-C,D)Pyrene		Naphthalene		Phenanthrene		Pyrene		Quinoline		HPAH		LPAH
BC Guidelines for Aquatic Life		Freshwater									3		4				0.1		0.01								4		12				1		0.3		0.02						
		Marine		1				6											0.01				0.1						12				1										
SW0613	Inner Harbour	2024-04-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02		0.057	<	0.05	<	0.1
SW0614	Inner Harbour	2024-04-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0620	Inner Harbour	2023-07-04	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-04-26	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.015	<	0.05		0.013		0.023	<	0.05		0.043	<	0.003		0.14	<	0.05	<	0.05	<	0.1		0.18		0.12	<	0.02		0.34		0.19
		2025-04-01	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-10-03	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.062	<	0.05	<	0.05	<	0.1		0.074		0.037		0.053		0.1		0.13
SW0626	Rock Bay	2024-04-26	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05		0.021		0.043	<	0.05	<	0.1
		2024-08-19	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02		0.039	<	0.05	<	0.1
SW0627	Rock Bay	2024-04-26	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02		0.04	<	0.05	<	0.1
		2024-08-19	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05		0.01		0.0094	<	0.05	<	0.02	<	0.003		0.042	<	0.05	<	0.05	<	0.1		0.086		0.035		0.045		0.096		0.13
SW0629	Rock Bay	2024-04-26	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.025	<	0.05		0.048		0.035	<	0.05		0.077		0.0051		0.17	<	0.05	<	0.05	<	0.1		0.19		0.15		0.067		0.52		0.29
		2024-10-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.036	<	0.05	<	0.05	<	0.1		0.053		0.047		0.051		0.083		0.1
		2025-03-07	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.056	<	0.05	<	0.05	<	0.1		0.097		0.06	<	0.02		0.12	<	0.1
		2025-03-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.048	<	0.05	<	0.05	<	0.1		0.078		0.058	<	0.02		0.11	<	0.1
		2025-03-11	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.038	<	0.05	<	0.05	<	0.1		0.054		0.05	<	0.39		0.087	<	0.39
		2025-03-12	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.01	<	0.05		0.039		0.051		0.075		0.099	<	0.003		0.16	<	0.05	<	0.05	<	0.1		0.14		0.22	<	0.043		0.7		0.15
SW0629-7**	Rock Bay	2025-05-23		3.2		5.2		0.43	<	0.05	<	0.05		0.064	<	0.05		0.031		0.011	<	0.05		0.34	<	0.003		0.65		0.93	<	0.05		4.3		3.9		4.6	<	1		5.7		18
SW0629-8**	Rock Bay	2024-05-23		51		100		7.2		2.6		7.8		0.53	<	0.05		0.15		0.039		0.086		2.1		0.0057		6.2		22	<	0.05		31		29		39	<	0.6		48		250
SW0633	Upper Harbour	2024-04-26	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.012	<	0.05		0.032		0.039	<	0.05		0.076		0.0084		0.12	<	0.05	<	0.05	<	0.1		0.091		0.13		0.032		0.44		0.14
SW0634	Upper Harbour	2024-04-26	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.019	<	0.05		0.055		0.029	<	0.05		0.14		0.0077		0.29	<	0.05	<	0.05	<	0.1		0.27		0.18		0.037		0.8		0.32
		2024-09-12	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.061		0.057		0.15		0.073		0.068		0.31		0.018		0.66		0.083		0.065	<	0.1		0.56		0.45		0.1		2.1		0.8
		2025-10-03	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.03	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.035		0.064	<	0.05	<	0.1		0.13		0.039		0.064		0.074		0.29
SW0636	South Bay	2024-04-26	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05		0.027		0.031	<	0.05		0.069	<	0.003		0.11	<	0.05	<	0.05	<	0.1		0.083		0.14	<	0.02		0.4	<	0.1
		2024-09-12	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.019	<	0.05		0.017		0.01	<	0.05		0.046	<	0.003		0.093	<	0.05	<	0.05	<	0.1		0.21		0.1		0.046		0.27		0.28
SW0641	Cecelia Creek	2025-09-08	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0645	Selkirk Water	2023-04-21	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0669	Gorge	2024-09-05	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0671	Gorge	2025-04-30	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-09-09	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-10-29	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0679	Gorge	2024-05-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0687	Gorge	2023-04-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1

Table 6 Continued

Station		1 Methylnaphthalene		2 Methylnaphthalene		Acenaphthene		Acenaphthylene		Acridine		Anthracene		Benzo(K)Fluoranthene		Benzo[a]anthracene		Benzo[a]pyrene		Benzo[ghi]perylene		Chrysene		dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3 C,D)Pyrene		Naphthalene		Phenanthrene		Pyrene		Quinoline		HPAH		LPAH
BC Guidelines for Aquatic Life	**Freshwater**									3		4				0.1		0.01								4		12				1		0.3		0.02					
	Marine	1				6												0.01				0.1						12				1									
		2024-05-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02		0.072	<	0.05	<	0.1
		2024-09-09	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0722	Gorge	2023-04-03	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02		0.026	<	0.05	<	0.1
SW0726	Pallard Cove	2023-04-05	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01		0.0083	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0737	Gorge	2023-04-03	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01		0.0051	<	0.05		0.025	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-04-25	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-01-17	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0749	Gorge	2023-03-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0757A	Gorge	2025-04-09	<	0.05	<	0.1	<	0.05	<	0.05		1.1	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05		1.1
		2025-04-28	<	0.05	<	0.1	<	0.05	<	0.05		1.5	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.023	<	0.05	<	0.05	<	0.1		0.086		0.047		0.089		0.07		1.7
SW0780	West Bay	2023-03-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.015	<	0.05		0.082		0.1		0.08		0.088		0.018		0.13	<	0.05		0.054	<	0.1		0.057		0.14		0.035		0.81		0.11
		2024-04-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-07-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-09-09	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.023	<	0.05	<	0.05	<	0.1		0.074	<	0.02		0.034	<	0.05		0.11
SW0781	West Bay	2023-03-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.021		0.055		0.083		0.15		0.1		0.11		0.032		0.2	<	0.05		0.075	<	0.1		0.072		0.24	<	0.02		1.2	<	0.1
		2024-04-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.028	<	0.05	<	0.05	<	0.1	<	0.05		0.021		0.022	<	0.05	<	0.1
		2024-07-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.037	<	0.05	<	0.05	<	0.1		0.12	<	0.02	<	0.02	<	0.05		0.12
		2025-07-30	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05		0.017	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.047	<	0.05	<	0.05	<	0.1		0.21	<	0.02	<	0.02	<	0.05		0.22
		2024-09-09	<	0.05	<	0.1		0.066	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003		0.045		0.063	<	0.05	<	0.1		0.051		0.022		0.026		0.067		0.2
SW0805	Fleming Bay	2023-03-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0806	Fleming Bay	2023-03-10	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-04-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-07-24	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2024-09-18	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0854	Lang Cove	2023-03-23	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0927	Miller Brook	2023-04-14	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0929	Esq. Lagoon	2025-10-09	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
		2025-11-18	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1
SW0934	Royal Bay	2023-03-28	<	0.05	<	0.1	<	0.05	<	0.05	<	0.05	<	0.01	<	0.05	<	0.01	<	0.005	<	0.05	<	0.02	<	0.003	<	0.02	<	0.05	<	0.05	<	0.1	<	0.05	<	0.02	<	0.02	<	0.05	<	0.1

Notes
Values are in µg/L.
PAHs are polycyclic aromatic hydrocarbons.
HPAH is high molecular weight PAHs; LPAH is low molecular weight PAHs
BC ENV guidelines are for protection of marine or freshwater aquatic life as specified
*these samples were taken during an oil spill event.
**downstream of Hillside Automotive.
XX indicates an exceedance of a guideline.

