

Saanich Peninsula Stormwater Quality Program

2025 Annual Report

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

Including the jurisdictions of:

District of Central Saanich

District of North Saanich

Town of Sidney

Pauquachin First Nation

Tsartlip First Nation

Tsawout First Nation

Tseycum First Nation

Prepared By
Stormwater Quality Program

Capital Regional District

625 Fisgard Street, Victoria, BC V8W 2S6

T: 250.360.3000 | F: 250.360.3079

www.crd.ca

July 2026



**SAANICH PENINSULA STORMWATER QUALITY PROGRAM
2025 ANNUAL REPORT**

TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
2.0 STORMWATER DISCHARGE EVALUATIONS - PUBLIC HEALTH.....	2
2.1 Public Health Concern Rating Methods	2
2.2 2025 Public Health Concern Ratings	2
2.3 Ratings Over Time.....	3
3.0 Bacterial Source Investigations.....	3
4.0 STORMWATER DISCHARGE AND WATERCOURSE EVALUATIONS – CHEMICAL CONTAMINANTS	4
4.1 Chemical Contaminant Sampling.....	4
3.2 Watercourse Monitoring	5
5.0 QUALITY ASSURANCE	6
6.0 SAANICH PENINSULA STORMWATER SOURCE CONTROL SERVICE.....	8
7.0 CRD ONSITE SEWAGE SYSTEMS SERVICE	9
8.0 OUTREACH & ENGAGEMENT	9
9.0 CONCLUSIONS	9

LIST OF TABLES

Table A	2025 Discharges Rated High for Public Health Concern	3
Table B	Number of Discharges Rated High for Public Health Concern Over Time	3
Table C	Status of 2025 Source Investigations	4

LIST OF FIGURES

Figure A	Saanich Peninsula – Stormwater Discharges Rated High for Public Health or Environmental Concern.....	7
----------	---	---

LIST OF APPENDICES

APPENDIX A	Location of Stormwater Discharges
APPENDIX B	Bacterial and Flow Data (2023-2025)
APPENDIX C	Public Health Concern Ratings
APPENDIX D	<i>E. Coli</i> Sampling Quality Assurance and Quality Control Program
APPENDIX E	Contaminant Data and Ratings for Environmental Concern
APPENDIX F	2025 Watercourse Monitoring Data
APPENDIX G	CRD Public Health and Environmental Concern Rating System

SAANICH PENINSULA STORMWATER QUALITY PROGRAM 2025 ANNUAL REPORT

1.0 INTRODUCTION

The Capital Regional District (CRD) Stormwater Monitoring Program works to identify and reduce contamination from the land into stormwater, creeks and the ocean. CRD staff, in cooperation with municipalities and First Nations, accomplish this through environmental monitoring, assessment, collaboration, education and enforcement. This work meets commitments outlined in the Saanich Peninsula Liquid Waste Management Plan (LWMP; CRD, 2009), described below.

CRD staff monitor approximately 300 stormwater discharges and creeks to identify contamination and impacts to stormwater due to land use practices. Data is used to assign priority ratings for mitigative action by the appropriate jurisdiction. When contamination is found, CRD staff conduct investigations and work with municipal staff, First Nations and other jurisdictions to identify the source(s). CRD does not own or operate any stormwater infrastructure but assists owners with source identification and remediation.

CRD environmental monitoring staff work to monitor and assess any existing stormwater contamination, while CRD source control staff work to prevent the release of contamination into the municipal drainage system. This is accomplished through education, guidance and enforcement. Source control staff conduct site visits with every facility on the Saanich Peninsula with a business waste discharge, parking lot or outdoor storage.

This report summarizes the results of the following work which was completed in 2025 (2026 data was considered when available):

- Stormwater Discharge Evaluations for Public and Environmental Health
- Watercourse Monitoring
- Contaminant Source Investigations
- Saanich Peninsula Stormwater Source Control Service

Data, sampling locations and details about the CRD stormwater discharge rating methods for public health and environmental concern are available in appendices A through G.

Regulatory Background

Stormwater Quality Monitoring Service

The CRD created the stormwater quality monitoring service to meet commitments in the Saanich Peninsula LWMP. The CRD commitments regarding stormwater quality and management are to:

1. *plan, promote and co-ordinate a program for management of stormwater quality and surface water resources in cooperation with the participating municipalities, communities and local governments to:*
 - a. *limit the impacts of stormwater runoff on the environment and public health and well-being;*
 - b. *protect freshwater and near-shore marine ecosystems and resources; and*
2. *promote education about water quality issues and to develop educational material.*

Municipalities and First Nations own the stormwater infrastructure and have authority over stormwater under the *Community Charter**. In the LWMP, participants make the following commitments:

1. *to act on priorities within their jurisdiction to protect stormwater quality, the physical environment and aquatic habitat, and to reduce the levels of contaminants in stormwater discharges to accepted government standards in watercourses and near-shore marine areas;*

* https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/03026_00

2. to use resources available to municipal governments to achieve these reductions; and
3. to amend bylaws, as necessary, to ensure that new development takes place in accordance with appropriate best management practices.

Liquid Waste Management Plan Audit and Review

The current Liquid Waste Management Plan, originally approved by the Minister of Environment in 1996, was last consolidated with Amendment 4 in 2009 and audited in 2019. Several commitments identified as “In Progress Non-Compliant” or “Non-Compliant” in the 2019 audit have since come into compliance, including the District of North Saanich joining the CRD Onsite Program bylaw, recent work to assess inflow and infiltration, and various municipal stormwater initiatives.

On April 8, 2026, the CRD Board based on recommendations from the Saanich Peninsula Wastewater Commission recommended the following:

- That staff defer review and renewal of the Saanich Peninsula Liquid Waste Management Plan pending completion of provincial, regional and municipal planning documents; and
- That staff include financial planning for the Saanich Peninsula Liquid Waste Management Plan Update in the 2027 business planning process for consideration in the 2027-2031 Financial Plan.

Saanich Peninsula Stormwater Source Control Service

The CRD created the Saanich Peninsula Stormwater Source Control Service with the goal to prevent contamination into the municipal drainage system through education, maintenance of catch basins, appropriate business practices and proper disposal of waste. Staff created Regulatory Bylaw No. 4168 and amending Bylaw No. 4229 that set out the requirements for discharges to the municipal drainage system. There are two Codes of Practice included in the bylaw, one for Parking Lot Operations and another for Outdoor Storage Operations.

2.0 STORMWATER DISCHARGE EVALUATIONS - PUBLIC HEALTH

2.1 Public Health Concern Rating Methods

Staff assess and prioritize stormwater discharges annually to meet LWMP commitments and support local governments in directing funds where they will have the greatest benefit. Discharges are prioritized through public health concern ratings, based on the concentration of bacteria in the discharge and potential for public contact.

Each year, CRD staff sample a selection of stormwater discharges in the wet and dry seasons and analyze them for *Escherichia coli* (*E.coli*), an indicator of sewage or animal waste. *E.coli* results are used in conjunction with public shoreline use ratings to assign public health ratings. A summary of the CRD rating system is included in Appendix G. Average *E.coli* counts greater than 200 colony forming units (CFU)/100 mL indicate a source of sewage or animal waste with the potential to cause adverse effects to members of the public engaging in recreational activities in the vicinity. The CRD assigns discharges a high public health concern rating if:

- the average *E.coli* counts (geomean) are over 200 CFU/100 mL or a single count is over 400 CFU/100 mL on a shoreline used by the public for swimming or diving; or
- the *E.coli* count is greater than 5,000 CFU/100 mL on a shoreline used by the public for small boating (e.g., kayaking or paddle-boarding).

2.2 2025 Public Health Concern Ratings

In 2025, staff assessed 102 of the 290 stormwater discharges on the Saanich Peninsula—discharges not assessed were all previously assigned low public health concern ratings. Of those assessed, 28 had one or more *E. coli* counts greater than 400 CFU/100 mL. However, many of these discharges have low flows or are located where there is little risk of public contact. Considering the likelihood for contact during recreational activities, CRD staff assigned the following public health concern ratings:

- 77 low ratings;
- 16 moderate ratings; and
- 9 high ratings (Table A, Figure A).

These ratings and the associated bacterial data are listed in appendices B and C. Quality assurance, and control data are in Appendix D.

2.3 Ratings Over Time

Since 2012, the number of high-rated discharges has decreased on the Saanich Peninsula from 13 to 9 (see Table B), however the trend has started increasing in recent years from 5 to 9 since 2022.

Two discharges were added to the high-rated list in 2025; however, both discharges have been high-rated before. Seven of the high-rated discharges have been of concern for several years. Four of these are along the North Saanich shoreline and drain areas that have on-site sewage treatment systems. In 2024, North Saanich signed onto the CRD Bylaw 3479 which helps ensure regular maintenance of septic systems. It is anticipated that this action will reduce the number of high-rated discharges in this area.

After 15 years, CRD staff removed Tseycum Creek from the list of high-rated discharges in 2024. Measurements in 2024 and early 2025 indicated lower bacterial counts in the creek and the rating was changed to moderate. However, the most recent measurement in summer 2025 indicates that bacteria counts may be increasing again. CRD investigations indicate that bacteria contamination in Tseycum Creek originates from agricultural inputs upstream of Tseycum First Nation. Ongoing efforts from Peninsula Streams Society to work with the agricultural community and conduct riparian restoration may have contributed to the reduced bacterial contamination.

Table A 2025 Discharges Rated High for Public Health Concern

Jurisdiction	Discharges Rated High
Central Saanich	3145, 3146
North Saanich	3077, 3078, 3078A, 3118
Sidney	449, 450, 3016
Pauquachin First Nation	-
Tsartlip First Nation	-
Tsawout First Nation	-
Tseycum First Nation	-

Table B Number of Discharges Rated High for Public Health Concern Over Time

Jurisdiction	Number of Discharges Rated High													
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Central Saanich	2	1	1	1	0	0	1	2	1	0	1	0	1	2
North Saanich	4	4	3	3	3	4	4	4	3	3	2	3	4	4
Sidney	4	5	6	3	2	1	2	2	2	2	1	2	2	3
Pauquachin First Nation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tsartlip First Nation	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Tsawout First Nation	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Tseycum First Nation	1	1	1	1	1	1	1	1	1	1	1	1	0	0
Total	13	12	11	8	6	6	8	9	7	6	5	6	7	9

3.0 BACTERIAL SOURCE INVESTIGATIONS

CRD, municipal, First Nation and Island Health Authority (IHA) staff continue to work together to identify bacterial sources in stormwater discharges of concern so they can be addressed by the appropriate jurisdiction. CRD staff narrow down sources of bacteria using upstream sampling for parameters of concern, as well as measurements of caffeine or genetic analysis to determine if the origin of elevated bacteria is animal or human.

CRD source investigations indicate that malfunctioning on-site sewage treatment systems are the sources of bacteria leading to high ratings in the four North Saanich high-rated discharges. Sources of bacteria in Sidney discharges are due to sewer cross-connections and aging infrastructure. The 2024 repair of a sewer to stormwater cross-connection in discharge 447 reduced the number of high-rated discharges in Sidney but no new repairs were made in 2025.

In 2025, CRD staff investigated the catchment areas of two stormwater discharges on the Saanich Peninsula. Investigations are continuing in both catchments to find other sources or further narrow existing sources. The status of these investigations is summarized in Table C. CRD investigations are complete in five other catchments investigated in 2024, but staff continue to monitor for any changes.

Table C Status of 2025 Source Investigations

Stormwater Discharge #	Location/ Jurisdiction	Status	Next Steps
3133	Hagan Creek; Ditch draining Keating, Central Saanich	Ongoing; one source narrowed; other sources exist.	CRD to continue monitoring
3145	Brentwood Bay; Central Saanich	Ongoing; narrowed down but needs confirmation; <i>E.coli</i> counts fluctuate; ditch often dry	CRD to continue investigations when flow is present

4.0 STORMWATER DISCHARGE AND WATERCOURSE EVALUATIONS – CHEMICAL CONTAMINANTS

The CRD assesses environmental concern in water and sediment from stormwater, pipes, ditches and streams, based on their potential to impact the marine receiving environment. Staff also assess watercourse health in seven freshwater streams through water and sediment quality and benthic invertebrate sampling. When contamination is found, the results are passed onto the appropriate jurisdiction and the CRD works in partnership to find and eliminate sources.

4.1 Chemical Contaminant Sampling

Stormwater Sediment Sampling

The program evaluates sediment from within stormwater discharges (pipes, ditches and streams) for potential environmental impact due to contaminant levels. Sediment data and ratings are in Appendix E.

CRD staff assign contaminant ratings to stormwater discharges from sediment samples taken at the point of discharge into the marine environment. Ratings are determined by comparing the concentration of each contaminant (eight metals and high and low molecular weight polycyclic aromatic hydrocarbons [PAH]) to the CRD marine sediment quality guidelines (MSQG) protective of marine life. Methods are described in Appendix G.

2025 Contaminant Ratings

Staff collected sediment samples from ten stormwater discharges on the Saanich Peninsula and assigned the following sediment contaminant ratings:

- 6 low ratings;
- 4 moderate ratings

None of the discharges were rated high for environmental concern in 2025. However, one discharge (Mermaid Creek) remains on the corrective action list due to previous high ratings and is discussed below.

Discharges Requiring Corrective Action

Remedial work resulted in decreased contamination in two of the three discharges that have been a concern for many years (441 (Reay Creek) and 3138 (Tsartlip Boat Launch)) allowing removal of these from the list of discharges requiring corrective action. CRD data indicates lower levels of contaminants remain in these discharges.

Only Mermaid Creek (discharge 3005: Figure A) remains on the list of discharges requiring corrective action based on elevated metals and PAHs. Discharge 3005 has been of concern for several years and CRD staff have conducted numerous investigations, however, finding a source has been challenging due to lack of sediment and multiple sources within the catchment. Due to lack of sediment, staff have been monitoring contaminant levels in water within the stormwater system in recent years.

The highest metals concentrations are consistently measured in a manhole on Malaview Avenue between Fifth Street and Resthaven Drive. The area is residential, and no evident sources of contamination have been found. Contaminated soil may be present under the surface from historical sources resulting in some infiltration into the pipes.

Sidney staff found and repaired a cross-connection in the catchment in early 2024. CRD staff will continue sampling and investigations in this catchment.

Aqueous Contaminants in Storm Drains

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 103 Saanich Peninsula stormwater discharges from 2023 to 2025:

- Copper and zinc are the contaminants most often elevated above the BC WQGs.
- Average total copper concentrations were elevated above the average marine WQG of 2 µg/L in 82% of discharges while total zinc was elevated above the average WQG of 10 µg/L in 39% of discharges (see Appendix E, Table 5).
- One or more PAHs were detected in 3 of the 27 locations sampled (11%); however, pyrene was the only PAH to exceed an aquatic life guideline.

3.2 Watercourse Monitoring

Staff continued to monitor Hagan/Graham, KĒL,SET (Reay), Tetayut, Tatlow (Chalet), TĒNTEN, Tod and Tseycum creeks in 2025, to provide information about creek and watershed health.

Twice per year staff collect water quality measurements at the discharge of each creek, providing a snapshot of creek health in the wet and dry seasons. Approximately every second year, staff focus on one Saanich Peninsula watershed to conduct more comprehensive monitoring that includes additional locations, additional water quality parameters, higher sampling frequency and benthic invertebrate data collection, if possible. In 2025, staff completed focused sampling in the TĒNTEN Creek Watershed.

Based on the CRD monitoring data, the parameters of most concern in Saanich Peninsula creeks are *E. coli*, phosphorus and turbidity, with some creeks also experiencing low dissolved oxygen and elevated metals. Poor water quality is likely the result of development and land clearing, agricultural practices, malfunctioning on-site sewage treatment systems and historical and ongoing business practices. Focused monitoring in TĒNTEN Creek in 2025 indicated that watershed health is relatively poor in this creek (discussed below).

TENTEN Creek Watershed

Water Quality

The TENTEN Creek Watershed includes the Victoria Airport Authority, agricultural land, a golf course and a former contaminated site. CRD conducted focused sampling in this watershed in 2025. Water quality data collected in summer and fall of 2025 indicated that water quality remains poor relative to other CRD creeks but may be improving upstream. The water quality parameters of concern were consistent with those measured in 2018 (when the creek water was sampled in a similar manner), however some parameters showed improvement in one of the tributaries.

In 2025, CRD staff collected multiple samples at five locations in the watershed, however only two were sampled in summer as the three upstream stations were dry until November.

Several water quality parameters were outside BC guidelines for protection of aquatic life. As in 2018, the parameters of concern include aluminum, arsenic, copper, iron, zinc, dissolved oxygen, phosphorus, turbidity and nitrate. However, the following parameters that previously exceeded guidelines in 2018 met guidelines in 2025: *E.coli* and nitrite.

TENTEN water quality varies by location and season. In both monitoring years (2018 and 2025), the highest concentrations of arsenic, copper and zinc were observed downstream adjacent to the airport (3104 and 3104-2) in summer (elevated concentrations were measured in fall as well). This location receives airport runoff and is adjacent to an area of historical contamination.

A tributary that runs down Willingdon Road and drains the main parking lot of the airport, was sampled for the first time in 2025 (3104-2A) and had lower levels of contaminants and fewer exceedances of water quality guidelines than the other locations sampled. Finally, a tributary from a nearby farm (3104-3) had fewer exceedances of water quality guidelines than it did in 2018. Most notably, manganese, *E.coli* and nitrite concentrations were lower and met guidelines. Turbidity and nitrate remained elevated above guidelines in 2025, and low dissolved oxygen concentrations measured in the fall would not likely support aquatic life.

Dissolved arsenic, copper and zinc were measured in highest concentrations during periods of low flow (summer), while aluminum (total and dissolved) and total iron were highest during periods of heavy rain/flow (fall).

Sediment Quality

Metals in sediment collected in TENTEN Creek just above West Saanich Road in 2025 met Canadian Council of Ministers of the Environment (CCME) guidelines for protection of aquatic life except for copper and zinc. Copper and zinc both met the CCME Probably Effects Level guidelines and were below the upper limits of background concentrations found in soil but exceeded the Interim Sediment Quality Guidelines. Concentrations above this guideline will occasionally result in adverse effects on aquatic life. Sediment data collected at this location over time indicates that copper and zinc concentrations have been stable in samples collected since 2019 (n=4) ranging from 38 to 50 mg/kg for copper and from 143 to 159 mg/kg for zinc.

Polycyclic aromatic hydrocarbon concentrations have fluctuated considerably over time but remained below guidelines and were lower than 2019 concentrations in three samples collected between 2020 and 2025 (0.006 to 0.1 mg/kg for LPAH and 0.017 to 0.17 mg/kg for HPAH).

5.0 QUALITY ASSURANCE

The 2025 data met quality assurance/quality control requirements for the program. For bacterial analysis, quality assurance includes annual establishment of a precision criterion based on a range of Saanich Peninsula stormwater sample triplicates. Staff collect blanks and field-splits for 10% of the discharge and marine surface water samples collected.

Quality assurance for sediment analysis included field duplicates, laboratory triplicates and standard reference materials. Precision and accuracy of the laboratory analysis were estimated from the results of these replicate and standard reference materials samples. A detailed discussion on the quality assurance program is provided in Appendix D.

Saanich Peninsula – Stormwater Discharges Rated High for Public Health or Environmental



6.0 SAANICH PENINSULA STORMWATER SOURCE CONTROL SERVICE

The CRD established the Saanich Peninsula Stormwater Source Control Service in 2014 with the goal to prevent release of contamination into the municipal stormwater drainage system through education and guidance, maintenance of catch basins, appropriate business practices and proper disposal of waste.

Implementation strategies included site visits with every facility on the Saanich Peninsula identified as having a business waste discharge or operating under one of the Codes of Practice (Parking Lot Operations and Outdoor Storage Operations). During site visits, CRD staff provided education on the Stormwater Bylaw and enforcement when major infractions such as direct discharge to the stormwater system, lack of maintenance of stormwater rehabilitation units, or containment issues of hazardous materials were found.

The CRD Saanich Peninsula Stormwater Source Control Bylaw No. 1, 2017 (Bylaw No. 4168 and amending Bylaw 4229) serves as the main regulatory instruments for source control on the Saanich Peninsula. The bylaw specifies the various regulatory conditions under which facilities must operate if they discharge into a municipal drainage system. The regulatory conditions for businesses include operations under sector-specific codes of practice. Under the program enforcement policy, staff make reasonable efforts to resolve issues through cooperative measures. Where education proves ineffective, punitive measures are available, including tickets. Regulatory inspection to ensure compliance with the bylaw requirements commenced in 2024. The following sections summarize each of the stormwater source control services on the Saanich Peninsula.

Prohibited Discharges

In 2025 CRD staff identified 12 facilities discharging business waste to the stormwater system. Staff worked with 4 facilities to cease discharge to stormwater. Some businesses changed practices or were regulated under a Code of Practice, while others were directed to discharge to the sanitary sewer under regulation of the Sewer Use Bylaw 2922. At the end of 2025 there were 5 facilities operating under a Temporary Approval Letter.

Temporary Approvals

CRD staff identified 5 facilities discharging business wastewater to the stormwater system through treatment works approved by the municipality. These facilities are operating under Temporary Approval Letters with conditions to prove efficacy of the treatment through self-monitoring and reporting. In 2024 staff conducted 4 inspections and 6 meetings, and at the end of 2025 one facility was at Step 1 of a 3-step enforcement process for exceeding Prohibited Waste parameters, and one facility was at Step 3 and Under Review for exceeding Prohibited Waste parameters and will have their Temporary Approval revoked in 2026 due to continued exceedances in Prohibited Waste.

Bylaw 4168 Inspections

The CRD implemented a 2-year cycle of regulatory inspections with all Saanich Peninsula facilities with a business waste discharge and those operating under a Code of Practice. In 2025, staff conducted 122 in-person inspections at 102 facilities to ensure bylaw compliance. Staff also provided education and solutions for managing business waste on-site to prevent contamination of the stormwater system and the downstream receiving environment. Staff Inspected 72 parking lot operations, 18 outdoor storage operations, as well as 12 general inspections. Ninety-seven of these facilities were determined to be regulated under the Stormwater Bylaw.

Bylaw 4168 Compliance

At the end of 2025, 267 facilities regulated under the Stormwater Bylaw on the Saanich Peninsula. Of the 102 regulated facilities inspected in 2025, the initial compliance rate was 69%. Facilities with prohibited waste discharges had a compliance rate of 83%. Parking lot operations had a compliance rate of 66% and outdoor storage operations had an initial compliance rate of 72%. With follow-up inspections, 30 of the 102 facilities brought their operations into compliance for an overall compliance rate of 73% for 2025.

Significant Incident Response

Staff responded to one significant incident in 2025: Construction waste discharge was identified by municipal staff. Following two site visits, no violations of the bylaw were found, and the contractors were operating within best practices.

7.0 CRD ONSITE SEWAGE SYSTEMS SERVICE

Under the Saanich Peninsula Liquid Waste Management Plan, the District of North Saanich commits to the implementation of a program that requires compulsory pumping of septage tanks and compulsory maintenance of small treatment plants. To meet this commitment, North Saanich voted in favour of joining the CRD Onsite Sewage Systems Service in 2023. The CRD amended the Onsite Sewage System Maintenance Bylaw 3479 to add North Saanich to the regulatory service along with existing participants (City of Colwood, City of Langford, District of Saanich and Town of View Royal).

The CRD bylaw came into effect in North Saanich in January 2025 and was introduced to property owners with septic systems through direct mailouts. The CRD and North Saanich hosted an informational open house in March 2025 and the CRD provided septic care and maintenance materials at two outreach events on the Peninsula in 2025, sharing details about the CRD bylaw and maintenance assessment program.

In 2025, fifty-eight North Saanich residents applied to participate in the CRD maintenance assessment program where the CRD provided cost-sharing of an inspection of their onsite system up to \$700. By September 2025, 24 inspection reports were submitted with the following results:

- None of the systems were operating as intended
- 54% (13/24) were experiencing a significant performance issue
- 13% (3/24) displayed a biological human health hazard
- 33% (8/24) were experiencing a partial back up

This bylaw will allow North Saanich and the Capital Regional District to work together to protect the environment by ensuring septic systems are well maintained. Regular maintenance of septic systems will extend system life, save residents' money, safeguard water quality and protect aquatic life and public health.

8.0 OUTREACH & ENGAGEMENT

The CRD provides coordinated residential and business education programs on behalf of the municipalities to provide consistent messaging that reduces and prevents sources of pollution. In 2025 as part of the Inter-Municipal Integrated Watershed Working Group, the CRD hosted a workshop with the municipalities for input into an updated outreach and engagement strategy to be developed in 2025.

Outreach and engagement in 2025 included an update to the stormwater pages on the CRD website which provides resources for both business and residents. We also conducted a multi-media campaign including social media, digital and print components that focused on preventing stormwater pollution and managing rainfall. In addition to print materials, 11 free webinars were provided for the residential audience including rainwater harvesting techniques, building a rain garden, planting native plants and more. Stormwater education was also provided at 26 community events where print materials were distributed, and pollution prevention discussions occurred.

For the business community specifically, two Keyline design workshops were provided that help large property owners manage and optimize rainfall, and a multi-media campaign was conducted on catch basin maintenance. In 2025, the CRD hosted three Harbours Stewardship Speaker Series events which were open to the public, with stormwater management and pollution prevention related topics including Salmon Safe Eco-Certification, Green Shores and Mitigating Inputs of Tire Wear Toxins to Protect Salmon Habitat. The Saanich Peninsula Stormwater Quality Bylaw was supported with new materials to increase awareness of the Bylaw: a new rack card and development of an information sheet for businesses.

9.0 CONCLUSIONS

The 2025 Saanich Peninsula Stormwater Quality Program continued to work towards protecting public health and the environment through monitoring, source investigations, regulation, education, and collaboration with municipalities, Island Health and First Nations. Of 102 stormwater discharges assessed, 77 were rated low, 16 moderate, and nine high for public health concern associated with recreational activities. While the number of high-rated discharges remains below the 13 recorded in 2012, it has increased from five in 2022 to nine in 2025. Sources of bacterial contamination differ by land use and are associated with aging infrastructure, sewer cross-connections, malfunctioning onsite sewage treatment systems, and agricultural inputs. Seven high-rated discharges are longstanding concerns and investigations remain active. It is anticipated that the addition of North

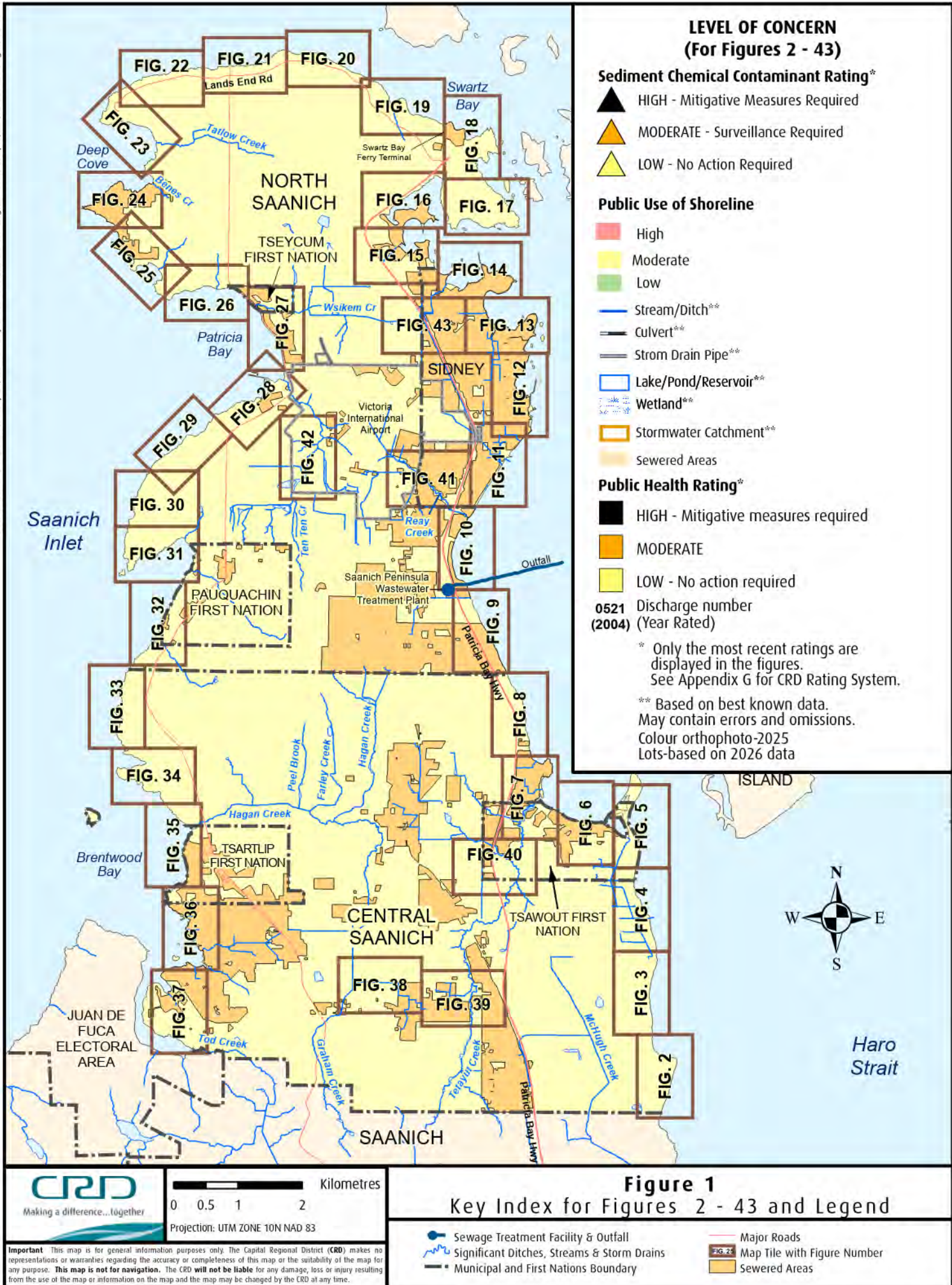
Saanich to the CRD Onsite Sewage Systems Service will work towards reducing some of the longstanding concerns in North Saanich.

