Illicit Discharge Detection and Elimination

Appendix

City of Poquoson Annual Report

VAR# 040024

Fiscal Year 2020

Submitted to DEQ September 30, 2020

BMP 3	ILLICIT DISCHARGE DETECTION AND ELIMINATION
	Status of Compliance Spreadsheets
3.1	Service area & Outfall Map
3.1	MS4 Outfall Information Table (includes City-owned Water Quality BMPs)
3.2	Dry weather screening protocol with prioritization/scheduling; Dry weather screening standard operation procedures
3.2	Summary of screenings table; typical dry weather monthly screening form
3.3	IDDE Procedures
3.3	Hazardous Waste Spill Procedures
3.3	IDDE Summary Table
3.3	Supplemental information for spill responses. This includes communications; Public Works forms; and Fire Department reporting forms for all non discharges caused by something other than a vehicular accident. This information addresses both illicit discharge responses and non sewer spills.
3.3	Utility Department Report: Sanitary Sewer System Improvements
3.4	Sanitary Sewer Overflow Reports: No sanitary sewer system spills this year (therefore no forms provided)

3. Illicit Discharge Detection and Elimination							
BMP	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 2 Status**
3.1	Storm Sewer System Map						
3.1a	MS4 service area map using the 2010 CUA	Maintain and update mapping	Updated Map	SW Program Administrator/ IT Dept. (GIS)	Annually	Service area map	COMPLIANT. Updated in PY1; no new outfalls this year. See Appendix. In addition, the City Property Information System mapping shows the approximate location of all upstream City owned storm drainage piping. This can be seen at http://poquoson.mapsdirect.net/Account/Logon
3.1b	MS4 outfall or point of discharge information table	Maintain and update table	Updated Table	SW Program Administrator/ IT Dept. (GIS)	Annually	Information Table	COMPLIANT. Updated in PY1; no new outfalls this year. See Appendix.
3.1c	Provide to DEQ a GIS-compatible shapefile of the MS4 map	Provide file	Provide to DEQ	SW Program Administrator/ IT Dept. (GIS)	No later than 7/1/19	Shapefile	COMPLIANT. Provided in PY1 prior to 7/1/19 in accordance with permit requirements.

3. Illicit Discharge Detection and Elimination							
BMP	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 2 Status**
3.1d	New outfalls or recently approved TMDLs	Update map and table	Updated map and table	SW Program Administrator/ IT Dept. (GIS)	No later than October 1 each year, incorporate updates through June 30	Map and information table	Compliant. No new outfalls or recently approved TMDLs in PY2.
3.1e	Provide written notification to downstream MS4s	Identify and notify, in writing, any downstream adjacent MS4 of any known physical interconnection established or discovered after permit effective date.	Develop map, Regional Stormwater Workgroup Meetings, letters	SW Program Administrator	Annually	Letters; meeting attendance	COMPLIANT. Poquoson is downstream of all other MS4s. VDOT owns the only upstream MS4. While the City has not been contacted by VDOT, we are aware of the system and have contact information for VDOT if needed.
3.1f	Prohibit illicit discharges through ordinance	Continue implementing and enforcing the illicit discharge/stormwater ordinance.	Current Ordinance	SW Program Administrator/ Fire Dept	As necessary	City Code Section 34-207, Phohibition on non-stormwater discharges	COMPLIANT. Code can be viewed on City website at https://library.municode.com/va/poquoson/codes/code_of_ordinances?nodeId=PTIICOOR_CH34EN_ARTVSTMA
3.2	Dry Weather Screening (DWS)						

3. Illicit Discharge Detection and Elimination							
BMP	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 2 Status**
3.2a	Maintain and implement dry weather screening protocol	Implement written dry weather field screening methodologies for IDDE. Track the outfall unique identifier, time since last precipitation event, estimated quantity of the last precipitation event, site description, whether a discharge was observed and if so, rate of discharge, and visual characteristics	Protocol	SW Program Administrator/ SW Inspector	Continuously	DWS Protocol	COMPLIANT. Protocol, sample forms found in Appendix.
3.2b	Develop a prioritized schedule for field screening and the rationale for the prioritization	Implement the schedule and document the rationale	Schedule	SW Program Administrator/ SW Inspector	Annually	DWS Protocol	COMPLIANT. Prioritized protocal, schedule and rationale found in Appendix.

3. Illicit Discharge Detection and Elimination

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 2 Status
3.2c	Field testing & outfall reconnaissance inventory (ORI)	Perform dry weather screening of a minimum of 50 outfalls (or all if < 50 outfalls in MS4)	Documentation of screening performed and results	SW Program Administrator/ SW Inspector	Annually	Summary Spreadsheet and typical form provided in Appendix. In past years DEQ reviewers asked that we include the summary and sample form rather than all forms in report. All forms available upon request.	COMPLIANT. Summary Spreadsheet and typical form provided in Appendix. City inspected 91 outfalls and over 15,565 linear feet of outfall ditching. Inspections included prioritized areas selected in PY1.
3.3	IDDE program implementation						
3.3a	Maintain and implement written procedures for IDDE	Implement written IDDE procedures	Procedures	SW Program Administrator	Continuously	Procedures	COMPLIANT. See Appendix.
3.3b	Public IDDE Reporting	Promote & publicize IDDE reporting	Presence of contact information on website	SW Program Administrator	Continuously	Locality website	COMPLIANT. Information provided on Poquoson Stormwater Quality website: https://www.ci.poquoson.va.us/278/Stormwater-Quality

STATUS OF COMPLIANCE July 1, 2019 - June 30, 2020

3. Illicit Discharge Detection and Elimination							
BMP	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 2 Status**
3.3c	Prevent or minimize the discharge of hazardous substances and oil in the MS4 stormwater discharge.	Yard inspections; Develop/enhance reporting relationship with FD/Haz Mat Team; targeted education	Number of responses/ number of inspections	SW Program Administrator/ Fire Dept	Continuously	Fire Department and Inspection forms	COMPLIANT. See appendix for sample forms and a summary of issues/responses this year.
3.3d	IDDE activity tracking	Track illicit discharge detection and elimination activities.	Number of investigations and actions taken	SW Program Administrator/ Fire Dept	Ongoing	Illicit Discharge Response Summary	Compliant. See Appendix for summary spreadsheet and backup information on most egregious discharges.
3.3e	Continue Sanitary Sewer System improvements in coordination with SSO consent order	Continue to diagnose and correct deficiencies	Number of improvements	SW Program Administrator/ Public Utilities	Continuously	List of Improvements	COMPLIANT. Improvements provided in Appendix.
3.4	Spill reporting						
3.4a	Report non sewer spills and releases from small MS4 operated properties that reach State waters to DEQ.	Report spills to the DEQ's Pollution Response Program (PREP), if applicable	Number of internal reports. If applicable, obtain PREP number.	SW Program Administrator/ Fire Dept	Continuously	Fire Department and Inspection forms	COMPLIANT. See summary sheet and FD forms in Appendix.
3.4b	Report Sanitary Sewer Overflows through SSORS database.	Continue to utilize SSORS to report Sanitary Sewer Overflows	Number of overflows	Public Utilities Superintendent.	Continuously	List from SSORS	COMPLIANT. No sanitary sewer overflows occurred in PY2. City staff assisted a citizen with the repair of their private property sewer line breakage. See summary sheet.