APPENDIX F

WATERCOURSE MONITORING DATA

Table 1 Summary Table for 5 in 30 Water Quality Data Collected for Douglas Creek

		Aluminum		Antimony		Arsenic		Barium		Boron		Cadmium		Chromium		Cobalt		Conductivity	Copper	
	State	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	NA	DIS	TOT
	Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µS/cm	µg/L	µg/L
BC FW AL Guidelines*	acute /instantaneous	-	-	-	74	-	5	-	-	-	-	0.95-1.1 [2]	-	-	1 / 8.9 [1,3]	0.4- 0.6	-	-	3.4 - 54 [4]	-
	chronic /average	-	120-550 [2]	-	250	-	-	-	1,000 [1]	-	1,200 [1]	0.06-0.3	-	-	-	-	-	-	0.5 - 9.1 [4]	-
Mouth of Douglas Creek (SW0559)																				
Summer	13/08/2025	7.69	44.6	0.204	0.195	0.814	0.858	9.69	10	25	27	<0.005	0.005	0.16	0.22	0.0499	0.065		3.17	3.55
	20/08/2025	9.48	55.9	0.278	0.267	0.911	0.783	10.4	10.1	24	24	0.0051	0.005	0.2	0.44	0.0586	0.078	303.5	3.44	3.36
	26/08/2025		47.4		0.254		0.892		10.4		28		0.006		0.2		0.084	291.5		3.52
	27/08/2025	7.67	57.9	0.224	0.228	0.852	0.884	8.95	9.49	23	26	<0.005	0.0077	0.16	0.25	0.0474	0.085	286.7	2.92	3.26
	03/09/2025	7.29	43.2	0.222	0.187	0.829	0.771	9.07	8.15	24	24	<0.005	0.006	0.14	0.18	0.0604	0.068	278.6	2.93	2.94
	10/09/2025	6.39	62.7	0.208	0.207	0.848	0.898	7.72	8.14	25	21	<0.005	0.005	0.14	0.22	0.0411	0.072	249.4	2.16	2.45
Summer Mean		**7.70**	**51.95**	**0.227**	**0.223**	**0.851**	**0.848**	**9.17**	**9.4**	**24.2**	**25**	**0.005**	**0.0058**	**0.16**	**0.25**	**0.0515**	**0.075**	**281.9**	**2.92**	**3.18**
Fall	24/10/2025	24	311	0.321	0.413	0.462	0.575	3.41	6	<10	12	<0.005	0.0147	0.41	0.94	0.0173	0.258	53.5	3.78	6.47
	31/10/2025	6.74	17.9	0.306	0.308	0.78	0.777	12.9	12.4	28	25	<0.005	0.005	0.18	0.25	0.064	0.072	350.9	2.56	2.81
	05/11/2025	7.59	31.2	0.304	0.287	0.703	0.691	11.7	11.4	25	27	<0.005	0.0062	0.31	0.36	0.0712	0.078	315.7	2.96	3.02
	13/11/2025	8.65	68.6	0.355	0.374	0.738	0.785	12.7	13.6	32	28	0.0073	0.0083	0.22	0.42	0.0797	0.12	281.3	3.04	3.64
	20/11/2025	8.21	45.7	0.264	0.243	0.615	0.598	12.6	11.5	28	28	<0.005	0.0059	0.22	0.21	0.0721	0.084	377.5	2.56	2.39
Fall Mean		**11**	**95**	**0.31**	**0.325**	**0.66**	**0.685**	**10.7**	**11**	**24.6**	**24**	**0.005**	**0.00802**	**0.268**	**0.44**	**0.061**	**0.12**	**275.8**	**2.98**	**3.666**
Douglas Creek at Robinwood Dr (SW0559-2)																				
Summer	13/08/2025	9.94	438	0.344	0.442	1.7	3.18	15	43.6	42	46	0.0105	0.184	0.34	*1.13*	0.0772	0.484		4.02	30.4
	20/08/2025	10.3	182	0.218	0.272	1.2	1.51	10.1	11.8	24	26	0.0062	0.017	0.2	0.56	0.0535	0.204	316	2.3	4.8
	27/08/2025	6.99	51.1	0.231	0.264	0.92	1	10.5	11.7	26	30	0.0074	0.0149	0.18	0.32	0.0438	0.095	313.1	3.13	4.22
	03/09/2025++	12.4	424	0.301	0.353	0.898	0.979	8.97	10.4	24	24	0.0106	0.022	0.17	*1.02*	0.106	0.691	381.4	3.03	6.47
	10/09/2025	9.55	66.4	0.302	0.292	1.72	1.78	11.3	11.9	35	32	0.0074	0.0071	0.19	0.33	0.0588	0.107	340.2	3.11	4.34
Summer Mean		**9.8**	**232**	**0.279**	**0.325**	**1.29**	**1.69**	**11**	**18**	**30**	**32**	**0.0084**	**0.049**	**0.216**	**0.67**	**0.068**	**0.316**	**337.7**	**3.12**	**10.0**
Fall	24/10/2025	23.4	206	0.356	0.437	0.52	0.622	4.21	6.33	<10	13	0.0055	0.0137	0.48	0.84	0.0237	0.187	63.1	4.41	6.7
	31/10/2025	7.44	29.6	0.388	0.376	1.33	1.4	15.8	15.6	41	38	0.0137	0.0146	0.22	0.32	0.0894	0.107	481.5	3.01	3.65
	05/11/2025	6.7	26.8	0.284	0.288	0.754	0.832	12	11.9	26	28	0.0122	0.0127	0.26	0.52	0.0747	0.088	341.5	3.31	3.55
	13/11/2025	22.3	437	0.752	0.845	0.753	0.882	9.03	12	25	20	0.012	0.0269	0.25	*1.1*	0.0967	0.408	225.5	7.25	13
	20/11/2025++	9.47	2810	0.232	0.359	0.577	1.25	10.3	25.2	24	25	0.0052	0.0403	0.14	*4.45*	0.0907	1.99	120.4	2.22	11.4
Fall Mean		**13.9**	**702**	**0.40**	**0.461**	**0.79**	**1.0**	**10.3**	**14**	**25**	**24.8**	**0.0097**	**0.0216**	**0.27**	***1.4***	**0.075**	**0.56**	**246.4**	**4.04**	**7.66**

Table 1 Summary Table for 5 in 30 Water Quality Data Collected for Douglas Creek, Continued