Environmental monitoring found no stormwater discharges rated high for chemical contaminants in sediment in 2025, although Mermaid Creek remains a corrective-action priority because of historical metals and polycyclic aromatic hydrocarbon concerns. Watercourse monitoring identified continuing concerns related to *E. coli*, phosphorus, turbidity, low dissolved oxygen, and elevated metals; focused monitoring in TENTEN Creek indicated poor overall watershed health alongside some improvement since 2018. Source control staff completed 122 inspections at 102 facilities and raised overall compliance to 73% through follow-up, but unresolved prohibited discharges and temporary approvals require continued enforcement.

In 2026, CRD work will focus on continuing to reduce sources of contamination through monitoring, source investigations, education and engagement, regulation and collaboration with municipal and health authority staff, First Nations and the community to resolve contaminant sources. Staff will continue to collect data about stormwater and creek health and will complete comprehensive monitoring in the Hagan Creek Watershed in 2026.

APPENDIX A

LOCATION OF STORMWATER DISCHARGES 2025





 CRD Making a difference...together	0 25 50 100 150 Metres Projection: UTM ZONE 10N NAD 83		For Key Index and Legend See Figure 1		Figure 2 Saanich Peninsula 2025 Stormwater Discharge Location and Level of Concern
--	--	---	--	---	--

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

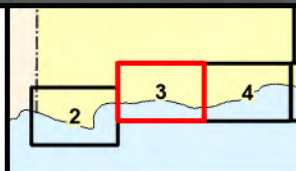


Figure 3
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

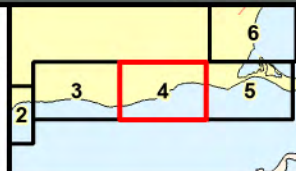
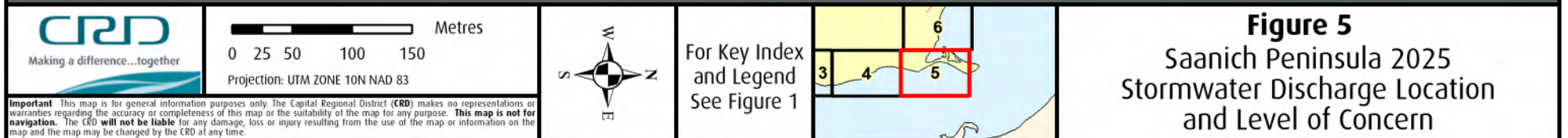
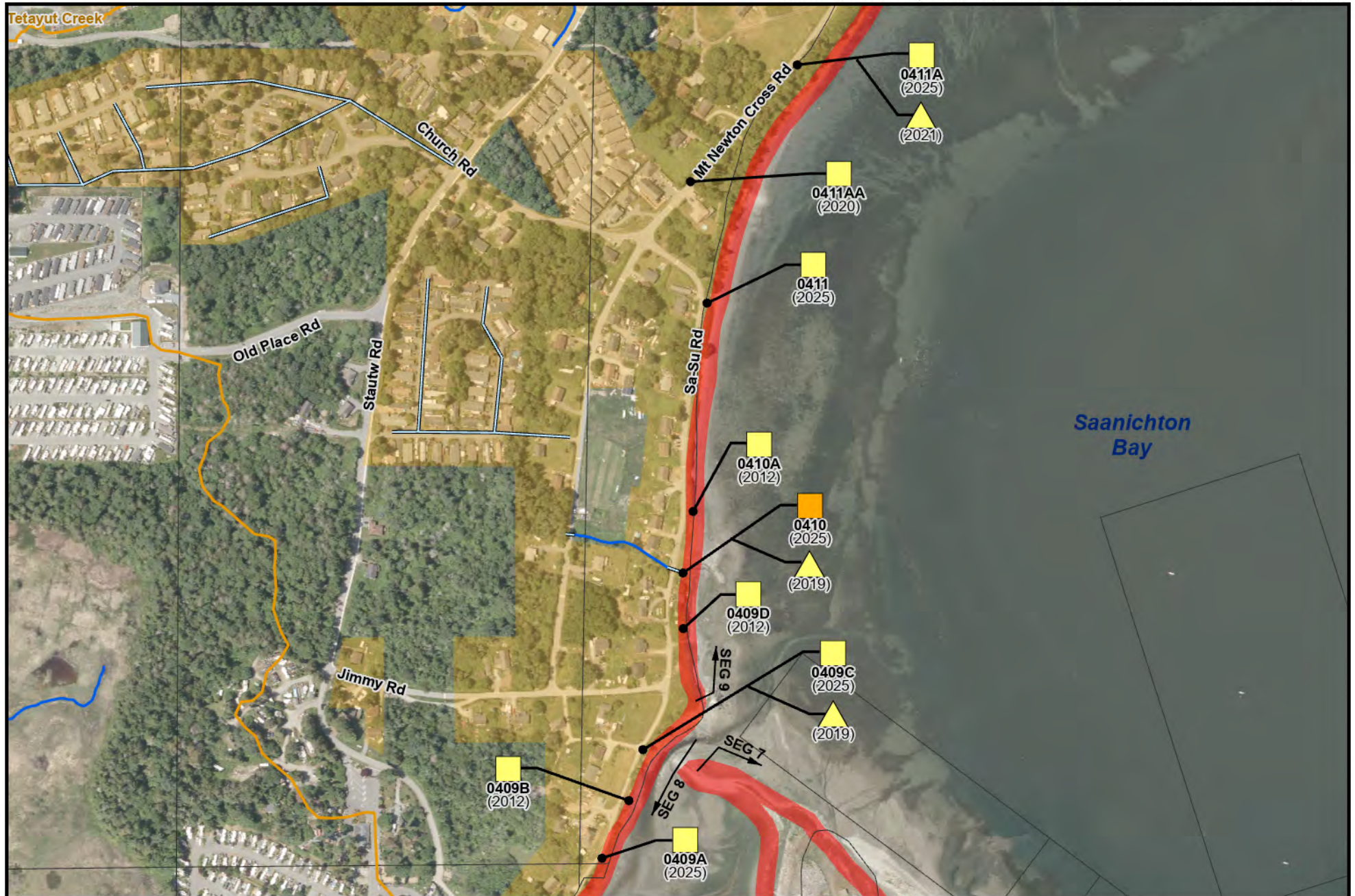


Figure 4
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.





CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1



Figure 6
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

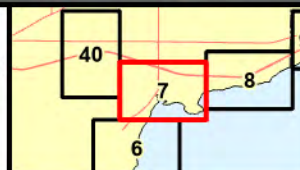
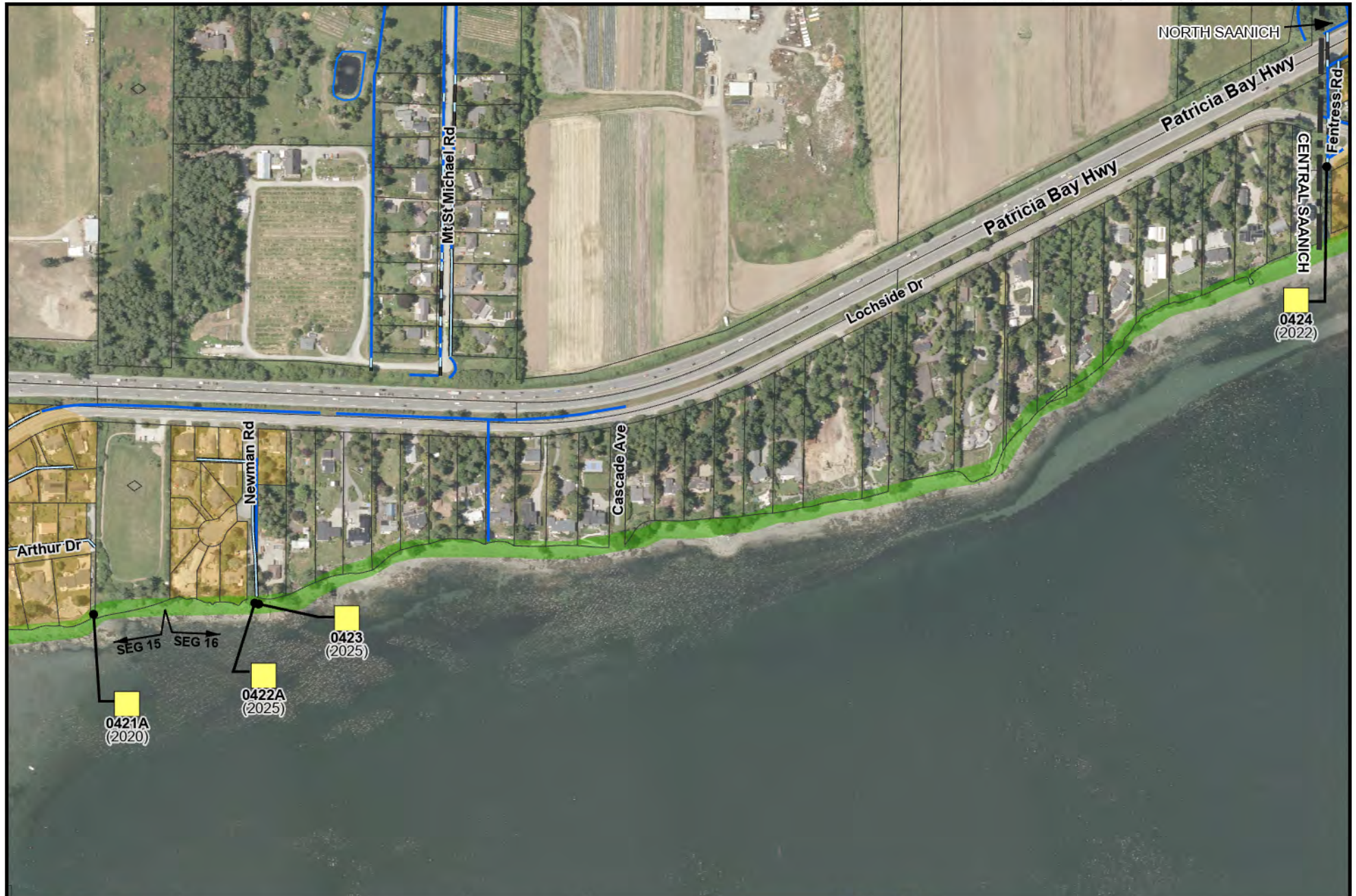


Figure 7
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD **will not be liable** for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

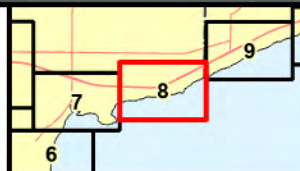


Figure 8
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1



Figure 9
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1



Figure 10
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

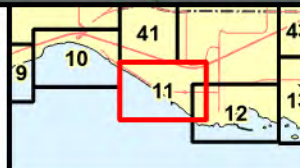


Figure 11
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1



Figure 12
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



For Key Index
and Legend
See Figure 1

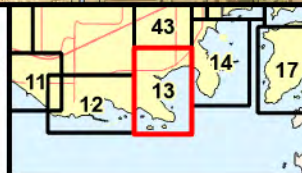


Figure 13
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern



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



For Key Index
and Legend
See Figure 1



Figure 14
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

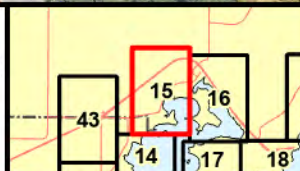


Figure 15
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

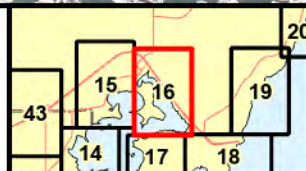


Figure 16
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

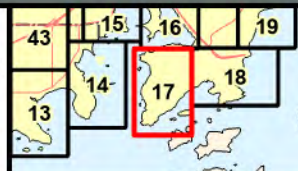


Figure 17
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD **will not be liable** for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

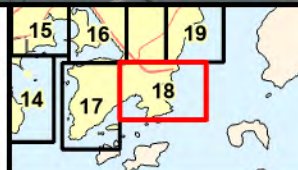


Figure 18
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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

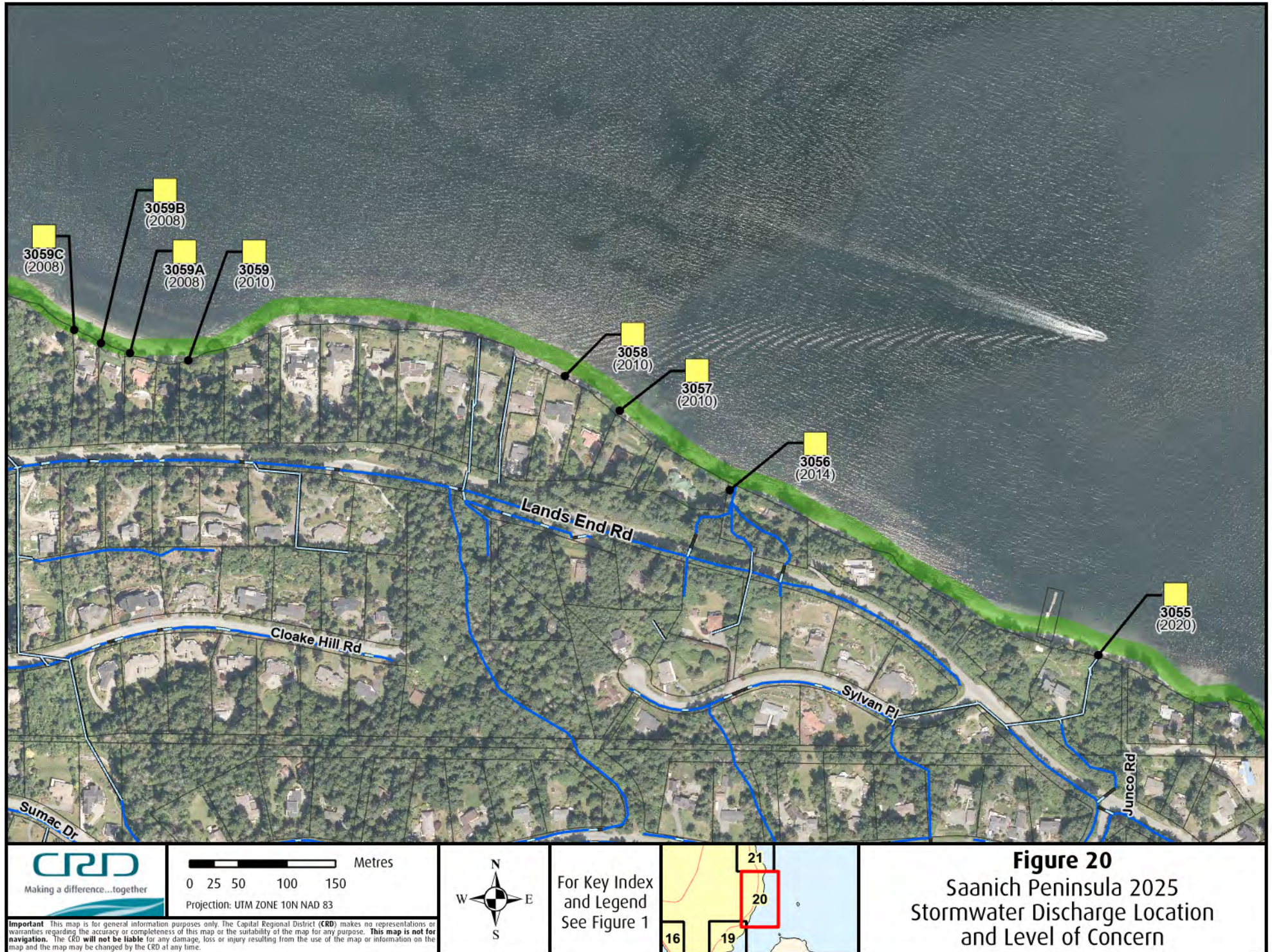


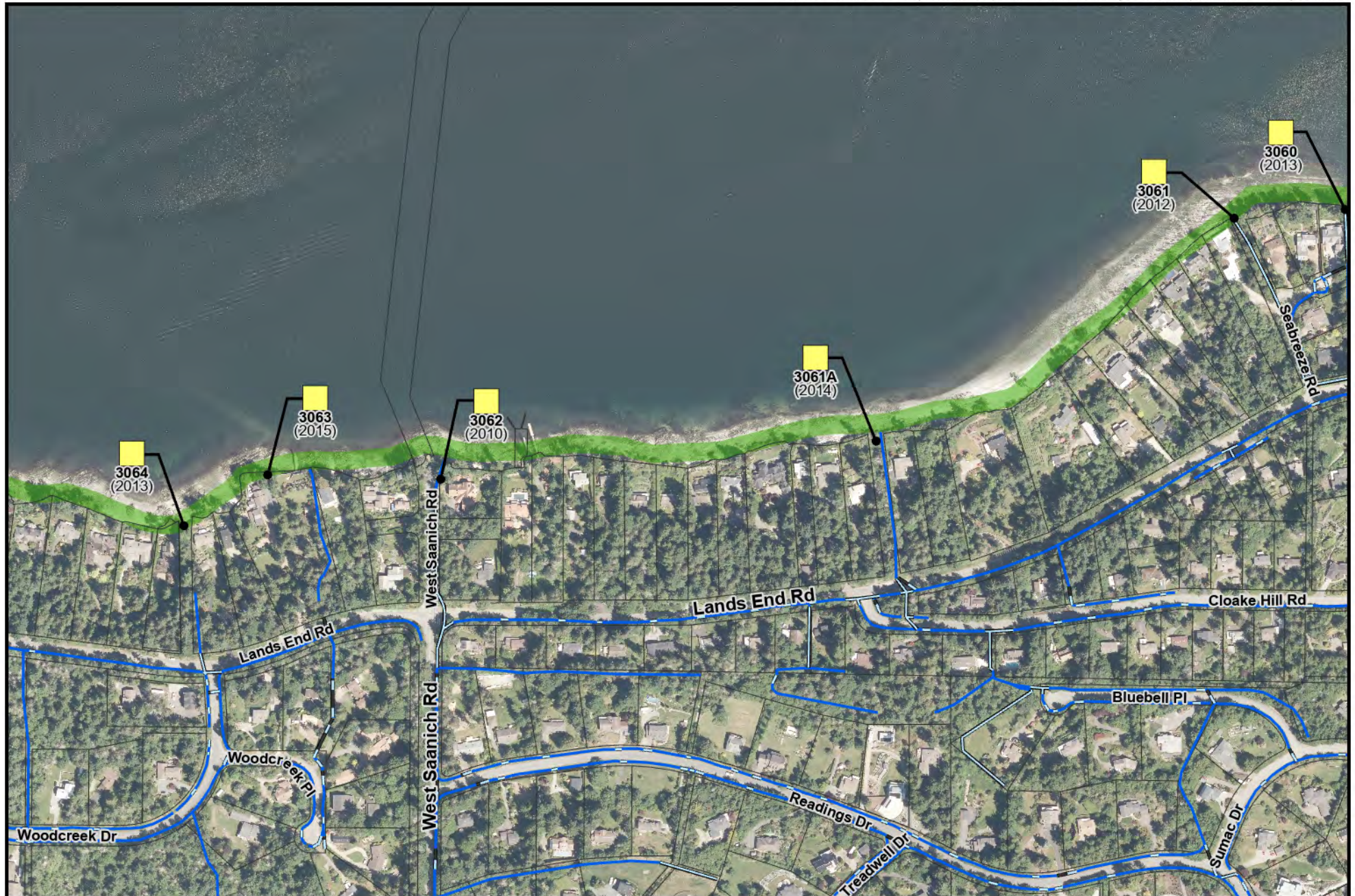
For Key Index
and Legend
See Figure 1



Figure 19
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.





CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

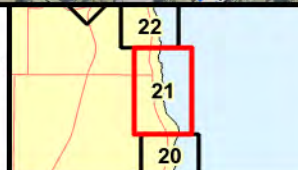
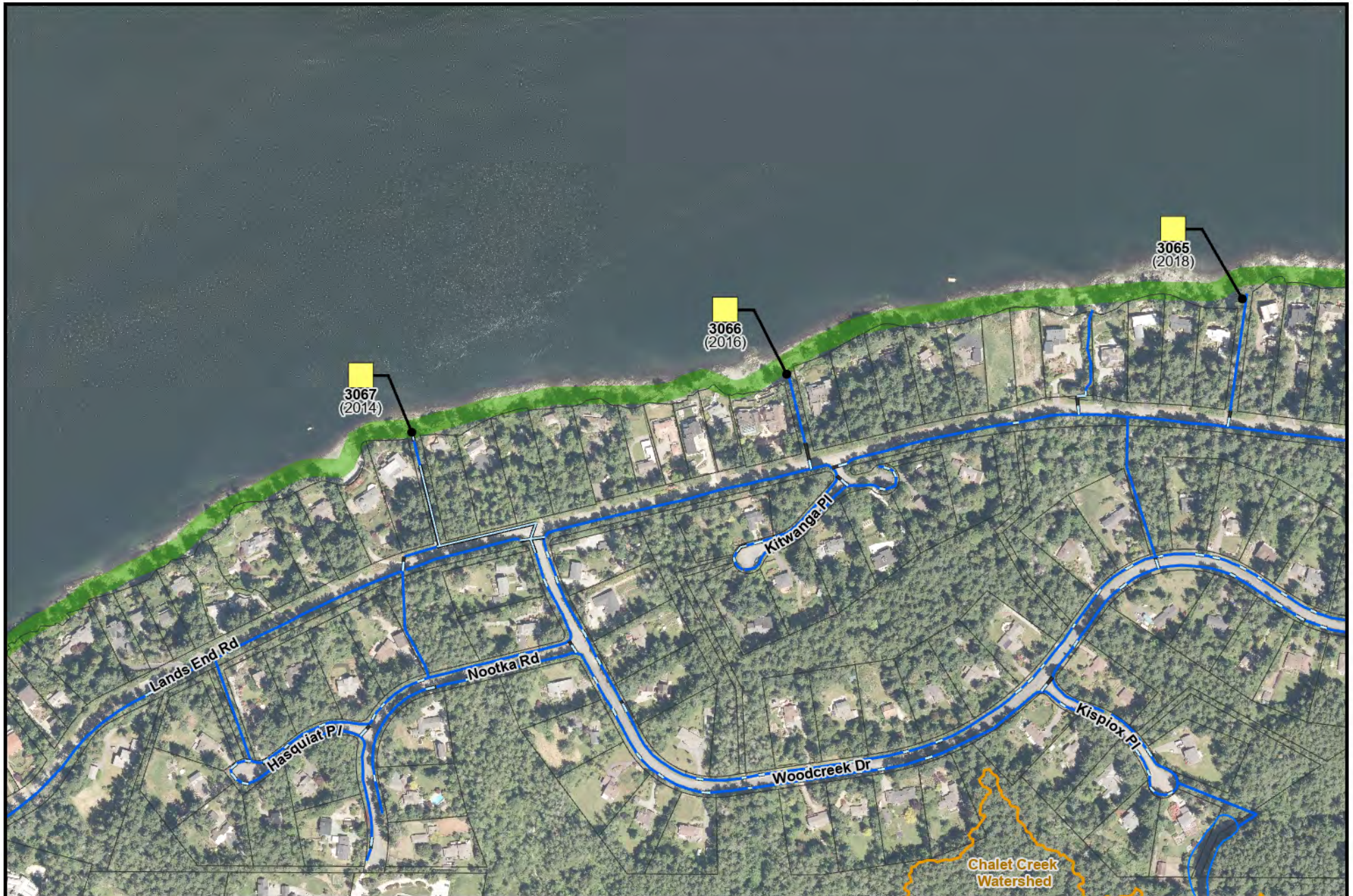


Figure 21
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD **will not be liable** for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

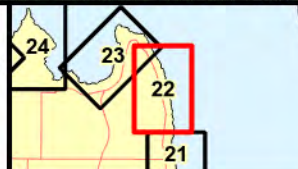


Figure 22
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD **will not be liable** for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

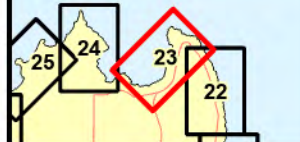
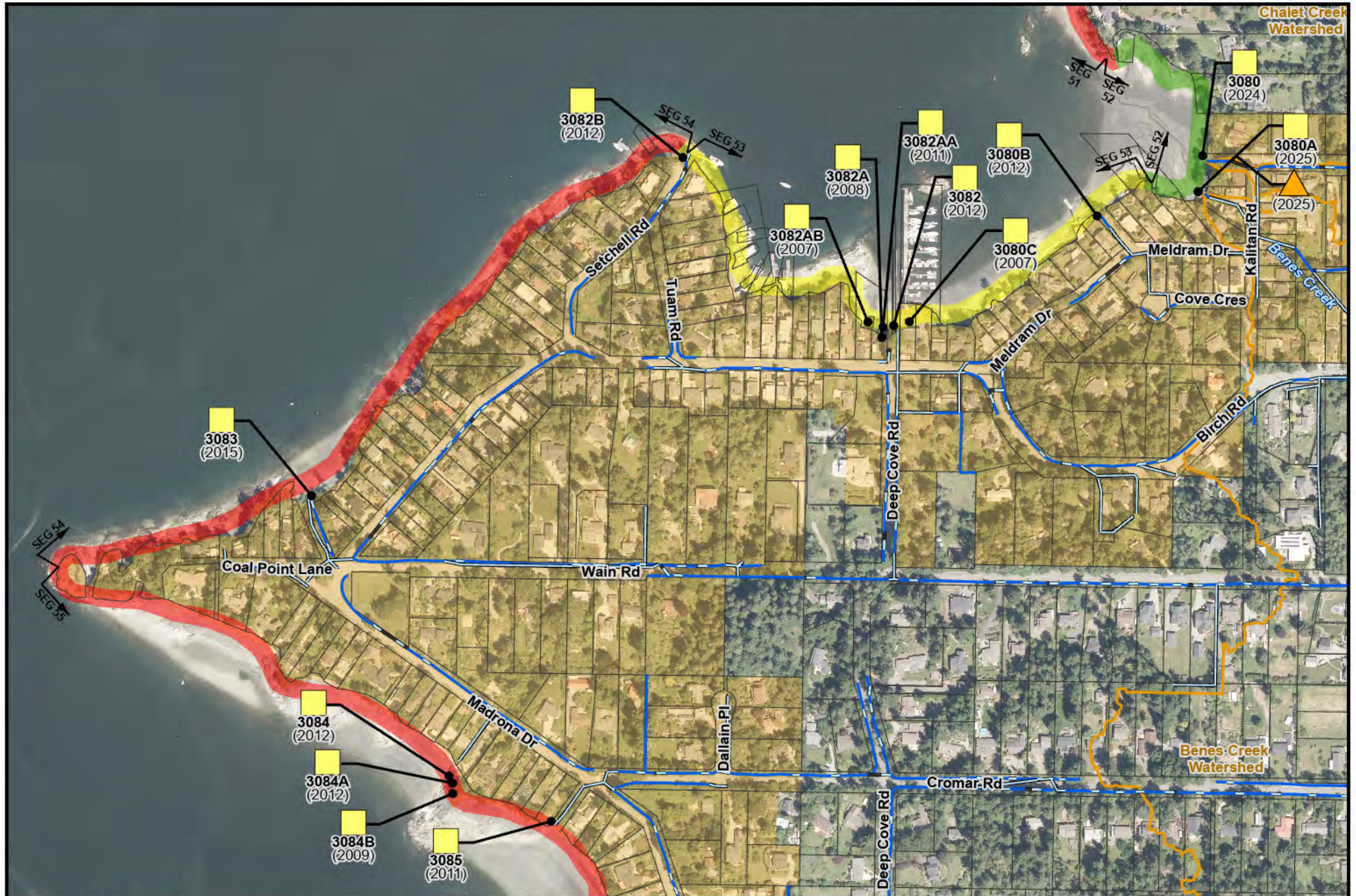


Figure 23
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

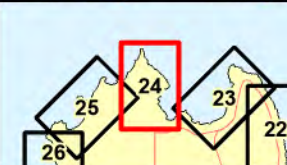


Figure 24
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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

