

Q81 Narrative for City of Enumclaw 2021 Annual Report

Q81 For TMDLs listed in Appendix 2: Attach a summary of relevant SWMP and Appendix 2 activities to address the applicable TMDL parameter(s). (S7.A)

2021 Compliance Activities

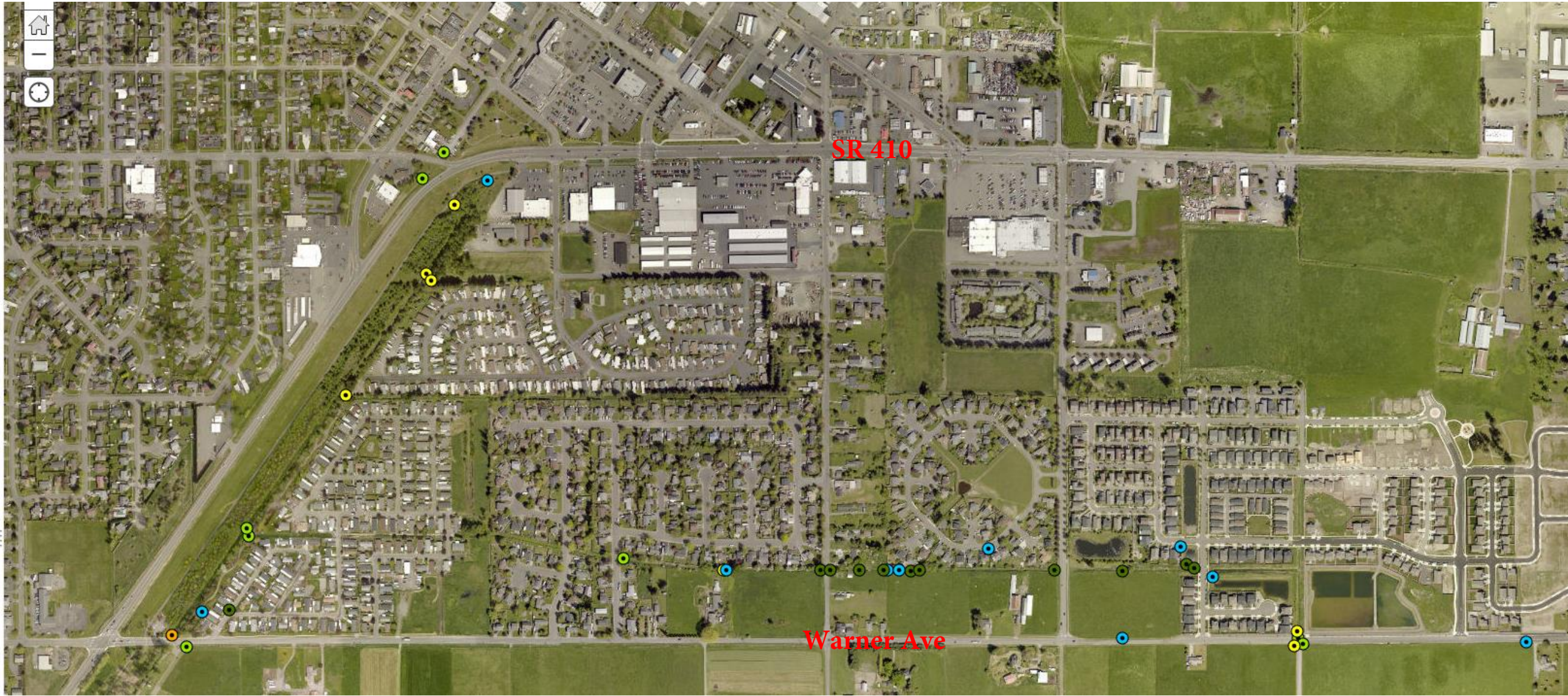
- Continued fecal coliform field sampling program at identified sites from creek mile 1.7 to 1.0 that discharge into Boise Creek to assist in illicit discharge detection and elimination. See attached bacterial field screening results.
- Hired and trained a temporary Engineering Intern to assist with fecal coliform bacteria field screening and source tracing efforts within the City.
- Added additional field fecal coliform sampling sites in the flume and laterals approximately 1 mile north of the confluence with the mainstream, north of SE 456th Street, between highway 410 to the west and Watson Street N. to the East. IDDE field screening for bacteria is ongoing in this area. Implemented schedules and activities identified in S5.C.5 in response to any illicit discharge found. See attached bacterial field screening results.
- Continue collaborating with King County, King Conservation District, WSDA, Seattle-King County Health, and Ecology to discuss TMDL strategies and share fecal coliform sampling data collected from creek mile 1.7 to 1.0 as well as the flume and laterals described above. Attended quarterly interagency meetings to discuss data and strategies to correct known issues across the Enumclaw Plateau.
- Assisted King County Stormwater Services and Seattle-King County Health with confirmation of an illicit connection to the County's MS4 through use of the City line camera and operator.
- Bacterial field screening results and subsequent source tracing led to the discovery and elimination of two illicit sewer connections to the MS4 from two separate mobile homes in the Mt Villa Mobile Home Park (2019).
- Bacterial field screening results and subsequent source tracing led to the discovery and elimination of two illicit connections from onsite septic systems to the MS4. Worked with the property owners to eliminate the illicit connections within 6 months of discovery (2020).
- Bacterial source tracing efforts led to the discovery of 4 separate properties that were improperly disposing of pet waste in drainage ditch systems or stormwater ponds. Enforcement letters were sent to all property owners requiring clean-up and halt of this illicit practice. All properties have complied with the enforcement requirements and are now in compliance (2020).
- Bacterial source tracing efforts led to confirmation that significant bacterial loading (particularly winter loading) identified in the King County Drainage District Lateral A stream comes from a large agricultural property located outside the city limits. Ongoing coordination/collaboration through the inter-agency group is being performed to identify potential options to eliminate this source.
- Sent an education and outreach general awareness letter on proper pet waste management and reasons not to feed birds to various properties adjacent to the King County Drainage District Lateral A stream as a component of efforts to reduce the elevated bacteria loading observed in that system. Letters were sent to approximately 110 property owners.