		Oxygen	E. Coli	Flow Rate	Hardness (CaCO3)	Iron		Lead		Magnesium		Manganese		No2- (N)	No3- (N)
	State	DIS	NA	NA	DIS	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	DIS
	Unit	mg/L	CFU/100 mL	L/min	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L
BC FW AL Guidelines*	acute /instantaneous	5 [5]	400 [6]	-	-	350	1,000	-	-	-	-	758-5848 [2]	-	0.24	32.8
	chronic /average	8 [5]	200 [6]	-	-	-	-	3.2-11.1 [2]	-	-	-	295-350 [2]	-	0.08	3
Mouth of Douglas Creek (SW0559)															
Summer	13/08/2025		18	300	101	13.5	65.6	0.0114	0.062	7.75	7.67	7.2	10.4	<0.002	0.599
	20/08/2025	8.09	15	300	108	14.4	73.1	0.0134	0.07	7.91	7.28	5.17	8.41	<0.002	0.755
	26/08/2025	10.3	18	100			73.5		0.077		8.25		8.15		0.7
	27/08/2025	9.78	19	300	100	11.9	82.2	0.0086	0.067	7.67	7.57	3.78	9.32	<0.002	0.652
	03/09/2025	9.31	12	141	99.6	13.2	61.8	0.0106	0.047	7.75	6.81	6.93	8.69	<0.002	0.644
	10/09/2025	10.27	31	250	89.4	12	85.9	0.0105	0.0553	6.58	6.33	3.52	8.93	0.0028	0.512
Summer Mean		**9.55**	**18**	**232**	**99.6**	**13**	**73.7**	**0.0109**	**0.063**	**7.53**	**7.32**	**5.3**	**9.0**	**0.0022**	**0.6**
Fall	24/10/2025	10.2	3000	500	17.1	29.2	366	0.134	0.733	0.894	1.05	0.646	22.3	0.0034	0.129
	31/10/2025	10.51		90	124	11.6	41.2	0.0111	0.044	9.27	8.4	0.457	4.72	0.0195	1.4
	05/11/2025	10.18	17	150	117	23.1	67.9	0.0256	0.056	8.33	8.23	2.7	3.98	0.0243	1.56
	13/11/2025	11.09	49	600	139	19.6	134	0.0247	0.135	10.3	10.3	3.5	8.84	0.0317	1.57
	20/11/2025	10.67	26	400	137	34.8	87.7	0.0236	0.074	10.2	9.36	2.53	4.51	0.0307	1.67
Fall Mean		**10.53**	**90**	**348**	**107**	**23.7**	**139**	**0.0438**	**0.21**	**7.8**	**7.5**	**2.0**	**8.87**	**0.02192**	**1.3**
Douglas Creek at Robinwood Dr (SW0559-2)															
Summer	13/08/2025		210	250	184	18.3	1780	0.0226	9.74	14.8	14.1	3.33	204	<0.002	0.674
	20/08/2025	8.68	32	300	111	35.6	423	0.0202	0.626	8.03	8.39	8.02	60.8	0.0272	0.585
	27/08/2025	8.52	51	300	109	20.7	149	0.0158	0.202	8.24	8.9	1.62	16.3	0.002	0.847
	03/09/2025++	6.51	3900	200	88	29.3	1010	0.0426	1.12	6.83	6.04	16.9	64.4	0.0223	0.36
	10/09/2025	6.88	28	100	125	23.1	120	0.0209	0.169	9.53	9.04	4.69	15.5	0.0035	0.556
Summer Mean		**7.6**	**130**	**230**	**123**	**25.4**	**696**	**0.024**	**2.37**	**9.5**	**9.3**	**6.91**	**72.2**	**0.011**	**0.604**
Fall	24/10/2025	9.46	3000	500	22.4	27.3	234	0.139	0.626	1.11	1.25	1.09	17.3	0.0045	0.177
	31/10/2025	9.58		90	179	24.9	117	0.0116	0.089	13.5	12	6.72	14.6	0.008	1.73
	05/11/2025	9.31	36	150	124	39.3	113	0.0183	0.046	9.31	9.27	18.7	20.1	0.0233	1.59
	13/11/2025	9.14	330	600	79.5	68.9	665	0.135	1.52	5.64	5.79	17.3	52.8	0.0118	0.915
	20/11/2025++	10.43	2300	150	106	37.2	3410	0.0378	3.4	7.71	8.26	5.96	121	0.0152	1.53
Fall Mean		**9.58**	**535**	**298**	**102**	**39.5**	**908**	**0.0683**	**1.136**	**7.45**	**7**	**10.0**	**45.2**	**0.0126**	**1.19**

Table 1 Summary Table for 5 in 30 Water Quality Data Collected for Bowker Creek, Bee Creek and Selleck Creek, Continued

		Nickel		O. Carbon	pH	Phosphorus	Selenium		Silver		Temperature	Solids	Turbidity	Zinc		6PPD-Q
	State	DIS	TOT	DIS	NA	TOT	DIS	TOT	DIS	TOT	NA	TOT	NA	DIS	TOT	TOT
	Unit	µg/L	µg/L	mg/L	pH	mg/L	µg/L	µg/L	µg/L	µg/L	°C	mg/L	NTU	µg/L	µg/L	ng/L
BC FW AL Guidelines*	acute /instantaneous	1.5 -15 [1,2]	-	-	6.5-9 [9]	0.01 [7]	-	-	-	-	-	27 [10]	9 [11]	14-96 [2]	-	10
	chronic /average	-	-	-	-	0.005 [7]	-	2	-	0.12	17 [9]	7 [10]	3 [11]	4.4-35.7 [2]	-	-
Mouth of Douglas Creek (SW0559)																
Summer	13/08/2025	0.698	0.78	4.1		0.061	0.067	0.08	<0.005	<0.01		2.8	2.14	3.33	4.8	
	20/08/2025	0.695	0.71	25	7.45	0.05	0.066	0.055	<0.005	<0.01	14.9	1	2.34	4.08	5.1	
	26/08/2025		0.81		7.84			0.07		<0.01	15.9		1.87		4.9	
	27/08/2025	0.634	0.73	3.7	7.87	0.063	0.062	0.075	<0.005	<0.01	15.2	2	3.41	2.93	4.2	
	03/09/2025	0.675	0.69	3.4	7.75	0.062	0.07	0.066	<0.005	<0.01	15.2	1.6	2.28	3.28	3.7	
	10/09/2025	0.463	0.599	2.9	7.78	0.058	0.056	0.069	<0.005	0.005	14.3	1	1.91	2.25	3.57	
Summer Mean		**0.633**	**0.72**	**7.82**	**7.74**	**0.06**	**0.064**	**0.07**	**0.005**	**0.01**	**15.1**	**1.7**	**2.33**	**3.17**	**4.4**	
Fall	24/10/2025	0.403	0.9	4.6	7.05		<0.04	0.04	<0.005	<0.01	12.9	9.2	17.6	11.3	21.8	43.7
	31/10/2025	0.724	0.65	3.3	7.89		0.07	0.067	<0.005	<0.01	10.4	1	6.4	6.36	7.3	6.4
	05/11/2025	0.753	0.75	3.8	7.84		0.111	0.122	<0.005	<0.01	11.7	1	1.85	5.8	7	2.3
	13/11/2025	0.801	0.91	4.8	7.09		0.122	0.103	<0.005	<0.01	11.1	2.8	4.13	6.54	9.7	<8
	20/11/2025	0.743	0.74	3	7.94		0.127	0.112	<0.005	<0.01	10.3	2	3.17	8.18	9.4	
Fall Mean		**0.685**	**0.79**	**3.9**	**7.56**		**0.094**	**0.09**	**0.005**	**0.01**	**11.3**	**3.2**	**6.6**	**7.6**	**11**	**15.1**
Douglas Creek at Robinwood Dr (SW0559-2)																
Summer	13/08/2025	1.1	2.67	4.6		0.2	0.131	0.164	<0.005	0.012		18	7.51	19.2	296	
	20/08/2025	0.67	0.91	25	7.7	0.056	0.106	0.11	<0.005	<0.01	16.9	6.8	6.12	11.2	24.5	
	27/08/2025	0.699	0.84	3.5	7.41	0.028	0.095	0.113	<0.005	<0.01	17.4	1	1.77	23.7	30.9	
	03/09/2025++	0.697	1.67	3.6	7.71	0.062	0.072	0.095	<0.005	0.024	16.9	17	19.1	6.87	20.2	
	10/09/2025	0.732	0.86	3.9	7.68	0.087	0.119	0.136	<0.005	0.005	17	1.2	2.3	17	22	
Summer Mean		**0.8**	**1.39**	**8.12**	**7.63**	**0.1**	**0.105**	**0.12**	**0.005**	**0.012**	**17**	**9**	**7.4**	**16**	**79**	
Fall	24/10/2025	0.437	0.8	5.1	6.96		0.042	0.048	<0.005	<0.01	13.5	7.2	15.7	18.8	29.1	48.8
	31/10/2025	0.988	0.88	3.4	8.06		0.203	0.199	<0.005	<0.01	14.1	1	9.59	25.5	29.6	5.2
	05/11/2025	0.791	1.03	3.5	7.81		0.209	0.191	<0.005	<0.01	13.7	1	4.31	16.3	19.5	<8
	13/11/2025	0.853	1.43	8.6	7.56		0.092	0.109	<0.005	0.013	13.5	17	2.26	13.9	32.6	23
	20/11/2025++	0.756	4.69	2.8	7.68		0.168	0.197	<0.005	0.028	12.1	67	496	4.78	38.1	
Fall Mean		**0.765**	**1.77**	**4.68**	**7.61**		**0.143**	**0.149**	**0.005**	**0.014**	**13.4**	**19**	**106**	**15.9**	**29.8**	**19.3**