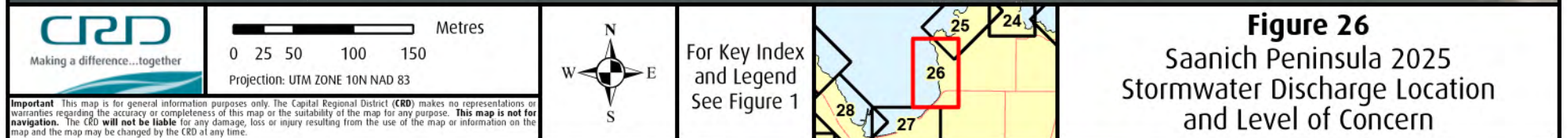


For Key Index
and Legend
See Figure 1



Figure 25
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

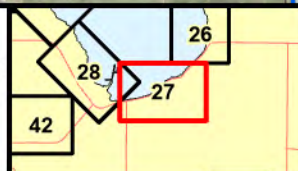


Figure 27
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

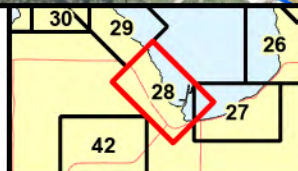


Figure 28
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

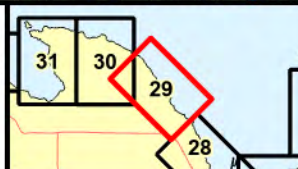
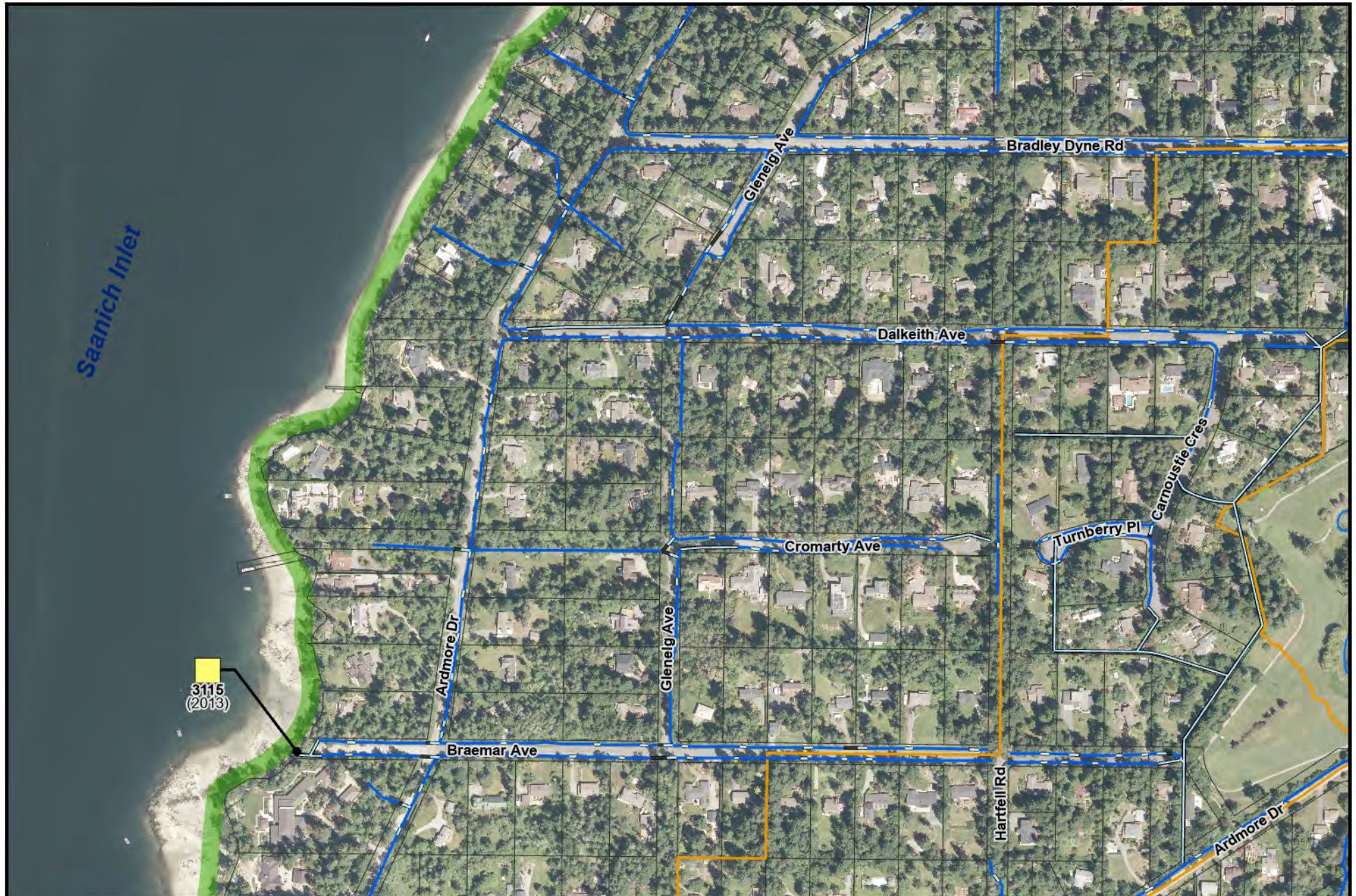


Figure 29
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

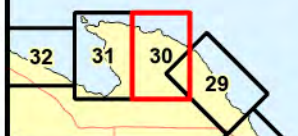


Figure 30
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD **will not be liable** for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

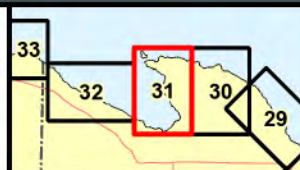


Figure 31
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

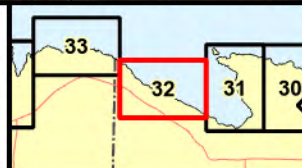
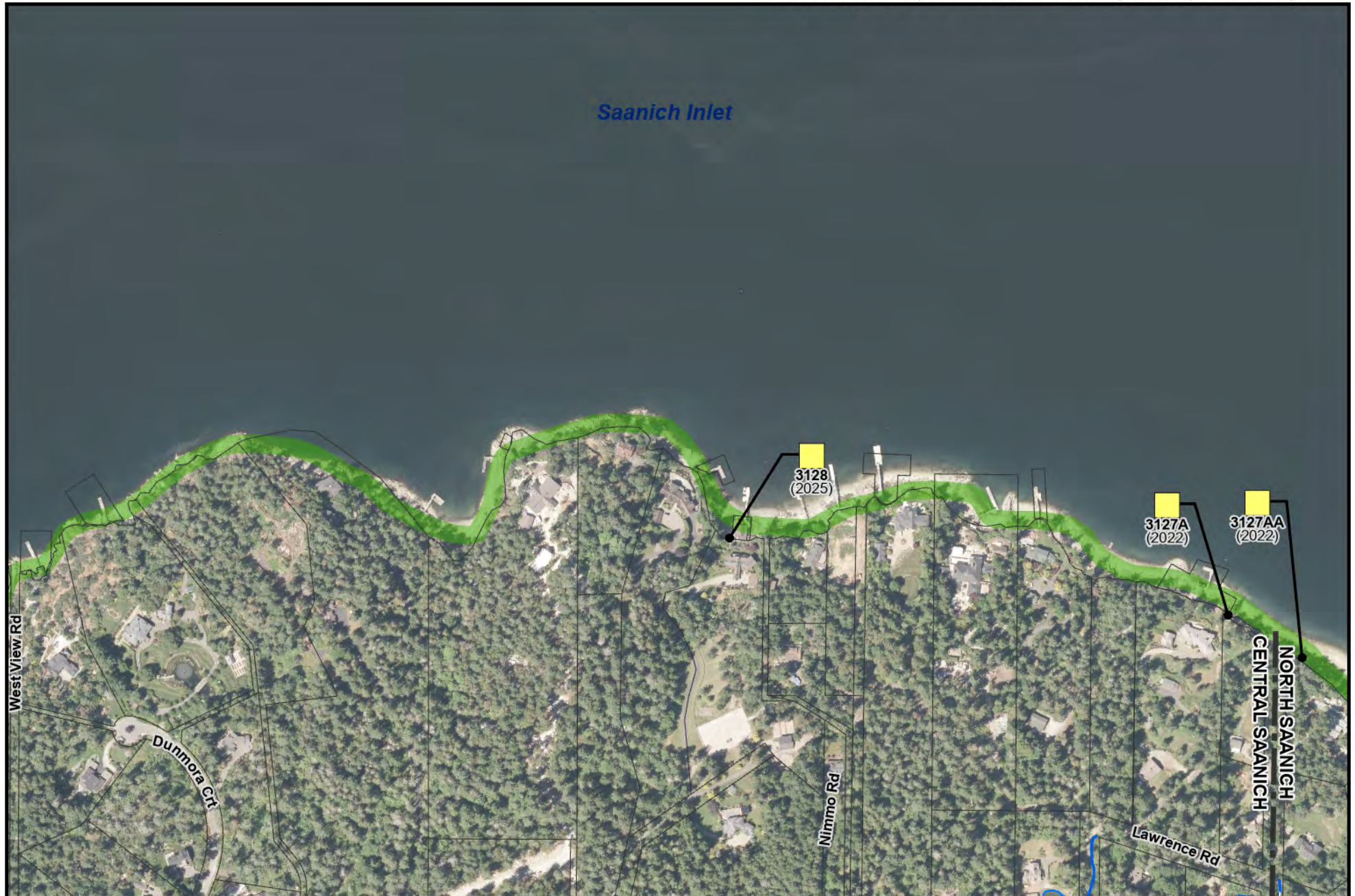


Figure 32
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

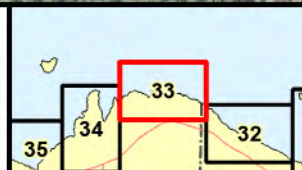


Figure 33
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

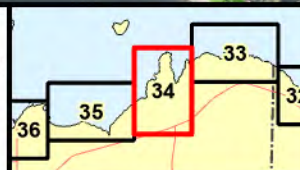
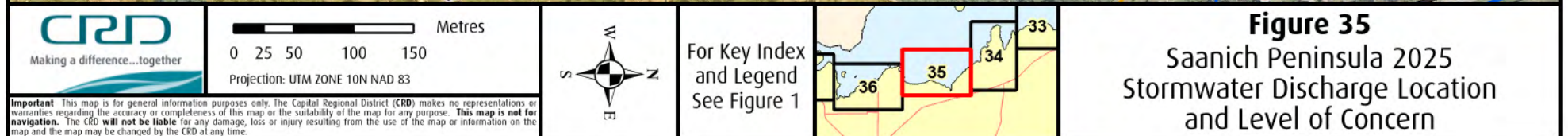


Figure 34
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.





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



For Key Index
and Legend
See Figure 1

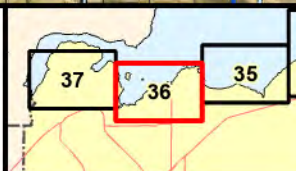
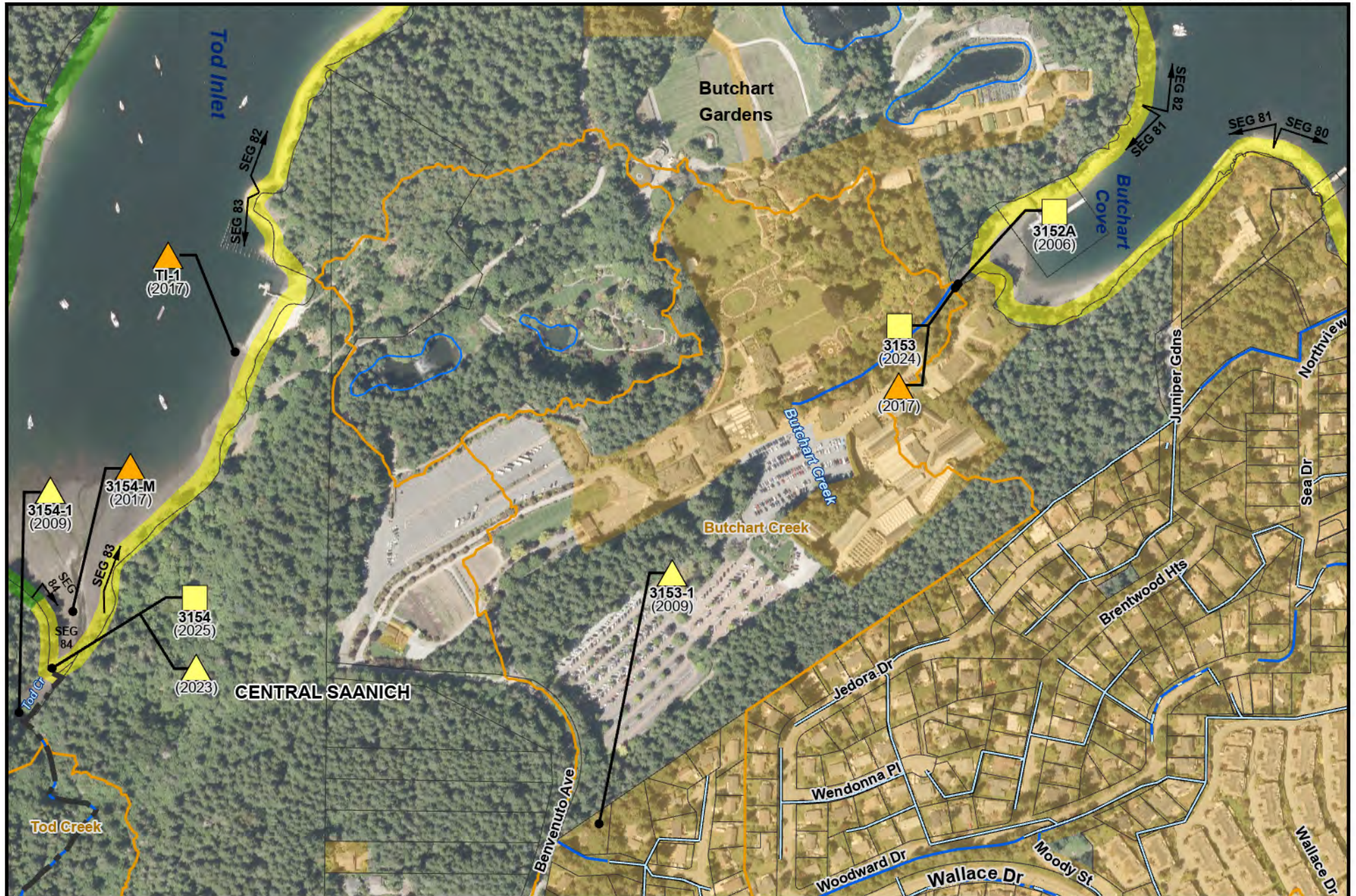


Figure 36
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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

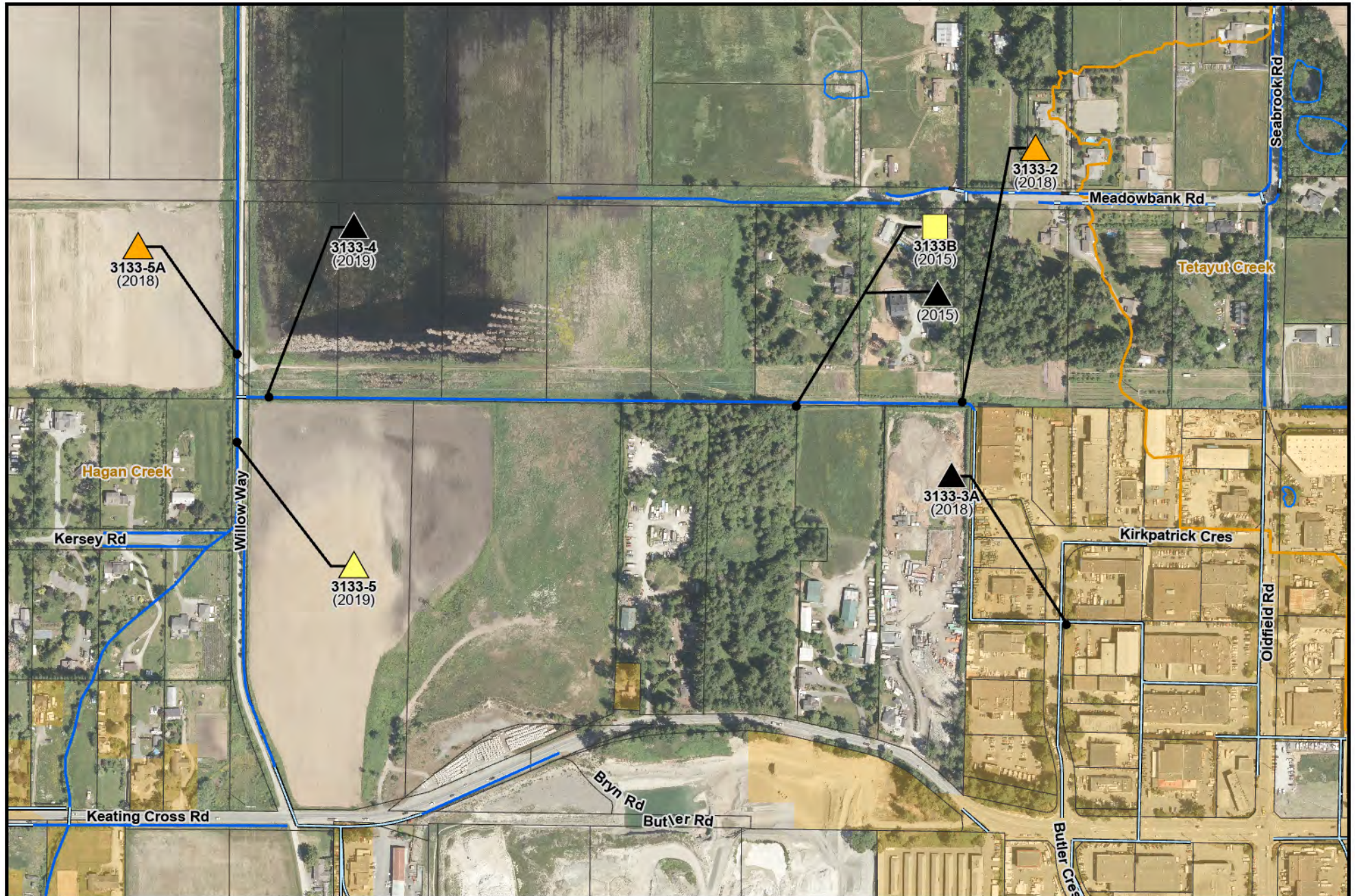


For Key Index
and Legend
See Figure 1



Figure 37
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



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

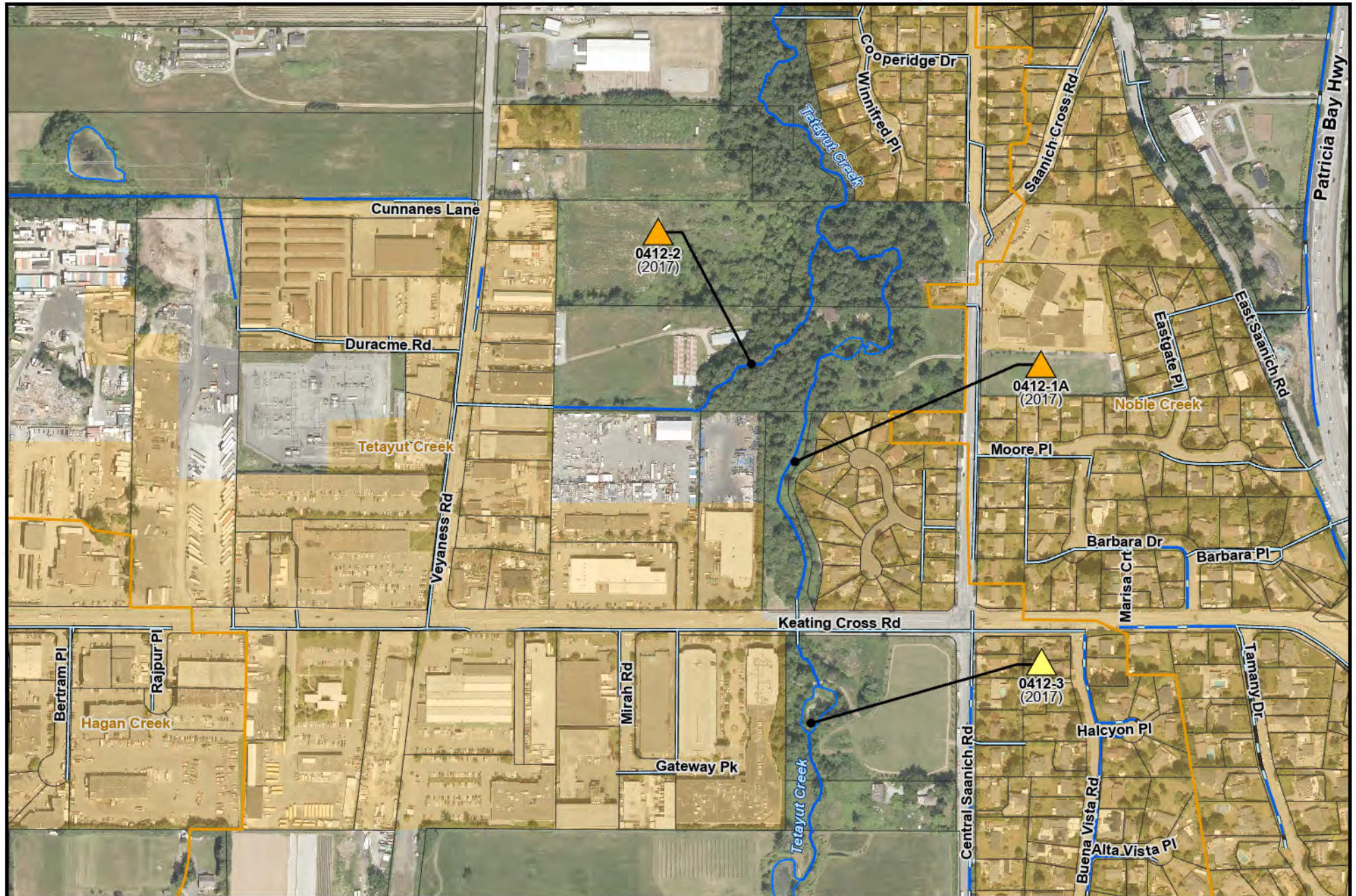


For Key Index
and Legend
See Figure 1



Figure 38
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



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



For Key Index
and Legend
See Figure 1

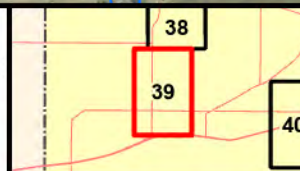
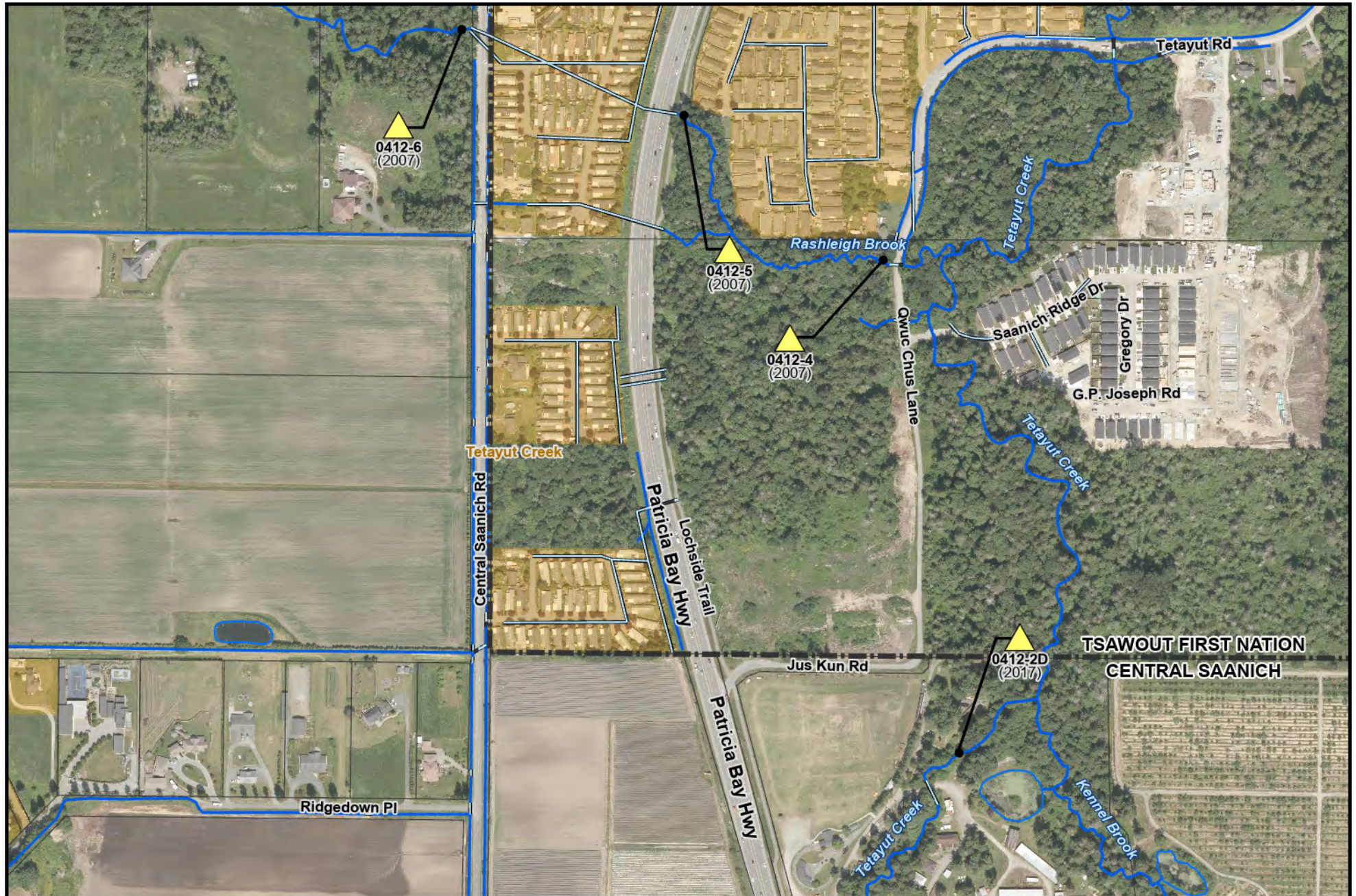


Figure 39
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

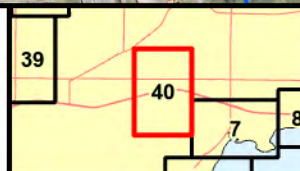
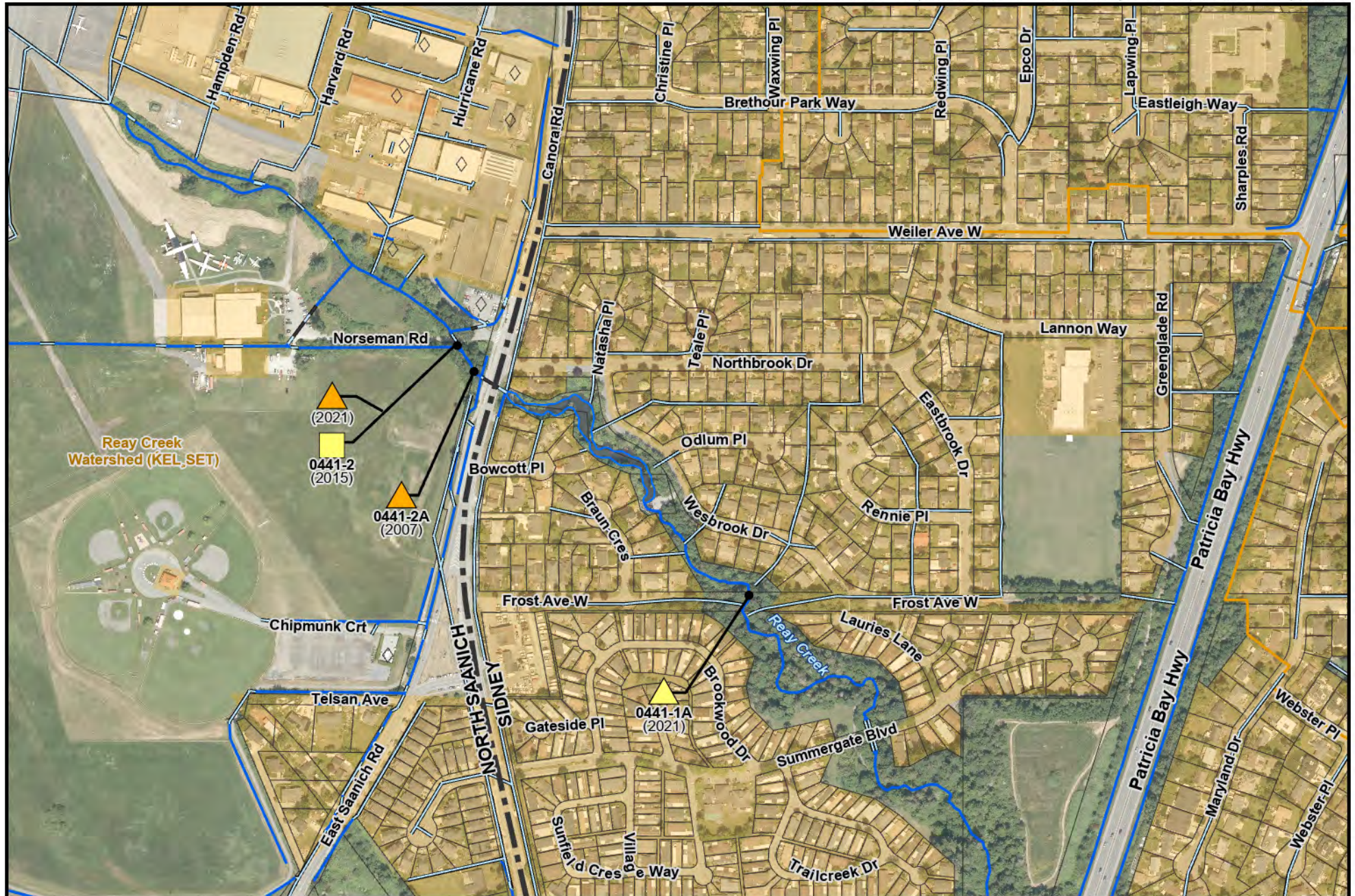


Figure 40
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

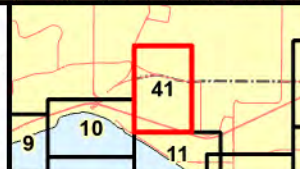
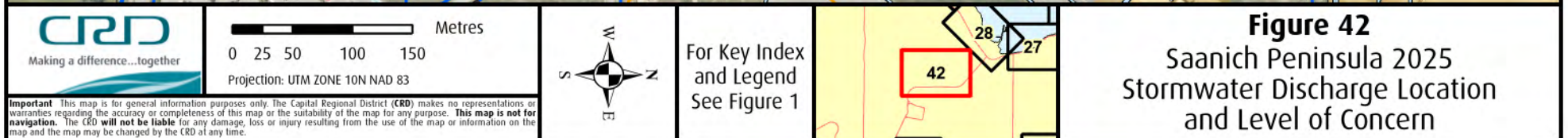


Figure 41
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD **will not be liable** for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.



CRD
Making a difference...together

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



For Key Index
and Legend
See Figure 1

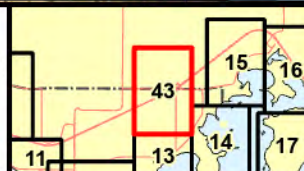


Figure 43
Saanich Peninsula 2025
Stormwater Discharge Location
and Level of Concern

Important This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.