- Ongoing partnership with the King Conservation District (KCD) Stream Steward program by providing space in the City of Enumclaw waste water treatment plant to perform water quality analysis and store, clean and distribute water quality testing kits. KCD Stream Stewards perform water quality testing at sites from creek mile 1.7 to 1.0 that discharge into Boise Creek. This stewardship opportunity was highly limited in 2021 due to the ongoing COVID-19 pandemic as well as vacancy in KCD's volunteer coordinator position which runs this program. The program is tentatively planned to restart again in 2022.
- Continued pet waste education and outreach activities according to S5.C.2 to increase awareness of bacterial pollution problems and promote proper pet waste management behavior (see Question 21 narrative for more information). This included pet waste education and outreach at the City's booth during the King County Fair.
- Installed and maintained animal waste education and collection stations at permittee owned municipal parks and trails including: Boise Creek Park, Dwight Garrett Park, Ellenson Park (Enumclaw Dog Park), the Foothills Trail, Flensted Park, Holdner Park, Martin Johnson Park, McFarland Park, Montgomery Park, Battersby Trail, and the Rainier Trails Park.
- Worked with owners of two separate garbage compactors to eliminate ongoing leaks and potential bacteria from these sources from entering the MS4 through surface runoff.

City of Enumclaw 2021 Bacteria Field Screening Location Map
Boise Creek Basin Area

Most Recent
Screening Results

- Legend
- cg_StormSourceControl
- ▲ Not Sampled
 - Pending Results
 - < 1
 - 1 - 50
 - 51 - 100
 - 101 - 410
 - 411 - 1000
 - > 1000



EA SAMPLE ID	Sample Description	Sampled By	At/Terrace/FW	Weather	Last Runoff Event	Flow	at Turbidity Assessment of Flow (C/F) (R/C/F) (R/C/F) (R/C/F)	Additional Observations	Location/Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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EA SAMPLE ID

Sample Description

Sampled By

At/Terrace/FW

Weather

Last Runoff Event

Flow

at Turbidity Assessment of Flow (C/F) (R/C/F) (R/C/F) (R/C/F)