Table notes next page.

Notes
Where values were not detected, the detection limit was used to calculate statistics.
*ENV approved water quality guidelines for protection of freshwater aquatic life applied unless otherwise stated
DIS = dissolved state, TOT = total state
If more than one of the five samples exceeded the chronic guideline, the station has exceeded.
Flow is a visual estimate.
** flow is from the smaller upper spillway (B) on this day, which was dry in other summer visits and minimal flow in fall except during surge flow in fall week 5
[1] BC ENV working water quality guideline
[2] water quality-dependant guideline
[3] Cr(IV) / Cr (III)
[4] sample specific BC Biotic Ligand Model guidelines; if > 1 of 5 samples or average of the 5 samples exceed chronic guideline, station has exceeded.
[5] guidelines are minimum values for dissolved oxygen
[6] guideline for protection of recreational contact; E.coli values in the "Average" row are geomeans
[7] draft Vancouver Island Objective, applies to monthly samples collected June to September; compared to data collected 5 times in 30 days (August to September)
[8] optimum pH range
[9] draft objective proposed to protect juvenile Coho (the most sensitive species); average weekly temperature at any location in the creeks
[10] 25 and 5 mg/L over ambient levels of 2 mg/L in the upper Sooke River watersheds
[11] max: 9 NTU (8 NTU above ambient levels in the upper Sooke River watershed) any time during clear flow periods, average 3 NTU (2 NTU above ambient) levels during clear flow periods

xx	value exceeds the provincial guideline protective for aquatic life
xx	italicized value exceeds a guideline/objective which is only partially applicable. Further investigation is needed.

Table 2 Summary Table for 5 in 30 Water Quality Data Collected for Goldstream River

			Aluminum		Antimony		Arsenic		Barium		Boron		Cadmium		Calcium	
			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		mg/L	
			DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
BC	**Guidelines**	**acute /instantaneous**	-	-	-	74	-	5	-	-	-	1200	0.08-0.95 [2]	-	-	-
Station		**chronic /average**	-	40-470	-	250	-	-	-	1000 [1]	-	-	0.05-0.3	-	-	-
SW6003	**Goldstream River discharge to marine (below Finlayson Road)**															
	Summer	13/08/2025	3.22	7.1	0.02	0.02	0.221	0.222	3.42	3.61	10	10	0.005	0.005	11.6	12.5
		20/08/2025	3.51	6.7	0.02	0.044	0.214	0.191	3.5	3.26	10	10	0.005	0.005	12.7	11.8
		27/08/2025	4.01	12.3	0.02	0.02	0.215	0.259	3.22	3.53	10	10	0.005	0.005	11.4	12.3
		03/09/2025	3.57	7.3	0.024	0.02	0.219	0.211	3.51	3.23	10	10	0.005	0.005	12.1	11.4
		10/09/2025	3.09	6.66	0.02	0.024	0.206	0.214	3.4	3.41	10	10	0.005	0.005	12.5	12.1
	Summer mean		3.48	8.0	0.02	0.03	0.215	0.219	3.4	3.41	10	10	0.005	0.005	12.1	12.0
	Fall	24/10/2025	3.99	13.3	0.021	0.02	0.147	0.145	3.15	2.96	10	10	0.005	0.005	8.63	7.81
		31/10/2025	4.35	7.5	0.02	0.036	0.134	0.159	3.11	3.13	10	10	0.005	0.005	9.06	8.78
		05/11/2025	17.1	28	0.02	0.02	0.146	0.143	2.87	3.02	10	10	0.005	0.005	6.51	6.71
		13/11/2025	18.8	29.9	0.02	0.02	0.134	0.141	3.29	3.15	10	10	0.005	0.005	7.66	6.8
		20/11/2025	18.7	23.5	0.02	0.02	0.087	0.079	3.09	2.95	10	10	0.005	0.005	8.84	8.48
	Fall mean		12.6	20	0.02	0.02	0.130	0.133	3.1	3.04	10	10	0.005	0.005	8.14	7.72
SW6003-3	**Langford Creek just before discharge into Goldstream River**															
	Summer	dry until Nov 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fall	13/11/2025	3.13	29.2	0.089	0.098	0.381	0.379	10.1	10.4	21	20	0.005	0.0058	46.1	48.9
		20/11/2025	2.24	79.5	0.069	0.085	0.261	0.28	11.2	10.9	18	18	0.005	0.0061	47.3	42.1
		27/11/2025	6.05	40.9	0.079	0.089	0.42	0.478	9.96	10.7	21	19	0.0053	0.0054	45.3	49
		04/12/2025	5.45	65	0.078	0.092	0.365	0.374	10.3	10.4	19	16	0.005	0.0065	47.1	45.3
		09/12/2025	17.6	101	0.077	0.082	0.554	0.585	11.2	11.3	19	20	0.0108	0.0191	44	44.6
	Fall mean		6.9	63	0.08	0.09	0.396	0.419	10.6	10.7	20	18.6	0.006	0.0086	46.0	46.0
SW6003-5	**Goldstream River above Golden Gate Rd bridge at campground**															
	Summer	13/08/2025	5.02	9.3	0.02	0.02	0.259	0.27	3.14	3.41	10	10	0.005	0.005	4.98	5.45
		20/08/2025	5.15	13	0.02	0.039	0.255	0.265	3.47	3.2	10	10	0.005	0.005	5.31	5.37
		27/08/2025	5.21	18.1	0.02	0.02	0.248	0.275	3.08	3.31	10	10	0.005	0.005	5.02	5.22
		03/09/2025	5.54	10.7	0.023	0.023	0.269	0.212	3.48	3.03	10	10	0.005	0.005	5.15	4.73
		10/09/2025	4.88	10.5	0.02	0.02	0.244	0.251	2.95	3.26	10	10	0.005	0.005	4.98	5.06
	Summer mean		5.16	12	0.02	0.02	0.255	0.255	3.2	3.2	10	10	0.005	0.005	5.09	5.17
	Fall	24/10/2025	7.09	16.9	0.02	0.02	0.151	0.15	3.13	3.02	10	10	0.005	0.005	4.56	4.09
		31/10/2025	6.77	11.65	0.02	0.02	0.147	0.156	3.23	3.315	10	10	0.005	0.005	4.9	5.17
		05/11/2025	20.7	31.7	0.022	0.02	0.136	0.157	3.08	3.36	10	10	0.005	0.005	4.42	4.72
		13/11/2025	22.1	43.1	0.02	0.021	0.132	0.139	2.93	3.15	10	10	0.005	0.005	4.56	4.15
		20/11/2025	22.5	28.1	0.02	0.02	0.083	0.076	2.93	2.69	10	10	0.005	0.005	4.54	4.25
	Fall mean		15.8	23.9	0.02	0.02	0.130	0.139	3.1	3.1	10	10	0.005	0.005	4.6	4.48