APPENDIX B

BACTERIAL AND FLOW DATA (2023-2025)

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
SW0405	N of Island View beach parking, past trail	2023-04-11		92	>	50	earthy odour, dark amber, no rain prior
		2023-07-05		3000	>	400	swampy odour, amber, no rain prior
		2024-04-08		6		85	sewer odour, dark amber , light rain
		2024-08-28		380		60	no odour, amber, slow flow, recent rain
		2025-05-13		240		0	dry, not sampled, no rain
		2025-08-13		410			no odour, iron oxide bacteria, pooled, no rain
SW0408	across from 2993 SA-SU Rd.	2023-09-25				0	dry, not sampled, light rain prior
		2024-02-29		3500	<	1	no odour, clear, heavy rain yesterday
		2024-05-30					dry, not sampled, recent rain
		2024-08-29				0	dry, not sampled, recent rain
		2025-05-13				0	dry, not sampled, no rain
		2025-08-21				0	dry, not sampled, no rain
SW0409	2991 SA-SU Rd. 40 m west of pump station	2023-01-31		79	<	1	no odour, murky, light rain recent
		2023-09-25				0	dry, not sampled, light rain prior
		2024-02-29				9	no odour, clear, heavier rain yesterday
		2024-08-29				0	dry, not sampled, recent rain
		2025-05-13				0	dry, not sampled, no rain
		2025-08-21				0	dry, not sampled, no rain
SW0409A	below 2801 SA-SU Rd. in bank	2023-01-31	<	1	<	1	no odour, clear, light rain recent
		2023-09-25				0	dry, not sampled, light rain prior
		2024-02-29		250	<	0.01	flow too low, clear, heavier rain yesterday
		2024-08-29				0	dry, not sampled, recent rain
		2025-05-13				0	dry, not sampled, no rain
		2025-08-21				0	dry, not sampled, no rain
SW0409C	2788 SA-SU Rd. Corner of driveway	2025-05-13				0	dry, not sampled, no rain
		2025-08-21				0	dry, not sampled, no rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
SW0410	20 m N of 2764 SA-SU Rd.	2025-05-13		45		2	no odour, murky, no rain
		2025-08-21		500	<	1	no odour, clear, no rain
SW0411	SA-SU Rd. and Mt. Newton X Rd.	2023-01-31		40		11	no odour, murky, light rain recent
		2023-09-25				0	dry, not sampled, light rain prior
		2024-02-29		11		8	no odour, clear, heavier rain yesterday
		2024-08-29				0	dry, not sampled, recent rain
		2025-05-13		52		1	no odour, clear, no rain
		2025-08-21			<	0.01	flow too low to sample, no rain
SW0411A	across from 2721 Mt. Newton X Rd.	2023-01-31		38		10	sewer odour, murky, light rain recent
		2023-09-25				0	dry, not sampled, light rain prior
		2024-02-29		13		12	no odour, clear, heavier rain yesterday
		2024-08-29		2100	<	1	no odour, amber, recent rain
		2025-05-13		4		0	flow too low to sample, no rain
		2025-08-21			<	0.01	flow too low to sample, no rain
SW0411AA	Between church and 2769 Mt Newton Rd	2025-07-21				0	dry, not sampled, no rain
SW0412	Tetayut Creek, d/s of Mure Brook	2023-03-29		160000	>	1200	
		2023-04-11		19000	>	1000	sewer odour, murky, no rain prior
		2023-09-25		650	>	500	no odour, clear, light rain prior
		2024-02-29		800	>	5000	no odour, turbid, heavier rain yesterday
		2024-05-10		47	>	500	no odour, clear, no rain
		2024-08-29		52	>	400	no odour, clear, recent rain
		2025-05-21		90	>	1000	no odour, clear, no rain
		2025-08-21		98	>	2000	no odour, clear, no rain
SW0412-2F	Tetayut Creek, u/s of Mure Brook.	2024-12-04		14	>	1000	no odour, clear, no rain
		2025-05-21		110		1000	no odour, clear, no rain
		2025-08-21		77	>	2000	no odour, clear, no rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
SW0412-8	Mure Brook, u/s of Tetayut Ck.	2024-12-04		22		200	no odour, clear, no rain
		2025-05-21		35		80	no odour, murky, no rain
		2025-08-21		610			no odour, clear, no rain
SW0416	Ferguson Rd. beach access	2024-02-15		11		12	no odour, murky, light rain/snow
		2024-08-08		33		9	no odour, amber, no recent rain, geese on beach
		2025-02-11		6		7	no odour, amber, melting snow
		2025-08-13		750		8	no odour, amber, no rain
SW0421	Arthur Rd. beach access	2023-01-31				0	dry, not sampled, light rain recent
		2023-07-05				0	dry, not sampled, no rain prior
		2024-02-15				0	dry, not sampled, light rain/snow
		2024-08-08				0	dry, not sampled, no recent rain
SW0422A	Foot of Newman Rd., 3 m N of boat house	2025-04-07		48		4	no odour, clear, recent rain
		2025-08-13			<	0.01	flow too low to sample, no rain
SW0423	Foot of Newman Rd., 8 m N of boat house	2025-04-07		46		30	no odour, clear, recent rain
		2025-08-13		52		2	no odour, clear, pulse flow, no rain
SW0426	Wardle Rd. beach access	2023-01-31		50		24	no odour, clear, light rain recent
		2023-07-05		37		8	no odour, clear, no rain prior
		2024-02-15		16		14	no odour, clear, light rain/snow
		2024-08-08		27		4	no odour, clear, no recent rain, geese on beach
		2025-02-11		310		10	no odour, clear, melting snow
		2025-08-13		33		3	no odour, clear, no rain
SW0430AA	Cy Hampton Park, South of picnic tables	2025-04-07		65		15	no odour, clear, recent rain
		2025-08-13				0	dry, not sampled, no rain
SW0430B	40 m N of beach path; Cy Hampton Park	2023-01-31		11		9	no odour, clear, light rain recent
		2023-07-05		430	<	1	no odour, murky, no rain prior
		2024-02-15		3		8	no odour, clear, light rain/snow

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-08-08		420	<	1	no odour, clear, no recent rain
		2025-02-11		2		9	no odour, clear, melting snow
		2025-08-13		3200	<	1	no odour, clear, no rain
SW0432	Foot of Bazan Bay Rd.	2023-01-31		260		80	earthy odour, murky, light rain recent
		2023-07-05		32		32	no odour, clear, no rain prior
		2023-07-05		14		50	no odour, clear, no rain prior
		2024-02-15		31		80	no odour, clear, light rain/snow
		2024-08-08		16		70	no odour, clear, no recent rain
		2025-02-11		76		80	no odour, clear, melting snow
		2025-08-13		60		12	no odour, clear, no rain
SW0435	NE property line of 9165 Lochside Dr.	2024-04-30		5		28	no odour, clear, rain earlier in day
		2024-08-08		340	>	90	no odour, clear, no recent rain, geese on beach
		2025-02-11		10		80	no odour, clear, melting snow
		2025-08-13		340		80	no odour, clear, no rain
SW0437	9211 Lochside Dr. right of way	2025-02-11	<	1		3	no odour, clear, melting snow
		2025-08-13				0	dry, not sampled, no rain
SW0441	Reay Creek, beach access; 9265 Lochside	2023-03-29		10	>	300	
		2023-07-05		64	>	250	low tide odour, clear, very low tide, no rain prior
		2024-04-30		23	>	500	no odour, murky, rain earlier in day
		2024-08-08		710	>	200	tidal/sewer odour, murky, no recent rain, geese
		2025-08-21		350	>	200	no odour, clear, no rain
		2025-11-26		45		350	no odour, murky, rain
SW0442	9334 Lochside Dr. beach access	2025-04-07		340		1	no odour, murky, recent rain
		2025-09-15				0.01	flow too low to sample, no rain
SW0443	9348 Lochside Dr.	2025-04-07			<	0.01	flow too low to sample, recent rain
		2025-09-15				0.01	flow too low to sample, no rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
SW0444	across from 9360 Lochside Dr.	2023-01-31		5		4	no odour, clear, light rain recent
		2023-07-06				0	dry, not sampled, no rain prior
		2024-02-15		3		6	no odour, clear, light rain/snow
		2024-08-08		46	<	1	no odour, clear, no recent rain
		2025-02-12		1		3	no odour, clear, melting snow
		2025-09-15		310		6	no odour, amber, no rain
		2025-09-23			<	0.01	flow too low to sample. no rain
SW0444A	12m south of steps; 9388 Lochside Dr.	2023-01-31		9	<	1	no odour, clear, light rain recent
		2023-07-06				0	dry, not sampled, no rain prior
		2024-02-15		1	<	1	no odour, clear, light rain/snow
		2024-08-08				0	dry, not sampled, no recent rain
		2025-02-12			<	0.01	flow too low to sample, melting snow
		2025-08-15		17000		6	creosote odour, amber, no rain
		2025-09-23				0	dry, not sampled, no rain
SW0446	south of beach access; 9462 Lochside Dr.	2023-01-20	<	1		5	no odour, clear, light rain 2 days ago
		2023-07-06				0	dry, not sampled, no rain prior
		2024-02-15		7		8	no odour, clear, light rain/snow
		2024-08-08		15	<	1	no odour, clear, no recent rain
		2025-02-12		1		3	no odour, clear, melting snow
		2025-08-15		49		7	no odour, amber, no rain
SW0447	across from 9498 Lochside Dr.	2023-01-20		4400		9	sewer odour, clear, light rain 2 days ago
		2023-07-06			<	0.01	flow too low to sample, no rain prior
		2024-01-16		7000		4	no odour, amber , no rain previous
		2024-02-15		210		7	no odour, clear, light rain/snow
		2024-08-08		33		2	no odour, clear, no recent rain
		2025-01-15		54		7	no odour, clear, light rain prior

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2025-08-15		700		10	no odour, amber, no rain
		2026-01-07		230		40	earthy odour, murky, rain
SW0448	Foot of Weiller Rd., Tulista Park	2023-01-20		10		6	no odour, clear, light rain 2 days ago
		2023-07-06			<	0.01	flow too low to sample, no rain prior
		2024-02-15		3		5	no odour, clear, light rain/snow
		2024-08-08		59		4	no odour, clear, no recent rain
		2025-01-15	<	2		4	no odour, amber, light rain prior
		2025-08-15		520		10	creosote odour, amber, no rain
SW0449	ditch west and south side of Tulista Park	2023-03-29		2		12	
		2023-07-06		250		8	no odour, clear, no rain prior
		2024-02-15		6		35	no odour, murky, light rain/snow
		2024-08-08		210		8	no odour, amber, no recent rain
		2025-01-15	<	2		20	no odour, amber, light rain prior
		2025-08-15		3100	>	250	no odour, amber/brown, no rain
		2025-09-23		610		6	sewer odour, murky, no rain
SW0449A	Manhole at Oakville and Eighth St.	2023-03-29		8			
		2023-09-25		1500		10	no odour, clear, pooled flow, light rain prior
		2024-02-15		27		20	no odour, clear, light rain/snow
		2024-08-08		180			no odour, no recent rain, couldn't estimate flow
		2025-01-15		10			no odour, clear, light rain prior, pooled
		2025-08-20		23			no odour, clear, pooled with flow, no rain
SW0450	below Ocean Ave. and Second St.	2023-03-29		17		10	
		2023-07-06		2400		7	no odour, amber. no rain prior
		2024-02-15		7300		30	no odour, murky, otter scat u/s, light rain/snow
		2024-08-08		120000		1	no odour, clear, no recent rain
		2024-08-26		5800		24	no odour, clear, recent rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2025-01-15		720		10	no odour, clear, light rain prior
		2025-08-15		8600	>	250	no odour, amber/brown, no rain
SW0457	N end of Eastview Park, S of gov. dock	2025-08-15			<	0.01	flow too low to sample, no rain
SW0458A	end of Seaport Rd., west side of pub	2025-08-15		330		2	no odour, amber, no rain
SW0459	9901-3rd St. parking, S of beach access	2023-04-12		3		7	no odour, clear, no rain prior
		2023-07-06		50		2	no odour, amber. no rain prior
		2024-02-15		2		7	no odour, clear, light rain/snow
		2024-08-27		350		7	no odour, amber, recent rain
		2025-01-15	<	2		5	no odour, clear, light rain prior
		2025-08-15		5000		20	no odour, amber/brown, sudsy, no rain
		2025-09-23		52	<	1	no odour, clear, no rain
SW0472	beach access; Surfside Place	2023-07-06				0	dry, not sampled, no rain prior
		2024-08-27			<	0.01	flow too low to sample, recent rain
SW3001	access at 10232 Somerset Pl	2025-02-12	<	1	<	1	no odour, clear, melting snow
		2025-08-20				0	dry, not sampled, no rain
SW3002	Robert's Bay beach access at Third St.	2024-03-20			<	0.01	flow too low to sample, no recent rain
		2024-08-27				3	dry, not sampled, recent rain
SW3003	Roberts Bay beach access at Third St.	2022-03-14		25		4	no odour, clear, no rain
		2022-07-11		52		1	no odour, clear, no rain
		2023-01-20		130		6	no odour, clear, light rain two days ago
		2023-07-06		200		2	no odour, amber. no rain prior
		2024-03-20		2		4	no odour, clear, no recent rain
		2024-08-27		80		0	no odour, clear, recent rain
		2025-02-12	<	1		2	no odour, clear, melting snow
		2025-08-15		370		10	no odour, amber, no rain
SW3003A	Foot of Third St., 5 m west of bottom of stairs	2024-03-20	<	1		1	no odour, clear, no recent rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date	E. Coli	Flow Rate	Sample Comment
			CFU/100 mL	L/min	
		2024-08-27	37	6	no odour, clear, recent rain
		2025-02-12		< 0.01	flow too low to sample, no rain
		2025-08-20	1	1	no odour, clear, no rain
SW3005	Foot of Fifth St., Mermaid Creek	2023-04-12	14	65	no odour, clear, no rain prior
		2023-07-06	98	25	no odour, slight amber, no rain prior
		2024-05-06	99	> 250	no odour, slightly amber, recent rain
		2024-08-27	380	> 100	no odour, clear, recent rain
		2025-08-20	260	20	no odour, clear, pooled with flow, no rain
SW3005-1A	MH in front of 1021 Resthaven Dr.	2023-04-12	4	20	no odour, clear, no rain prior
		2023-07-06	110	5	no odour, clear, no rain prior
		2024-05-06	27	20	no odour, clear, recent rain
		2024-08-27	360	10	no odour, clear, recent rain
SW3005-2A	sidewalk MH at 2356/2362 Malaview Ave	2023-04-12	16	15	no odour, clear, no rain prior
		2024-05-06	9	4	no odour, clear, recent rain
		2024-08-27	350	20	no odour, clear, recent rain
SW3005-4	MH; middle of Amelia Ave/Fifth St.	2023-04-12	20	40	no odour, clear, no rain prior
		2023-07-06	400	20	no odour, slight amber, no rain prior
		2024-08-27	160	90	no odour, clear, recent rain
SW3006	Foot of Ardwell Ave.	2023-01-20	7	9	no odour, clear, light rain two days ago
		2023-07-06	12000	2	no odour, amber, no rain prior
		2024-03-20	3	10	no odour, clear, no recent rain
		2024-08-27	240	4	no odour, clear, recent rain
		2025-02-12	8	10	no odour, clear, melting snow
		2025-08-15	380	80	no odour, amber, no rain
SW3007	foot of Bowden, W of beach access	2023-01-27	5	5	laundry odour, suds when agitated, rain recent
		2023-07-06	420	1	laundry odour, blue flow, sudsy, no rain prior

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-03-20		5		5	laundry soap odour, clear, no recent rain
		2024-08-27		130		5	slight laundry odour, clear, recent rain
		2025-02-12		320		5	laundry odour, clear, melting snow
		2025-08-15		16000		6	no odour, amber, no rain
		2025-09-23		2	<	1	no odour, clear, no rain
SW3008	Foot of Bowden, W of beach access	2025-02-12				0	dry, not sampled, melting snow
		2025-08-15				0	dry, not sampled, no recent rain
SW3008A	south side of 10465 Allbay Rd.	2025-05-12				0	dry, not sampled, no rain
		2025-08-15			<	0.01	flow too low to sample, no rain
SW3009	Foot of Allbay Rd., near bedrock outcrop	2023-01-27	<	1		1	slight burnt odour, clear, rain recent
		2023-07-06				0	dry, not sampled, no rain prior
SW3011A	100 m N of Griffith Rd., below H. Louwerse	2024-03-20			<	0.01	flow too low to sample, no recent rain
		2024-08-27				0	dry, not sampled, recent rain
SW3012	Foot of Griffith near Blue Peter Pub, riprap	2023-01-27	<	1		7	slight odour of diesel, clear, rain recent
		2023-07-06				0	dry, not sampled, no rain prior
		2024-03-20			<	0.01	flow too low to sample, no recent rain
		2024-08-27				0	dry, not sampled, recent rain
SW3013	Foot of Griffith near Blue Peter Pub	2023-01-27			<	0.01	flow too low to sample, rain recent
		2023-07-06				0	dry, not sampled, no rain prior
		2024-03-20			<	0.01	flow too low to sample, no recent rain
		2024-08-27			<	0.01	flow too low to sample, recent rain
SW3014	East pipe, DFO Small Craft Branch wharf	2023-01-27		7		3	slight sewer odour, clear, rain recent
		2023-07-06		3	<	1	no odour, slight amber. no rain prior
		2024-04-08		58		2	no odour, clear, light rain
		2024-08-27		17		3	no odour, clear, recent rain
SW3015	western pipe, east of DFO wharf	2023-01-27		2		4	sewer odour, clear, rain recent

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2023-07-06		2700	<	1	no odour, slight amber. no rain prior
		2024-04-08		1		3	no odour, clear, light rain
		2024-08-27		1900		6	no odour, clear, recent rain
		2025-05-12		9400		2	no odour, clear, no rain
		2025-08-20		44		1	no odour, clear, evidence of otter activity, no rain
SW3016	behind 10462 Resthaven Rd.	2023-01-27		4000		30	no odour, clear, rain recent
		2023-07-12		7700		2	flow too low to sample, no rain prior
		2024-05-06		290		50	no odour, clear, recent rain
		2024-06-05		81000		30	no odour, clear, recent rain
		2024-08-27		3500		30	no odour, clear, recent rain
		2025-05-12		3200		10	no odour, clear, no rain
		2025-08-20		46000		6	no odour, clear, no rain
SW3020	Blue Heron Rd, NE pipe	2023-04-11		80		9	no odour, clear, no rain prior
		2023-07-12		290		4	no odour, clear, no rain prior
		2024-04-08		3		8	no odour, clear, light rain
		2024-08-27		1800		7	no odour, clear, recent rain
		2025-05-12		37		6	no odour, clear, no rain
		2025-08-20		12		4	no odour, clear, no rain
SW3020A	Blue Heron Rd, SW pipe	2023-04-11		2		4	no odour, clear, no rain prior
		2023-07-12		14		3	no odour, clear, no rain prior no odour, clear, no rain prior
		2024-04-08	<	1		6	no odour, clear, light rain
		2024-08-27		46		4	no odour, clear, recent rain
SW3021A	1835 Marina Drv, SW corner of N Saanich Marina	2023-04-13		2		5	no odour, clear, no rain prior
		2023-07-12		58		3	no odour, clear, no rain prior
		2024-05-06		9		7	no odour, slightly amber, recent rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-08-27		3200		2	no odour, clear, recent rain
		2025-05-12		4		7	no odour, clear, no rain
		2025-08-20		350		2	no odour, clear, no rain
SW3028	McDonald Park Rd. & Highway	2025-05-12		20		8	no odour, clear, no rain
		2025-08-20		14		2	no odour, clear, no rain
		2025-09-23		15		1	no odour, clear, no rain
SW3028A	McDonald Park Rd. & HWY, metal pipe	2025-08-20		23		6	
		2025-09-23		6		2	no odour, murky brown with foam, no rain
SW3029	McDonald Park Rd. & HWY, N of pillar	2025-05-12		16		14	no odour, clear, no rain
		2025-08-20				0	dry, not sampled, no rain
		2025-09-23				0	dry, not sampled, no rain
SW3030	200m N of pedestrian overpass	2023-04-13			<	0.01	flow too low to sample, no rain prior
		2023-07-12				0	dry, not sampled, no rain prior
SW3031	200m N of overpass; McDonald Park Rd.	2025-05-12			<	0.01	flow too low to sample, no rain
		2025-08-20			<	0.01	flow too low to sample, no rain
SW3032	Lands End Road signage; Pat Bay HWY	2025-05-12		1		1	no odour, clear, no rain
		2025-08-20			<	0.01	flow too low to sample, no rain
SW3034	Foot of Swartz Bay Rd. near highway	2025-05-12			<	0.01	flow too low to sample, no rain
		2025-08-20			<	0.01	flow too low to sample, no rain
SW3034A	Cedar Grove Marina, under sales office	2023-04-13			<	0.01	flow too low to sample, no rain prior
		2023-07-12				0	dry, not sampled, no rain prior
		2024-05-09			<	0.01	flow too low to sample, no rain
		2024-08-27				0	dry. not sampled, recent rain
SW3035A	Westport Yacht Sales Office	2023-04-13				0	dry, not sampled, no rain prior
		2023-07-12				0	dry, not sampled, no rain prior
		2024-04-17			<	0.01	flow too low to sample, no recent rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-08-27			<	0.01	flow too low to sample, recent rain
SW3051	40m W of large dock; Shearwater access	2024-04-17		1		9	no odour, slight amber, no recent rain
		2024-08-27		770		9	no odour, clear, erosion exposing residential dump site, recent rain
		2025-02-18		43		100	no odour, clear, prior rain
		2025-08-20		31		3	no odour, clear, no rain
SW3051A	55m W of large dock; Shearwater access	2023-05-08	<	1		6	no odour, clear, rain in past two days
		2023-05-10	<	1		4	no odour, clear, no rain prior
		2023-07-12		91		1	no odour, clear, no rain prior
		2024-04-17	<	1		7	no odour, clear, no recent rain
		2024-08-27		54		2	no odour, clear, algae in channel, recent rain
SW3077	50 m W of beach access at Tatlow Road	2023-04-13		1300		6	no odour, murky brown, rain during sample collection
		2023-07-07		3000		1	no odour, clear. no rain prior
		2024-05-09		49		2	no odour, clear, no rain
		2024-08-29		21	<	1	no odour, clear, recent rain
		2025-02-18		2300		7	no odour, clear, prior rain
		2025-08-21		31	<	1	no odour, clear, no rain
		2025-09-04		5900	<	1	no odour, clear, no rain
SW3078	beach access at foot of Tatlow Road	2024-02-21		14000		18	slight sewer odour, murky, misty rain
		2024-05-30		11		2	no odour, clear, recent rain
		2024-08-29		3200	<	1	no odour, clear, recent rain
		2025-02-18		28		5	no odour, slightly amber, prior rain
		2025-08-21				0	dry, not sampled, no rain
SW3078A	Beach access; Tatlow Road	2023-04-13		3700		5	slight sewer odour, murky, rain during sample collection
		2023-07-07			<	0.01	flow too low to sample, no rain prior

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-02-21		8000		10	sewer odour, murky brown, misty rain
		2024-05-30		53		3	no odour, clear, recent rain
		2024-08-29		34	<	1	slight sewer odour, murky brown, recent rain
		2025-02-18		2500		2	slight sewer odour, slightly amber, prior rain
		2025-08-21				0	dry, not sampled, no rain
SW3078B	Tatlow Rd, N of Tatlow creek in rock wall	2023-04-13				0	dry, not sampled, no recent rain
		2023-09-27				0	dry, not sampled, recent rain
SW3079	Tatlow Creek; access at Tatlow Road	2023-02-03		21	>	200	no odour, clear, light rain recent
		2023-04-13		23	>	400	no odour, clear, rain during sample collection
		2023-07-07		400		34	no odour, clear. no rain prior
		2024-02-21		400	>	1000	earthy odour, turbid brown, misty rain
		2024-08-30		57		200	no odour, clear, recent rain
		2025-02-18		37	>	2000	no odour, slightly amber, prior rain
		2025-08-21		98		50	no odour, clear, no rain
SW3080A	Bennes Creek, 10992 Kalitan Rd.	2023-02-03		6		45	no odour, clear, light rain recent
		2023-07-07		30		8	no odour, clear, no rain prior
		2024-02-21				9	no odour, turbid, misty rain , u/s investigation (695 Birch Rd)
		2024-02-21				7	no odour, turbid, misty rain , u/s investigation (701 Birch Rd)
		2024-02-21		210	>	80	no odour, slightly turbid, misty rain , upstream investigation
		2024-08-26		330		8	no odour, clear, recent rain
		2025-02-18		77	>	200	no odour, slightly amber, prior rain
		2025-08-21		87		5	no odour, clear, no rain
SW3080B	568 Meldram Drv., pipe in ditch	2024-02-21		21		6	no odour, slightly amber, misty rain
		2024-08-26		23		4	no odour, clear, recent rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
SW3082	west side of Deep Cove Marina	2024-02-21		33		16	no odour, slightly amber, misty rain
		2024-08-26		64		6	no odour, clear, recent rain
SW3084	150 m N of Cromar Road	2024-03-01		37		8	no odour, clear, recent rain
		2024-08-26			<	0.01	flow too low to sample, recent rain
SW3085	beach access at Cromar Road, 2 m N	2023-05-08		9		4	no odour, clear, rain in past two days
		2024-02-21		38		18	no odour, slightly amber, misty rain
		2024-08-26		47		2	no odour, clear, recent rain
SW3087	south of stairs at Towner beach access	2023-02-03		35		12	no odour, clear, light rain recent
		2023-07-07		90		3	no odour, clear, no rain prior
		2024-02-21		330		16	no odour, slightly amber, misty rain
		2024-08-26		350		2	no odour, clear, recent rain
		2025-02-18		68		16	no odour, slightly amber, prior rain
		2025-08-21		42	<	1	no odour, clear, no rain
SW3088	10608 Towner Road, S of beach access	2023-02-03			<	0.01	flow too low to sample, light rain recent
		2023-07-07				0	dry, not sampled, no rain prior
		2024-02-21				0	dry, not sampled
		2024-08-26			<	0.01	flow too low to sample, recent rain
		2025-02-18	<	1	<	1	no odour, slightly amber, prior rain
		2025-08-21				0	dry, not sampled, no rain
SW3089A	N side of 945 Towner Park Rd	2023-04-25		6		9	no odour, clear, no rain prior
		2023-09-27				0	dry, not sampled, light rain prior
		2024-03-01		460		32	no odour, clear, light rain previous
		2024-05-30		110		7	no odour, clear, recent rain
		2024-08-26				0	dry, not sampled, recent rain
		2025-05-13				0	dry, not sampled, no rain
		2025-08-25				0	dry, not sampled, no rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
SW3089AA	east side of stairs below 693 Finlayson	2023-04-25			<	0.01	flow too low to sample, no rain prior
		2023-09-27				0	dry, not sampled, light rain prior
		2024-03-01			<	0.01	flow too low to sample, recent rain
		2024-08-26			<	0.01	flow too low to sample, rain
		2025-05-13				0	dry, not sampled, no rain
		2025-08-25				0	dry, not sampled, no rain
SW3089AB	between 785 and 771 Towner Park Rd	2023-04-25		25		14	no odour, clear, no rain prior
		2023-09-27				0	dry, not sampled, light rain prior
		2024-03-01		87		16	no odour, clear, light rain previous
		2024-08-26		79	<	1	no odour, clear, recent rain
		2025-05-13		250		1	no odour, clear, no rain
		2025-08-25			<	0.01	flow too low to sample, no rain
SW3089BB	mid- shoreline; 701 Towner Park Rd, pipe in wall	2023-04-25		2		1	no odour, clear, no rain prior
		2023-09-27				0	dry, not sampled, light rain prior
		2024-03-01		45		7	no odour, clear, light rain previous
		2024-08-26			<	0.01	flow too low to sample, rain
		2025-05-13				0	dry, not sampled, no rain
		2025-08-25				0	dry, not sampled, no rain
SW3089CC	east side of 701 Towner Park Rd	2025-08-25		5		5	no odour, clear, no rain
SW3089CD	middle shoreline of 717 Towner Park Rd	2025-05-13		11		5	no odour, clear, no rain
SW3089DD	pipe under corner of deck; 725 Towner Park Rd	2023-04-25	<	1			no odour, clear, no rain prior
		2023-09-27		14		1	no odour, clear, light rain prior
		2024-03-01		11		9	no odour, clear, light rain previous