3. Illicit Discharge Detection and Elimination

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 2 Status
3.5	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		SW Program Administrator/ Fire Dept	Annually	Annual report	COMPLIANT. City exceeded dry weather screening-required number of outfalls; inspected outfalls prioritized in PY1. As the summary sheet and back up info indicates, Poquoson staff members from various Ciy departments coordinated to respond to incidents quickly. One of the advantages of small community size is that Poquoson staff members communicate and work together well to quickly resolve spills.

N
Legend
MS4 Outfall
Catch Basin
Curb Drop Inlet
BMP Outfall Riser
Storm Manhole
Headwall
Flared End Section
Grass Channel
Concrete Ditch
Ditch
Stormwater Pipe
MS4 Service Area Boundary
VAHU6 CB24
VAHU6 CB22
VAHU6 CB21
Receiving Waters
Note: The estimated acres draining to the MS4 outfalls listed in the associated data table are approximate. The number of acres draining to a given outfall will vary based on tidal flooding conditions due to equalizing culverts between ditches.
0 400 800 1,600
Feet
City of Poquoson Storm Sewer Map - Sheet 1

Stormwater BMPs owned by the City of Poquoson are detailed in a spreadsheet and shown as

Stormwater BMPs owned by the City of Poquoson is detailed in a spreadsheet and shown as

Outfall Type	VAHU6	HUC 12	Receiving Water	Impaired	Zone	Outfall ID	Impaired	Estimated Service Area (Ac)	Latitude	Longitude	Bay TMDL	Other TMDL	Predominant Land Use
Ditch	CB21	20801080101	Poquoson River - Mouth	Yes	A	A001	Yes	7.60	37° 9' 33.541" N	76° 24' 3.124" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A002	Yes	1.64	37° 9' 28.286" N	76° 23' 53.346" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A003	Yes	3.53	37° 9' 27.547" N	76° 23' 51.928" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A004	Yes	3.84	37° 9' 26.055" N	76° 23' 49.998" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A005	Yes	5.64	37° 9' 24.588" N	76° 24' 5.329" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A006	Yes	8.12	37° 9' 22.303" N	76° 24' 7.024" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Lower	Yes	A	A007	Yes	2.43	37° 9' 21.321" N	76° 23' 27.070" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A008	Yes	4.59	37° 9' 21.206" N	76° 23' 57.651" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Poquoson River - Mouth	Yes	A	A009	Yes	2.78	37° 9' 20.528" N	76° 23' 8.322" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A010	Yes	2.07	37° 9' 20.029" N	76° 23' 51.188" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Unsegmented estuaries in Back River	Yes	A	A011	Yes	6.97	37° 9' 18.799" N	76° 23' 17.168" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Unsegmented Estuaries in Back River	Yes	A	A012	Yes	2.78	37° 9' 18.005" N	76° 23' 17.698" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A013	Yes	2.45	37° 9' 16.387" N	76° 24' 20.259" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A014	Yes	8.00	37° 9' 16.187" N	76° 24' 21.429" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Poquoson River - Mouth	Yes	A	A015	Yes	3.50	37° 9' 16.071" N	76° 23' 4.646" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A016	Yes	5.67	37° 9' 15.993" N	76° 23' 30.667" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A017	Yes	0.96	37° 9' 15.844" N	76° 23' 22.469" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A018	Yes	2.58	37° 9' 13.935" N	76° 23' 22.882" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unsegmented estuaries in Back River	Yes	A	A019	Yes	0.78	37° 9' 12.784" N	76° 23' 0.339" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A020	Yes	1.58	37° 9' 12.211" N	76° 23' 17.612" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A021	Yes	3.15	37° 9' 10.372" N	76° 24' 19.151" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A022	Yes	1.45	37° 9' 10.176" N	76° 23' 15.024" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A023	Yes	4.43	37° 9' 8.952" N	76° 23' 59.545" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A024	Yes	1.21	37° 9' 7.995" N	76° 24' 14.327" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lyons Creek - Upper Middle	Yes	A	A025	Yes	16.33	37° 9' 7.536" N	76° 23' 7.314" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A026	Yes	5.94	37° 9' 6.729" N	76° 23' 44.248" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A027	Yes	2.35	37° 9' 4.464" N	76° 23' 41.368" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A028	Yes	11.22	37° 9' 3.878" N	76° 23' 55.305" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A029	Yes	1.90	37° 9' 3.582" N	76° 24' 25.246" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	A	A030	Yes	7.05	37° 8' 59.122" N	76° 23' 15.224" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A031	Yes	7.96	37° 8' 58.235" N	76° 23' 36.584" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	A	A032	Yes	5.95	37° 8' 57.332" N	76° 22' 58.309" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A033	Yes	4.97	37° 8' 57.154" N	76° 23' 47.497" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A034	Yes	35.25	37° 8' 54.054" N	76° 23' 52.238" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A035	Yes	1.80	37° 8' 54.024" N	76° 23' 52.197" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A036	Yes	6.47	37° 8' 51.139" N	76° 23' 35.796" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A037	Yes	5.26	37° 8' 50.504" N	76° 23' 27.345" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lyons Creek - Upper Middle	Yes	A	A038	Yes	2.97	37° 8' 47.851" N	76° 23' 27.003" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A039	Yes	5.57	37° 8' 47.839" N	76° 23' 32.148" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A040	Yes	26.21	37° 8' 46.421" N	76° 23' 37.738" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Lower	Yes	B	B001	Yes	1.84	37° 8' 59.405" N	76° 22' 33.410" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
BMP	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B002	Yes	16.51	37° 8' 59.025" N	76° 24' 13.158" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B003	Yes	2.16	37° 8' 56.320" N	76° 24' 33.488" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B004	Yes	6.63	37° 8' 54.907" N	76° 24' 23.850" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B005	Yes	34.27	37° 8' 53.902" N	76° 24' 14.990" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Lower Middle	Yes	B	B006	Yes	8.06	37° 8' 51.758" N	76° 22' 31.678" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B007	Yes	9.32	37° 8' 48.535" N	76° 24' 30.981" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B008	Yes	0.53	37° 8' 48.500" N	76° 22' 56.941" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B009	Yes	4.31	37° 8' 48.230" N	76° 24' 33.086" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B010	Yes	1.13	37° 8' 46.829" N	76° 22' 58.987" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B011	Yes	7.31	37° 8' 46.592" N	76° 22' 53.086" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B012	Yes	1.20	37° 8' 46.169" N	76° 24' 39.048" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B013	Yes	1.74	37° 8' 45.142" N	76° 22' 32.294" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B014	Yes	6.08	37° 8' 44.730" N	76° 22' 46.784" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B015	Yes	20.08	37° 8' 44.013" N	76° 24' 30.506" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B016	Yes	1.74	37° 8' 43.532" N	76° 22' 51.259" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B017	Yes	2.23	37° 8' 42.873" N	76° 23' 2.111" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B018	Yes	5.23	37° 8' 41.356" N	76° 23' 16.940" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B019	Yes	2.51	37° 8' 40.369" N	76° 24' 26.801" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B020	Yes	4.48	37° 8' 40.210" N	76° 23' 19.520" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B021	Yes	1.91	37° 8' 39.861" N	76° 23' 0.056" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B022	Yes	8.21	37° 8' 39.117" N	76° 24' 39.828" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B023	Yes	5.82	37° 8' 38.301" N	76° 23' 8.328" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B024	Yes	7.22	37° 8' 37.794" N	76° 23' 23.120" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B025	Yes	11.12	37° 8' 35.552" N	76° 24' 27.275" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B026	Yes	3.87	37° 8' 34.084" N	76° 23' 27.978" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B027	Yes	2.79	37° 8' 33.849" N	76° 23' 27.573" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B028	Yes	115.50	37° 8' 33.352" N	76° 23' 30.063" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B029	Yes	48.68	37° 8' 32.930" N	76° 23' 30.310" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B030	Yes	5.89	37° 8' 30.122" N	76° 23' 9.649" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B031	Yes	3.52	37° 8' 27.898" N	76° 23' 7.689" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B032	Yes	3.33	37° 8' 27.614" N	76° 23' 11.733" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B033	Yes	3.26	37° 8' 24.910" N	76° 23' 16.781" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B034	Yes	0.39	37° 8' 24.195" N	76° 22' 52.650" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
BMP	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B035	Yes	15.73	37° 8' 22.238" N	76° 24' 25.487" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B036	Yes	1.82	37° 8' 22.172" N	76° 22' 57.982" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B037	Yes	3.17	37° 8' 21.695" N	76° 23' 23.090" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B038	Yes	2.26	37° 8' 20.770" N	76° 24' 34.889" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B039	Yes	11.11	37° 8' 20.606" N	76° 23' 4.009" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B040	Yes	3.49	37° 8' 19.775" N	76° 23' 10.390" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B041	Yes	39.38	37° 8' 19.040" N	76° 23' 28.899" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B042	Yes	3.89	37° 8' 16.953" N	76° 24' 43.886" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B043	Yes	56.66	37° 8' 12.896" N	76° 24' 30.057" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B044	Yes	1.06	37° 8' 12.677" N	76° 23' 11.999" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B045	Yes	0.85	37° 8' 12.601" N	76° 23' 12.062" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B046	Yes	4.86	37° 8' 12.252" N	76° 24' 29.073" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B047	Yes	1.92	37° 8' 11.683" N	76° 24' 39.295" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B048	Yes	2.19	37° 8' 4.804" N	76° 24' 35.283" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B048A	Yes	5.90	37 08'24048"N	76 24'35.90"W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B049	Yes	4.54	37° 8' 2.997" N	76° 24' 33.298" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B050	Yes	50.91	37° 8' 2.965" N	76° 24' 32.829" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B051	Yes	3.70	37° 7' 56.688" N	76° 24' 38.534" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B052	Yes	3.32	37° 7' 53.041" N	76° 24' 38.633" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B053	Yes	104.80	37° 7' 48.219" N	76° 24' 38.737" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C001	Yes	1.90	37° 8' 14.947" N	76° 22' 58.650" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C002	Yes	6.31	37° 8' 14.478" N	76° 23' 0.182" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C003	Yes	111.27	37° 8' 10.506" N	76° 23' 28.383" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C004	Yes	4.84	37° 8' 9.954" N	76° 23' 26.730" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C005	Yes	125.05	37° 8' 9.585" N	76° 23' 25.534" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C006	Yes	1.72	37° 8' 7.758" N	76° 23' 15.497" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C007	Yes	25.00	37° 8' 3.260" N	76° 23' 9.359" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	C	C008	Yes	24.76	37° 7' 13.428" N	76° 23' 19.470" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	C	C009	Yes	15.04	37° 7' 11.642" N	76° 23' 11.472" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	C	C010	Yes	360.46	37° 7' 8.452" N	76° 23' 31.934" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	C	C011	Yes	24.58	37° 6' 59.227" N	76° 23' 9.809" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Brick Kiln Creek	Yes	C	C012	Yes	22.90	37° 6' 47.382" N	76° 23' 23.948" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Brick Kiln Creek	Yes	C	C013	Yes	5.24	37° 6' 46.985" N	76° 23' 40.498" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Brick Kiln Creek	Yes	C	C014	Yes	70.96	37° 6' 43.313" N	76° 23' 49.548" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Brick Kiln Creek	Yes	C	C015	Yes	2.23	37° 6' 39.787" N	76° 23' 40.998" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Brick Kiln Creek	Yes	C	C016	Yes	1.91	37° 6' 35.389" N	76° 23' 41.034" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Brick Kiln Creek	Yes	C	C017	Yes	15.85	37° 6' 30.203" N	76° 23' 35.502" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Lower Middle	Yes	D	D001	Yes	5.96	37° 8' 39.347" N	76° 22' 20.994" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Lower Middle	Yes	D	D002	Yes	1.33	37° 8' 30.981" N	76° 22' 14.128" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	D	D003	Yes	3.30	37° 8' 30.579" N	76° 22' 29.527" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	D	D004	Yes	1.87	37° 8' 30.490" N	76° 22' 32.703" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D005	Yes	5.06	37° 8' 25.709" N	76° 22' 20.941" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D006	Yes	18.75	37° 8' 22.760" N	76° 22' 33.952" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D007	Yes	0.78	37° 8' 19.063" N	76° 22' 32.573" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D008	Yes	0.74	37° 8' 18.962" N	76° 22' 29.938" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D009	Yes	1.31	37° 8' 17.978" N	76° 22' 34.368" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D010	Yes	0.85	37° 8' 16.902" N	76° 22' 27.900" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D011	Yes	1.18	37° 8' 16.247" N	76° 22' 22.718" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D012	Yes	3.21	37° 8' 15.378" N	76° 22' 13.632" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D013	Yes	0.99	37° 8' 15.258" N	76° 22' 33.152" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D014	Yes	1.25	37° 8' 15.021" N	76° 22' 28.309" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	D	D015	Yes	11.78	37° 8' 13.177" N	76° 22' 50.809" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	D	D016	Yes	15.82	37° 8' 9.783" N	76° 21' 59.704" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