Table 2 Summary Table for 5 in 30 Water Quality Data Collected for Goldstream River, continued

			Chromium		Cobalt		Conductivity	Copper		Oxygen	E. Coli	Hardness (CaCO3)	
			µg/L		µg/L		µS/cm	µg/L		mg/L	CFU/100 mL	mg/L	
			DIS	TOT	DIS	TOT	-	DIS	TOT	DIS	TOT	DIS	TOT
BC	**Guidelines**	**acute /instantaneous**	-	1 / 8.9 [1,3]	-	-	-	0.7 - 37 [4]	-	5 [5]	400 [6]	-	-
Station		**chronic /average**	-	-	-	-	-	0.2 - 6.2 [4]	-	8 [5]	200 [6]	-	-
SW6003	**Goldstream River discharge to marine (below Finlayson Road)**												
	Summer	13/08/2025	0.1	0.21	0.0116	0.020	98.3	0.314	0.42	10.7	12	36.9	38.9
		20/08/2025	0.1	0.22	0.0151	0.022	112	0.33	0.53	11.46	21	40	37.3
		27/08/2025	0.1	0.11	0.0140	0.030	103.8	0.362	0.65	10.91	10	36.1	38.9
		03/09/2025	0.1	0.1	0.0097	0.022	105.4	0.391	0.46	11.76	15	38.5	36.5
		10/09/2025	0.1	0.1	0.0137	0.022	7.5	0.338	0.424	11.83	8	39.4	38.5
	Summer mean		0.1	0.148	0.0128	0.023	85	0.347	0.50	11.3	13	38	38.0
	Fall	24/10/2025	0.1	0.1	0.0087	0.022	69.9	0.385	0.49	11.2	73	27.6	25.2
		31/10/2025	0.1	0.1	0.0107	0.017	83.1	0.374	0.5	11.39		29.4	28.5
		05/11/2025	0.1	0.1	0.0203	0.036	63.5	0.633	0.69	11.63	5	21.5	22.2
		13/11/2025	0.1	0.1	0.0205	0.035	75.7	0.553	0.6	11.91	23	25.3	23
		20/11/2025	0.1	0.1	0.0224	0.026	85.5	0.763	0.48	12.15	20	28.7	27.5
	Fall mean		0.1	0.1	0.0165	0.027	75.5	0.542	0.55	11.7	30	26.5	25.3
SW6003-3	**Langford Creek just before discharge into Goldstream River**												
	Summer	dry until Nov 13	-	-	-	-	-	-	-	-	-	-	-
	Fall	13/11/2025	0.18	0.23	0.0473	0.090	423.9	0.732	0.84	11.71	31	155	164
		20/11/2025	0.1	0.22	0.0317	0.195	430.3	0.725	0.97	8.75	2	155	141
		27/11/2025	0.13	0.19	0.0597	0.134	411.8	1.71	1.04	12.5	11	152	162
		04/12/2025	0.13	0.28	0.0559	0.147	424.1	0.677	1.67	12.61	27	159	152
		09/12/2025	0.17	0.27	0.2080	0.409	384.7	1.21	1.65	12.01	48	146	150
	Fall mean		0.14	0.238	0.0805	0.195	415.0	1.01	1.23	11.5	24	153	154
SW6003-5	**Goldstream River above Golden Gate Rd bridge at campground**												
	Summer	13/08/2025	0.1	0.13	0.0098	0.015	82.9	0.337	0.45	9.59	12	16.5	17.7
		20/08/2025	0.1	0.1	0.0122	0.023	54.2	0.384	0.47	9.52	12	17.8	18
		27/08/2025	0.1	0.21	0.0095	0.032	51.9	0.413	0.47	9.57	9	16.6	17.3
		03/09/2025	0.1	0.17	0.0097	0.024	51.5	0.396	0.52	10.73	2	17.4	15.8
		10/09/2025	0.1	0.1	0.0129	0.025	50.9	0.361	0.419	10.26	7	16.8	16.9
	Summer mean		0.1	0.1	0.0108	0.024	58.3	0.38	0.47	9.93	8	17.02	17
	Fall	24/10/2025	0.1	0.1	0.0075	0.024	42.7	0.416	0.53	10.81	40	15.3	13.8
		31/10/2025	0.1	0.1	0.0089	0.018	49.5	0.47	0.4855	11.52		16.7	17.7
		05/11/2025	0.1	0.1	0.0222	0.033	46.7	0.591	0.67	11.75	2	15.1	16.2
		13/11/2025	0.1	0.1	0.0207	0.040	47.1	0.583	0.72	12.32	8	15.4	14.7
		20/11/2025	0.1	0.18	0.0208	0.026	56.1	0.5	0.51	12.25	1	15.8	14.9
	Fall mean		0.1	0.1	0.0160	0.027	48.4	0.51	0.57	11.73	13	15.7	15.5

Table 2 **Summary Table for 5 in 30 Water Quality Data Collected for Goldstream River, continued**