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-08-26		75		6	no odour, clear, recent rain
		2025-05-13			<	0.01	flow too low to sample, no rain
		2025-08-25		76		3	no odour, clear, no rain
SW3090	100m N of 10429 West Saanich Road	2023-02-03		3		12	no odour, clear, light rain recent
		2023-09-25				0	dry, not sampled, light rain prior
		2024-03-01		51		65	no odour, clear, recent rain
		2024-08-26				0	dry, not sampled, rain
		2025-05-13		20		4	no odour, clear, no rain
		2025-08-21				0	dry, not sampled, no rain
SW3091	25m N of 10425 West Saanich Road	2023-02-03		20		11	no odour, clear, light rain recent
		2023-09-25				0	dry, not sampled, light rain prior
		2024-04-30		52		9	no odour, clear, rain earlier in the day
		2024-08-26			<	0.01	flow too low to sample, rain
		2025-05-13			<	0.01	flow too low to sample, no rain
		2025-08-21				0	dry, not sampled, no rain
SW3095	Tseycum Creek, N of 1036 W. Saanich Rd	2023-04-14		200		85	no odour, clear, no rain prior
		2023-09-25		4000		11	no odour, murky brown, pooled flow, light rain prior
		2023-11-29		11000		200	no odour, slight amber, no recent rain
		2024-04-30		69		70	no odour, slight amber, rain earlier in the day
		2024-06-26		130		18	no odour, clear, no recent rain
		2025-05-21		70		50	no odour, slightly brown (house construction upstream), no rain
		2025-08-25		2800		8	no odour, murky, no rain
SW3100	below 10177 West Saanich Rd	2024-02-29		98		2	no odour, clear, heavier rain yesterday
		2024-09-24				0	dry, not sampled, no rain
SW3104	Ten Ten Creek, airport weir	2024-05-30		34		60	no odour, clear, recent rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-09-24		200		50	no odour, clear, no rain
		2025-08-28		72		60	no odour, slightly murky, light rain prior, construction upstream
		2025-09-04		82		60	no odour, clear, no rain, construction upstream
		2025-09-11		75		60	no odour, clear, no rain
		2025-11-05		29	>	350	no odour, clear, rain
		2025-11-12		21		250	no odour, clear, light rain
		2025-11-19		21		300	no odour, clear, light rain prior
		2025-11-26		92	>	1000	slight sulphur odour, slight murky amber, rain
		2025-12-10		200	>	3000	slight creosote/sulphur odour, amber, heavy rain
SW3104-2	Ten Ten Creek at Willingdon Road	2025-08-28		59		18	no odour, clear, light rain prior
		2025-09-04		77		18	flow too low to sample, no rain
		2025-09-11		61		18	flow too low to sample, no rain
		2025-11-05		20	>	300	no odour, clear, rain
		2025-11-12		24		200	no odour, clear, light rain
		2025-11-19		15		300	no odour, clear, light rain prior
		2025-11-26		43		800	no odour, slight murky amber, rain
		2025-12-10		98	>	2500	slight sulphur odour, amber, heavy rain
SW3104-2A	TENTEN, eastern flow from Willingdon	2025-11-05		25	>	200	no odour, clear, rain
		2025-11-12		9		26	no odour, clear, light rain
		2025-11-19		9		80	no odour, clear, light rain prior
		2025-11-26		38	>	250	no odour, slight murky amber, rain
		2025-12-10		100		1000	slight sulphur odour, amber, heavy rain
SW3104-3	TENTEN, d/s of ditch & pond confluence	2025-08-28			<	0.01	flow too low to sample, light rain prior
		2025-09-04			<	0.01	dry, not sampled, no rain
		2025-09-11			<	0.01	dry, not sampled, no rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date	E. Coli	Flow Rate	Sample Comment
			CFU/100 mL	L/min	
		2025-11-05	21	30	no odour, slightly murky, rain
		2025-11-12	11	30	no odour, slight amber, light rain
		2025-11-19	3	15	no odour, slight amber, deer prints in channel, light rain prior
		2025-11-26	29	60	earthy odour, murky amber/brown, rain
		2025-12-10	200	>	1000 slight sulphur/earthy odour, amber, heavy rain
SW3104-4	TENTEN Ck, u/s of pond	2025-08-28		0	dry, not sampled, light rain prior
		2025-09-04		0	no odour, clear, no rain, construction upstream
		2025-09-11		0	dry, not sampled, no rain
		2025-11-05		<	0.01 flow too low to sample, rain
		2025-11-12		<	0.01 flow too low to sample, light rain
		2025-11-19	4	40	no odour, slight murky brown, light rain prior
		2025-11-26	58	>	250 no odour, slight murky amber, rain
		2025-12-10	170		1000 slight sulphur odour, amber, pond full, heavy rain
SW3107B	22m east of 9730 and 9750 W. Saanich Rd	2023-02-01	4	20	no odour, clear, light rain recent
		2024-05-06	59	20	no odour, amber, recent rain
		2024-09-26		<	0.01 flow too low to sample, recent rain
SW3108	Foot of Frizell Road	2023-05-08		<	0.01 flow too low to sample, rain in past two days
		2023-09-25		0	dry, not sampled, light rain prior
		2024-05-06	3	4	no odour, clear, recent rain
		2024-09-26		<	0.01 flow too low to sample, recent rain
SW3117A	SE corner of 673 Ardmore Dr., black pvc	2022-03-25	190	10	no odour, clear, light rain two days ago
		2022-08-12		0	dry, no sample, no rain prior
		2023-05-11	450	<	1 no odour, clear, no rain prior
		2023-06-22		0	dry, not sampled, no rain prior

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-04-18		750		1	no odour, clear, no recent rain
		2024-06-05		350	<	1	no odour, clear, recent rain
		2025-04-07		80		12	no odour, clear, recent rain
		2025-08-28				0	dry, not sampled, no rain
SW3118	Foot of Hartfell Ave.	2023-05-11		1000		9	no odour, clear, no rain prior
		2023-06-22		320		10	no odour, clear, no rain prior
		2023-07-06			<	0.01	flow too low to sample, no rain prior
		2024-04-18		64		24	no odour, clear, no recent rain
		2024-06-05		300		6	no odour, clear, recent rain
		2024-08-28				0	dry, not sampled, recent rain
		2024-09-26			<	0.01	flow too low to sample, rain
		2024-10-30		3000		3	no odour, amber, previous rain
		2024-11-19		420		20	no odour. clear, rain previous
		2024-12-04		920		10	slight sewer odour, slightly murky, no rain
		2025-04-07		280		40	no odour, amber, recent rain
		2025-08-28				0	dry, not sampled, no rain
SW3118A	20m east of Hartfell beach access	2023-06-01		7		1	no odour, clear, no rain prior
		2023-06-22	<	1		2	no odour, clear, no rain prior
		2024-04-18	<	1		5	no odour, clear, no recent rain
		2024-06-05		4		2	no odour, clear, recent rain
		2024-08-28		8		1	no odour, clear, recent rain
		2024-09-26			<	0.01	flow too low to sample, rain
		2025-04-07		1		4	no odour, clear, recent rain
		2025-08-28				0	dry, not sampled, no rain
SW3118AA	18m east of Hartfell beach access	2023-06-01			<	0.01	flow too low to sample, no rain prior
		2023-06-22				0	dry, not sampled

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-04-18		17		1	no odour, clear, no recent rain
		2024-06-05		3		2	no odour, clear, recent rain
		2024-08-28		270		1	no odour, clear, recent rain
		2024-09-26		17		3	no odour, clear, rain
		2025-04-07	<	1		2	no odour, slightly amber, recent rain
		2025-08-28				0	dry, not sampled, no rain
SW3118B	30m east Hartfell beach access	2023-05-11				0	dry, not sampled, no rain prior
		2023-06-22				0	dry, not sampled, no rain prior
		2024-04-18			<	0.01	flow too low to sample, no recent rain
		2024-08-28			<	0.01	no odour, amber, recent rain
		2024-09-26			<	0.01	flow too low to sample, recent rain
		2025-04-07			<	0.01	flow too low to sample, recent rain
		2025-08-28				0	dry, not sampled, no rain
SW3118C	45m east of Hartfell beach access	2023-05-11	<	1	<	1	no odour, clear, no rain prior
		2023-06-22		3		2	no odour, clear, no rain prior
		2024-04-18	<	1		4	no odour, clear, no recent rain
		2024-08-28		5		1	no odour, clear, recent rain
		2024-09-26		21		1	no odour, slight amber, recent rain
		2025-04-07		2		4	no odour, clear, recent rain
		2025-08-28		18	<	1	no odour, clear, no rain
SW3118D	50m east of Hartfell beach access	2023-05-11	<	1	<	1	no odour, clear, no rain prior
		2023-06-22	<	1		1	no odour, clear, no rain prior
		2024-04-18	<	1		3	no odour, clear, no recent rain
		2024-08-28		1	<	1	no odour, clear, recent rain
		2024-09-26	<	1	<	1	no odour, clear, recent rain
SW3119	East of Coles Bay Park beach access	2023-04-14		7		28	no odour, clear, no rain prior

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2023-06-22		380	<	1	no odour, clear, no rain prior
		2023-07-06			<	0.01	flow too low to sample, no rain prior
		2024-04-18		110		35	no odour, clear, no recent rain
		2024-08-28			<	0.01	no odour, amber, recent rain
		2024-09-26		180		1	no odour, slight amber, recent rain
		2025-04-07		230		8	no odour, amber, recent rain
		2025-08-28				0	dry, not sampled, no rain
SW3120	5m S of steps; foot of McTavish Rd	2023-04-14		25		15	no odour, clear, no rain prior
		2023-06-22		96		1	no odour, clear, no rain prior
		2023-07-06			<	0.01	flow too low to sample, no rain prior
		2024-04-18		7		32	no odour, clear, no recent rain
		2024-08-28			<	0.01	flow too low to sample, recent rain
		2024-09-26		470		3	no odour, slight amber, recent rain
		2025-04-07		40		60	no odour, clear, recent rain
		2025-08-28			<	0.01	flow too low to sample, no rain
SW3121	Coles Bay, flow from Pauquachin Lane	2023-05-11	<	1		4	no odour, clear, no rain prior
		2023-06-22		140		2	no odour, clear, no rain prior
		2024-05-23		81		3	no odour, clear, recent rain
		2024-09-26		200		2	no odour, clear, rain
		2024-12-04	<	1		8	slight sewer odour, clear, no rain
		2025-08-28			<	0.01	flow too low to sample, no rain
		2025-09-11				0	dry, not sampled, no rain
SW3122	40m S of boat ramp at Pauquachin FN	2023-05-11		2		5	no odour, clear, no rain prior
		2023-06-22				0	dry, not sampled, no rain prior
		2023-07-06				0	dry, not sampled, no rain prior
		2024-05-23		29		1	no odour, clear, recent rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-09-26				0	dry, not sampled, rain
		2025-09-11				0	dry, not sampled, no rain
SW3123	50m south of boat ramp; Pauquachin FN	2023-05-11				0	dry, not sampled, no rain prior
		2023-06-22				0	dry, not sampled, no rain prior
		2023-07-06				0	dry, not sampled, no rain prior
		2024-05-23			<	0.01	flow too low to sample, recent rain
		2024-09-26				0	dry, not sampled, rain
		2025-09-11				0	dry, not sampled, no rain
SW3124	200m S of boat ramp on Pauquachin FN	2023-05-11	<	1		25	no odour, clear, no rain prior
		2023-06-22		4		32	no odour, clear, no rain prior
		2023-07-06		420		18	no odour, clear, no rain prior
		2024-05-23		14		18	no odour, clear, recent rain
		2024-09-26		170		7	no odour, slight amber, rain
		2025-09-11		11		3	no odour, clear, no rain
SW3124A	300m S of 3124, by alder, Pauquachin FN	2023-04-20	<	1		5	no odour, clear, light rain
		2023-06-22			<	0.01	flow too low to sample, no rain prior
		2024-05-23			<	0.01	flow too low to sample, recent rain
		2024-09-26			<	0.01	flow too low to sample, rain
		2025-05-28				0	dry, not sampled, no rain
		2025-09-04				0	dry, not sampled, no rain
SW3125	Salmon Brook, NW of 8600 Kleewyck Rd.	2023-04-20	<	1		24	no odour, clear, light rain
		2023-06-22		92	<	1	no odour, clear, no rain prior
		2024-04-26		1		54	no odour, clear, rain earlier
		2024-05-10				0	dry, not sampled, clear, no rain
		2024-09-26				0	dry, not sampled, rain
		2025-05-28		4		12	no odour, clear, no rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2025-09-04				0	dry, not sampled, no rain
SW3125-1	Salmon Brook, upstream of Kleewyck Rd.	2024-11-19		9	>	250	no odour, slight amber, rain previous
		2024-12-04	<	1	>	150	no odour, clear, no rain
		2024-12-19		19	>	250	no odour, slight amber with some suds, rain prior
		2025-05-28		11		12	no odour, clear, no rain
		2025-09-04				0	dry, not sampled, no rain
SW3125-3	Salmon Brook, d/s of 8393 Alec Rd.	2024-11-19		25	>	150	no odour, slight amber, evidence of livestock upstream, rain previous
		2024-12-04		1		20	no odour, clear, no rain, livestock upstream
		2024-12-19		19		60	no odour, slight amber with some suds, rain prior
		2025-05-28				0	dry, not sampled, no rain
		2025-09-04				0	dry, not sampled, no rain
SW3125A	1m east of stairs, near 8580 Mink Road	2023-04-20		2		4	no odour, clear, light rain
		2023-06-22			<	0.01	flow too low to sample, no rain prior
		2024-04-26		390		54	no odour, clear, rain earlier
		2024-09-26			<	0.01	flow too low to sample, rain
		2025-05-28				0	dry, not sampled, no rain
		2025-09-04				0	dry, not sampled, no rain
SW3125B	between 8560 and 8580 Mink Road	2023-04-20		24		7	no odour, clear, light rain
		2023-06-22		38		7	no odour, clear, otter activity, no rain prior
		2024-04-26		14		10	no odour, turbid brown, rain earlier
		2024-09-26				0	dry, not sampled, rain
		2025-05-28		61	<	1	no odour, clear, no rain
		2025-09-04				0	dry, not sampled, no rain
SW3125BB	white PVC pipe; SW corner 8560 Mink Rd	2025-05-28		9		2	no odour, clear, no rain
		2025-09-04				0	dry, not sampled, no rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
SW3125C	below 570 Seacliff Rd	2022-04-19	<	1		7	no odour, clear, rain yesterday
		2022-07-29		72		5	no odour, clear, no rain prior
		2023-04-20		6		8	no odour, clear, light rain
		2023-06-22		1400		1	no odour, clear, no rain prior
		2024-04-26		50		10	no odour, slightly amber, rain earlier
		2024-09-26				0	dry, not sampled, rain
		2025-05-28		18		4	no odour, clear, otter scat at discharge, no rain
		2025-09-04		580		1	no odour, clear, no rain
SW3128	beach access at Nimmo Road	2023-04-20		13		8	no odour, clear, light rain
		2023-06-22			<	0.01	flow too low to sample, no rain prior
		2024-05-30		1		6	no odour, clear, recent rain
		2025-05-28			<	0.01	flow too low to sample, no rain
		2025-09-04				0	dry, not sampled, no rain
SW3133	Hagan, u/s of waterfall (EMS#:E299172)	2023-04-19		50	>	2000	no odour, clear, light rain yesterday
		2023-06-22		62	>	1000	no odour, clear, no rain prior
		2024-05-06		20	>	500	no odour, clear, recent rain
		2024-08-09		10	>	400	no odour, clear, no recent rain, meter not available
		2024-09-24		60	>	2000	no odour, slight amber, no rain
		2024-10-04		190	>	2000	no odour, amber, rain
		2025-05-21		25	>	1000	no odour, murky, no rain
		2025-08-28		66	>	1000	no odour, clear, no rain
SW3133-2	Hagan, ditch d/s of Keating Industrial Pk	2022-09-13		230000		12	sewer/chemical odour, grey, black flocculant, no rain prior, surge flow
		2023-10-20		2100		12	slight chemical odour, clear, rain previous
		2024-08-09		400		13	chemical/creosote odour, clear, no recent rain
		2024-09-24		8000		12	slight hydrocarbon/creosote odour, clear, no rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-10-04		14000		45	chemical/creosote odour, murky brown, rain
		2024-12-04		8		30	no odour, clear, no rain
		2025-05-21		6400		40	slight chemical odour, slight murky, no rain
		2025-08-28		860		10	slight chemical odour, clear, no rain
		2026-01-07		5400	>	600	chemical odour, murky brown, rain
		2026-01-07		5000	>	600	chemical odour, murky brown, rain
		2026-01-07		5700	>	600	chemical odour, murky brown, rain
		2026-01-07		8700	>	600	chemical odour, murky brown, rain
		2026-01-07		4700	>	600	chemical odour, murky brown, rain
SW3133-3A	MH at entrance to 6793 Kirkpatrick Cres.	2024-08-09		4000		10	no odour, clear, no recent rain
		2024-09-24		5000		10	slight hydrocarbon odour, slightly pink, no rain
		2024-10-04		15000		40	hydrocarbon odour, murky brown, rain
SW3133-3B	MH23-49 Kirkpatrick Cres/Oldfield Rd	2024-09-24		20000		8	slight hydrocarbon odour, clear, no rain
		2024-10-04		20000		8	no odour, murky brown, rain
SW3135	above viewing platform on Tsartlip FN	2024-08-28				0	dry, not sampled, recent rain
		2025-05-21			<	0.01	flow too low to sample, no rain
		2025-08-28				0	dry, not sampled, no rain
SW3136	Intersection of Etienne and Tsartlip Rd	2024-05-10		250		7	no odour, clear, no rain
		2024-05-30		560		8	no odour, clear, recent rain
		2024-08-28				0	dry, not sampled, recent rain
		2025-05-21		37		12	no odour, clear, no rain
		2025-08-28			<	0.01	flow too low to sample, no rain
SW3136A	shoreline west of Tsartlip Drive	2025-05-21				0	dry, not sampled, no rain
		2025-08-28				0	dry, not sampled, no rain
SW3136B		2025-05-21				0	dry, not sampled, no rain
		2025-08-28				0	dry, not sampled, no rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
SW3137	N end of cove NE of Tsartlip boat launch	2023-04-19		380		9	no odour, murky brown, light rain yesterday
		2023-06-28				0	dry, not sampled, no rain prior
		2024-05-10		36		5	no odour, clear, no rain
		2024-08-28				0	dry, not sampled, recent rain
		2025-05-21			<	0.01	flow too low to sample, no rain
		2025-08-28				0	dry, not sampled, no rain
SW3138	S side off Tsartlip boat launch parking	2023-04-19		350		24	no odour, clear, light rain yesterday
		2023-05-10		27		8	no odour, clear, no rain prior
		2023-06-28		100		6	no odour, clear, algae at discharge, no rain prior
		2024-05-10		13		10	no odour, clear, no rain
		2024-08-28		65		6	no odour, clear, recent rain
		2025-05-21		38		11	no odour, clear, no rain
		2025-08-28		61		3	no odour, clear, no rain
SW3141	Under ferry wharf at foot of Verdier Ave	2023-01-26	<	1		11	no odour, clear, light rain two days ago
		2023-06-28		1	<	1	no odour, clear, no rain prior
		2024-04-08		82		2	earthy odour, dark grey/black colour, light rain
		2024-08-09			<	0.01	flow too low to sample, no recent rain
SW3142	N of ferry wharf at foot of Verdier	2023-01-26		8	<	1	no odour, clear, light rain two days ago
		2023-06-28		16		3	no odour, clear, no rain prior
		2024-02-20		43		20	no odour, clear, light rain recent
		2024-08-09		290		4	no odour, clear, no recent rain
		2025-02-24		36		30	no odour, slight amber, previous rain
		2025-08-28		390		3	no odour, clear, no rain
SW3145	Foot of Clarke Road	2022-06-13		12		8	no odour, clear, no rain prior
		2023-01-26		2		10	no odour, clear, light rain two days ago
		2023-06-28		600	<	1	no odour, clear, no rain prior

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-02-20		2		22	no odour, clear, light rain recent
		2024-06-05		66		10	no odour, clear, recent rain
		2024-08-09				0	dry, not sampled, no recent rain
		2024-08-26		380		2	no odour, clear, rain
		2024-10-30		22		12	
		2024-11-20		2		26	no odour, clear, previous rain
		2025-02-24		3000		38	no odour, clear, previous rain
		2025-08-28				0	dry, not sampled, no rain
SW3145A	Devonshire beach access, Brentwood Dr.	2023-01-26	<	1		7	no odour, clear, light rain two days ago
		2023-06-28		6		5	no odour, clear, no rain prior
		2024-08-09		50		2	no odour, clear, no recent rain
		2025-02-24		8		10	no odour, clear, previous rain
		2025-08-28			<	0.01	flow too low to sample, no rain
SW3146	Brentwood Drive near Marchant Road	2023-01-26		51		50	no odour, clear, light rain two days ago
		2023-06-28		360			no odour, clear, no rain prior
		2024-02-20		760	>	300	no odour, clear, light rain recent
		2024-08-09		320		40	no odour, clear, no recent rain
		2025-02-24		6100	>	250	no odour, clear, previous rain
		2025-08-28		230		6	no odour, clear, no rain
SW3147B	Josephine Rd, 6m south from path access	2025-02-24				0	dry, not sampled, rain previous
		2025-08-28				0	dry, not sampled, no rain
SW3148	east of Port Royale under bridge	2023-04-25		3		80	no odour, clear, no rain prior
		2023-09-27		25		12	no odour, clear, recent rain
		2024-04-08		4		110	sewer odour, amber, light rain
		2024-09-26		560		30	no odour, clear, recent rain
		2025-02-24		17	>	500	no odour, clear, rain previous

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date	E. Coli	Flow Rate	Sample Comment
			CFU/100 mL	L/min	
		2025-08-28		0	dry, not sampled, no rain
SW3148A	W of bridge; Angler's Anchorage walkway	2025-02-24		0	dry, not sampled, rain previous
		2025-08-28		0	dry, not sampled, no rain
SW3149	east end of Port Royale at Anglers Lane	2025-02-24	23	1	no odour, clear, rain previous
		2025-08-28		0	dry, not sampled, no rain
SW3149A	Middle of Port Royale in riprap	2025-02-24		0	dry, not sampled, rain previous
		2025-08-28		0	dry, not sampled, no rain
SW3149B	In riprap b/t park bench and wall	2025-02-24		0	dry, not sampled, rain previous
		2025-08-28		0	dry, not sampled, no rain
SW3150	Port Royale Walkway, 40 m east of wharf	2022-07-22	6000	3	no odour, clear, no rain prior
		2023-04-25	3600	9	no odour, clear, otter observed in pipe, no rain prior
		2023-09-27		< 0.01	flow too low to sample, recent rain
		2024-04-08	100	7	no odour, murky grey colour, light rain
		2024-09-26	9100	2	no odour, slightly amber, recent rain
		2025-02-24	210	60	no odour, clear, possible tidally influence, rain previous
		2025-08-28	50	2	no odour, clear, no rain
SW3150A	Foot of Woodward Dr.	2023-04-25		< 0.01	flow too low to sample, no rain prior
		2023-09-27		0	dry, not sampled, recent rain
		2024-04-08		< 0.01	flow too low to sample, light rain
		2024-09-26		< 0.01	flow too low to sample, recent rain
SW3151	west end of Port Royale property	2023-04-25		< 0.01	flow too low to sample, no rain prior
		2023-09-27		0	dry, not sampled, recent rain
		2024-04-08	1	1	no odour, amber colour, light rain
		2024-09-26		< 0.01	flow too low to sample, recent rain
SW3153	small bay at Butchart Gardens	2023-09-27		0	dry, not sampled, recent rain

Bacterial and Flow Data (2023-2025)

Station ID	Station Name	Sample Date		E. Coli		Flow Rate	Sample Comment
				CFU/100 mL		L/min	
		2024-05-09			<	0.01	flow too low to sample, no rain
		2024-09-26			<	0.01	flow too low to sample, recent rain
SW3154	Tod Ck, S of Butchart Gardens in Tod inlet	2023-02-22		6	>	5000	no odour, clear, rain yesterday
		2023-09-27		110		400	no odour, clear, recent rain
		2024-05-09		39	>	800	no odour, dark amber, no rain
		2024-09-26		90	>	500	no odour, clear, recent rain
		2025-08-28		10		60	no odour, clear, no rain

Notes

Flow is visually estimated.

Recent rain means rain within previous two days.

No rain means no rain within previous two days.

u/s = upstream; d/s = downstream

PSS = Peninsula Streams Society

Blue shading indicates E.coli concentrations greater than 400 CFU/mL, which may indicate a health risk.

APPENDIX C

PUBLIC HEALTH CONCERN RATINGS

Public Health Concern Ratings

CRD Discharge No.	Report Figure No.	Jurisdiction at Discharge	Rating			Level of Concern			Comments	Recommendations
			<i>E.coli</i> Rating	Public Shoreline Use	Overall Rating	2023.	2024.	2025.		
405	4	Central Saanich	2	2	4	moderate	moderate	moderate	amber colour; Island View beach	Continue monitoring
416	7	Central Saanich	2	3	5	NR	low	moderate	elevated count in summer	Confirm rating
422A	8	Central Saanich	1	1	2	NR	NR	low	low count in winter; low flow in summer	Confirm rating
423	8	Central Saanich	1	1	2	NR	NR	low		Confirm rating
3128	33	Central Saanich	1	1	2	low	low	low	dry in summer	Resample in 2030
3133	35	Central Saanich	1	2	3	low	low	low	SPSO, Hagan Creek	Continue monitoring
3141	36	Central Saanich	1	2	3	low	low	NR	dry in summer	resample in 2029
3142	36	Central Saanich	2	2	4	low	low	moderate	elevated intermittently; suds observed in past	Continue monitoring
3145	36	Central Saanich	3	3	6	moderate	low	<u>high</u>	human bacteria upstream in past	Continue monitoring
3145A	36	Central Saanich	1	2	3	low	low	low	elevated in summer	Confirm rating
3146	36	Central Saanich	3	2	5	moderate	moderate	<u>high</u>	SPSO	Continue monitoring
3147B	36	Central Saanich	1	2	3	NR	NR	low		Confirm rating
3148	36	Central Saanich	1	2	3	low	moderate	low	Brentwood Bay	Confirm rating
3150	36	Central Saanich	3	2	5	moderate	<u>high</u>	low	Brentwood Bay	Continue monitoring
3150A	36	Central Saanich	1	2	3	low	low	NR	Brentwood Bay; low flow	Resample in 2029
3151	36	Central Saanich	1	2	3	low	low	NR	dry	Resample in 2029
3153	37	Central Saanich	1	2	3	low	low	NR	dry	Resample in 2029
3154	37	Central Saanich	1	2	3	low	low	low	Tod Creek	Continue monitoring
426	9	North Saanich	1	1	2	low	low	low	Bazan Bay; no human bacteria measured	Continue monitoring
430AA	9	North Saanich	1	1	2	NR	NR	low	dog park	Resample in 2030
430B	9	North Saanich	2	1	3	low	low	low	elevated counts in summer; dog park	Continue monitoring
432	10	North Saanich	1	1	2	low	low	low	Bazan Bay	Continue monitoring
435	10	North Saanich	1	1	2	NR	low	low	Bazan Bay	Continue monitoring
441	10	North Saanich	1	2	3	low	moderate	low	Reay Creek; birds upstream	Continue monitoring
442	10	North Saanich	1	3	4	NR	NR	low	low flow; low counts	Confirm rating
3020	15	North Saanich	1	2	3	moderate	moderate	low	elevated count in 2024	Confirm rating
3020A	15	North Saanich	1	2	3	low	low	NR	dry in summer	Resample in 2030
3021A	16	North Saanich	2	2	4	low	moderate	moderate	elevated in summer	Confirm rating
3028	16	North Saanich	1	1	2	NR	NR	low	dry	Resample in 2030
3028A	16	North Saanich	1	1	2	NR	NR	low	highway runoff	Continue monitoring for metals
3029	16	North Saanich	1	1	2	NR	NR	low	dry, drains highway	Continue monitoring for metals
3030	16	North Saanich	1	1	2	NR	NR	low	dry, drains highway	Continue monitoring for metals
3031	16	North Saanich	1	1	2	NR	NR	low	dry, drains highway	Continue monitoring for metals
3034	16	North Saanich	1	2	3	NR	NR	low	dry, drains highway	Continue monitoring for metals
3034A	16	North Saanich	1	2	3	low	low	low	dry	Resample in 2030
3035A	16	North Saanich	1	2	3	low	low	NR	dry	Resample in 2029

Public Health Concern Ratings

CRD Discharge No.	Report Figure No.	Jurisdiction at Discharge	Rating			Level of Concern			Comments	Recommendations
			<i>E.coli</i> Rating	Public Shoreline Use	Overall Rating	2023.	2024.	2025.		
3051	19	North Saanich	2	2	4	NR	moderate	low		Confirm rating
3051A	19	North Saanich	1	2	3	low	low	NR	low counts	Resample in 2029
3077	23	North Saanich	3	3	6	<u>high</u>	<u>high</u>	<u>high</u>	Deep Cove	Confirm rating
3078	23	North Saanich	2	3	5	NR	<u>high</u>	<u>high</u>	beach access	Confirm rating
3078A	23	North Saanich	3	3	6	<u>high</u>	<u>high</u>	<u>high</u>	Deep Cove; human bacteria present	Continue monitoring and investigations
3079	23	North Saanich	1	3	4	moderate	moderate	low	Tatlow/Chalet Creek; human bacteria present	Continue monitoring
3080A	24	North Saanich	2	1	3	low	low	low	Benes Creek	Continue monitoring
3087	25	North Saanich	1	3	4	low	moderate	low	low counts	Continue monitoring
3088	25	North Saanich	1	3	4	low	low	low	low flow	Resample in 2030
3089A	26	North Saanich	1	3	4	low	low	low	stream; one count slightly elevated; dry in summer	Continue monitoring
3089AA	26	North Saanich	1	3	4	low	low	low	dry	Resample in 2030
3089AB	26	North Saanich	1	3	4	low	low	low	stream; low flow and low counts in summer	Confirm rating
3089BB	26	North Saanich	1	3	4	low	low	low	dry in summer	Confirm rating
3089CC	26	North Saanich	1	3	4	NR	NR	low	one count	Resample 2030
3089DD	26	North Saanich	1	3	4	NR	low	low		Resample 2030
3104	28	North Saanich	1	2	3	low	low	low	SPSO, Ten Ten Creek.	Continue monitoring
3107B	28	North Saanich	1	1	2	low	low	NR	only one sample	Resample in 2029
3108	28	North Saanich	1	1	2	low	low	NR		Resample in 2029
3117A	31	North Saanich	1	2	3	moderate	moderate	moderate	new; private; no human bacteria present	Continue monitoring
3118	31	North Saanich	2	3	5	<u>high</u>	<u>high</u>	<u>high</u>	human bacteria present in 2024	Continue monitoring
3118A	31	North Saanich	1	3	4	low	low	low	Coles Bay	Continue monitoring
3118AA	31	North Saanich	1	3	4	low	low	low	dry in summer	Continue monitoring
3118B	31	North Saanich	1	3	4	low	low	low	dry; human bacteria present in 2021	Continue monitoring
3118C	31	North Saanich	1	3	4	low	low	low	dry in summer	Continue monitoring
3118D	31	North Saanich	1	3	4	low	low	NR	elevated count in past	Resample in 2028
3119	31	North Saanich	1	3	4	low	low	low	Coles Bay; dry in summer; human bacteria not present	Continue monitoring
3120	31	North Saanich	1	3	4	low	moderate	low	Coles Bay; dry in summer; human bacteria not present	Confirm rating
3125	32	North Saanich	1	2	3	low	low	low	Salmon Brook	Continue monitoring
3125A	32	North Saanich	1	2	3	low	low	low	occasional high count	Continue monitoring
3125B	32	North Saanich	1	2	3	low	low	low	dry in summer	Continue monitoring
3125BB	32	North Saanich	1	2	3	NR	NR	low	dry in summer	Confirm rating
3125C	32	North Saanich	2	2	4	moderate	low	moderate	low flow; elevated in summer	Confirm rating
443	10	Sidney	1	3	4	NR	NR	low	no flow	Confirm rating
444	11	Sidney	1	3	4	low	low	low	high public use	Continue monitoring