Ditch	CB21	20801080101	Floyds Bay	Yes	D	D017	Yes	1.59	37° 8' 8.383" N	76° 22' 13.782" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D018	Yes	3.82	37° 8' 8.066" N	76° 22' 40.340" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
BMP	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	D	D019	Yes	5.70	37° 8' 4.755" N	76° 21' 52.888" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
BMP	CB21	20801080101	Floyds Bay	Yes	D	D020	Yes	9.39	37° 8' 4.408" N	76° 22' 17.638" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D021	Yes	1.28	37° 8' 2.526" N	76° 22' 31.977" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D022	Yes	18.39	37° 8' 0.996" N	76° 22' 29.210" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D023	Yes	8.79	37° 8' 0.677" N	76° 22' 38.843" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	D	D024	Yes	38.41	37° 7' 59.138" N	76° 22' 55.527" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D025	Yes	6.29	37° 7' 59.086" N	76° 22' 13.257" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D026	Yes	21.15	37° 7' 57.530" N	76° 22' 8.716" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D027	Yes	14.09	37° 7' 57.397" N	76° 22' 17.311" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D028	Yes	33.09	37° 7' 56.406" N	76° 22' 9.419" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D029	Yes	6.98	37° 7' 56.355" N	76° 22' 12.543" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E001	Yes	129.16	37° 7' 30.396" N	76° 22' 34.274" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E002	Yes	6.11	37° 7' 27.721" N	76° 22' 30.106" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E003	Yes	143.69	37° 7' 26.318" N	76° 22' 47.773" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E004	Yes	16.71	37° 7' 24.095" N	76° 22' 47.060" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E005	Yes	5.02	37° 7' 23.942" N	76° 22' 39.923" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E006	Yes	1.67	37° 7' 23.809" N	76° 22' 40.284" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E007	Yes	2.10	37° 7' 21.285" N	76° 22' 34.038" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E008	Yes	5.37	37° 7' 20.434" N	76° 22' 46.422" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E009	Yes	1.96	37° 7' 20.136" N	76° 22' 38.800" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E010	Yes	0.92	37° 7' 20.121" N	76° 22' 39.373" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E011	Yes	1.17	37° 7' 19.679" N	76° 22' 43.810" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E012	Yes	7.77	37° 7' 17.574" N	76° 22' 45.205" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E013	Yes	16.97	37° 7' 16.825" N	76° 22' 27.900" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E014	Yes	4.32	37° 7' 14.180" N	76° 22' 0.246" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E015	Yes	0.54	37° 7' 13.781" N	76° 22' 2.807" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E016	Yes	96.01	37° 7' 13.612" N	76° 22' 11.451" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E017	Yes	7.95	37° 7' 13.288" N	76° 22' 41.868" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E018	Yes	18.28	37° 7' 9.803" N	76° 22' 59.693" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E019	Yes	3.75	37° 7' 9.027" N	76° 22' 7.073" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E020	Yes	2.22	37° 7' 6.349" N	76° 22' 1.848" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E021	Yes	1.47	37° 7' 3.447" N	76° 22' 6.676" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E022	Yes	5.07	37° 7' 2.543" N	76° 22' 1.346" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E023	Yes	4.74	37° 7' 1.676" N	76° 22' 50.865" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E024	Yes	5.46	37° 7' 0.894" N	76° 22' 55.551" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Curb and Gutter	CB22	20801080102	Northwest Br. Back River - Upper [TMDL not CD]	Yes	E	E025	Yes	2.28	37° 6' 58.362" N	76° 22' 3.815" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F001	Yes	0.38	37° 8' 3.610" N	76° 21' 50.189" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
BMP	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F002	Yes	5.60	37° 8' 3.077" N	76° 21' 45.182" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F003	Yes	3.17	37° 7' 54.992" N	76° 21' 46.638" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F004	Yes	11.29	37° 7' 54.253" N	76° 21' 45.502" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F005	Yes	1.23	37° 7' 53.643" N	76° 21' 34.760" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F006	Yes	0.38	37° 7' 53.199" N	76° 21' 33.717" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F007	Yes	27.32	37° 7' 52.880" N	76° 21' 41.655" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F008	Yes	14.60	37° 7' 46.809" N	76° 21' 10.356" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F009	Yes	5.19	37° 7' 46.450" N	76° 21' 32.845" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F010	Yes	1.50	37° 7' 44.436" N	76° 21' 32.614" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F011	Yes	31.11	37° 7' 41.632" N	76° 21' 27.522" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F012	Yes	15.98	37° 7' 37.329" N	76° 21' 49.831" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F013	Yes	21.29	37° 7' 32.037" N	76° 21' 49.801" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F014	Yes	12.62	37° 7' 29.477" N	76° 21' 46.937" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F015	Yes	13.38	37° 7' 28.756" N	76° 21' 46.569" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F016	Yes	10.72	37° 7' 25.584" N	76° 21' 45.430" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F017	Yes	12.81	37° 7' 22.000" N	76° 21' 52.484" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Watts Creek - (NW Br. Back River)	Yes	F	F018	Yes	55.85	37° 7' 18.765" N	76° 21' 0.906" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F019	Yes	3.25	37° 7' 18.713" N	76° 21' 55.059" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F020	Yes	9.33	37° 7' 18.186" N	76° 21' 43.122" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F021	Yes	3.44	37° 7' 17.764" N	76° 22' 3.063" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Watts Creek - (NW Br. Back River)	Yes	F	F022	Yes	0.34	37° 7' 13.784" N	76° 21' 2.418" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Watts Creek - (NW Br. Back River)	Yes	F	F023	Yes	2.44	37° 7' 13.412" N	76° 20' 54.641" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	rthwest Br. Back River - Upper [TMDL not C	Yes	F	F024	Yes	28.15	37° 7' 12.619" N	76° 21' 31.527" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Watts Creek - (NW Br. Back River)	Yes	F	F025	Yes	2.06	37° 7' 11.763" N	76° 21' 11.713" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Watts Creek - (NW Br. Back River)	Yes	F	F026	Yes	0.73	37° 7' 7.229" N	76° 21' 15.552" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