			Iron		Lead		Magnesium		Manganese		Molybdenum		N - No2	N - No3
			µg/L		µg/L		mg/L		µg/L		µg/L		mg/L	mg/L
			DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	DIS
BC	**Guidelines**	**acute /instantaneous**	350	1,000	-	-	-	-	586-5162 [2]	-	-	-	0.24	32.8
Station		**chronic /average**	-	-	1.6-8.8 2	-	-	-	676-1379 [2]	-	-	-	0.08	3
SW6003	**Goldstream River discharge to marine (below Finlayson Road)**													
	Summer	13/08/2025	5.7	13.1	0.005	0.036	1.9	1.86	0.433	1.05	0.073	0.081	0.002	0.954
		20/08/2025	6.9	14.3	0.005	0.02	2.04	1.94	0.479	1.05	0.071	0.072	0.002	0.929
		27/08/2025	6.8	19.9	0.005	0.02	1.85	1.98	0.191	1.54	0.068	0.067	0.002	0.85
		03/09/2025	10.6	19.7	0.0058	0.02	2.04	1.95	0.426	1.34	0.094	0.086	0.002	0.847
		10/09/2025	6.2	13.7	0.005	0.0099	2.02	2.02	0.258	1.12	0.067	0.07	0.002	0.905
	Summer mean		7.2	16.1	0.005	0.021	1.97	1.95	0.357	1.22	0.075	0.08	0.002	0.897
	Fall	24/10/2025	5.1	19.4	0.005	0.028	1.48	1.39	0.183	2.03	0.05	0.05	0.0022	0.572
		31/10/2025	7.3	13.9	0.005	0.02	1.64	1.61	0.083	0.98	0.051	0.05	0.002	0.583
		05/11/2025	15.7	36	0.0107	0.025	1.27	1.33	0.52	2.24	0.05	0.05	0.003	0.342
		13/11/2025	17.4	38.7	0.0199	0.044	1.51	1.47	0.608	2.43	0.073	0.05	0.0031	0.309
		20/11/2025	19.4	31.1	0.0066	0.02	1.6	1.54	0.674	1.43	0.05	0.05	0.002	0.372
	Fall mean		13.0	28	0.009	0.027	1.5	1.47	0.414	1.82	0.05	0.05	0.002	0.436
SW6003-3	**Langford Creek just before discharge into Goldstream River**													
	Summer	dry until Nov 13	-	-	-	-	-	-	-	-	-	-	-	-
	Fall	13/11/2025	5.6	46.1	0.0058	0.0615	9.65	10.1	0.618	5.87	0.335	0.299	0.0031	0.329
		20/11/2025	1	123	0.005	0.183	8.98	8.69	0.421	23.8	0.259	0.235	0.002	0.577
		27/11/2025	24.5	90.3	0.0216	0.088	9.52	9.76	1.3	9.75	0.242	0.26	0.0043	0.22
		04/12/2025	12.2	120	0.0164	0.149	10.1	9.34	2.12	11.3	0.269	0.266	0.0096	0.199
		09/12/2025	145	322	0.0256	0.215	8.72	9.32	19.4	49.9	0.278	0.279	0.00875	0.281
	Fall mean		38	140	0.015	0.139	9.394	9.44	4.8	20.1	0.28	0.27	0.006	0.321
SW6003-5	**Goldstream River above Golden Gate Rd bridge at campground**													
	Summer	13/08/2025	16.7	27.9	0.0132	0.02	0.98	0.98	0.553	1.34	0.05	0.05	0.002	0.311
		20/08/2025	20.6	39	0.005	0.02	1.1	1.12	0.658	2.14	0.05	0.05	0.002	0.285
		27/08/2025	18.6	42.8	0.005	0.02	0.995	1.04	0.368	2.19	0.05	0.05	0.002	0.282
		03/09/2025	28.7	48	0.0063	0.02	1.11	0.97	0.574	1.98	0.05	0.097	0.002	0.258
		10/09/2025	15.7	32.6	0.0053	0.009	1.06	1.04	0.419	2.23	0.05	0.052	0.002	0.267
	Summer mean		20.1	38	0.007	0.018	1.049	1.03	0.514	1.98	0.05	0.06	0.002	0.281
	Fall	24/10/2025	9.6	31.1	0.005	0.037	0.957	0.87	0.311	3.01	0.05	0.05	0.002	0.132
		31/10/2025	12.2	23.05	0.005	0.00845	1.08	1.17	0.191	1.59	0.05	0.05	0.002	0.176
		05/11/2025	18.5	39	0.0054	0.021	0.985	1.07	0.561	2.29	0.05	0.05	0.002	0.167
		13/11/2025	22.8	51.8	0.0067	0.03	0.979	1.06	1.24	3.85	0.056	0.05	0.0025	0.105
		20/11/2025	26.7	39.8	0.005	0.02	1.07	1.03	1.88	2.95	0.05	0.05	0.002	0.103
	Fall mean		18.0	35	0.005	0.021	1.0142	1.04	0.84	2.55	0.05	0.05	0.002	0.137

Table 2 Summary Table for 5 in 30 Water Quality Data Collected for Goldstream River, continued

			Nickel		O. Carbon	pH	Phosphorus	Potassium		Selenium		Silicon	
			µg/L		mg/L	pH	mg/L	mg/L		µg/L		µg/L	
			DIS	TOT	DIS	-	TOT	DIS	TOT	DIS	TOT	DIS	TOT
BC	**Guidelines**	**acute /instantaneous**	1.4 -4.6 [1,2]	-	-	6.5-9 [9]	0.01 [7]	-	-	-	2	-	-
Station		**chronic /average**	-	-	-	-	0.005 [7]	-	-	-	-	-	-
SW6003	**Goldstream River discharge to marine (below Finlayson Road)**												
	Summer	13/08/2025	0.186	0.22	1.3	7.77	0.011	0.194	0.25	0.06	0.066	3070	2910
		20/08/2025	0.188	0.19	25	7.61	0.0075	0.208	0.25	0.072	0.054	2960	2780
		27/08/2025	0.145	0.19	1.2	7.75	0.0092	0.215	0.25	0.057	0.057	2990	3130
		03/09/2025	0.149	0.21	1.2	7.58	0.006	0.202	0.25	0.061	0.067	3030	2870
		10/09/2025	0.16	0.163	1.1	7.57	0.0063	0.184	0.199	0.062	0.073	2940	2990
	Summer mean		0.1656	0.19	5.96	7.66	0.008	0.201	0.2398	0.0624	0.063	2998	2936
	Fall	24/10/2025	0.178	0.16	1.8	7.22		0.3	0.28	0.046	0.04	2100	1930
		31/10/2025	0.164	0.17	1.8	7.46		0.214	0.25	0.04	0.04	2390	2450
		05/11/2025	0.208	0.25	3.2	7.17		0.19	0.25	0.058	0.046	2340	2320
		13/11/2025	0.26	0.25	3.5	7.08		0.201	0.25	0.053	0.04	2350	2160
		20/11/2025	0.183	0.19	2.5	7.27		0.179	0.25	0.062	0.062	2710	2610
	Fall mean		0.1986	0.20	2.56	7.24		0.217	0.256	0.0518	0.046	2378	2294
SW6003-3	**Langford Creek just before discharge into Goldstream River**												
	Summer	dry until Nov 13	-	-	-	-	-	-	-	-	-	-	-
	Fall	13/11/2025	2.78	2.93	3.1	7.52		0.838	0.856	0.076	0.08	4670	4810
		20/11/2025	1.25	1.9	1.5	7.22		0.769	0.72	0.119	0.111	4580	4110
		27/11/2025	4.08	4.48	4.4	7.73		0.905	0.88	0.077	0.075	4980	5640
		04/12/2025	4.82	4.96	3.1	7.75		0.861	0.82	0.04	0.052	5100	4760
		09/12/2025	6.8	7.14	5.4	7.79		1.1	1.08	0.107	0.108	5090	5360
	Fall mean		3.946	4.28	3.5	7.60		0.895	0.8712	0.0838	0.085	4884	4936
SW6003-5	**Goldstream River above Golden Gate Rd bridge at campground**												
	Summer	13/08/2025	0.142	0.14	1.7	7.4	0.013	0.15	0.25	0.04	0.04	1540	1410
		20/08/2025	0.145	0.12	5.9	6.95	0.012	0.165	0.25	0.04	0.04	1510	1520
		27/08/2025	0.127	0.16	1.5	6.92	0.012	0.163	0.25	0.04	0.04	1510	1590
		03/09/2025	0.14	0.26	1.3	6.85	0.0059	0.164	0.25	0.04	0.04	1550	1410
		10/09/2025	0.13	0.146	1.3	6.83	0.012	0.144	0.15	0.04	0.04	1440	1480
	Summer mean		0.1368	0.17	2.34	6.99	0.011	0.157	0.23	0.04	0.04	1510	1482
	Fall	24/10/2025	0.141	0.2	2	6.92		0.24	0.25	0.04	0.04	1240	1190
		31/10/2025	0.146	0.1475	2.1	7.11		0.195	0.187	0.04	0.04	1500	1530
		05/11/2025	0.192	0.24	3.5	6.93		0.169	0.25	0.04	0.04	1890	1950
		13/11/2025	0.187	0.23	3.9	6.79		0.154	0.25	0.04	0.04	2050	1980
		20/11/2025	0.165	0.17	2.7	6.94		0.129	0.25	0.04	0.04	2310	2090
	Fall mean		0.1662	0.19	2.84	6.94		0.177	0.2374	0.04	0.04	1798	1712

Table 2 Summary Table for 5 in 30 Water Quality Data Collected for Goldstream River, continued