Public Health Concern Ratings

CRD Discharge No.	Report Figure No.	Jurisdiction at Discharge	Rating			Level of Concern			Comments	Recommendations
			E.coli Rating	Public Shoreline Use	Overall Rating	2023.	2024.	2025.		
444A	11	Sidney	3	3	6	low	low	moderate	confirm high count	Continue monitoring
446	11	Sidney	1	3	4	low	low	low	low counts	Resample in 2029
447	11	Sidney	2	3	5	high	moderate	moderate	counts fluctuate	Continue monitoring
448	11	Sidney	2	3	5	low	low	moderate	low flow in summer. SPSO.	Confirm rating
449	11	Sidney	2	3	5	low	low	high	counts and flow fluctuate	Continue monitoring
449A	11	Sidney	1	3	4	moderate	low	low	low flows; lower counts; extended outfall	Continue monitoring
450	11	Sidney	3	3	6	moderate	high	high	one cross-connection fixed; but multiple sources upstream	Confirm investigations
457	12	Sidney	1	3	4	NR	NR	low	visited once in summer; low flow	Confirm rating
458A	12	Sidney	1	2	3	NR	NR	low	one sample in summer; slightly elevated	Confirm rating
459	12	Sidney	3	1	4	low	low	moderate	elevated in summer	Confirm rating
3001	13	Sidney	1	2	3	NR	NR	low	small catchment	Resample in 2030
3002	13	Sidney	1	2	3	NR	low	NR	dry	Resample in 2029
3003	13	Sidney	1	2	3	low	low	low	amber colour, one elevated count	Continue monitoring
3003A	13	Sidney	1	2	3	NR	low	low		resample in 2030
3005	13	Sidney	2	2	4	low	low	moderate	SPSO, Roberts Bay	Confirm rating
3006	13	Sidney	2	2	4	moderate	low	moderate	Robers Bay	Confirm rating
3007	14	Sidney	2	2	4	moderate	moderate	moderate	foot of Bowden	Confirm rating
3008	14	Sidney	1	2	3	NR	NR	low	dry	Confirm rating
3008A	14	Sidney	1	2	3	NR	NR	low	dry	Confirm rating
3011A	14	Sidney	1	2	3	NR	low	NR	dry	Resample in 2029
3012	14	Sidney	1	2	3	low	low	NR		Resample in 2029
3013	14	Sidney	1	2	3	low	low	NR		Resample in 2029
3014	14	Sidney	1	2	3	low	low	NR	low EC, low flows	Resample in 2029
3015	14	Sidney	3	1	4	moderate	moderate	moderate	high count in summer	Continue monitoring
3016	14	Sidney	3	2	5	high	high	high	elevated EC, SPSO, 1 source known but challenging to fix	Continue monitoring
3090	26	Tseycum/North Saanich	1	3	4	low	low	low	dry in summer	Continue monitoring
3091	26	Tseycum/North Saanich	1	3	4	low	low	low	dry in summer	Continue monitoring
3095	27	Tseycum/North Saanich	2	3	5	high	moderate	moderate	Tseycum Creek, SPSO	Continue monitoring;
3121	31	Pauquachin/North Saanich	1	3	4	low	low	low	low flow	Continue monitoring
3122	31	Pauquachin/North Saanich	1	3	4	low	low	low	dry in summer	Confirm rating
3123	31	Pauquachin/North Saanich	1	3	4	low	low	low	dry in summer	Continue monitoring
3124	31	Pauquachin/North Saanich	1	3	4	moderate	low	low	low upstream previously	Continue monitoring

Public Health Concern Ratings

CRD Discharge No.	Report Figure No.	Jurisdiction at Discharge	Rating			Level of Concern			Comments	Recommendations
			<i>E.coli</i> Rating	Public Shoreline Use	Overall Rating	2023.	2024.	2025.		
3124A	31	Pauquachin/North Saanich	1	1	2	low	low	low	dry	Continue monitoring
3135	35	Tsartlip/Central Saanich	1	3	4	NR	low	low	dry in summer	Confirm rating
3136	35	Tsartlip/Central Saanich	1	3	4	NR	moderate	low	not sampled	Confirm rating
3136A	35	Tsartlip/Central Saanich	1	3	4	NR	NR	low		Confirm rating
3136B	35	Tsartlip/Central Saanich	1	3	4	NR	NR	low		Confirm rating
3137	35	Tsartlip/Central Saanich	1	3	4	moderate	low	low	dry	Confirm rating
3138	36	Tsartlip/Central Saanich	1	3	4	low	low	low	low counts	Confirm rating
408	5	Tsawout/Central Saanich	1	3	4	NR	moderate	low	low flow; dry in 2025, elevated count in 2024; Tsawout FN	Confirm rating
409	5	Tsawout/Central Saanich	1	3	4	low	low	low	dry; Tsawout FN	Continue monitoring
409A	6	Tsawout/Central Saanich	1	3	4	low	low	low	low flow; dry in 2025, elevated count in 2024; Tsawout FN	Continue monitoring
409C	6	Tsawout/Central Saanich	1	3	4	NR	NR	low	dry; Tsawout FN	Confirm rating
410	6	Tsawout/Central Saanich	2	3	5	NR	NR	moderate	high count in summer but low flow	Confirm rating
411	6	Tsawout/Central Saanich	1	3	4	low	low	low	dry in summer	Continue monitoring
411A	6	Tsawout/Central Saanich	1	3	4	low	moderate	low	elevated in summer 2024 but low flow	Confirm rating
412	7	Tsawout/Central Saanich	1	3	4	moderate	moderate	low	Tetayut Creek	Continue monitoring

Notes
Level of Concern determined by sum of the Escherichia coli (E.coli) and shoreline ratings. Low = sums of 2 and 3, moderate= sum of 4 and high = sums of 5 and 6.
Flow, season, previous E.coli measurements and recent changes in the catchment are also considered.
professional judgement used in determining rating when necessary.
EC = E.coli counts
NR = Not rated because there was limited data or it was not one of the discharges assessed this year
SPSO = This discharge acts as a sewage pump station overflow

APPENDIX D

***E. COLI* SAMPLING QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM 2025**

APPENDIX D
E. COLI SAMPLING QUALITY ASSURANCE
AND QUALITY CONTROL PROGRAM
2025

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
2.0	METHODS FOR BACTERIAL SAMPLING.....	1
2.1	Stormwater Discharge Sampling	1
2.2	Quality Assurance	1
2.2.1	Stormwater Sample Replicates (Field Splits).....	1
2.2.2	Quality Control Assessment	1
2.2.3	Calculation of Laboratory Precision.....	1
3.0	RESULTS	2
3.1	Blanks	2
3.2	Precision Criteria.....	2
3.3	Field Splits	2
4.0	CONCLUSIONS.....	3
5.0	REFERENCES.....	3

LIST OF TABLES

Table 1	2025 Precision Criterion Calculation.....	3
Table 2	Comparison of Field Splits to Precision Criterion – 2025 Wet Period	4
Table 3	Comparison of Field Splits to Precision Criterion – 2025 Dry Period	5

APPENDIX D

E. COLI SAMPLING QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM FOR 2025

1.0 INTRODUCTION

Quality Assurance and Quality Control (QA/QC) programs are protocols adopted to ensure that results of any study are valid, internally consistent and comparable with similar projects. These protocols are set out in writing and based on current and relevant research on related topics.

Data collected for the quality assurance (QA) program are used to ensure consistency in field handling and analytical methods. If data exceed a specified precision criterion, then the laboratory is notified of a potential problem in the procedure and steps are taken to resolve the issue.

2.0 METHODS FOR BACTERIAL SAMPLING

All water samples were collected in 250 mL wide-mouth polypropylene bottles supplied by the analytical laboratory, Bureau Veritas. 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. Labelled samples were stored in an insulated cooler with ice packs and delivered the same day to the laboratory. *Escherichia coli* bacteria (*E. coli*) were analyzed following the procedures in Standard Methods (APHA, 1998) and reported as colony forming units per 100 mL (CFU/100 mL).

2.1 Stormwater Discharge Sampling

Where possible, stormwater samples were collected from the point of discharge. Where this was not possible, the stormwater system was followed back to the nearest point where samples could be taken.

2.2 Quality Assurance

2.2.1 Stormwater Sample Replicates (Field Splits)

Ten percent of the total number of samples collected were replicated in the field (field replicates) and are identified in this report as field splits. A single sample was collected in a laboratory-prepared one-litre sample bottle and inverted 30 times to ensure that the sample was homogeneous. The sample was split evenly into two sample bottles. The two bottles were labelled and sent to the laboratory for analysis as separate samples but not identified as field splits.

2.2.2 Quality Control Assessment

To establish the precision criteria, 18 replicates (field splits) were analyzed for *E. coli* bacteria. Field splits were collected from six stormwater discharges. Discharges were chosen based on previous results, specifically high, moderate or low levels of *E. coli* concentrations. The QA sampling for the assessment was for all *E. coli* samples analyzed by Bureau Veritas. The three levels of *E. coli* concentrations were selected to represent the variance in the samples analyzed during the sampling program. Three grab samples were taken at each of the six stations and split into two replicate sample bottles. Three blank samples of potable water were also collected as part of the assessment. Samples were supplied to the laboratory with individual numbers.

2.2.3 Calculation of Laboratory Precision

Laboratory precision for *E. coli* analysis is determined by analyzing several pairs of field samples (field splits). The following procedure is the same as that used for fecal coliforms from Standard Methods, 20th edition (APHA, 1998).

Data are arranged in pairs (D1 and D2). The log of each field measurement is determined (L1, L2) and the difference (range) in the log value between each pair of field splits is calculated: $R = (L2 - L1)$. 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 criteria:

- | | |
|------------------|---|
| 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. 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 laboratory. |

It is important not to put too severe an interpretation on the results, 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, through randomness, 5% of the samples to be outside of the precision criterion. Also, bacterial counts under 200 CFU/100 mL are considered too small 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 CFU/100 mL receive a low public health concern rating.

The results should be rounded to one decimal place and compared to the precision criterion (e.g., 0.3). If the calculated value from the duplicate results still exceeds the criterion, then an informal investigation of the laboratory should be initiated. If only a few duplicates are unacceptable (i.e., one out of every 20 pairs of duplicates), the laboratory 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.

3.0 RESULTS

CRD staff collected 18 pairs of stormwater samples from six discharges having high, moderate, or low levels of bacteria. Samples were analyzed for *E. coli* concentration used to calculate the precision criterion.

3.1 Blanks

Staff submitted three blank samples (tap water) to the laboratory for *E. coli* analysis. Blanks were reported as having <1 CFU/100 mL. Therefore, the results meet the QA requirements.

3.2 Precision Criteria

Table 1 shows laboratory results of the 18 sample triplicates used to determine the precision criterion. The calculated precision criterion was low this year at 0.4.

3.3 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 3.2. 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 Saanich Peninsula and Core Area during the dry period of the 2025 Stormwater Sampling Program. Only one of the field splits marginally exceeded the precision criterion (0.4058 versus 0.4). One can expect, through randomness, that 5% of the samples to be outside of the precision criterion, therefore, the results are considered 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.

Table 1 2025 Precision Criterion Calculation

CRD Data, Batch Samples: 18 pairs, 25 samples						
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 $R_{log}/18$)						0.1167
Precision Criterion ($3.27 \times \text{Mean-}R_{log}$)						0.3815

Table 2 Comparison of Field Splits to Precision Criterion – 2025 Wet Period

Date	Discharge No.	E. Coli Counts CFU/100 mL	Log	Log Range	Acceptable (A) or Unacceptable (U)
11-Feb	432	76	1.8808	0.0000	A
		59	1.7709		
12-Feb	3007	320	2.5051	0.1761	A
		190	2.2788		
18-Feb	3078A	2500	3.3979	0.0918	A
		2300	3.3617		
24-Feb	3145	3000	3.4771	0.1192	A
		3200	3.5051		
7-Apr	3118	280	2.4472	0.0000	A
		280	2.4472		
13-May	3090	20	1.3010	0.0669	A
		25	1.3979		
21-May	412	90	1.9542	0.0621	A
		92	1.9638		
21-Mar	3125	4	0.6021	0.0000	A
		2	0.3010		

Notes:

CFU: colony forming units.

A: calculated data is less than the precision criterion and, therefore, falls within normal variability.

U: calculated data is greater than the precision criterion and, therefore, falls outside normal variability.

A*: any *E. coli* count under 200 is considered too small an amount to calculate precision.

Table 3 Comparison of Field Splits to Precision Criterion – 2025 Dry Period

Date	Discharge No.	Field Split Fecal Coliform Counts	Log	Log Range	Acceptable (A), Unacceptable (U) or Conditionally Acceptable (U*)
24-Jul	238	1	0.000	0.6990	A*
		5	0.6990		
25-Jul	212	3300	3.5185	0.0256	A
		3500	3.5441		
28-Jul	220	110	2.0414	0.2139	A
		180	2.2553		
13-Aug	432	60	1.7782	0.1409	A
		83	1.9191		
15-Aug	450	8600	3.9345	0.0245	A
		9100	3.9590		
20-Aug	3051	31	1.4914	0.0649	A
		36	1.5563		
25-Aug	3095	2800	3.4472	0.4058	U
		1100	3.0414		
28-Aug	3133-2	860	2.9345	0.0197	A
		900	2.9542		

Notes:

CFU: colony forming units.

A: calculated data is less than the precision criterion and, therefore, falls within normal variability.

U: calculated data is greater than the precision criterion and, therefore, falls outside normal variability.

A*: any *E. coli* count under 200 is considered too small an amount to calculate precision.

APPENDIX E

CONTAMINANT DATA AND RATINGS FOR ENVIRONMENTAL CONCERN

Table 1 2025 Stormwater Sediment Contaminant Concentrations

Station		Concentrations in mg/kg dry weight										
		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Silver	Zinc	% Organic Carbon	LPAH**	HPAH**
		57	5.1	260	390	450	0.41	6.1	410	-	370	960
		7.24	0.7	52.3	18.7	30	0.13	1	124	-	-	-
	CRD MSQG	42	4.2	160	108	112	0.7	2.2	271	-	-	-
	CCME ISQG											
	CCME PEL											
VI Soil Background*		4	0.95	65	100	40	0.15	1	150	-	-	-
SW0405	13/08/2025	4.32	0.081	22.1	8.61	2.41	0.05	0.05	29.3	1.8	11.3	15.0
SW0412	21/05/2025	1.48	0.05	13.3	9.51	2.42	0.05	0.05	39.9	0.44	4.4	0.9
SW0441	11/09/2025	3.07	0.773	19.6	15.2	5.08	0.05	0.142	142	0.83	2.9	0.5
SW3005-2A	12/04/2023	1.67	0.083	14.1	15.8	3.5	0.118	0.05	82.6	0.28	0.2	0.0
SW3016	06/05/2024	4.31	0.211	23.7	28.4	11.3	0.05	0.09	133	1.1	0.9	0.1
	20/08/2025	9.86	0.308	30.4	42.9	13.8	0.125	0.289	223	0.58	1.2	0.3
SW3021	13/04/2023	2.9	0.117	17.2	17.4	16.8	0.146	0.101	69.4	2.2	0.7	0.2
SW3051	17/04/2024	3.06	0.379	21.1	18.1	17	0.063	0.1	117	1.7	0.9	0.3
	20/08/2025	5.34	0.557	27	38	53.7	0.237	0.333	177	5.9	0.1	0.0
SW3051A	17/04/2024	2	0.075	12.7	25.9	4.96	0.05	0.05	47.3	1.2	0.9	0.4
SW3079	07/07/2023	2.53	0.099	21.5	22.5	3.71	0.05	0.05	65.8	2.6	7.4	0.8
SW3080A	21/02/2024	5.82	0.24	28	38.7	74.4	0.119	0.05	183	0.52	3.7	0.4
	21/08/2025	8.19	0.153	36.4	48.5	9.18	0.109	0.05	252	0.51	1.2	0.2
SW3090	26/08/2024	4	0.067	30.3	49	7.85	0.05	0.05	115	0.36	0.7	0.2
SW3095	14/04/2023	8.6	0.078	42	41.7	8.49	0.094	0.053	88.6	0.84	1.2	0.7
SW3104	30/05/2024	7.1	0.144	30.1	40	7.11	0.05	0.078	142	2.2	3.6	1.3
	19/11/2025	4.87	0.193	26.9	49.5	8.03	0.054	0.05	158	3.9	0.39	0.2
SW3118	28/08/2025	6.74	0.134	33.4	46.3	17.3	0.115	0.152	119	2.6	3.2	0.6
SW3119	14/04/2023	5.39	0.099	26.8	22.5	5.54	0.05	0.057	62	1.7	0.7	1.1
SW3133	21/05/2025	1.73	0.05	18.3	19.9	5.73	0.05	0.05	63.1	1	1.4	0.3
SW3138	21/05/2025	1.82	0.08	22.2	41.1	5.37	0.05	0.05	67.5	0.83	0.5	0.1
SW3146	09/08/2024	14.4	0.114	22.2	34.9	14.2	0.05	0.057	159	0.39	1.4	0.5
SW3148	25/04/2023	4.4	0.116	25.4	29.3	7.73	0.133	0.071	87.4	1.2	2.7	0.5
SW3154	22/02/2023	8.51	0.291	28.8	35.3	40.2	0.08	0.063	181	0.64	0.2	0.1

Notes

Concentrations are in mg/kg dry weight, except for Organic Carbon which is a percent value

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

PEL = probable effects level; concentrations above this level will frequently result in adverse effects to 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 are those that exceed a guideline but are below the Vancouver Island background concentration.
XX	Value is greater than or equal to the CCME ISQG.
XX	Value is greater than or equal to the CCME PEL.
XX	Value it 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 comparisons.

Table 2 2024 Sediment Contaminant Ratings

Station Name	Sample Date	Ratios of Contaminant Concentration to CRD Marine Sediment Quality Guideline (MSQG)										TEQ	EC Rating
		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Silver	Zinc	LPAH*	HPAH*		
	CRD MSQG	57	5.1	260	390	450	0.41	6.1	410	370	960		
SW0405	13/08/2025	0.08	0.02	0.09	0.02	0.01	0.12	0.01	0.07	0.03	0.02	0.41	Low
SW0412	21/05/2025	0.03	0.01	0.05	0.02	0.01	0.12	0.01	0.10	0.01	0.00	0.35	Low
SW0441	11/09/2025	0.05	0.15	0.08	0.04	0.01	0.12	0.02	0.35	0.01	0.00	0.83	Low
SW3005-2A*	12/04/2023	0.03	0.02	0.05	0.04	0.01	0.29	0.01	0.20	0.00	0.00	0.70	Low
SW3016	06/05/2024	0.08	0.04	0.09	0.07	0.03	0.12	0.01	0.32	0.00	0.00	0.78	Low
	20/08/2025	0.17	0.06	0.12	0.11	0.03	0.30	0.05	0.54	0.00	0.00	1.39	Moderate
SW3021	13/04/2023	0.05	0.02	0.07	0.04	0.04	0.36	0.02	0.17	0.00	0.00	0.77	Low
SW3051	17/04/2024	0.05	0.07	0.08	0.05	0.04	0.15	0.02	0.29	0.00	0.00	0.76	Low
	20/08/2025	0.09	0.11	0.10	0.10	0.12	0.58	0.05	0.43	0.00	0.00	1.65	Moderate
SW3051A	17/04/2024	0.04	0.01	0.05	0.07	0.01	0.12	0.01	0.12	0.00	0.00	0.43	Low
SW3079	07/07/2023	0.04	0.02	0.08	0.06	0.01	0.12	0.01	0.16	0.02	0.00	0.50	Low
SW3080A	21/02/2024	0.10	0.05	0.11	0.10	0.17	0.29	0.01	0.45	0.01	0.00	1.27	Moderate
	21/08/2025	0.14	0.03	0.14	0.12	0.02	0.27	0.01	0.61	0.00	0.00	1.36	Moderate
SW3090	26/08/2024	0.07	0.01	0.12	0.13	0.02	0.12	0.01	0.28	0.00	0.00	0.76	Low
SW3095	14/04/2023	0.15	0.02	0.16	0.11	0.02	0.23	0.01	0.22	0.00	0.00	0.91	Low
SW3104	30/05/2024	0.12	0.03	0.12	0.10	0.02	0.12	0.01	0.35	0.01	0.00	0.87	Low
	19/11/2025	0.09	0.04	0.10	0.13	0.02	0.13	0.01	0.39	0.00	0.00	0.94	Low
SW3118	28/08/2025	0.12	0.03	0.13	0.12	0.04	0.28	0.02	0.29	0.01	0.00	1.03	Moderate
SW3119	14/04/2023	0.09	0.02	0.10	0.06	0.01	0.12	0.01	0.15	0.00	0.00	0.57	Low
SW3133	21/05/2025	0.03	0.01	0.07	0.05	0.01	0.12	0.01	0.15	0.00	0.00	0.46	Low
SW3138	21/05/2025	0.03	0.02	0.09	0.11	0.01	0.12	0.01	0.16	0.00	0.00	0.56	Low
SW3146	09/08/2024	0.25	0.02	0.09	0.09	0.03	0.12	0.01	0.39	0.00	0.00	1.00	Moderate
SW3148	25/04/2023	0.08	0.02	0.10	0.08	0.02	0.32	0.01	0.21	0.01	0.00	0.84	Low
SW3154	22/02/2023	0.15	0.06	0.11	0.09	0.09	0.20	0.01	0.44	0.00	0.00	1.16	Moderate

Notes
This table shows the ratio of contaminant concentration to CRD Marine Sediment Quality Guideline (MSQG) and assigned ratings
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
TEQ is toxicity equivalency quotient which is a sum of all the ratios as an indicator of overall probable adverse effect from all contaminants
Environmental Concern (EC) 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
*Sample is not collected at discharge to marine, therefore marine guidelines are not applicable but used for screening purposes, see Table 4 for freshwater comparisons
Dates shaded red were collected in 2025

Table 3 Summary of Contaminant Ratings for Environmental Concern

Discharge #	Figure	Jurisdiction	Contaminant Ratings								Comments & Recommendations
(Location)	#		2018	2019	2020	2021	2022	2023	2024	2025	
405 (Island View Beach)	4	Central Saanich	Low	Low	-	-	-	-	-	Low	Resample in 2030 to monitor for change.
407 (Saanichton Bay)	5	Tsawout First Nation	-	-	-	-	Low	-	-	-	Rated low in 2005, 2011 and 2017. Resample in 2027 to monitor for change.
409C (Saanichton Bay)	6	Tsawout First Nation	Low	Low	-	-	-	-	-	-	Resample in 2026 to monitor for change.
410 (Saanichton Bay)	6	Tsawout First Nation	-	Low	-	-	-	-	-	-	Elevated lead in 2012. Resample in 2026.
411A (Saanichton Bay)	6	Tsawout First Nation	-	-	-	Low	-	-	-	-	Rated low in 2011 and 2016. Rated moderate in 2008. Resample in 2026 to confirm rating.
412 (Tetayut Creek)	7	Tsawout First Nation	-	Low	-	Low	-	-	-	Low	Low at discharge but elevated levels upstream Resample discharge in 2030 to monitor for change
416 (Foot of Ferguson Rd)	7	Central Saanich	Low	Low	-	-	-	-	-	-	Rated low in 1999, 2000 & 2011. Resample in 2026 to monitor for change.
435 (Bazan Bay)	10	North Saanich	Low	-	-	-	-	-	-	-	Upstream near highway but low at discharge and in marine Resample in 2026 to monitor for change.
441 (Reay Creek)	10	North Saanich	-	-	Moderate	Moderate	-	-	-	Low	Remedial action undertaken, continue monitoring
445 (Foot of Frost Ave.)	11	Sidney	-	-	NR	-	-	-	-	-	Rated high yearly (2002 to 2007) due to zinc. U/S: 445-2 high in 2007 due to mercury & PAHs. No sediment available since 2009. Elevated copper and zinc in water.
449 (Tulista Park)	11	Sidney	Low	Moderate	Low *	-	-	-	-	-	Tidally influenced at discharge. Sample 449-2D for rating. *zinc low in sediment, but copper and zinc elevated in one water sample. Resample in 2026.
450 (Foot of Ocean Ave.)	11	Sidney	-	-	-	-	-	-	-	-	Rated moderate in 2005 and 2007. Rated low in 2011, 2012 and 2017 Resample in 2026 to monitor for change.
467 (Foot of Shoreacres)	12	Sidney	-	-	-	-	Low	-	-	-	Resample in 2027 to monitor for change.
3005 (Mermaid Canal)	13	Sidney	-	-	NR	-	-	Low	-	-	Rated high due to zinc & PAH in past. Low in 2023. Sediment is challenging to find. Elevated metals in water but multiple sources; likely historical Action Required (higher priority). Continue source investigations with water.
3006 (Roberts Bay)	13	Sidney	-	-	-	-	Low	-	-	-	Resample in 2027 to monitor for change.
3016 (All Bay)	14	Sidney	Moderate	-	-	Moderate	-	-	Low	Low	Rated moderate due to copper and zinc in past Upstream arsenic concentrations lower Sidney flushed line in 2015. Resample in 2030.
3021 (Tsehum Harbour)	15	North Saanich	High	Moderate	High	Moderate	Low	Low	-	-	2020: elevated mercury and lead in sediment; no exceedances in water. Confirm rating.

Table 3, continued

Discharge #	Figure	Jurisdiction	Contaminant Ratings								Comments & Recommendations
(Location)	#		2018	2019	2020	2021	2022	2023	2024	2025	
3051 (Lands End)	19	North Saanich	-	-	-	-	-	-	Low	Moderate	Lead, mercury and zinc above ISQG Confirm rating
3077 (Deep Cove)	23	North Saanich	-	-	NR	High in water	-	High in water	-	-	In 2020, copper and zinc 10X above BC ENV marine guidelines.
											Pipe buried; elevated aqueous aluminum, chromium, copper, zinc in 2023. Start investigations
3079 (Tatlow Creek.)	23	North Saanich	Low	-	-	-	-	Low	-	-	Rated low in 2018 and 2079.
											Resample in 2028 to monitor for change.
3080A (Benes Creek)	24	North Saanich	Low	-	-	-	-	-	Moderate	Moderate	Rated high in 2015 due to mercury. Arsenic, copper lead and zinc > ISQG in 2024/2025.
											Confirm contaminants in 2026
3090 (Patricia Bay)	26	Tseycum First Nation	Low	Low	-	-	-	-	Low	-	Rated low in 2001, 2005 & 2010.
											Resample in 2027 to monitor for change.
3095 (Tseycum Creek)	27	Tseycum First Nation	Low	-	-	-	-	Low	-	-	Rated low in previous years.
											Resample in 2028 to monitor for change.
3104 (Tén Tén Creek)	28	North Saanich	Moderate High u/s	Low High u/s	-	Low	-	-	Low	Moderate based on water	Zinc and copper above the PEL at Willingdon Rd but lower at discharge. Arsenic, cadmium, chromium and copper elevated in water. Transport Canada remediated gross contaminants in 2000s Resample in 2030 to monitor for change.
3107B	-	North Saanich	-	-	-	-	-	-	-	-	Elevated arsenic, cadmium, chromium, copper and zinc in water. In 2024. Resample water in 2026
3118 (Coles Bay)	31	North Saanich	-	-	Low	-	-	-	-	Moderate	Rated low in 2001, 2005 & 2011. Rated moderate in 2006 and 2008 & 2012. Confirm rating in 2026.
3119 (Coles Bay)	31	North Saanich	Low	-	-	-	-	Low	-	-	Rated low in 1998, 2004 & 2011. Rated high in 2015 due to mercury; possible lab error.
											Resample in 2028 to monitor for change.
3120 (Coles Bay)	31	North Saanich	-	-	-	Low	-	-	-	-	Rated low in 1999, 2006, 2011 and 2016. Resample in 2026 to monitor for change.
3121 (Coles Bay)	31	North Saanich	-	-	-	-	-	-	-	-	Elevated lead in water. Resample water in 2026
3122 (Coles Bay)	31	Pauquachin First Nation	Low	Low	-	-	-	-	-	-	Rated low in past. Rated high in 2015 due to mercury and 2017 due to cadmium Resample in 2026.
3124 (Coles Bay)	31	Pauquachin First Nation	Low	-	-	-	-	-	-	-	Rated low in 2001 & 2005. Resample in 2026 to monitor for change.
3133 (Hagan Creek)	35	Tsartlip First Nation	Low to High U/S	Low but High U/S	Low	-	-	High in water u/s	-	Low	Rated low at point of discharge Elevated arsenic, cadmium, chromium, copper, lead and zinc upstream Resample discharge in 2026. Continue investigations around Keating Industrial Park

Table 3, continued

Discharge #	Figure	Jurisdiction	Contaminant Ratings								Comments & Recommendations
(Location)	#		2018	2019	2020	2021	2022	2023	2024	2025	
3135 (South of Hagan Bight.)	35	Tsartlip First Nation	-	-	Moderate	Moderate	-	-	-	-	Copper and zinc elevated above CCME PEL U/S: stations were rated low. Resample in 2026.
3136A (Stream, south of Hagan Bight)	35	Tsartlip First Nation	-	Low	Low	-	-	-	-	-	No exceedances of guidelines in 2015. Rated high in 2014 due to zinc Resample in 2026.
3136B (North of Tsartlip boat launch)	35	Tsartlip First Nation	-	-	Low	-	-	-	-	-	Rated low in 2002 & 2008. Resample in 2025.
3138 (Brentwood Bay, north of boat ramp)	36	Tsartlip First Nation	High	Low	Low	-	-	-	-	Low	Rated high between 2004-2013 due to zinc. Tsartlip replaced pipes. Resample in 2026.
3146 (Brentwood Drive)	36	Central Saanich	-	Low	-	-	-	-	Low	-	Rated low in 2006, 2007. Resample in 2029.
3148 (Brentwood Bay)	36	Central Saanich	Low	-	-	-	-	Low	-	-	Rated low in 2005, 2010, 2011 and 2018. Resample in 2029 to monitor for change
3153 (Brentwood Bay)	37	Central Saanich	-	-	-	-	-	-	-	-	Elevated levels of zinc but rated moderate because the sediment is pumped out. U/S: in 2008 & 2009, station 3153-1 rated low. Remedial action undertaken, confirm sediment is still being removed.
3154 (Tod Creek)	43	Central Saanich	-	-	Low	-	High	Moderate	-	-	Elevated mercury in 2022. Sampled 3 times in 2023 and mercury not elevated. arsenic, lead, zinc elevated above CCME ISQG at mouth. Confirm rating in 2026.