Ditch	CB21	20801080101	Easton Cove	Yes	G	G001	Yes	0.49	37° 8' 25.541" N	76° 21' 51.585" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Lower Middle	Yes	G	G002	Yes	0.10	37° 8' 24.231" N	76° 21' 50.751" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Easton Cove	Yes	G	G003	Yes	2.38	37° 8' 23.060" N	76° 21' 45.368" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Easton Cove	Yes	G	G004	Yes	1.00	37° 8' 19.116" N	76° 21' 37.609" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Easton Cove	Yes	G	G005	Yes	2.45	37° 8' 17.283" N	76° 21' 34.800" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Easton Cove	Yes	G	G006	Yes	3.51	37° 8' 10.772" N	76° 21' 26.933" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Easton Cove	Yes	G	G007	Yes	2.77	37° 8' 6.926" N	76° 21' 23.323" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	G	G008	Yes	0.68	37° 7' 57.718" N	76° 21' 18.627" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	G	G009	Yes	2.04	37° 7' 54.977" N	76° 21' 15.698" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	G	G010	Yes	2.11	37° 7' 50.074" N	76° 21' 8.507" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unsegmented estuaries in Back River	Yes	G	G011	Yes	0.36	37° 7' 48.084" N	76° 20' 28.426" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	G	G012	Yes	4.38	37° 7' 46.900" N	76° 21' 6.502" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unsegmented estuaries in Back River	Yes	G	G013	Yes	1.88	37° 7' 46.775" N	76° 20' 27.086" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Easton Cove	Yes	G	G014	Yes	78.43	37° 7' 44.381" N	76° 20' 58.808" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unsegmented estuaries in Back River	Yes	G	G015	Yes	5.93	37° 7' 40.111" N	76° 20' 17.492" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unnamed Tributary to Easton Cove	Yes	G	G016	Yes	16.30	37° 7' 39.226" N	76° 20' 32.982" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unsegmented estuaries in Back River	Yes	G	G017	Yes	1.51	37° 7' 37.252" N	76° 20' 12.299" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Easton Cove	Yes	G	G018	Yes	2.48	37° 7' 35.288" N	76° 20' 50.799" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Unsegmented estuaries in Back River	Yes	G	G019	Yes	2.05	37° 7' 34.471" N	76° 20' 5.864" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Easton Cove	Yes	G	G020	Yes	100.00	37° 7' 32.724" N	76° 20' 42.957" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Front Cove - Upper	Yes	G	G021	Yes	0.74	37° 7' 26.489" N	76° 19' 59.887" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Front Cove - Upper	Yes	G	G022	Yes	6.01	37° 7' 25.272" N	76° 19' 59.632" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G023	Yes	3.56	37° 7' 16.693" N	76° 20' 23.063" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Mainstem Back River	Yes	G	G024	Yes	61.93	37° 7' 15.605" N	76° 20' 6.409" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Mainstem Back River	Yes	G	G025	Yes	1.59	37° 7' 15.233" N	76° 19' 52.068" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G026	Yes	2.59	37° 7' 15.180" N	76° 20' 28.970" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G027	Yes	0.26	37° 7' 15.106" N	76° 20' 35.648" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G028	Yes	2.30	37° 7' 14.882" N	76° 20' 37.455" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Mainstem Back River	Yes	G	G029	Yes	1.34	37° 7' 13.173" N	76° 19' 50.002" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G030	Yes	1.55	37° 7' 10.318" N	76° 20' 41.575" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G031	Yes	2.27	37° 7' 7.295" N	76° 20' 40.329" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Front Cove - Upper	Yes	G	G032	Yes	3.53	37° 7' 5.647" N	76° 19' 40.313" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Front Cove - Upper	Yes	G	G033	Yes	0.41	37° 7' 5.625" N	76° 19' 40.252" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G034	Yes	1.90	37° 7' 0.841" N	76° 20' 36.965" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G035	Yes	1.50	37° 6' 58.114" N	76° 20' 35.442" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G036	Yes	1.71	37° 6' 53.574" N	76° 20' 34.814" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G037	Yes	0.94	37° 6' 48.485" N	76° 20' 33.789" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G038	Yes	0.19	37° 6' 46.386" N	76° 20' 32.739" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G039	Yes	0.86	37° 6' 44.571" N	76° 20' 31.004" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G040	Yes	0.40	37° 6' 41.691" N	76° 20' 29.100" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Front Cove - Upper	Yes	G	G041	Yes	4.45	37° 6' 39.547" N	76° 19' 14.512" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G042	Yes	0.99	37° 6' 39.082" N	76° 20' 27.657" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Mainstem Back River	Yes	G	G043	Yes	0.65	37° 6' 36.029" N	76° 19' 19.456" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Mainstem Back River	Yes	G	G044	Yes	2.31	37° 6' 33.352" N	76° 19' 10.627" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Mainstem Back River	Yes	G	G045	Yes	1.08	37° 6' 30.568" N	76° 20' 23.358" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