Additional Observations

Location/Date

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PS04162	Main Flume Upstream of Lateral A	epalmr	50 rain	LT24	active	slightlyTurbid	750	human genetic marker Hu-2-bac could not be detected	2020-11-05 21:00	2020-11-30 16:40	dshomey@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	seasonalDitch	39 partlySunny	240x48	active	clear	330	None	2020-12-10 16:30	2020-12-10 16:30	dshomey@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	41 rain	LT24	active	clear	170	Bottle #12 used no debris	2021-01-21 15:58	2021-01-21 15:58	epalmr@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	42 cloudy	240x48	active	clear	130	Active Flow, water coming out of ditch hill side	2021-02-18 15:15	2021-02-18 15:23	dshomey@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	39 cloudy	240x48	active	clear	0	38 Active flow around is definitely saturated Walino on Results o	2021-03-23 20:33	2021-03-18 13:58	dshomey@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	41 cloudy	LTweek	active	clear	350	Active Flow, no groundwater coming out of the hill	2021-03-18 14:54	2021-03-18 14:54	epalmr@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	45 sunny	LTweek	active	clear	20	low flow	2021-04-15 14:26	2021-04-15 14:26	dshomey@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	46 rain	current	active	clear	0	good flow, nothing else to present	2021-05-20 14:39	2021-05-20 14:39	epalmr@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	50 sunny	240x48	active	clear	290	Active flow	2021-06-17 14:21	2021-06-17 14:21	epalmr@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	55 sunny	OTweek	active	clear	250	Active but very low flow	2021-07-22 15:07	2021-07-22 15:08	epalmr@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	54 cloudy	OTweek	stagnant	clear	2340	Stagnant	2021-08-19 17:46	2021-08-19 17:46	epalmr@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	65 sunny	LTweek	active	clear	860	Low flow	2021-09-23 15:11	2021-09-23 15:11	epalmr@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	46 mostlyCloudy	current	active	clear	950	Active flow mini debris both up and downstream	2021-10-14 14:45	2021-10-14 14:50	dshomey@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	40 partlySunny	LTweek	active	clear	80	Active Flow	2021-11-18 15:29	2021-11-18 15:29	epalmr@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	38 rain	LT24	active	clear	60	Active Flow	2021-12-16 16:07	2021-12-16 16:07	dshomey@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	49 rain	current	active	slightlyTurbid	170	Active Flow	2022-01-20 15:35	2022-01-20 15:35	epalmr@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS04162	Main Flume Upstream of Lateral A	epalmr	45 cloudy	LTweek	active	clear	80	Active	2022-02-17 15:33	2022-02-17 15:33	dshomey@ci.arundelcaw.wa.us	PS04162	ditch	-121.997059	47.19376093
PS00144	Noble Fir Cn Type 2 CB	epalmr	55 sunny	OTweek	stagnant	slightlyTurbid	50		2021-07-22 15:21	2021-07-22 15:21	dshomey@ci.arundelcaw.wa.us	PS00144	CB	-121.9974444	47.19254186
PS01242	CB bubbler	epalmr	59 rain	current	active	clear	59	3800 None	2021-11-12 22:29	2021-11-15 14:40	dshomey@ci.arundelcaw.wa.us	PS01242	CB	-122.2055678	47.21378128