Notes
POD = Point of discharge; U/S = upstream
CCME = Canadian Council of Ministers of the Environment
ISQG = Interim sediment quality guidelines

Table 4 2025 – Freshwater Sediment Contaminant Concentrations

Parmeter			Concentrations in mg/kg dry weight									
			Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Silver	Zinc	LPAH	HPAH
Discharge Station #	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	-	-
SW0412	21/05/2025	Tetayut Creek	1.48	0.05	13.3	9.51	2.42	0.05	0.05	39.9	0.001	0.005
SW0441	11/09/2025	KELSET (Reay) Creek	3.07	0.773	19.6	15.2	5.08	0.05	0.142	142	0.003	0.018
SW3005-2A	12/04/2023	Mermaid Creek	1.67	0.083	14.1	15.8	3.5	0.118	0.05	82.6	0.014	0.11
SW3021	13/04/2023	Blue Heron Creek	2.9	0.117	17.2	17.4	16.8	0.146	0.101	69.4	0.032	0.140
SW3051	17/04/2024	Unnamed Creek	3.06	0.379	21.1	18.1	17	0.063	0.1	117	0.020	0.067
	20/08/2025		5.34	0.557	27	38	53.7	0.237	0.333	177	0.44	2.40
SW3079	07/07/2023	Tatlow Creek	2.53	0.099	21.5	22.5	3.71	0.05	0.05	65.8	0.004	0.034
SW3080A	21/02/2024	Benes Creek	5.82	0.24	28	38.7	74.4	0.119	0.05	183	0.001	0.012
	21/08/2025		8.19	0.153	36.4	48.5	9.18	0.109	0.05	252	0.004	0.030
SW3095	14/04/2023	Wsikem Creek	8.6	0.078	42	41.7	8.49	0.094	0.053	88.6	0.007	0.012
SW3104	30/05/2024	TENTEN Creek	7.1	0.144	30.1	40	7.11	0.05	0.078	142	0.006	0.017
	19/11/2025		4.87	0.193	26.9	49.5	8.03	0.054	0.05	158	0.10	0.170
SW3119	14/04/2023	Unnamed Creek	5.39	0.099	26.8	22.5	5.54	0.05	0.057	62	0.026	0.016
SW3133	21/05/2025	Hagan Creek	1.73	0.05	18.3	19.9	5.73	0.05	0.05	63.1	0.007	0.03
SW3146	09/08/2024	Unnamed Creek	14.4	0.114	22.2	34.9	14.2	0.05	0.057	159	0.003	0.007
SW3148	25/04/2023	Unnamed Creek	4.4	0.116	25.4	29.3	7.73	0.133	0.071	87.4	0.005	0.026
SW3154	22/02/2023	Tod Creek	8.51	0.291	28.8	35.3	40.2	0.08	0.063	181	0.026	0.056

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
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
Vancouver Island background soil concentration regional estimates (95th percentiles) from BC MOE; https://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 concentration.
XX Value is greater than or equal to the CCME ISQG for freshwater aquatic life.
XX Value is greater than or equal to the CCME PEL for freshwater quality life.

Table 5 Aqueous Stormwater Data 2023 to 2025

Units: ug/L unless noted		Aluminum		Arsenic		Cadmium		Chromium		Copper		Hardness		Iron		Lead		Manganese		Molybdenum		Nickel		Silver		Zinc	
Water Quality Guidelines*		NA	NA	12.5	NA	0.12	NA	1.5 (Cr (III)/ 8 (Cr (IV)		3	2	(CaCO ₃) mg/L Ca		NA	NA	140	2	NA	NA	NA	NA	NA	NA	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
SW0405	5	612	284	1.21	0.80	0.39	0.12	3.93	2.55	4.32	2.44	3420	1610	6140	4470	0.51	0.37	899	389	3.8	2.34	10	7.09	0.2	0.092	39	14.6
SW0409A	2	1000	583	3.11	1.658	0.0613	0.0342	1.51	0.95	5.03	3.44	61.1	46	6100	3127	1.7	0.92	256	138	0.354	0.21	2.32	1.50	0.01	0.010	14	8.1
SW0410	3	19900	11183	6.4	3.3	0.102	0.067	41.6	21.8	37.3	24.42	177	151	37100	21510	7.92	5.65	928	616	0.41	0.32	34.2	20.57	0.05	0.039	246	159.6
SW0411	3	7010	3200	1.29	0.79	0.181	0.086	6.88	3.49	18.7	10.81	258	148	5360	2952	17.8	7.91	230	129	0.799	0.50	4.42	2.89	0.06	0.028	138	93.2
SW0411A	4	425	223	5.73	1.69	0.062	0.027	0.82	0.59	3.84	3.28	128	105	8120	2290	0.661	0.363	7030	1771	2.45	1.11	3.45	1.70	0.01	0.010	14.1	9.4
SW0412	8	737	220	0.581	0.473	0.0138	0.0093	1.15	0.57	4.47	2.17	127	103	880	371	0.545	0.158	58.8	44	0.97	0.77	2.06	1.05	0.011	0.010	8.6	3.7
SW0412-2D	2	63.7	63	0.4	0.4	0.0261	0.0156	0.35	0.35	0.99	0.87	116	107	151	151	0.089	0.083	27.8	22	0.467	0.41	0.26	0.26	0.01	0.010	3.9	2.9
SW0412-2F	3	212	153	0.573	0.485	0.517	0.176	0.58	0.47	1.8	1.53	138	130	316	267	0.1	0.08	55.9	38	0.773	0.69	0.65	0.61	0.01	0.008	2.2	2.2
SW0412-7	2	63.5	59	0.681	0.572	0.005	0.005	0.28	0.23	1.62	1.39	181	149	136	132	0.051	0.05	17.1	16	0.916	0.80	0.83	0.78	0.01	0.010	2.3	2.0
SW0412-8	3	533	402	1.42	1.06	0.202	0.082	1	0.8	4.21	3.48	157	143	1730	1191	0.83	0.38	402	210	3.2	2.29	2.31	1.96	0.01	0.009	7.15	4.8
SW0416	5	997	582	1.77	1.0	0.0248	0.0201	1.4	0.9	12.6	8.34	259	205	840	529	0.342	0.292	152	49	10.9	5.81	3.82	2.61	0.01	0.010	12.1	7.1
SW0422A	2	74.5	69	0.372	0.339	0.005	0.005	0.21	0.21	6.27	4.06	167	134	66	65	0.071	0.050	19.9	16	0.605	0.49	0.71	0.64	0.01	0.010	1.7	1.6
SW0423	2	209	116	0.489	0.422	0.008	0.0065	0.43	0.32	2.49	2.26	116	113	340	200	0.225	0.123	40.5	22	1.82	1.25	0.87	0.86	0.01	0.010	17.4	12.6
SW0426	6	281	170	0.481	0.392	0.0182	0.0098	0.51	0.37	3.29	2.22	151	106	367	199	0.232	0.130	50.6	22	3.2	1.54	0.97	0.69	0.01	0.010	12.4	8.0
SW0430B	6	6380	1450	1.58	0.596	0.0328	0.011	9.56	2.27	13.6	4.08	172	119	8830	2002	3.27	0.71	475	186	1.2	0.64	11.5	2.91	0.024	0.012	24.1	6.3
SW0432	7	192	71	0.434	0.271	0.017	0.008	0.92	0.39	5.25	2.63	144	91	233	88	0.368	0.121	12	9	1.71	0.90	0.78	0.47	0.01	0.010	49.5	12.6
SW0435	6	116	61	0.225	0.174	0.012	0.010	0.28	0.17	3.43	2.05	151	117	216	141	0.14	0.08	47.5	32	2.35	1.26	1.39	1.30	0.01	0.010	24	13.8
SW0441	7	749	189	1.23	0.71	0.076	0.042	1.84	0.76	6.21	2.66	828	393	720	334	0.449	0.200	105	66	6.26	3.88	6.81	1.80	0.025	0.017	18	6.2
SW0442	2	624	571	0.973	0.861	0.018	0.017	1.68	1.40	12.5	8.80	175	137	544	492	0.582	0.451	22.2	20	3.08	2.38	1.47	1.36	0.01	0.010	10.2	10.0
SW0444	6	368	256	1.34	0.69	0.0215	0.0111	1.06	0.67	37.8	12.22	245	167	470	234	0.398	0.180	33	16	7.77	4.24	5.34	2.39	0.01	0.009	46.5	11.5
SW0444A	5	236	134	1.12	0.78	0.0161	0.0120	1.08	0.52	10.1	5.52	233	133	410	259	0.343	0.199	18.6	10	1.92	1.11	1.31	0.94	0.01	0.009	29.1	17.5
SW0446	5	74	60	2.16	0.93	0.0375	0.0162	0.42	0.29	20.4	8.11	222	166	143	67	0.385	0.127	13.6	5	9.48	6.97	1.04	0.86	0.01	0.008	607	134.4
SW0447	6	1160	527	1.95	0.90	0.0192	0.0127	1.4	0.84	91	21.24	120	69	750	415	0.656	0.399	18.8	12	2.06	1.28	2.12	1.42	0.015	0.011	21.6	10.6
SW0448	7	895	398	0.911	0.723	0.0219	0.013	1.79	0.75	39.3	11.74	141	97	984	444	1.4	0.4	48.7	30	3.18	1.45	2.47	1.69	0.017	0.011	35.6	10.5
SW0449	6	3940	1075	1.64	1.21	0.035	0.022	6.82	1.93	18.9	10.79	787	412	6290	2276	1.1	0.6	940	308	11.8	7.43	7.77	2.81	0.05	0.023	31	17.0
SW0449A	5	2430	625	1.28	0.78	0.157	0.090	4.44	1.34	18.1	10.82	244	208	2860	808	2.21	0.88	121	41	11.6	8.54	6.2	2.36	0.188	0.046	42.9	25.9
SW0450	6	320	203	1.27	1.01	0.0411	0.0282	1.54	0.96	59.9	23.33	320	176	447	280	2.14	0.96	18.9	13	14.6	7.38	2.21	1.45	0.024	0.014	76.1	32.5
SW0459	7	265	144	2.56	1.79	0.0251	0.017	14.4	4.31	30.7	18.80	217	139	308	169	0.601	0.299	57.4	28	19.9	10.58	59.1	17.42	0.012	0.010	68.3	24.6
SW3003	6	382	200	0.927	0.567	0.0164	0.0124	1.02	0.43	32.5	9.02	177	105	356	172	0.642	0.219	15.3	9	5.04	2.01	1.31	0.98	0.01	0.008	15.5	7.3
SW3003A	3	201	71	0.547	0.495	0.0068	0.0057	0.39	0.24	5.88	3.45	232	185	169	60	0.171	0.065	3.85	1	1.69	1.57	1.17	0.95	0.01	0.008	2.3	1.3
SW3005	5	380	179	0.959	0.709	0.107	0.060	8.15	2.14	10.8	8.58	249	205	301	180	1.2	0.5	33.3	15	20.4	10.45	33.1	7.73	0.01	0.010	187	44.7
SW3005-1A	3	311	173	0.809	0.531	0.0156	0.0134	1.35	0.75	7.18	4.98	242	214	248	156	0.418	0.274	12.5	10	5.71	4.02	4.71	2.22	0.01	0.010	4.5	3.6
SW3005-2A	3	764	479	0.997	0.892	0.04	0.03	1.66	1.09	15.8	14.03	204	177	984	662	2.02	1.26	77.3	62	11.2	6.55	2.45	2.20	0.018	0.014	60.1	47.5
SW3005-4	2	207	150	0.99	0.73	0.0262	0.0207	0.77	0.64	9.52	7.55	162	162	270	177	0.246	0.181	6.45	5	13.7	9.12	2.25	1.76	0.01	0.010	11.6	10.1
SW3006	6	596	293	0.604	0.479	0.0184	0.0140	0.82	0.52	26.2	9.26	192	138	481	251	0.558	0.262	35.8	20	7.34	3.42	1.71	1.35	0.01	0.008	18.2	6.9

Table 5, continued

Units: ug/L unless noted		Aluminum		Arsenic		Cadmium		Chromium		Copper		Hardness		Iron		Lead		Manganese		Molybdenum		Nickel		Silver		Zinc	
Water Quality Guidelines*		NA	NA	12.5	NA	0.12	NA	1.5 (Cr (III)/ 8 (Cr (IV)		3	2	(CaCO ₃) mg/L Ca		NA	NA	140	2	NA	NA	NA	NA	NA	NA	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
SW3014	4	184	112	1.1	0.8	0.0134	0.0121	0.62	0.47	34.5	20.63	322	203	220	157	0.17	0.092	41.8	31	5.7	4.18	1.13	1.00	0.01	0.010	23.2	15.5
SW3015	5	308	170	0.705	0.523	0.026	0.015	0.5	0.4	37.1	11.59	166	132	550	369	0.211	0.145	86.6	55	2.46	1.83	1.68	1.10	0.028	0.013	9.1	5.2
SW3016	7	5310	1059	3.38	1.28	0.339	0.090	9.94	2.25	73.4	19.72	1680	580	9430	1802	10.1	2.08	621	124	6.6	3.22	11	3.20	0.273	0.082	141	35.0
SW3020	5	364	168	1.08	0.76	0.067	0.0266	1	0.5	7.4	5.64	1420	554	2000	587	1.17	0.36	92.3	44	11.7	9.43	1.6	1.15	0.1	0.031	28	12.3
SW3020A	3	31.8	31	0.61	0.54	0.006	0.0053	0.34	0.27	4.89	4.18	286	209	52	44	0.141	0.085	4.26	4	11.5	10.37	0.69	0.54	0.01	0.010	2.8	2.1
SW3021	2	241	159	0.361	0.350	0.0053	0.0052	7.19	3.78	3.89	3.00	134	116	356	350	0.157	0.124	87.4	67	7.99	4.32	29.9	15.55	0.005	0.005	2.21	1.8
SW3021A	5	608	303	1.01	0.79	0.0098	0.0063	13.8	3.42	11.1	6.80	184	154	1800	1035	0.209	0.142	360	244	17.2	6.62	57.1	12.73	0.0113	0.010	5.1	3.6
SW3028	3	113	80	0.816	0.759	0.0129	0.0103	0.54	0.31	3.76	3.23	209	202	468	404	0.417	0.381	35.9	33	5.14	4.56	0.59	0.55	0.01	0.010	11.4	10.8
SW3028A	3	770	368	1.63	1.10	0.013	0.0087	1.55	0.75	7.36	3.64	261	196	3450	1918	1.06	0.41	835	490	1.47	1.07	2.99	1.68	0.01	0.010	23.5	12.1
SW3029	2	246	179	0.742	0.474	0.007	0.006	0.46	0.34	2.06	1.98	174	140	1320	717	0.205	0.139	267	137	0.781	0.74	1.28	0.95	0.01	0.010	9.3	7.9
SW3051	5	477	313	0.348	0.259	0.014	0.012	0.64	0.52	2.01	1.44	94.7	74	688	522	0.323	0.238	74.2	36	0.111	0.08	1.03	0.92	0.013	0.011	6.5	2.7
SW3051A	4	67.1	29	0.086	0.061	0.016	0.013	11	2.9	1.61	1.48	104	89	64	26	0.062	0.026	1.71	1	11	2.83	48.4	13.02	0.01	0.008	1.3	1.0
SW3077	6	12000	2326	3.45	1.073	0.119	0.037	21.2	4.30	36.8	10.95	188	153	14800	2859	5.98	1.20	354	93	2.82	1.53	21.3	4.74	0.062	0.019	110	22.6
SW3078	5	3000	996	0.971	0.451	0.057	0.021	5.25	1.69	13.7	6.68	135	111	5990	1657	1.8	0.5	347	99	0.402	0.24	5.66	2.24	0.028	0.014	97.8	29.0
SW3078A	6	1910	1220	4.1	1.6	0.038	0.0276	3.57	2.16	17.6	8.51	141	125	4980	2168	1.24	0.55	747	350	0.672	0.45	7.33	5.11	0.306	0.115	10.6	6.7
SW3079	6	949	386	1.72	0.75	0.021	0.011	1.39	0.65	3.93	2.23	151	110	944	498	0.766	0.228	69	44	3.68	1.46	3.1	1.36	0.011	0.009	8.2	4.6
SW3080A	5	625	297	1.01	0.610	0.02	0.01	0.86	0.52	8.36	5.49	238	153	611	340	0.35	0.18	148	58	7.14	3.63	1.66	1.32	0.01	0.009	25.7	21.6
SW3080B	2	199	113	1.02	0.791	0.0175	0.0163	0.36	0.24	6.88	6.11	213	183	176	103	0.151	0.099	20.4	12	4.16	3.58	0.88	0.80	0.01	0.010	15.4	10.0
SW3082	2	376	216	0.44	0.38	0.0185	0.0183	0.51	0.37	16.2	10.58	160	134	332	199	0.262	0.164	21.7	19	5.27	3.27	1.34	1.18	0.01	0.010	5.7	4.0
SW3085	3	286	174	0.274	0.225	0.015	0.0123	0.53	0.47	5.58	5.47	180	157	266	195	0.222	0.129	17.7	15	3.54	2.74	1.17	0.97	0.014	0.010	5.4	3.2
SW3087	5	2580	722	0.979	0.464	0.0146	0.0112	3.8	1.1	21	8.24	161	131	2750	755	0.559	0.211	57.4	32	2.2	1.51	3.01	1.36	0.014	0.010	10.8	6.1
SW3089A	3	692	374	0.707	0.617	0.012	0.010	1.13	0.74	4.3	3.86	115	98	668	363	0.298	0.139	16	9	3.65	2.20	1.84	1.61	0.011	0.010	6.8	3.8
SW3089AB	4	2840	928	2.08	0.97	0.106	0.046	4.51	1.55	25.8	10.75	241	159	5010	1589	1.58	0.50	662	200	2.8	1.94	4.7	1.97	0.025	0.014	45.7	15.9
SW3089BB	2	427	313	0.296	0.259	0.028	0.027	0.65	0.56	3.8	3.03	61.6	53	423	288	0.207	0.130	81.9	44	0.311	0.22	1.31	1.28	0.015	0.013	3.1	2.7
SW3089DD	4	240	119	0.599	0.428	0.031	0.022	0.46	0.31	113	49.28	257	179	263	132	0.401	0.155	12.4	7	18.5	14.38	1.11	0.88	0.02	0.013	6.1	2.6
SW3090	3	316	257	0.713	0.534	0.0101	0.0091	0.63	0.51	4.25	3.63	92	82	325	262	0.219	0.157	26.8	13	1.64	1.35	1.33	1.18	0.01	0.009	5.9	4.6
SW3091	2	922	659	0.757	0.591	0.15	0.0894	1.93	1.34	3.17	3.07	93.3	93	1170	759	0.459	0.307	47.9	29	1.77	1.37	1.63	1.52	0.01	0.009	15.3	13.1
SW3095	5	681	289	1.93	1.17	0.0195	0.0097	1.3	0.58	2.78	1.85	283	227	1260	631	0.311	0.150	657	303	7.93	2.54	2.37	1.51	0.01	0.010	10.7	6.0
SW3104	21	2150	199	13.2	3.16	0.167	0.0647	2.67	0.63	107	28.77	377	165	2030	681	1.69	0.30	104	57	11.9	5.22	10.2	2.91	0.022	0.008	165	56.0
SW3104-2	16	1950	228	20.4	6.68	0.158	0.0585	2.43	0.84	143	45.33	266	146	1910	800	0.807	0.280	139	49	7.2	4.39	7.08	3.69	0.018	0.008	212	68.5
SW3104-2A	10	1700	229	0.504	0.348	0.0156	0.0067	2.06	0.42	5.34	3.55	302	161	1510	251	0.561	0.088	25.3	15	14.6	7.98	2.23	1.08	0.015	0.008	9.1	3.8
SW3104-3	10	2560	539	0.707	0.529	0.0274	0.0099	3.12	0.82	8.04	3.99	144	121	2230	644	0.667	0.147	228	111	0.567	0.46	3.56	2.08	0.024	0.010	21.8	6.5
SW3104-4	6	1190	534	0.561	0.399	0.0211	0.0143	1.76	0.92	4.44	3.47	75.2	62	1340	652	0.432	0.221	87.7	29	0.365	0.31	2.24	1.41	0.014	0.008	6.4	4.0
SW3107B	2	985	947	29.7	16.96	0.186	0.1072	2.75	2.33	238	127	166	134	1840	1435	0.888	0.687	415	244	1.67	1.56	6.95	5.53	0.0136	0.012	482	271.0
SW3117A	3	579	346	0.578	0.516	0.036	0.0259	1.03	0.65	6.64	4.91	232	158	696	475	0.379	0.292	60.8	48	1.07	0.76	1.42	1.21	0.014	0.012	9.9	8.4
SW3118	4	1180	809	0.687	0.509	0.166	0.0499	1.76	1.33	5.5	4.1	102	96	1190	870	0.393	0.285	33.9	21	0.481	0.39	1.9	1.44	0.024	0.014	9	6.7
SW3118A	4	84.8	51	0.273	0.233	0.015	0.009	13.1	3.4	7.47	3.01	127	115	69	43	0.0658	0.049	2.1	2	13.5	3.68	55.4	14.19	0.01	0.009	1.6	1.2
SW3118AA	5	838	261	0.642	0.306	0.036	0.012	1.25	0.50	5.52	2.43	128	116	691	214	0.447	0.132	9.63	4	1.13	0.78	1.22	0.57	0.011	0.010	5.7	2.7

Table 5, continued

Units: ug/L unless noted		Aluminum		Arsenic		Cadmium		Chromium		Copper		Hardness		Iron		Lead		Manganese		Molybdenum		Nickel		Silver		Zinc	
Water Quality Guidelines*		NA	NA	12.5	NA	0.12	NA	1.5 (Cr (III)/ 8 (Cr (IV)		3	2	(CaCO ₃) mg/L Ca		NA	NA	140	2	NA	NA	NA	NA	NA	NA	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
SW3118C	6	469	114	0.308	0.173	0.017	0.009	0.78	0.29	7.87	3.84	161	120	435	99	0.3	0.07	9.65	4	0.942	0.41	1.84	1.00	0.01	0.010	21.4	4.9
SW3118D	5	6.2	5	0.232	0.178	0.005	0.005	1.66	0.75	4.6	2.80	148	139	5	5	0.02	0.02	4.5	3	2.04	1.11	7.6	3.35	0.01	0.010	2.9	2.6
SW3119	4	781	457	0.563	0.425	0.014	0.008	1.15	0.72	3.16	2.05	119	100	919	534	0.301	0.168	55.8	32	0.617	0.38	1.62	1.13	0.01	0.010	4.7	3.0
SW3120	4	363	193	0.682	0.390	0.0051	0.0050	0.66	0.41	2.39	1.65	120	97	425	230	0.121	0.079	12.3	9	0.795	0.52	0.97	0.64	0.01	0.010	2.7	2.3
SW3121	4	2780	1177	1.08	0.53	0.0272	0.0168	4.58	1.95	8.13	4.33	101	75	4280	1706	10.9	3.5	211	88	0.357	0.29	4.39	2.21	0.018	0.013	14.9	6.2
SW3122	2	134	113	0.178	0.178	0.0126	0.0089	0.28	0.21	1.01	0.92	108	97	152	118	0.168	0.154	4.79	3	0.207	0.19	0.5	0.41	0.01	0.010	1.7	1.7
SW3124	4	250	121	0.328	0.215	0.0179	0.0088	0.46	0.24	1.35	0.78	121	87	366	176	0.428	0.193	41.3	20	1.07	0.66	0.51	0.33	0.01	0.010	2.2	1.6
SW3125	4	76.1	54	0.072	0.067	0.172	0.085	0.15	0.11	2.14	1.22	57	46	80	57	0.07	0.05	3.78	3	0.611	0.50	0.15	0.13	0.01	0.009	1.3	1.1
SW3125-1	4	289	101	0.146	0.089	0.007	0.006	0.4	0.24	1.24	0.73	51.4	47	251	88	0.154	0.063	9.73	4	0.639	0.58	0.3	0.15	0.01	0.010	2.2	1.4
SW3125-3	3	443	195	0.2	0.151	0.008	0.007	0.6	0.31	1.69	1.23	52	46	375	186	0.183	0.085	17.8	8	0.867	0.72	0.54	0.31	0.01	0.008	3.1	2.1
SW3125A	3	106	69	0.313	0.200	0.0119	0.0073	0.29	0.26	3.46	1.61	94.2	75	99	70	0.064	0.043	31	24	0.427	0.34	0.85	0.68	0.01	0.010	12.2	5.1
SW3125B	3	908	447	0.345	0.200	0.0318	0.0184	0.99	0.58	4.52	2.10	70.6	65	1060	509	1.25	0.51	60.1	25	0.336	0.26	1.05	0.68	0.01	0.010	12.9	5.7
SW3125C	4	279	222	1.38	0.433	0.02	0.01	0.59	0.48	7.39	2.62	145	88	1280	546	0.995	0.431	230	75	6.71	1.87	0.9	0.56	0.011	0.010	4.4	3.4
SW3128	2	199	128	0.412	0.253	0.015	0.012	0.42	0.30	23.4	12.3	247	161	198	123	0.095	0.061	9.94	6	19.7	10.09	0.58	0.54	0.01	0.010	4	2.5
SW3133	7	477	123	0.745	0.515	0.205	0.047	0.96	0.33	3.63	1.85	120	104	928	311	0.66	0.148	348	106	0.641	0.55	1.34	0.60	0.01	0.009	6.3	2.2
SW3133-2	8	2570	586	1.3	0.8	0.291	0.082	5.38	2.85	39.2	22.1	143	91	3540	882	3.8	1.3	326	89	6.86	2.05	3.74	2.38	0.023	0.012	151	78.6
SW3133-3A	3	940	443	0.967	0.871	0.178	0.115	7.06	3.25	125	60.2	90.4	63	1210	744	1.66	1.17	35.4	30	2.66	1.80	8.1	3.72	0.011	0.010	127	105.4
SW3133-3B	2	589	328	0.758	0.494	0.421	0.283	1.62	1.04	86.3	74.4	24.3	21	829	568	2.19	1.40	28	23	0.962	0.66	2.2	1.85	0.012	0.011	288	259.0
SW3136	3	317	233	0.373	0.354	0.0176	0.0142	0.45	0.39	1.92	1.62	169	153	498	304	0.495	0.248	29.8	17	0.476	0.42	1.46	1.00	0.026	0.015	5.6	2.9
SW3137	2	2610	1368	0.75	0.585	0.0202	0.0131	5.08	2.67	5.46	3.05	159	128	3330	1841	1.01	0.55	399	290	0.314	0.27	3.85	2.31	0.01	0.010	18.4	10.1
SW3138	7	725	244	0.597	0.512	0.0245	0.0150	9.98	2.08	5.57	2.74	269	204	922	293	0.611	0.205	19.7	7	12	3.20	40.9	6.58	0.01	0.009	11.9	5.0
SW3141	2	2400	1208	1.74	0.920	0.0739	0.0434	5.47	3.56	53.8	32.5	26.2	21	3310	1676	3.71	1.88	91.5	47	2.52	2.07	8.01	7.45	0.043	0.024	129	73.7
SW3142	5	254	132	0.503	0.389	0.012	0.011	1.81	0.64	4.06	2.98	174	134	214	115	0.247	0.127	9.83	8	2.3	1.18	7.39	1.94	0.01	0.007	26.9	14.2
SW3145	7	202	108	0.278	0.239	0.0114	0.0083	0.63	0.32	3.07	2.11	150	120	212	104	0.2	0.1	5.94	4	0.766	0.52	2.15	0.68	0.01	0.008	18.5	12.1
SW3145A	3	161	106	0.801	0.496	0.0214	0.0122	0.42	0.32	3.07	2.44	187	147	148	96	0.136	0.075	104	37	3.52	1.51	1.25	0.99	0.01	0.007	5.4	3.3
SW3146	6	475	137	0.751	0.526	0.058	0.019	0.81	0.42	8.61	4.41	230	163	454	145	0.4	0.1	12.2	6	8.82	3.65	3.87	2.32	0.01	0.007	40.3	14.8
SW3148	4	310	186	0.336	0.241	0.0131	0.0073	0.49	0.40	2.6	1.96	122	111	317	208	0.205	0.144	19.6	11	0.512	0.40	0.51	0.41	0.01	0.010	3.7	2.6
SW3150	5	2140	570	0.702	0.473	0.943	0.217	3.3	1.2	61.8	17.5	1500	404	2400	612	1.5	0.7	140	38	2.69	0.85	2.36	1.18	0.1	0.029	92.3	30.0
SW3151	1	665	665	1.01	1.010	0.114	0.114	3.68	3.68	248	248	59.3	59	127	127	0.272	0.272	47.9	48	0.572	0.57	4.43	4.43	0.012	0.012	241	241.0
SW3154	4	213	105	1.01	0.811	0.0159	0.0084	0.82	0.46	4.43	2.11	153	122	2630	1025	0.239	0.158	266	155	0.743	0.53	3.38	1.55	0.012	0.009	3.6	2.1

Notes
Average concentrations of data collected between 2023 and 2025 are shown
All metals are in total state
Non-detected values were reported as the detection limit
Units are µg/L for all metals; mg/L for hardness
*British Columbia approved and working water quality guidelines for protection of marine aquatic life were used for comparison
Although aquatic life guidelines do not apply to stormdrains, these comparisons indicate potential impacts to the marine environment from ongoing inputs

XX Result value exceeds the provincial average guideline for protection of marine aquatic life.