CITY OWNED BMPs

City-owned BMP Type	VAHU6	HUC 12	Receiving Water	Impaired	Zone	NAME	Estimated Service Area (Ac)	Estimated Impervious Area (Ac)	Latitude	Longitude	Bay TMDL	Other TMDL	Predominant Land Use
Wet Pond	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	G	South Lawson Park Pond	16	2.29700000000	37.1249499	-76.35315853	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Constructed Wetland	CB22	20801080102	Northwest Br. Back River - Upper	Yes	G	City Hall Wetland	20	8.88000000000	37.12441521	-76.39738932	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

Wet Pond	CB22	20801080102	Northwest Br. Back River - Upper	Yes	G	Library Pond	7	3.41000000000	37.12170898	-76.39790271	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

Planned FY 2021 Inspections and Rationale

	Priorities and Rationale
General: Configuration of the City	Poquoson's predominant land use is single family home residential. There is a very limited amount of commercial land uses supporting suburban living (restaurants, a grocery store). Commercial land uses are predominantly centered on Wythe Creek Road. There are a few marinas located outside the City's MS4 service area. There are no industrial land uses in the City. Over 99% of all homes are connected to sewer. The City itself is configured into one concentrated, developed area surrounded on three sides by water and tidal wetlands.
History of Detecting Discharges	Adequate drainage and water flow is a key concern because of the low lying nature of this coastal community. There is also a strong environmental friendly ethos. These factors, combined with highly visible ditches and drainage systems, often result in illicit discharges being reported to the City as they are occurring. Historically that is how most large debris piles, unpermitted construction discharges and hazardous/chemical discharges come to the City's attention. Discharges most often discovered during inspections tend to be typical discharges created by residential land uses: yard waste, pet waste and very rarely used motor oil or cooking waste.
Areas of the City Where Illicit Discharges are most often found	Yard wastes, pool filter discharge lines, used motor oil and refuse are typically found in the City's residential areas. Discharges tend to occur in open ditches (vs. closed pipe systems). Commercial dumpsters must be monitored for leachate discharges. Prioritized areas are those portions of the system located downstream of dense residential development and the outfalls of commercial dumpster areas. Outfalls located at the downstream edge of the system, outside of the area easily accessed by residents, is a lower priority. In addition to the MS4, City staff should continue to monitor the Messick Point area, as this area is isolated and experiences frequent refuse and chemical drop offs. The downstream end of Poquoson Avenue should also be monitored for illegal dumping of waste.
Fiscal Year 2021 Priorities	Public Works to continue to inspect outfalls in sub areas C, D and F. F001 is located downstream of an upcoming Middle School rennovation project and should be inspected this year. C010 is downstream of proposed construction and should be inspected. While not as dense in population, new home construction in the vicinity of G001-G007 warrants inspection. E005 has also been inspected. Inspections will continue in teh most populated areas of the City, with isolated and smaller outfall inspections occurring after the ones listed herein.
Additional priorities	The 2020 Poquoson Seafood festival, was scheduled for October but has been cancelled because of the pandemic. Should a spring 2021 event be held, the event area may require additional inspections. After the event is completed, the site will be inspected to make sure proper cleanup has taken place. Please note that this list of planned inspections is subject to change based on new construction projects, staffing,citizen input, and drainage/flooding concerns. If enough warning is given, be aware that staff members walk the entire drianage system prior to a hurricane.

DRY WEATHER SCREENING & ILLICIT DISCHARGE RESPONSE STANDARD OPERATING PROCEDURES (SOP'S)

Purpose

In accordance with its MS4 permit, Poquoson must develop a dry weather screening protocal to find and eliminate to the maximum extent practicable illicit discharges into its storwmater system. These SOP's are intended to accomplish this goal.

Scope

Dry weather screening is primarily conducted by Public Works and City Engineering employees. However, detecting and eliminating illicit discharges is the joint responsibility of all employees. City departments will incorporate good housekeeping measures and will notify the proper authority of suspected illicit discharges in a timely manner.

Training

in order to ensure all employees understand their responsibilities and requried courses of action in the event of seeing or being informed of a possible illicit discharge, all department heads will be briefed on standard operating procedures at least once a permit cycle. Personnel charged with screening for, investigating or handling illicit discharges will be trained in accordance with MS4 permit requirements.

Fire Department

The Fire Department will respond to all reports of discharges of hazardous substances in accordance with DEQ requirements. Other City personnel shall notify the Fire Department if a hazardous discharge is suspected.

Public Works Employees

Public works employees serve as the front line of defense against and the primary screeners for illicit discharges. Poquoson is a low lying coastal community that routinely experiences flooding. Maintenance of the City's drainage sytem is a year-round, constant activity. All Public Works employees will be trained to identify, investigate and report illicit discharges. Those employees working in or near the drainage system will perform an initial screening of the entire length of the MS4 segment in which they are working prior to beginning work. The crew chief will fill out screening forms and report to the drainage supervisor. The drainage supervisor will keep all records and provide updates to the City Engineer. If a potential discharge is suspected, the crew chief will immediately follow the potential discharge to determine its source. If a source cannot be identified or if there are indicators that standing water in a ditch or pipe could be something other than groundwater or tidal water, the crew chief will notify the City Inspector and the City Engineer. The drainage supervisor will receive additional training on teh importance of screening for and identifying illicit discharges, and will ensure his crews are properly trained.

City Inspector

The City Inspector will respond to all complaints of illicit discharges and follow up on any discharges identified by fellow employees. The City Inspector will initiate enforcement actions as needed; take samples of suspected discharges; and consult with the City Engineer and Environmental Compliance Officer.

