

Drayton Harbor Shoreline

Water Quality Status: Fecal Coliform Bacteria

as of June 2019

Background

Clean water is a valuable resource; it is essential for human health and for the health of fish, shellfish, wildlife, and livestock. Water provides irrigation for crops, and a safe place for water-based recreation. To protect water quality, Washington State has developed criteria for bacteria levels in both fresh and marine waters.

Freshwater Standards

Geometric Mean

Average sample contains less than:

100 fecal coliform/100mL

- and -

90th Percentile

Less than 10% of samples contain over:

200 fecal coliform/100mL

Routine Monitoring:

Whatcom County Public Works (WCPW) has monitored fecal coliform bacteria as part of the short-term ambient sampling in Drayton Harbor and along the shoreline since June of 2018.

More information is available at:
www.whatcomcounty.us/1072/Water-Quality



What are Fecal Coliform Bacteria?

Fecal coliform bacteria are found in human and animal feces. Detection in a creek is a sign that pathogens from these wastes may be polluting the water. Contact with fecal contaminated waters can result in **gastroenteritis, skin rashes, upper respiratory infections** and other illnesses.

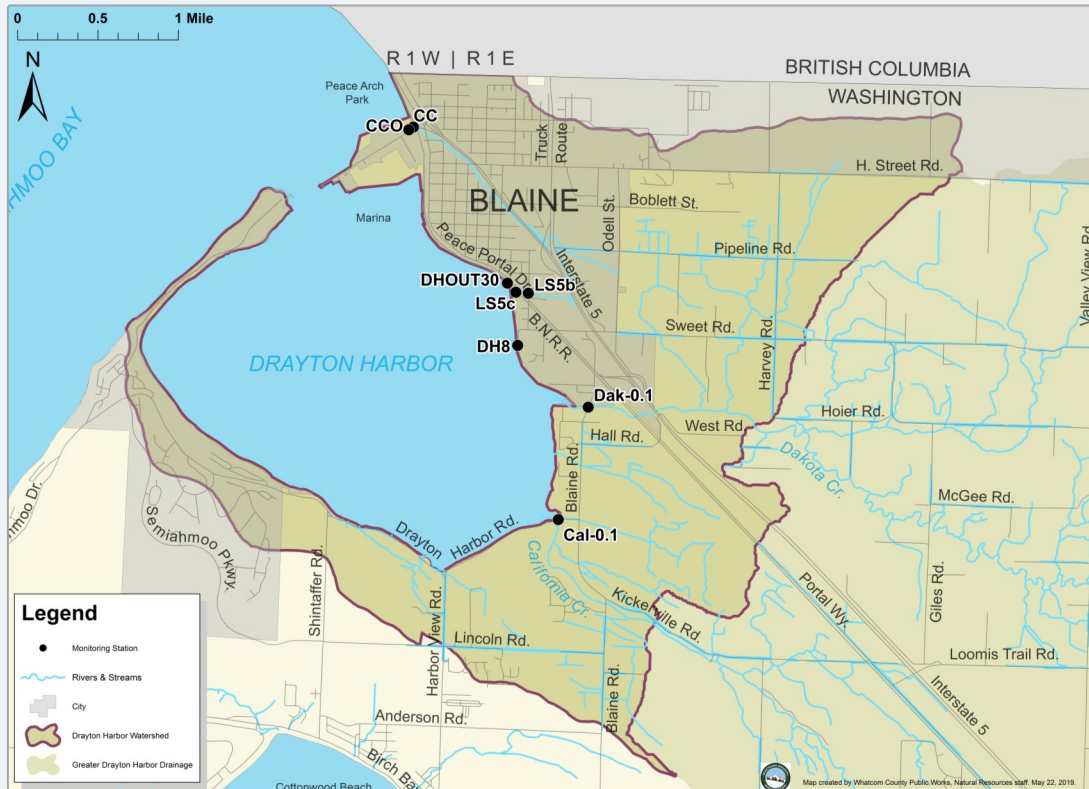
E. coli are a fecal coliform bacteria!

Where Does the Bacteria Come From?