APPENDIX F

2025 WATERCOURSE MONITORING DATA

Table 1. Saanich Peninsula Streams Data

		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	acute /instantaneous	-	-	-	74	-	5	-	-	-	-	0.95-1.1 ²	-	-	1 / 8.9 ^{1,3}	0.4- 0.6	-	-	3.4 - 54 ⁴	-
Guidelines*	chronic /average	-	230-460 ²	-	250	-	-	-	1,000 ¹	-	1,200 ¹	0.06-0.3	-	-	-	-	-	-	8.3 - 23.3 ⁴	-
SW3104																				
Summer																				
28/08/2025		26.1	143	0.159	0.178	6.86	8.18	19.2	23.4	100	128	0.145	0.167	0.4	0.69	1.42	1.73	662	60.7	69.8
04/09/2025		3.01	147	0.154	0.138	4.38	4.56	13.8	16	92	87	0.134	0.123	0.23	0.5	1.13	1.18	617	45.3	43.9
11/09/2025		4.14	126	0.111	0.11	4.23	4.55	12.8	15.2	92	75	0.114	0.0982	0.27	0.45	1.32	1.32	595	40.1	39.4
Summer average		11.08	139	0.141	0.142	5.16	5.76	15.3	18	95	97	0.131	0.129	0.30	0.5	1.29	1.4	625	48.7	51.0
Fall																				
05/11/2025		7.6	94.1	0.198	0.173	1.18	1.29	15.5	15.7	39	44	0.0345	0.0328	0.16	0.32	0.887	0.882	490	15.7	15.1
12/11/2025		3.69	49.1	0.131	0.126	0.667	0.754	12.7	12.6	36	35	0.0178	0.0183	<0.1	0.23	0.69	0.695	507	3.43	3.69
19/11/2025		4.24	66.7	0.143	0.153	0.689	0.871	11.5	12.5	34	35	0.013	0.0145	0.12	0.24	0.636	0.68	469	3.48	4.09
26/11/2025		34.8	859	0.199	0.22	1.12	1.34	8.17	12.4	26	23	0.0138	0.0156	0.56	1.61	0.387	0.599	251	5.25	6.5
10/12/2025		81.1	2150	0.148	0.167	0.665	1.02	7.76	19.9	21	24	0.0111	0.0281	0.45	2.67	0.211	0.79	173	4.47	7.86
Fall average		26.3	644	0.164	0.168	0.86	1.06	11.1	15	31	32	0.018	0.022	0.3	1.0	0.56	0.73	378	6.5	7.4
SW3104-2																				
Summer																				
28/08/2025		23.2	97.1	0.161	0.179	12.7	14.6	32	40.6	170	206	0.134	0.158	0.56	0.83	2.16	2.56	807	124	139
04/09/2025		15.5	99.1	0.175	0.126	20.4	18.7	28.9	27.4	180	168	0.151	0.127	1.36	1.78	1.7	1.66	739	143	140
11/09/2025		24.9	156	0.153	0.146	13.6	13.2	12.7	12.9	91	80	0.0725	0.0768	0.92	1.08	1.57	1.53	650	58.5	56.8
Summer average		21.2	117	0.163	0.150	15.6	15.5	24.5	27	147	151	0.119	0.121	0.95	1.23	1.81	1.92	732	109	112
Fall																				
05/11/2025		13.6	122	0.217	0.232	1.65	1.67	13.3	14	30	31	0.0264	0.0352	0.4	0.52	0.786	0.845	450	10.9	11.4
12/11/2025		7.18	102	0.14	0.147	1.47	1.62	14	15.2	33	35	0.0266	0.0298	0.19	0.33	0.976	1.06	564	4.77	5.16
19/11/2025		8.26	104	0.146	0.152	1.24	1.34	12.5	13.8	30	33	0.016	0.0182	0.23	0.33	0.731	0.766	484	4.34	4.8
26/11/2025		32.1	812	0.178	0.171	1.44	1.55	9.69	13.7	24	23	0.0136	0.0169	0.59	1.44	0.417	0.636	269	4.98	6.23
10/12/2025		80.5	1950	0.102	0.112	0.708	0.932	8.67	19.2	21	26	0.0101	0.0244	0.45	2.43	0.218	0.688	189	4.35	7.05
Fall average		28.3	618	0.157	0.163	1.30	1.42	11.6	15	28	30	0.019	0.025	0.4	1.0	0.63	0.80	391	5.9	6.9
SW3104-2A																				
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																				
05/11/2025		3.79	30.4	0.123	0.11	0.33	0.328	28.4	27.4	17	20	<0.005	0.0081	0.12	0.14	0.104	0.109	961	3.4	3.45
12/11/2025		3.58	27.5	0.094	0.096	0.29	0.304	21.3	20.4	20	21	<0.005	0.0054	0.1	0.11	0.0923	0.105	792	2.95	3.12
19/11/2025		5.66	67.9	0.108	0.105	0.312	0.334	14.8	14.8	19	19	<0.005	0.0059	0.15	0.27	0.0896	0.111	536	3.07	3.42

Table 1, continued

		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	acute /instantaneous	-	-	-	74	-	5	-	-	-	-	0.95-1.1 ²	-	-	1 / 8.9 ^{1,3}	0.4- 0.6	-	-	3.4 - 54 ⁴	-
Guidelines*	chronic /average	-	230-460 ²	-	250	-	-	-	1,000 ¹	-	1,200 ¹	0.06-0.3	-	-	-	-	-	-	8.3 - 23.3 ₄	-
26/11/2025		18.6	358	0.156	0.177	0.341	0.414	10.4	13.2	19	21	0.0055	0.0068	0.25	0.66	0.0969	0.178	321	3.41	4.3
10/12/2025		71.1	1700	0.099	0.11	0.324	0.504	6.47	15.9	14	16	0.005	0.0156	0.36	2.06	0.106	0.537	128	2.99	5.34
Fall average		20.5	437	0.116	0.120	0.32	0.38	16.3	18	18	19	0.005	0.008	0.2	0.6	0.10	0.21	548	3.2	3.9
SW3104-3																				
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																				
05/11/2025		14	376	0.071	0.079	0.558	0.637	14.9	17.5	52	55	<0.005	<0.01	0.18	0.6	0.261	0.414	411	2.63	3.06
12/11/2025		9.51	270	0.071	0.077	0.435	0.553	14.9	18	54	59	<0.005	0.006	0.15	0.43	0.255	0.374	432	2.07	2.66
19/11/2025		8.49	305	0.077	0.079	0.394	0.46	15	17.6	52	56	<0.005	0.0055	0.16	0.56	0.222	0.278	446	2.1	2.56
26/11/2025		48.8	1710	0.123	0.115	0.447	0.707	14.7	25.8	54	56	0.0086	0.0157	0.38	2.23	0.239	0.641	384	4.48	7.54
10/12/2025		87.1	2560	0.105	0.111	0.428	0.669	11.2	25	29	33	0.0112	0.0274	0.4	3.12	0.239	0.887	232.1	4.77	8.04
Fall average		33.6	1044	0.089	0.092	0.45	0.61	14.1	21	48	52	0.007	0.013	0.3	1.4	0.24	0.52	381	3.2	4.8
SW3104-4																				
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																				
05/11/2025 (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2025 (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2025		19.7	971	0.087	0.143	0.34	0.561	9.91	17	12	13	0.0116	0.0211	0.24	1.76	0.437	1.11	74.5	2.66	4.44
26/11/2025		40.8	878	0.079	0.097	0.324	0.408	8	12.5	14	14	0.0132	0.0192	0.38	1.25	0.437	0.696	180	2.92	3.97
10/12/2025		107	1190	0.079	0.095	0.329	0.433	7.41	15.1	12	14	0.0069	0.014	0.38	1.51	0.151	0.424	124	2.66	4.16
Fall average		55.8	1013	0.082	0.112	0.33	0.47	8.4	15	13	14	0.011	0.018	0.3	1.5	0.34	0.74	127	2.75	4.2

Table 1, continued

		Oxygen	E. Coli	Flow Rate	Hardness (CaCO3)	Iron		Lead		Magnesium		Manganese		Molybdenum		No2 (N)
	State	DIS	NA	NA	DIS	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	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	µg/L	mg/L	mg/L
BC FW AL	acute /instantaneous	5 ⁵	400 ⁶	-	-	350	1,000	-	-	-	-	1569-8289 ₂	-			0.24
Guidelines*	chronic /average	8 ⁵	200 ⁶	-	-	-	-	5.3-10.1 ²	-	-	-	295-350 ²	-			0.08
SW3104																
Summer																
28/08/2025		6.9	72	60	207	1140	1440	0.314	0.411	18.7	22.2	45.4	56.3	5.53	6.77	0.0398
04/09/2025		6.3	82	60	203	419	967	0.161	0.306	18.9	17.9	0.58	40	5.68	5.17	0.0389
11/09/2025		6.4	75	60	213	463	860	0.167	0.276	19.4	17.7	22.4	51.6	5.28	4.7	0.0297
Summer average		6.5	76	60	208	674	1089	0.214	0.331	19.0	19.3	22.8	49.3	5.50	5.5	0.0361
Fall																
05/11/2025		9.4	29	350	159	235	429	0.136	0.178	12.7	12.2	70.3	81.7	11.9	11.1	0.013
12/11/2025		9.3	21	250	171	91	271	0.052	0.09	14.3	13.8	93.6	104	6.48	6.52	<0.002
19/11/2025		8.5	21	300	155	84.4	291	0.0486	0.0849	13.7	14.1	94.2	104	5.74	5.96	0.0036
26/11/2025		10.3	92	1000	81.6	152	818	0.134	0.802	7.13	7.05	13.6	56.8	3.06	2.8	0.0028
10/12/2025		11.8	200	3000	54.5	192	2030	0.15	1.69	4.6	5.95	18.2	76	1.15	1.14	<0.02
Fall average		9.9	47	980	124	151	768	0.10	0.57	10.5	10.6	58.0	85	5.67	5.5	0.01
SW3104-2																
Summer																
28/08/2025		4.5	59	18	241	1580	1860	0.331	0.538	21.7	23.9	46.5	57	4.08	4.97	0.0393
04/09/2025		5.2	77	18	208	1910	1910	0.794	0.807	18.6	17	12.7	29.7	4.29	3.9	0.0436
11/09/2025		4.3	61	18	104	651	760	0.128	0.186	9.55	8.92	15.6	23.5	3.51	3.5	0.0139
Summer average		4.7	65	18	184	1380	1510	0.418	0.510	16.6	16.6	24.9	36.7	3.96	4.1	0.0323
Fall																
05/11/2025		7.9	20	300	136	148	284	0.108	0.187	11.1	11.2	37.7	45.1	7.2	7.1	0.0096
12/11/2025		5.4	24	200	179	145	337	0.0611	0.122	14.1	14	99.9	139	5.7	6.33	0.0048
19/11/2025		6.5	15	300	152	137	283	0.06	0.0961	12.2	12.5	81.4	90.6	5.85	5.79	0.0044
26/11/2025		9.8	43	800	84.2	149	763	0.0603	0.326	6.79	7.3	19.2	39.2	3.03	2.98	0.0037
10/12/2025		11.3	98	2500	59.6	188	1690	0.0558	0.626	5.05	6.37	13.2	38.9	0.987	0.974	<0.02
Fall average		8.2	31	820	122	153	671	0.07	0.27	9.8	10.3	50.3	71	4.55	4.6	0.01
SW3104-2A																
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																
05/11/2025		10.8	25	200	302	31.9	86.2	<0.005	0.033	17.5	16.3	18.5	18.9	14.6	14.2	0.0028
12/11/2025		10.7	9	26	218	26.4	80.5	<0.005	<0.02	14.1	13.9	17	18.3	11	11.2	<0.002
19/11/2025		10.5	9	80	153	33.6	130	0.0054	0.028	10.8	11.4	9.84	12.7	8.39	8.12	<0.002
26/11/2025		9.7	38	250	96.8	84	390	0.0223	0.155	6.8	7.57	7.33	11.7	4.64	4.9	0.0026

Table 1, continued

		Oxygen	E. Coli	Flow Rate	Hardness (CaCO3)	Iron		Lead		Magnesium		Manganese		Molybdenum		No2 (N)
	State	DIS	NA	NA	DIS	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	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	µg/L	mg/L	mg/L
BC FW AL	acute /instantaneous	5 ⁵	400 ⁶	-	-	350	1,000	-	-	-	-	1569-8289 ₂	-			0.24
Guidelines*	chronic /average	8 ⁵	200 ⁶	-	-	-	-	5.3-10.1 ²	-	-	-	295-350 ²	-			0.08
10/12/2025		9.8	100	1000	42.8	141	1510	0.0407	0.561	3.14	4.14	6.71	25.3	1.38	1.37	<0.02
Fall average		10.3	24	311	163	63	439	0.02	0.02	10.5	10.7	11.9	17	8.00	8.0	0.006
SW3104-3																
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																
05/11/2025		4.1	21	30	135	184	761	0.0133	0.12	15.8	14.4	129	228	0.464	0.4	0.004
12/11/2025		3.4	11	30	137	169	644	<0.005	0.084	15.8	16.5	160	211	0.423	0.442	0.0112
19/11/2025		2.2	3	15	135	85.1	355	<0.005	0.0459	15.4	16.4	91.3	98.4	0.401	0.413	0.0126
26/11/2025		7.3	29	60	116	213	1590	0.0306	0.446	12.8	13.7	36.4	80.6	0.522	0.567	0.0188
10/12/2025		10.9	200	1000	72.9	211	2230	0.053	0.667	6.81	7.68	11.8	58.8	0.468	0.497	0.024
Fall average		5.6	21	227	119	172	1116	0.02	0.27	13.3	13.7	85.7	135	0.46	0.5	0.01
SW3104-4																
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																
05/11/2025 (no flow)		-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2025 (no flow)		-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2025		8.6	4	40	73.1	138	1340	0.0639	0.432	5.42	5.98	15.6	87.7	0.281	0.316	<0.002
26/11/2025		9.7	58	250	65.7	254	917	0.086	0.28	4.92	5.4	5.29	40.9	0.305	0.303	<0.002
10/12/2025		9.6	170	1000	42.3	203	1060	0.0609	0.404	3.01	3.75	4.83	22.2	0.308	0.365	<0.02
Fall average		9.3	34	430	60	198	1106	0.07	0.37	4.5	5.0	8.6	50	0.30	0.3	0.01

Table 1, continued

		No3 (N)	Nickel		O. Carbon	pH	Phosphorus	Potassium		Selenium		Silver		Sodium		Strontium	
	State	DIS	DIS	TOT	DIS	NA	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
	Unit	mg/L	µg/L	µg/L	mg/L	pH	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L
BC FW AL	acute /instantaneous	32.8	43 -142 ²	-	-	6.5-9 ⁸	0.01 ⁷	-	-	-	-	-	-	-	-	-	-
Guidelines*	chronic /average	3	2.8-11.1 ²	-	-	-	0.005 ⁷	-	-	-	2 / 1 ⁹	-	0.25	-	-	-	-
SW3104																	
Summer																	
28/08/2025		18.6	3.89	4.61	8.6	7.45	1.4	30	35.5	0.102	0.114	<0.005	<0.01	22.3	26	220	269
04/09/2025		11.8	3.3	3.29	7.5	7.51	0.79	25.8	22.7	0.109	0.104	<0.005	<0.01	23.7	21.5	219	197
11/09/2025		11.5	3.26	3.38	6.5	7.54	0.73	24.8	22.6	0.099	0.1	<0.005	<0.01	23.7	21.7	218	194
Summer average		14.0	3.5	3.76	7.5	7.50	0.97	26.9	26.9	0.103	0.1	0.005	0.01	23.2	23.1	219	220
Fall																	
05/11/2025		2.35	2.49	2.52	6.5	7.48	-	8.17	7.78	0.377	0.348	<0.005	<0.01	33.6	31	181	178
12/11/2025		0.493	2.11	2.15	4.9	7.43	-	3.37	3.26	0.185	0.175	<0.005	<0.01	32.8	31.2	190	173
19/11/2025		0.706	2.03	2.13	5.2	7.43	-	2.92	3.11	0.182	0.188	<0.005	0.005	30.4	31.3	169	182
26/11/2025		1.42	1.39	2.05	9	7.27	-	2.11	2.14	0.15	0.144	<0.005	0.011	16.1	15.7	87.1	85.5
10/12/2025		2.07	1.04	3.01	9.5	7.17	-	1.83	1.93	0.123	0.134	0.0058	0.022	10.3	11	58.8	64.3
Fall average		1.41	1.81	2.37	7	7.36	-	3.68	3.64	0.203	0.198	0.005	0.01	24.6	24	137	137
SW3104-2																	
Summer																	
28/08/2025		42.3	5.72	6.31	13	7.16	2.7	57	63.3	0.064	0.08	<0.005	<0.01	14.3	15.9	241	285
04/09/2025		37.1	7.08	6.78	16	6.77	3.2	65.6	56.3	0.088	0.085	<0.005	<0.01	10.8	10.2	202	183
11/09/2025		12.5	4.24	4.21	13	7.23	2	30.5	28.1	0.068	0.069	<0.005	<0.01	9.14	8.25	101	93.8
Summer average		30.6	5.7	5.77	14	7.05	2.6	51.0	49.2	0.073	0.1	0.005	0.01	11.4	11.5	181	187
Fall																	
05/11/2025		2.18	2.42	2.81	6.3	7.42	-	5.79	5.86	0.458	0.414	<0.005	<0.01	31.9	32.1	145	157
12/11/2025		0.787	3.29	3.37	7.4	7.28	-	4.5	4.48	0.42	0.428	<0.005	<0.01	41.3	41.2	193	188
19/11/2025		0.815	2.67	2.8	7.1	7.31	-	3.53	3.63	0.33	0.32	<0.005	0.005	32.7	33.9	166	174
26/11/2025		1.69	1.4	2.05	10	7.26	-	2.59	2.58	0.214	0.205	<0.005	<0.01	17.2	17.1	86.3	88.4
10/12/2025		2.47	1.07	2.82	10	7.13	-	2.03	2.09	0.136	0.142	<0.005	0.018	11.2	11.6	60.7	69.4
Fall average		1.59	2.17	2.77	8.16	7.28	-	3.69	3.73	0.312	0.302	0.005	0.01	26.9	27	130	135
SW3104-2A																	
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																	
05/11/2025		0.0759	1.03	1.06	6.6	7.67	-	1.82	1.7	1.36	1.23	<0.005	<0.01	86.3	80.2	311	312
12/11/2025		0.0588	0.957	0.97	5.8	7.8	-	1.38	1.32	1.11	1.09	<0.005	<0.01	64.8	63.8	254	228
19/11/2025		0.0356	0.925	0.99	6.8	7.76	-	1.28	1.24	0.568	0.59	<0.005	<0.01	40.7	40.1	180	177
26/11/2025		1.13	0.775	1.1	9.9	7.39	-	1.22	1.36	0.324	0.366	<0.005	<0.01	21.5	23.3	99.8	109

Table 1, continued

		No3 (N)	Nickel		O. Carbon	pH	Phosphorus	Potassium		Selenium		Silver		Sodium		Strontium	
	State	DIS	DIS	TOT	DIS	NA	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
	Unit	mg/L	µg/L	µg/L	mg/L	pH	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L
BC FW AL	acute /instantaneous	32.8	43 -142 ²	-	-	6.5-9 ⁸	0.01 ⁷	-	-	-	-	-	-	-	-	-	-
Guidelines*	chronic /average	3	2.8-11.1 ²	-	-	-	0.005 ⁷	-	-	-	2 / 1 ⁹	-	0.25	-	-	-	-
10/12/2025		1.03	0.774	2.23	9.4	7.02	-	0.878	0.96	0.131	0.167	<0.005	0.015	8.81	9.43	41.3	46
Fall average		0.47	0.89	1.27	7.70	7.53	-	1.32	1.32	0.699	0.689	0.005	0.01	44.4	43	177	174
SW3104-3																	
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																	
05/11/2025		0.151	2.03	2.42	12	7.26	-	6.19	5.52	0.11	0.1	<0.005	0.02	30.1	28	126	123
12/11/2025		0.591	1.68	2.01	10	7.23	-	5.76	6.03	0.089	0.106	<0.005	<0.01	28	29	134	139
19/11/2025		1.29	1.56	1.84	8.9	7.22	-	5.59	5.89	0.092	0.086	<0.005	0.005	28.2	29.3	137	143
26/11/2025		6.61	1.36	3.07	15	7.19	-	4.83	5.27	0.137	0.171	<0.005	0.016	23.1	24	117	127
10/12/2025		4.02	1.23	3.56	12	7.09	-	2.77	2.78	0.144	0.165	0.0053	0.024	13	13.4	76.1	83.1
Fall average		2.53	1.57	2.58	11.58	7.20	-	5.03	5.10	0.114	0.126	0.005	0.02	24.5	25	118	123
SW3104-4																	
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																	
05/11/2025 (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2025 (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2025		0.0089	1.11	2.24	8.7	6.99	-	1.13	1.23	0.057	0.063	<0.005	<0.01	9.15	9	77.9	80.4
26/11/2025		0.336	1.07	1.65	14	6.98	-	1.25	1.3	0.087	0.087	<0.005	0.011	9.06	9.16	66.1	67.9
10/12/2025		0.223	0.717	1.7	10	7.11	-	1.05	1.14	0.075	0.09	0.0055	0.014	6.26	6.98	45.1	51.6
Fall average		0.19	0.97	1.86	10.90	7.03	-	1.14	1.22	0.073	0.080	0.005	0.01	8.2	8	63	67

Table 1, continued

		Sulfur		Temperature	Tin		Titanium		S. Solids	Turbidity	Uranium		Vanadium		Zinc		Zirconium	
	State	DIS	TOT	NA	DIS	TOT	DIS	TOT	TOT	NA	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
	Unit	mg/L	mg/L	°C	µg/L	µg/L	µg/L	µg/L	mg/L	NTU	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BC FW AL	acute /instantaneous	-	-	-	-	-	-	-	27 ¹¹	9 ¹²	-	-	-	-	14-96 ²	-	-	-
Guidelines*	chronic /average	-	-	17 ¹⁰	-	-	-	-	7 ¹¹	3 ¹²	-	-	-	-	4.4-35.7 ²	-	-	-
SW3104																		
Summer																		
28/08/2025		28.6	32.5	15.5	<0.2	<0.2	0.74	5	3.2	7.99	0.246	0.315	1.91	2.51	128	147	<0.1	<0.1
04/09/2025		25.2	25.9	14.9	<0.2	<0.2	0.5	7.5	4.8	7.49	0.35	0.348	1.73	2.12	105	101	<0.1	<0.1
11/09/2025		26.7	20.6	13.8	<0.2	<0.2	0.5	5.1	5.6	6.92	0.389	0.32	1.74	2.07	90.6	91.2	<0.1	0.14
Summer average		26.8	26.3	14.7	0.2	0.2	0.6	5.9	4.5	7.47	0.33	0.33	1.79	2.23	108	113	0.1	0.11
Fall																		
05/11/2025		19	19.8	10.6	<0.2	<0.2	0.59	4.4	<1	2.97	0.534	0.467	0.87	0.98	27.1	27.6	<0.1	0.15
12/11/2025		14.7	14.6	9	<0.2	<0.2	0.5	2	2	2.07	0.496	0.525	0.52	0.6	11	11.8	<0.1	<0.1
19/11/2025		12.3	13.1	8.9	<0.2	<0.2	0.5	3.07	<1	1.95	0.436	0.455	0.56	0.75	9.57	11.2	<0.1	<0.1
26/11/2025		8	7.4	9	<0.2	<0.2	3.79	38.1	4.4	18.9	0.124	0.143	1.09	2.67	8.64	14.8	0.17	0.64
10/12/2025		3	3	8.8	<0.2	<0.2	8.84	71.9	28	62.2	0.0647	0.134	1.33	4.89	7.48	20.5	0.27	0.53
Fall average		11	12	9	0.2	0.2	2.8	24	7	17.6	0.331	0.345	0.87	1.98	13	16	0.05	0.30
SW3104-2																		
Summer																		
28/08/2025		43.5	56.1	16	<0.2	<0.2	0.5	2	1.2	1.94	0.11	0.186	2.78	3.11	190	212	<0.1	<0.1
04/09/2025		46	46.3	15.8	<0.2	<0.2	0.5	4.2	3.2	2.11	0.06	0.082	2.95	3.01	175	167	<0.1	<0.1
11/09/2025		23.2	18.2	15	<0.2	<0.2	0.91	6.7	3.2	2.2	0.0639	0.0598	3.63	3.71	86.6	87.2	<0.1	0.15
Summer average		37.6	40.2	15.6	0.2	0.2	0.6	4.3	2.5	2.08	0.08	0.11	3.12	3.28	151	155	0.1	0.12
Fall																		
05/11/2025		19.8	22.2	10.7	<0.2	<0.2	0.7	4.8	1.2	3.45	0.485	0.437	1.46	1.63	25.8	29.2	<0.1	<0.1
12/11/2025		22.1	22.8	8.2	<0.2	<0.2	0.5	3.8	2.4	2.49	0.505	0.585	0.96	1.15	20.2	21.7	<0.1	<0.1
19/11/2025		17.4	17.9	8	<0.2	<0.2	0.54	5.01	<1	2.75	0.447	0.452	0.93	1.11	13.9	15.2	<0.1	0.16
26/11/2025		7.8	6.8	8.4	<0.2	<0.2	3.19	33.1	3.6	15.4	0.119	0.158	1.14	2.67	10	15.6	0.19	0.61
10/12/2025		3.1	3	8.7	<0.2	<0.2	8.4	67.1	20	48.3	0.068	0.118	1.38	4.42	8.07	18.4	0.28	0.47
Fall average		14	15	9	0.2	0.2	2.7	23	6	14.5	0.325	0.350	1.17	2.20	16	16	0.15	0.29
SW3104-2A																		
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																		
05/11/2025		58	55.3	11.2	<0.2	<0.2	0.5	2	2	1.44	1.75	1.48	0.6	0.6	3.84	4.7	<0.1	<0.1
12/11/2025		40.8	40.9	9.3	<0.2	<0.2	0.5	2	<1	1.28	1.01	1.08	0.5	0.52	2.83	3.1	<0.1	<0.1
19/11/2025		24.7	21.4	9.2	<0.2	<0.2	0.5	3.1	<1	2.98	0.681	0.704	0.68	0.91	1.93	2.7	<0.1	<0.1
26/11/2025		11.5	10.8	8.4	<0.2	<0.2	1.69	13.8	2.4	8.61	0.208	0.24	0.86	1.67	2.51	4.9	0.13	0.26

Table 1, continued

		Sulfur		Temperature	Tin		Titanium		S. Solids	Turbidity	Uranium		Vanadium		Zinc		Zirconium	
	State	DIS	TOT	NA	DIS	TOT	DIS	TOT	TOT	NA	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
	Unit	mg/L	mg/L	°C	µg/L	µg/L	µg/L	µg/L	mg/L	NTU	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BC FW AL	acute /instantaneous	-	-	-	-	-	-	-	27 ¹¹	9 ¹²	-	-	-	-	14-96 ²	-	-	-
Guidelines*	chronic /average	-	-	17 ¹⁰	-	-	-	-	7 ¹¹	3 ¹²	-	-	-	-	4.4-35.7 ²	-	-	-
10/12/2025		3	3	8.9	<0.2	<0.2	5.7	51.3	24	46.5	0.0519	0.0977	1.06	3.93	2.62	9.1	0.29	0.28
Fall average		28	26	9	0.2	0.2	1.8	14	6	12.2	0.740	0.720	0.74	1.53	2.75	5.6	0.14	0.17
SW3104-3																		
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																		
05/11/2025		7.9	8.5	8.9	<0.2	0.4	1.23	13.8	13	11.5	0.0908	0.091	0.88	1.53	1.62	3.9	0.12	0.2
12/11/2025		5.7	6.1	7.6	<0.2	<0.2	0.68	9.4	4.4	5.52	0.0689	0.0992	0.67	1.22	1.54	3.1	<0.1	0.15
19/11/2025		5	5.3	7.2	<0.2	<0.2	0.61	11.9	1.2	4.83	0.0748	0.0921	0.67	1.13	1.45	2.48	<0.1	0.34
26/11/2025		5.6	4.4	8.3	<0.2	<0.2	5.75	60	22	44.1	0.0635	0.125	1.51	4.63	4.93	15.6	0.23	0.4
10/12/2025		3	3	8.5	<0.2	<0.2	9.61	83.5	28	60	0.0639	0.137	1.57	5.7	8.52	21.8	0.32	0.46
Fall average		5	5	8	0.2	0.2	3.6	36	14	25.2	0.072	0.109	1.06	2.84	3.61	13.3	0.17	0.31
SW3104-4																		
Summer (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fall																		
05/11/2025 (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2025 (no flow)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2025		7	7.1	7.9	<0.2	<0.2	1.87	46.7	8.8	8.2	0.0222	0.0563	0.94	3.84	2.05	6.4	0.13	0.3
26/11/2025		3.9	4.8	7.3	<0.2	<0.2	5.7	37.7	5.2	15.2	0.0371	0.0571	0.97	2.69	2.87	5.6	0.23	0.49
10/12/2025		3	3	8.8	<0.2	<0.2	9.45	44.2	10	30.1	0.0494	0.0833	1.16	2.92	1.57	5.3	0.3	0.45
Fall average		5	5	8	0.2	0.2	5.7	43	8	17.8	0.036	0.066	1.02	3.15	2.16	5.8	0.22	0.41

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, the station has exceeded.
flow is a visual estimate
¹BC ENV working water quality guideline
²water quality-dependant guideline
³Cr(IV) / Cr (III)
⁴sample specific BC Biotic Ligand Model guidelines; if > 1 of 5 samples or average of the 5 samples exceed chronic guideline, station has exceeded.
⁵guidelines are for minimum values for dissolved oxygen
⁶guideline for protection of recreational contact; E.coli values in the "Average" row are geomeans.
⁷draft Vancouver Island Objective, applies to monthly samples collected June to September; compared to data collected 5 times in 30 days (August to September)
⁸optimum pH range
⁹2 µg/L is the chronic guideline; 1 µg/L is an alert concentration for protection of aquatic life in sensitive ecosystems
¹⁰draft objective proposed to protect juvenile Coho (the most sensitive species); average weekly temperature at any location in the creeks
¹¹based ambient levels of 2 mg/L in the upper Sooke River watersheds
¹²max: 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	lue exceeds an acute or chronic provincial guideline protective for aquatic life
XX	licized value exceeds a guideline/objective which is only partially applicable. Further investigation is needed.

APPENDIX G

CRD PUBLIC HEALTH AND ENVIRONMENTAL CONCERN RATING SYSTEM

1.0 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 officially updated in 2010, however, shoreline use is updated for individual discharges as they are assessed 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. 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 <i>E. coli</i> count consistently under 200 CFU/100 mL	1	Low contact (e.g., inaccessible, beach walking)
2	<i>E. coli</i> count between 200 and 5,000 CFU/100 mL	2	Secondary contact (e.g., kayaking)
3	<i>E. coli</i> 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 Marine Sediment Quality Guidelines (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. The following 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