Summary of Illicit Discharge and Dry Weather Screening Fiscal Year 2020

Month	outfalls	length ditches, l.f.	# outfalls
Jul-19	B: 7, 8c; C: 2, 2a, 2b, 8; E: 5b; F: 7; G: 1a	10,085	9
Aug-19	B: 8b, 4; D: 7; E: 1f	10,410	4
Nov-19	C: 2c; D: 8a, 8b; F: 7b, 2a, 2b; G: 5g	9,065	7
Dec-19	A: 5a; B: 11, 12, 13, 14, 8b, 2a, 2c; C	21,575	8
Jan-20	c: 9, 9c, 7a; E: 2d	12,725	4
Feb-20	E: 3b; G: 1d, 4, 4a, 4c, 4d, 4e, f	8,840	8
Mar-20	B: 3; F: 2, 5a; G: 3b, 3c, 3l, 3n	10,475	7
Apr-20	A: 1, 1c, 5b; C: 1b, 17, 18, 19,20; E: 2b, 2c, 8, 8a, 1f	16,920	13
May-20	A: 9, 2, 1d, 4, 5, 6a, 6b, 6d, 7, 7a, 11, 11a; E: 5d, 5e, 5g, 1c, 1a, 5, 6, 4; C: 2d	20,030	21
Jun-20	B: 1, 1a, 2, 2d, 17; D: 3e, 3d, 7; E: 4, 7	15,565	10
total		**135,690**	**91**

CITY OF POQUOSON, VA
Department of Public Works

DRY WEATHER SCREENING
ILLICIT DISCHARGE DETECTION DATA SHEET

- **Check all of City drainage areas, clean leaves and debris, as part of annual preventative maintenance and rain/snow events.**

Month: August
Year: 2019

DATE:	8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31
TIME:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PUBLIC WORKS I.D. NO.:																															
SECTION CODE & No.	B8C	B8C	N/A	N/A	N/A	B8C	B8C	B8C	N/A	N/A	N/A	D7	D7	B8B	B8B	B8B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A, B, C	B4	B4	E1F	N/A	N/A
WEATHER:																															
CALM	YES	YES	N/A	N/A	N/A	YES	YES	YES	N/A	N/A	N/A	YES	YES	YES	YES	YES	N/A	N/A	YES	YES	YES	YES	YES	N/A	N/A	YES	YES	YES	YES	N/A	N/A
CLOUDY	N/A	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	YES	YES	YES	N/A	N/A	N/A
DRY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RAIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SNOW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SUNNY	YES	N/A	N/A	N/A	N/A	YES	YES	YES	N/A	N/A	N/A	YES	YES	YES	N/A	YES	N/A	N/A	YES	YES	YES	YES	YES	N/A	N/A	N/A	N/A	N/A	YES	N/A	N/A
WET	YES	YES	N/A	N/A	N/A	YES	YES	YES	N/A	N/A	N/A	YES	YES	YES	YES	YES	N/A	N/A	YES	YES	YES	YES	YES	N/A	N/A	YES	YES	YES	YES	N/A	N/A
WIND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TYPE OF DRAINAGE STRUCTURE:																															
PIPE Include size & length	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UNPAVED DITCH Include length	3000'	3000'	N/A	N/A	N/A	3000'	3000'	3000'	N/A	N/A	N/A	1465'	1465'	7315'	7315'	7315'	N/A	N/A	7315'	7315'	7315'	7315'	7315'	N/A	N/A	N/A	950'	950'	680'	N/A	N/A
PAVED Include length	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TOTAL FOOTAGE:	3000'	3000'	N/A	N/A	N/A	3000'	3000'	3000'	N/A	N/A	N/A	1465'	1465'	7315'	7315'	7315'	N/A	N/A	7315'	7315'	7315'	7315'	7315'	N/A	N/A	N/A	950'	950'	680'	N/A	N/A
CONDITION OF DRAINAGE AREA:																															
HEAVY SEDIMENT AND/OR EROSION	NO	NO	N/A	N/A	N/A	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	N/A	N/A
PIPES DAMAGED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PAVED SECTIONS DAMAGED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ILLICIT DISCHARGE	NO	NO	N/A	N/A	N/A	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	N/A	N/A
OTHER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PHYSICAL INDICATORS:																															
DID YOU NOTICE ANY UNUSUAL SMELLS?	NO	NO	N/A	N/A	N/A	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	N/A	NO	NO	N/A	N/A
SEWAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PETROLEUM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RANCIS/SOUR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SULFUR (Rotten Eggs)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DID THE WATER HAVE UNUSUAL COLOR OR OILY SHEEN?	NO	NO	N/A	N/A	N/A	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	N/A	NO	NO	N/A	N/A
INDICATIONS OF FLOWABLES (Toilet paper, feces, suds, etc.)	NO	NO	N/A	N/A	N/A	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	N/A	NO	NO	N/A	N/A
CONDITION OF VEGATATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OTHER UNUSUAL CONDITIONS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTES:

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Attach any additional information, such as approximate address/location, photos, etc.

Standard Operating Procedures for Responding to Spill Reports and Environmental Concerns

	Standard Operating Procedure
Purpose	In accordance with its MS4 permit, Poquoson must develop a standard operating procedure to react to reports of and mitigate to the maximum extent practicable illicit discharges into its storwmater system. These SOP's are intended to accomplish this goal.
Scope	Reacting to reports of and eliminating illicit discharges is the joint responsibility of all employees. All City departments will respond to reports of illicit discharges by notifying the proper authority in a timely manner.
Notification and Tracking	While several departments (listed below) are equipped to and routinely respond to reports of illicit discharges, City employees receiving reports of illicit discharges are to report all potential spills to the Environmental Compliance Officer (ECO) at 868-3040. Spills occurring within the City's drainage system can also be reported to the Public Works Department. The Environmental Compliance Officer will coordinate the response, first contacting the Public Works and Engineering Departments. In the event the Environmental Compliance Officer is not available, the Engineering Department will take the lead on coordinating the response. The ECO will keep records of and track the spill response and resolution.
Investigation	Upon receiving a report of a spill, the ECO will coordiate the City response, ensure the issue is addressed and arrange for a staff member to investigate the site within a business day. The Fire Department will be notified and take the lead on all spills 5 gallons or larger in size. The ECO will take the lead on E&SC, stormwater and CBPA violations. Public Works will take the lead on other issues impacting the flow, maintenance or condition of the City's drainage system. As spills often involve more than one department's area, Public Works, the ECO and Engineering will be copied on correspondance for all reports.
Fire Department	Will respond to hazardous waste spills and spills of 5 gallons and larger. The FD will notify and file reports with the state EOC, which in turn will notify DEQ if warranted. The FD will follow its SOPs to place booms or other absorbent devices about the spill and to dispose of clean up materials properly. The status of clean up will be communicated to the ECO and the Engineering Department.
Public Works Employees	Will respond to reports of spills, obstructions, and other discharges impacting the City's streets or drainage system. In the event the spill is potentially hazardous or is more than 5 gallons, PW will notify and coordinate with the FD. Public works employees will deploy their spill kit materials as needed to ensure the spill is contained and will dispose of all materials used in the appropriate container at the Public Works yard so that the items are properly disposed of. Public works will restore or will coordinate the repair and restoration of all damaged City infrastructure if work is performed by the party responsible for the spill. Public Works will track all expenses related to spill response. Public Works will communicate with and provide updates to the ECO and the Engineering Department.
City Inspector	The City Inspector or the designee of the City Inspector is a Public Works Employee and will take the lead in coordinating the Public Works response.
Engineering Department	The Engineering Department will assist by inspecting, notifying property owners or coordinating the response in the event the ECO is not available. The Department will consolidate spill information for inclusion in the annual MS4 permit report.