Potential sources of bacteria include:

- 1) Animal waste from livestock, domestic pets, and wildlife
- 2) Human sewage from failing septic systems, leaking sewer lines or cross-connections between sewer and stormwater systems

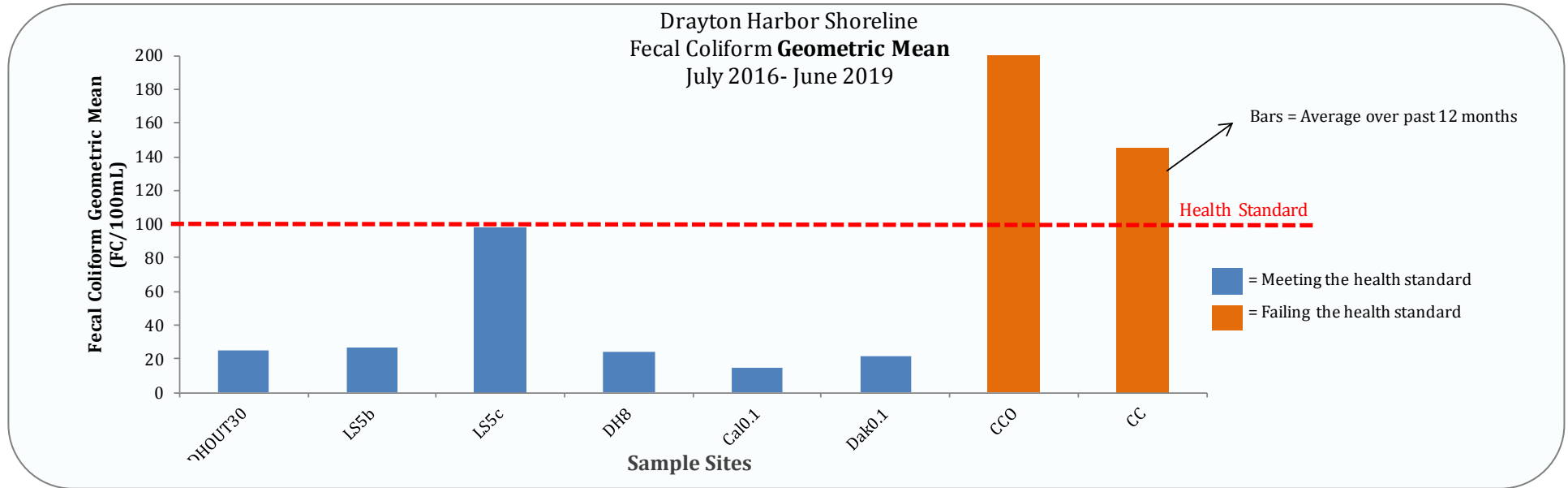
Whatcom County Public Works Drayton Harbor Shoreline Water Quality Monitoring Stations



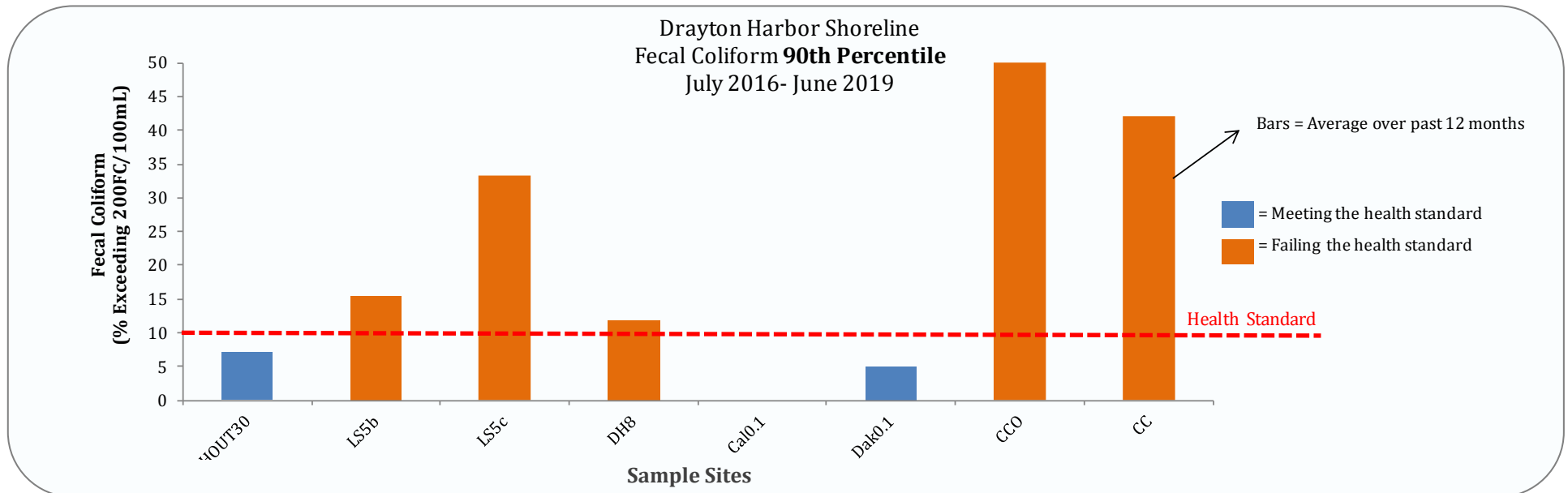
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Comparison of Bacteria Levels to Health Standards