			Silver		Sodium		Strontium		Sulfur		Temperature	Titanium	
			µg/L		mg/L		µg/L		mg/L		°C	µg/L	
			DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	NoRs	DIS	TOT
BC	**Guidelines**	**acute /instantaneous**	-	-	-	-	-	-	-	-	-	-	-
Station		**chronic /average**	-	0.12	-	-	-	-	-	-	17 [9]	-	-
SW6003	**Goldstream River discharge to marine (below Finlayson Road)**												
	Summer	13/08/2025	0.005	0.01	4.08	4.23	41.5	42.1	3	3	17.1	0.5	2
		20/08/2025	0.005	0.01	4.28	4.11	43	41.9	3	3	15.1	0.5	2
		27/08/2025	0.005	0.01	3.98	4.29	40.7	43.7	3	3	17.1	0.5	2
		03/09/2025	0.005	0.01	4.29	4.06	43.3	39.2	3	3	16.1	0.5	2
		10/09/2025	0.005	0.005	4.35	4.23	43.4	42.9	3	3	15.2	0.5	0.5
	Summer mean		0.005	0.01	4.20	4.18	42	42	3	3	16.1	0.5	1.7
	Fall	24/10/2025	0.005	0.01	3.26	2.98	30.4	28.6	3	3	10.4	0.5	2
		31/10/2025	0.005	0.01	3.23	3.23	29.9	31.5	3	3	8.7	0.5	2
		05/11/2025	0.005	0.01	2.84	2.83	22.4	21.2	3	3	9.1	0.5	2
		13/11/2025	0.005	0.01	3.26	3.07	24.8	23.6	3	3	8.9	0.5	2
		20/11/2025	0.005	0.01	3.31	3.34	27.3	25.8	3	3	8.1	0.5	2
	Fall mean		0.005	0.01	3.18	3.09	27	26	3	3	9.0	0.5	2
SW6003-3	**Langford Creek just before discharge into Goldstream River**												
	Summer	dry until Nov 13	-	-	-	-	-	-	-	-	-	-	-
	Fall	13/11/2025	0.005	0.005	16.6	16.9	144	151	28.6	29.3	10.4	0.5	1.21
		20/11/2025	0.005	0.01	18	17.1	154	141	27.1	24.4	10	0.5	3.2
		27/11/2025	0.005	0.01	16.2	16.6	137	140	27.6	28.5	9.1	0.5	2
		04/12/2025	0.005	0.01	16.5	14.8	145	126	29.6	27.8	8.4	0.5	3.1
		09/12/2025	0.005	0.01	14.9	15.7	135	137	24.9	24.1	9	0.54	4
	Fall mean		0.005	0.01	16.4	16.2	143	139	27.6	26.8	9.4	0.5	2.702
SW6003-5	**Goldstream River above Golden Gate Rd bridge at campground**												
	Summer	13/08/2025	0.005	0.01	2.32	2.45	19.6	20	3	3	17.9	0.5	2
		20/08/2025	0.005	0.01	2.57	2.49	20.2	20.1	3	3	16.4	0.5	2
		27/08/2025	0.005	0.01	2.41	2.44	18.9	19.6	3	3	18.1	0.5	2
		03/09/2025	0.005	0.01	2.61	2.31	20.3	17.8	3	3	17.7	0.5	2
		10/09/2025	0.005	0.005	2.44	2.34	18.8	19.7	3	3	16.8	0.5	0.5
	Summer mean		0.005	0.01	2.5	2.4	20	19	3	3	17.4	0.5	1.7
	Fall	24/10/2025	0.005	0.01	2.25	2	16.6	15.7	3	3	10.4	0.5	2
		31/10/2025	0.005	0.005	2.34	2.49	17.2	17.9	3	3	8.8	0.5	0.5
		05/11/2025	0.005	0.01	2.36	2.41	15.8	15.3	3	3	8.8	0.5	2
		13/11/2025	0.005	0.01	2.24	2.49	13.7	14.6	3	3	8.8	0.5	2
		20/11/2025	0.005	0.01	2.38	2.39	14.6	13.4	3	3	7.7	0.5	2
	Fall mean		0.005	0.01	2.3	2.4	16	16	3	3	8.9	0.5	1.5

Table 2 Summary Table for 5 in 30 Water Quality Data Collected for Goldstream River, continued

			TSS	Turbidity	Uranium		Vanadium		Zinc	
			mg/L	mg/L	µg/L		µg/L		µg/L	
			TOT		DIS	TOT	DIS	TOT	DIS	TOT
BC	**Guidelines**	**acute /instantaneous**	26 [10]	9 [11]	-	-	-	-	11.6-95 [2]	-
Station		**chronic /average**	6 [10]	3 [11]	-	-	-	-	5.6-53 [2]	-
SW6003	**Goldstream River discharge to marine (below Finlayson Road)**									
	Summer	13/08/2025	1.2	0.75	0.002	0.005	0.35	0.34	0.82	1
		20/08/2025	1.6	0.91	0.0027	0.005	0.33	0.36	0.22	1
		27/08/2025	1	0.64	0.002	0.005	0.35	0.39	0.14	1
		03/09/2025	1	0.87	0.0026	0.005	0.33	0.37	0.32	1
		10/09/2025	2	0.87	0.002	0.0029	0.29	0.31	0.13	0.19
	Summer mean		1.36	0.81	0.002	0.005	0.33	0.354	0.326	0.84
	Fall	24/10/2025	2.4	1.62	0.002	0.005	0.22	0.21	0.22	1
		31/10/2025	1	5.29	0.002	0.005	0.2	0.2	0.43	1
		05/11/2025	1	0.72	0.0027	0.005	0.2	0.2	0.22	1
		13/11/2025	1.6	1.14	0.003	0.005	0.2	0.2	0.29	1
		20/11/2025	1	1.47	0.002	0.005	0.2	0.2	0.45	1
	Fall mean		1.4	2.05	0.002	0.005	0.204	0.202	0.322	1
SW6003-3	**Langford Creek just before discharge into Goldstream River**									
	Summer	dry until Nov 13	-	-	-	-	-	-	-	-
	Fall	13/11/2025	1.2	1.89	0.0136	0.0145	0.39	0.39	2.54	3.3
		20/11/2025	12	3.2	0.0126	0.0137	0.36	0.55	2.51	4.1
		27/11/2025	1.6	1.54	0.0109	0.013	0.34	0.52	4.06	4.1
		04/12/2025	2.8	5.95	0.0132	0.011	0.31	0.42	2.54	4.3
		09/12/2025	4.4	4.93	0.0118	0.0144	0.43	0.55	5.5	8.1
	Fall mean		4.4	3.50	0.012	0.013	0.366	0.486	3.43	4.78
SW6003-5	**Goldstream River above Golden Gate Rd bridge at campground**									
	Summer	13/08/2025	1.6	0.79	0.002	0.005	0.2	0.2	0.83	1
		20/08/2025	1	0.92	0.002	0.005	0.2	0.2	0.15	1
		27/08/2025	1	0.77	0.002	0.005	0.2	0.24	0.25	1
		03/09/2025	1	1.01	0.002	0.005	0.2	0.2	0.13	1
		10/09/2025	2	1.11	0.002	0.002	0.2	0.2	0.12	0.12
	Summer mean		1.266667	0.92	0.002	0.004	0.2	0.208	0.296	0.82
	Fall	24/10/2025	2.4	1.77	0.002	0.005	0.2	0.2	0.12	1
		31/10/2025	1	5.19	0.002	0.002	0.2	0.2	0.22	0.185
		05/11/2025	1	0.96	0.002	0.005	0.2	0.2	0.22	1
		13/11/2025	1	1.04	0.0022	0.005	0.2	0.2	0.29	1
		20/11/2025	1	0.76	0.002	0.005	0.2	0.2	0.15	1
	Fall mean		1.28	1.94	0.002	0.004	0.2	0.2	0.2	0.73

Table notes next page.