City of Poquoson
Fire and Rescue

830 Poquoson Ave.
Poquoson, VA 23662
757-868-3510
F757-868-3514

SPECIAL OPERATIONS

SOP#: SO 2.00

Title: Hazardous Materials Incident

Effective Date: 06/06/2008

Revised Date: 06/06/2008

Fire Chief's Signature

City Manager's Signature

HAZARDOUS MATERIALS INCIDENTS

I. PURPOSE

This is to provide guidelines for engine company response to possible hazardous material incidents. Areas addressed within this guideline cover five general areas.

- Actions taken by the engine company upon receipt of and while en route to a possible hazardous materials incident.
- Actions to be taken by the engine company upon arrival at and while on the scene of a possible hazardous materials incident in transportation at fixed facilities.
- Proper response to roadway spills.
- The notification and possible response of the local Hazardous Materials Team.
- Emergency Decontamination of contaminated personnel.

This SOP is not all-inclusive and cannot encompass all situations that may be encountered.

II. APPLICATION

All Career and Volunteer Personnel

III. POLICY

Upon receipt of a call identifying a possible hazardous materials incident, the first responding officer should use the following guidelines to assist in the initial size-up of the incident.

1. Request all available information from the dispatcher.
   - Nature of the call
   - Who requested the Fire Department / number of calls
   - Type of facility or vehicle(s) involved
   - Number of injured persons, and any outward signs and symptoms.
   - Any specific chemicals, if known

2. Obtain wind speed and direction from the dispatcher.

3. Upon arrival
   - Determine that there is a problem
   - Look for signs of an intentional act; WMD
   - Isolate area of incident, deny entry.
   - **Refer to Emergency Response Guidebook for initial actions and isolation distances.**
   - Make notifications as soon as possible, example: Police, Haz-Mat team, Hospitals etc.

Fixed Site Incidents

SAFETY OF THE RESPONDING FIREFIGHTERS IS TO BE GIVEN FIRST CONSIDERATION BEFORE ANY ACTION IS UNDERTAKEN. (It is strongly suggested that the Incident Commander, advise all responding units to stage while an initial assessment is conducted.)

Apparatus should stage **UP-HILL-AND-UP-WIND** at a safe distance from the incident.

Establish Command and gather the following information:

- Locate the person who requested the Fire Department and verify the reason for requesting assistance.
- Attempt to determine the chemicals involved.
- Obtain all available information on the health hazards of the chemicals involved.
- Determine the quantity of chemicals involved.
- Gather all available information on the physical and chemical properties of the chemicals involved. Including if the chemicals react to other products/chemicals.
- Try to obtain MSDS sheets, Bill of Laden, Cargo Manifest or Shipping Papers on the chemicals involved.

Based upon the information gathered, determine if the Engine Company is capable of providing the actions required to **MITIGATE** the hazard.

Request the Hazardous Materials Team for specialized assistance if required.

Determine if evacuation is necessary.

Transportation Incidents

Establish command and gather information.

Attempt to locate the driver of the vehicle and ascertain what products are in the shipment.

Observe the vehicle from a safe distance noting trailer style and construction.

- Box trailer
- Tank trailer and shape of the tank

LOOK FOR PLACARDS, LABELS, U.N. / N.A. ID NUMBERS ON THE TANK AND RECORD THEM.

Look for leaks or spills.

- Amount of product that has spilled or leaked.
- Potential danger of entering waterways, storm sewers, or domestic systems

Determine the type and location of damage to vehicle.

Observe vapor production and direction of the vapor plume.

Attempt to obtain the Bill of Lading if it can be done SAFELY.

- Normally located in the pouch on the driver's door or on the driver's seat when the driver is away from the vehicle.
- If two trailers are being drawn in tandem (PIGGY-BACK) the Bill of Lading of the rear trailer may be locked in that trailer and unavailable.
- Intermodal tanks will have a tube secured to the tank with papers inside.

If the vehicle is involved in fire and has liquid or vapor products burning;

- DO NOT EXTINGUISH VALVE FIRES IF CONTAINER IS PRESSURIZED UNLESS THE LEAK CAN BE STOPPED IMMEDIATELY AFTER EXTINGUISHMENT. (Consider tank cooling to prevent B.L.E.V.E.)
- DO NOT ATTEMPT TO EXTINGUISH FIRES USING FOAM UNLESS ENOUGH FOAM IS AT THE INCIDENT TO SUCCESSFULLY EXTINGUISH THE FIRE.

Roadway Spills

For a small quantity fuel spill on the highways (defined as fuels in storage tanks designed for vehicle operation), spread control should be initiated as necessary to prevent contamination of surrounding waterways. City agencies may be requested as needed for

containment supplies. Because spill quantities should be limited (review above definition), debris can be removed from the scene and transported to the proper facility.

The department of Public Works can be called to the scene with a street sweeper and clean the roadway of any remnants.

Hazardous Materials Team

The Hazardous Materials Team shall be dispatched, by dispatch, during any of the following incidents:

- Any time an Incident Commander requires technical assistance concerning hazardous materials.
- When a hazardous materials incident requires evacuation of the general public or when the incident exposes a hospital, nursing home, school, and/or day care center.
- When personnel encounter products in excess of the following amounts:
    - Poisons - any amount
    - Radioactive - any amount
    - Organic Peroxides - any amount
    - Etiologic Agents (Biomedical materials) - any amount
    - Irritants - any amount
    - Explosives or Blasting Agents - any amount except set explosive devices g) Flammable solids - any amount
    - Flammable Liquids - in excess of 50 gallons
    - Flammable Gases - any amount
    - Corrosives - any amount
    - Oxidizers - any amount
    - Chlorine/Ammonia - any amount
    - Combustible Liquids - in excess of 50 gallons
    - All confirmed Haz-Mat incidents
    - Petroleum spills - in excess of 50 gallons
    - Flammable spills which enter a storm drain or sewer system

Emergency Decontamination

The guidelines below are to be followed in those instances where the appropriate decontamination procedures cannot be followed for reasons of lack of manpower, lack of equipment, lack of time, etc. This technique to be used by the initial engine company, without the resources of the Hazardous Materials Team.

To facilitate this work, it is recommended that a pre-assembled Emergency DECON kit be carried having at least one brush, one bucket and some soap. Failing this, water should be used in copious amounts. A pumper or other water source is required.

The steps to be followed are:

- DECON area is identified.
- Brush off dry product.
- Remove all clothing.
- Thoroughly wash and rinse the victim with soap and water using a brush and not contacting the victim.

These steps should only take a few minutes. They may be altered as necessary.

Remember that speed is of the essence and that if time or equipment deficiency requires it, thorough washing with water is considered emergency decontamination.

Emergency decontamination is to be done rapidly, but effectively. This is very important to insure that there is no product migration from the incident site, so as not to contaminate the transport ambulance or receiving hospital.