For site locations, refer to the map on page 1 or the table on page 3.



*The bar must be blue on both graphs for the sample site to be meeting the freshwater health standard.




Note: samples collected monthly in coordination with WA DOH marine samples on Drayton Harbor.

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13-Month Historical Fecal Coliform Bacteria Data

This table provides the individual results at each station for the past thirteen months.
Results in light orange exceeded 100 FC/100mL. Results in dark orange exceed 500 FC/100mL.

Date	Site Access Point 		Outfall SW from Madison Ave.	Bayview north of Albert St.	Outfall west of LS5b	Outfall at south end of Montfort ave.	Mouth of California Creek	Mouth of Dakota Creek	Drainage east of Marine Dr, W of railroad	Cain Creek culvert on N. side of Marine Dr, W of railroad
	Rainfall Data									
	24 hr*	72 hr**	DHOUT30	LS5b	LS5c	DH8	Cal0.1	Dak0.1	CCO	CC
6/6/2018	0.00	0.21	22	D	5,700	2	5	10		
6/14/2018	0.00	0.08	TNS	LF	TNS	5	14	12		
6/19/2018	0.00	0.00	60	TNS	4,300	2	14	9		
7/18/2018	0.00	0.00	170	TNS	920	2	33	23	350	540
7/31/2018	0.00	0.00	LF	D	D	LF	10	17	240	1,600
8/15/2018	0.00	0.00	LF	D	LF	D	19	27	682	1,691
8/29/2018	0.04	0.09	LF	D	LF	D	25	17	4,800	4,800
9/12/2018	0.10	0.37	35	2	LF	40	14	15	2,100	1,600
9/19/2018	0.00	0.63	137	TNS	1,300	15	7	17	108	92
10/11/2018	0.00	0.13	15	TNS	1,028	78	7	4	94	30
10/25/2018	0.28	0.05	580	590	928	41	32	9	1,191	2,600
11/7/2018	0.00	0.14	2	17	48	123	33	15	14	15
11/28/2018	0.20	1.44	HT	44	HT	719	128	300	HT	HT
12/27/2018	0.00	0.30	HT	5	HT	4	12	17	HT	40
1/10/2019	0.00	0.10	4	7	15	12	5	22	55	54
1/24/2019	0.00	1.30	HT	22	HT	25	81	72	10	20
2/6/2019	0.00	0.00	2	13	18	2	2	21	120	56
2/26/2019	0.00	0.01	7	7	8	3	3	3	2	3
3/12/2019	0.10	0.50	18	72	42	13	15	88	500	11
3/26/2019	0.56	0.12	84	20	16	46	2	13	173	227
4/3/2019	0.88	0.00	20	300	200	66	11	34	510	580
5/8/2019	0.00	0.00	13	114	48	420	28	34	116	94
6/12/2019	0.00	0.00	98	D	LF	10	50	21	4,400	100

Gray box indicates no sample was collected for varying reasons. D- Dry, LF- Low Flow, HT- Tide too high to sample, TNS - Temporarily Not Sampling.

All rainfall data taken from the Bertrand Creek stream flow monitoring station. NR- Not Recorded

*Day of sampling event (inches) **Three days prior to, but not including, day of sampling event (inches)