PS04152	West of Foothills trail bridge	epalmr	52 rain	current	active	clear	20		2020-01-20 15:45	2020-01-20 15:45	dshomey@ci.arundelcaw.wa.us	PS04152	discharge	-122.2068478	47.18529026
PS04152	Foothills trail bridge outfall	epalmr	39 sunny	LTweek	active	clear	10		2020-02-20 15:45	2020-08-10 17:21	dshomey@ci.arundelcaw.wa.us	PS04152	discharge	-122.2068478	47.18529026
PS04152	Foothills trail bridge outfall	epalmr	60 sunny	LTweek	active	clear	370		2020-08-10 15:16	2020-08-10 17:21	dshomey@ci.arundelcaw.wa.us	PS04152	discharge	-122.2068478	47.18529026
PS04152	Foothills trail bridge outfall	epalmr	60 sunny	OTweek	stagnant	clear	1000	Homeless person camero out under the bridge in very close i	2020-07-30 15:00	2020-08-10 17:21	dshomey@ci.arundelcaw.wa.us	PS04152	discharge	-122.2068478	47.18529026
PS04152	Foothills trail bridge outfall	epalmr	65 sunny	OTweek	stagnant	clear	770	Very very low flow. Signs of Homeless	2020-08-20 15:00	2020-08-21 1:20	epalmr@ci.arundelcaw.wa.us	PS04152	discharge	-122.2068478	47.18529026
PS04152	Foothills trail bridge outfall	epalmr	55 rain	current	active	clear	0	medium flow. Signs of Homeless	2020-09-24 14:38	2020-09-24 14:39	epalmr@ci.arundelcaw.wa.us	PS04152	discharge	-122.2068478	47.18529026
PS04152	Foothills trail bridge outfall	epalmr	40 sunny	240x48	active	clear	0	medium flow. Signs of Homeless	2020-10-20 15:33	2020-10-21 15:34	epalmr@ci.arundelcaw.wa.us	PS04152	discharge	-122.2068478	47.18529026
PS04152	West of Foothills Trail Bridge Bottle #8	epalmr	46 rain	current	active	clear	0	Signs of Homeless camps	2021-05-20 14:26	2021-05-20 14:26	epalmr@ci.arundelcaw.wa.us	PS04152	discharge	-122.2068478	47.18529026
PS02751	Sampled at culvert outfall	epalmr	55 sunny	OTweek	active	clear	0		2020-07-30 17:57	2020-08-10 17:21	dshomey@ci.arundelcaw.wa.us	PS02751	MH	-122.2073387	47.2133862
PS00092	Cooper Pond Outfall	epalmr	70 sunny	OTweek	active	clear	100	Current Main Source to Lateral A. Birds present in pond	2020-08-20 15:45	2020-08-21 1:25	epalmr@ci.arundelcaw.wa.us	PS00092		-121.9646382	47.20959284
PS00101	Cooper Pond Outfall	epalmr	55 rain	current	active	clear	600		2020-09-24 15:19	2020-09-24 15:19	epalmr@ci.arundelcaw.wa.us	PS00101		-121.9626986	47.1966739
PS00105	Cooper Pond Outfall	epalmr	65 partlySunny	LTweek	active	clear	0	Medium Flow - First Flush	2020-09-30 16:30	2020-09-30 19:00	epalmr@ci.arundelcaw.wa.us	PS00105		-121.9620053	47.19926463
PS00118	Cooper Pond Outfall	epalmr	65 sunny	240x48	active	clear	0	Active Flow	2020-10-15 14:31	2020-10-15 16:32	dshomey@ci.arundelcaw.wa.us	PS00118		-121.9638354	47.20656564
PS00206	Cooper Pond Outfall	epalmr	41 cloudy	OTweek	active	clear	10	Active Flow	2021-03-15 15:34	2021-03-18 15:32	epalmr@ci.arundelcaw.wa.us	PS00206		-121.9688316	47.19956401
PS00243	Cooper Pond Outfall	epalmr	50 sunny	240x48	active	clear	10	None	2021-06-17 14:55	2021-06-17 14:55	epalmr@ci.arundelcaw.wa.us	PS00243		-121.9788711	47.1963688
PS00253	Cooper Pond Outfall	epalmr	55 sunny	OTweek	active	clear	50	None	2021-07-26 16:12	2021-07-22 16:12	epalmr@ci.arundelcaw.wa.us	PS00253		-121.9792741	47.19707154