Notes:
Where values were not detected, the detection limit was used to calculate statistics.
BC ENV approved water quality guidelines for protection of freshwater aquatic life applied unless otherwise stated
DIS = dissolved state, TOT = total state
*if more than 1 of the 5 samples exceeded the chronic guideline, station has exceeded.
Not detected and not shown: beryllium, lithium, thallium, tin, zirconium
[1] BC ENV working water quality guideline
[2] water quality-dependant guideline
[3] Cr(IV) / Cr (III)
[4] Sample specific BC Biotic Ligand Model guidelines; if > 1 of 5 samples or average of the 5 samples exceed chronic guideline, station has exceeded.
[5] guidelines are minimum (rather than maximum) values for dissolved oxygen
[6] guideline for protection of recreational contact; E.coli values in the "Average" row are geomeans.
[7] draft Vancouver Island Objective, applies to monthly samples collected June to September; our data was collected 5 times in 30 days
[8] optimum pH range
[9] draft objective proposed to protect juvenile Coho (the most sensitive species); average weekly temperature at any location in the creeks
[10] 25 and 5 mg/L over ambient levels of 2 mg/L in the upper Sooke River watersheds
[11] max: 9 NTU (8NTU above ambient levels in the upper Sooke River watershed) any time during clear flow periods, average 3 NTU (2NTU above ambient levels during clear flow periods

xx	value exceeds the provincial guideline protective for aquatic life
xx	italicized value exceeds a guideline/objective which is only partially applicable. Further investigation is needed.

Recent precipitation / weather	
13/08/2025	no rain for 1 week
20/08/2025	no rain for 4-5 days
27/08/2025	no rain for 1.5 weeks
03/09/2025	no rain for 2.5 weeks
10/09/2025	no rain for 3.5 weeks

APPENDIX G

CRD PUBLIC HEALTH AND ENVIRONMENTAL CONCERN RATING SYSTEM

STORMWATER DISCHARGE RATING SYSTEM

The Capital Regional District (CRD) evaluates stormwater discharges for public health and environmental concerns using a rating system for stormwater discharges developed by the CRD titled *Stormwater Discharge Rating System for the Capital Regional District* (Drinnan, 1997). As part of the rating system, the following study was used to determine levels of public use, coastline habitat sensitivity and flushing characteristics of the marine receiving waters: *An Evaluation of the Coastline Sensitivity Associated with Stormwater Discharges on the Saanich Peninsula (Drinnan, 1997).*

Public shoreline use ratings indicate the potential for public contact with stormwater. These ratings were updated in 2010 but individual discharges are also assessed and updated as necessary each year.

The rating of discharges allows the jurisdictions involved to better manage limited funds and undertake remedial measures where necessary. A copy of the rating system and the coastline sensitivity evaluations are available upon request from the CRD. A brief explanation of the stormwater discharge rating system follows.

1.1 Public Health Concern

CRD staff rate each discharge as a high, moderate or low level of concern for public health based on the level of bacterial contamination in the stormwater and the potential for human contact. The parameters used to assess the level of concern for public health are:

- Escherichia coli (*E.coli*) concentrations in the stormwater discharge
- discharge flow rate
- location of the discharge (e.g., below high-water line)
- public use of the shoreline (uses such as swimming, fishing, or kayaking)

The level of contamination is used to assign a bacterial rating. Public shoreline use ratings are used to indicate the potential for public contact with stormwater and depends on the type of activities carried out on the shoreline. While the shoreline ratings represent a rating for a section of shoreline, each discharge with a bacterial rating of 2 or more is evaluated individually using site-specific information and professional judgment. Table 1 shows criteria for the bacterial and public shoreline use ratings.

Table 1 Fecal Coliform and Public Shoreline Use Rating Criteria

Rating	Bacterial Rating Criteria	Rating	Public Shoreline Use Rating Criteria
1	No flow measured or *E.coli* count consistently under 200 CFU/100 mL	1	Low contact (e.g., inaccessible, beach walking)
2	*E.coli* counts on average greater than 200 or single measurement greater than 400 but less than 5,000 CFU/100 mL	2	Secondary contact (e.g., kayaking)
3	*E.coli* count greater than 5,000 CFU/100 mL	3	Primary contact (e.g., swimming, scuba diving)

Note: *E.coli* counts above 200 CFU/100 mL (on average) indicate the potential to cause adverse public health effects from primary recreational activities such as swimming or diving.

1.2 Environmental Concern

Environmental concerns are based on a contaminant rating of discharge sediments. The contaminant rating is determined by comparing the sediment concentration of each of eight metals and two groups of organic contaminants (Cn) with the CRD MSQG to obtain a ratio (Cn/MSQG). To account for potential additive effects, these ratios are summed to calculate the toxic equivalent unit (TEU). Table 2 provides the criteria for determining the contaminant rating.

Table 2 Criteria for Determining the Contaminant Rating

Contaminant Rating	Criteria for Determining the Contaminant Rating
Low	Sum of the individual ratios of Cn/MSQG (TEU) is less than 1.0
Moderate	Sum of the individual ratios of Cn/MSQG (TEU) is greater than or equal to 1.0, but no individual parameter exceeds, or is equal to, a value of 0.75
High	The ratio Cn/MSQG is greater than, or equal to, 0.75 for any single parameter

Discharges evaluated are located near environmentally sensitive areas, in creeks or near heavily settled areas where there is an increased probability of pollution. All discharges sampled for environmental concern are sampled for at least two years to confirm the contaminant concentrations and contaminant(s) of concern. Only a small number of discharges can be sampled each year due to budgetary constraints; therefore, each discharge selected for sampling can only be sampled once per year.

Discharges with a confirmed high contaminant rating are investigated to determine the source(s) of contamination. The priority in which high-rated discharges are investigated and problems mitigated is determined by calculating a habitat rating (high, moderate or low). The habitat rating is based on the habitat sensitivity, discharge flow and marine flushing characteristics. Table 3 briefly describes the rating criteria for the habitat rating.

Table 3 Criteria for Determining Ratings for Habitat Sensitivity, Discharge Flow and Marine Flushing

Habitat Sensitivity Rating		Discharge Flow Rating		Marine Flushing Ratings	
Rating	Criteria	Rating	Criteria	Rating	Criteria
1	Low productivity; less diverse habitats	0.5	Less than 50 L/minute	0.5	Open shoreline; high flushing
2	Moderate productivity; diverse habitats	1	Between 50 to 500 L/minute	1	Partially enclosed area; moderate flushing
3	High productivity or endangered or protected habitats	1.5	Greater than 500 L/minute	1.5	Enclosed area; poor flushing

These three ratings (habitat sensitivity, discharge flow and marine flushing) are summed to determine a habitat rating as shown in Table 4. The habitat rating assigned to each discharge will allow limited resources to be spent in a prioritized manner.

Table 4 Criteria for Establishing the Habitat Rating

Habitat Rating and Mitigative Priority	Sum of Criteria (Habitat + Flow + Flushing)
Low	2.0-3.0
Moderate	3.5-4.5
High	5.0-6.0

OTHER CONCERNS

There are a number of other concerns that have been jointly reviewed and discussed by staff from the CRD and the other jurisdictions involved. This review and discussion assists in setting priorities for remediation of discharges with a high level of concern for public health and the environment. These include:

- the cost of remediation
- the likelihood that remediation will be successful
- compatibility with the priorities of the jurisdictions
- public interest