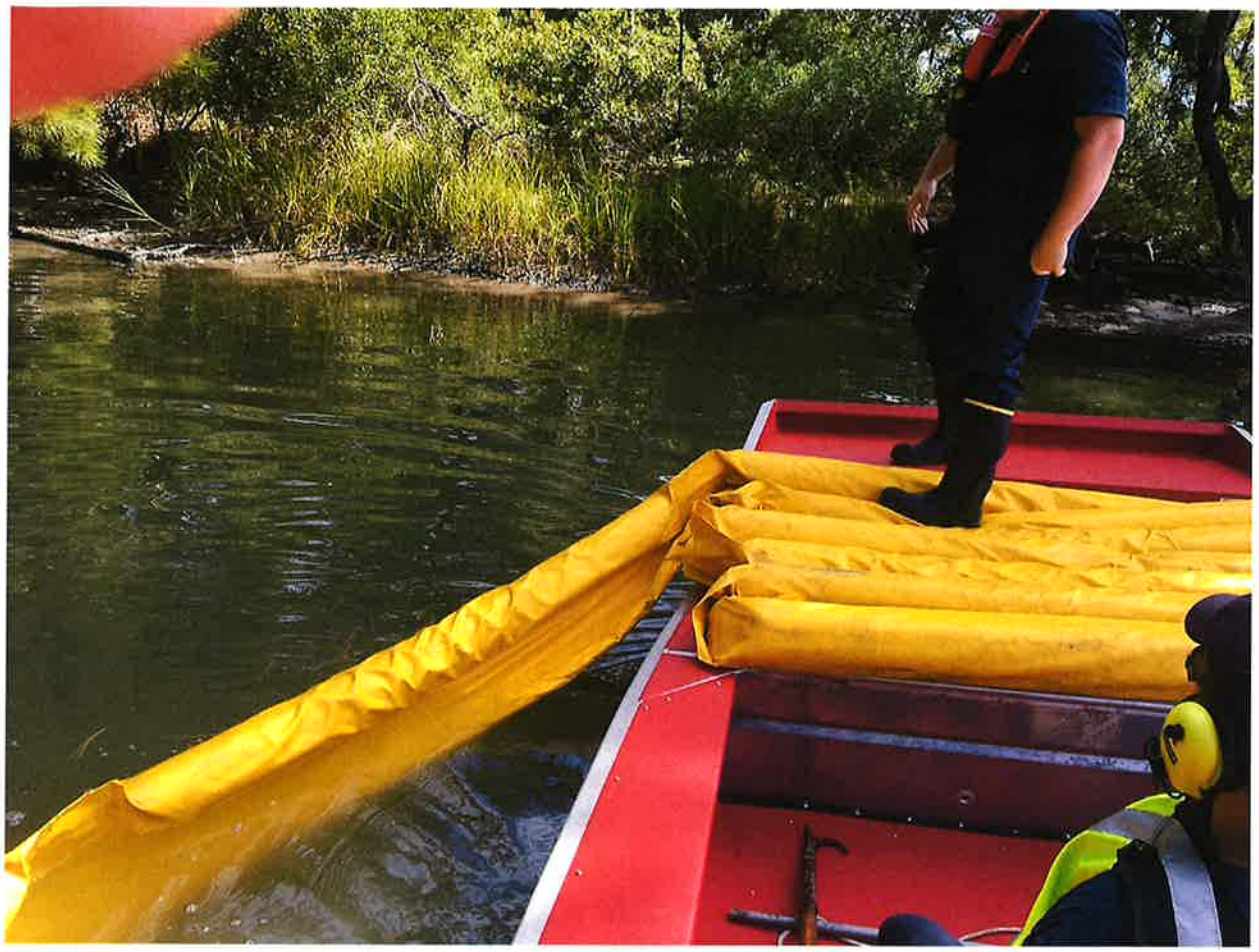
If there is a question as to whether DECON is thorough, isolate decontaminated personnel until all doubts are answered.

FIRE DEPARTMENT MARINE SPILL RESPONSE

Poquoson Fire Department Air Boat: Used in regional training and used to respond and contain marine spills throughout the region. Poquoson was the first and may still be the only fire department with an air boat. This provides access to marshy areas throughout the area for emergency responses and spill containment.

Boat Fire Response: Deploying boom from Fire Department boat to contain discharges

Regional Haz Mat Training: Partnering with VDEM and DEQ, Poquoson provided its Air Boat for regional marine spill training.



Illicit Discharge Response Summary Table

Source of Illicit Discharge	Date observed, reported, or both	Was Discharge Discovered by Staff through Dry Weather Screening (DWS), Reported by the Public (RP), or by Other Means (OM)?	Investigation Resolution	Follow Up Activities	Date Investigation Was Closed	Did Spill Occur Within or Outfall into MS4?
Paint containers were illegally disposed of by placing them next to and behind a curb within the City Right of Way, near Messick Point Boat Ramp	7/25/2019	This leak was observed and reported by a Public Works staff member.	Public Works responded to the incident. The paint containers were removed and properly disposed of by staff. Paint that had spilled along the gutter line was treated with absorbent materials that were then collected and properly disposed of. No fluid was released into the City drainage system or downstream waters.	City staff remained on site to enure clean up was complete.	7.25/2019	Leak did not enter the MS4 drainage system. It occurred within the MS4 service area but did not enter the drainage system.
Gas spilled from a small container onto a commercial parking lot.	8/19/2019	The store owner contacted the Fire Department.	The Fire Department responded to the call and applied absorbent to a small gasoline spill. Store employees were briefed on the proper gasoline and absorbents disposal methods. No discharge reached the MS4, state waters, or the public right of way.	Staff ensured the spill was absorbed and not a fire or environmental threat.	8/19/2019	Spill was contained on private property within the MS4 service area but did not enter the MS4.
A resident dewatered a crawl space that had been the site of a sewer leak by directing low flow to a private property ditch that outfalled into a public ditch.	11/4/2019	RP. A citizen called to report a possible sewage outfall into a public ditch.	Public Works, Codes Compliance, Engineering and Planning departments all responded to this issue. Public Works took the lead, inspected the area immediately after report was received and followed through to ensure clean up. Codes Compliance became involved because this discharge involved a sewage discharge from a structure. Codes Compliance investigated for Occupancy Permit purposes.	No floatables were observed but a trickle flow (less than 1 cfs) was observed. The owner was given an immediate cease and desist order (verbal) followed up by a November 6th formal written order that included information on options for cleaning and mitigating damage. The owner provided a clean up strategy in an email on November 7th. The activity ceased and clean up began immediately and the owner was sent a letter on November 20th indicating the matter had been resolved.	11.20.2019	Minimal flow may have entered MS4 (discharge primarily located in private property ditch upstream of ditch).
A drinking water line ruptured, causing water to bubble up from under the ground and deposit sediment into a ditch.	12/2/2019	Newport News Waterworks reported the incident. This impacted their water line and they responded and handled the incident. Public Works staff observed the discharge response.	Newport News Waterworks removed sediment deposited and used dechlorination tablets to ensure the drinking water discharge met state requirements.	Public Works staff observed the downstream MS4 and verified sediment had been removed.	12/2/2019	Sediment and drinking water entered drainage system. Sediment was removed and water was dechlorinated before entering state waters.
Motor vehicle accident caused fluids to be leaked on to a public road.	1/3/2020	RP. The accident was reported to the police and fire departments. City staff observed leaking fluids.	Motor fluids leaked onto the roadway during a motor vehicle accident.	The Fire Department applied absorbents to the spill and properly disposed of the materials.	1/3/2020	Discharge did not reach the MS4 but occurred within the MS4 service area.
Gasoline from a leaking vehicle spilled onto a drive-in window lane at a local bank.	2/18/2020	RP. A bank employee noted a gasoline smell and called the Fire Department.	The Fire Department responded and applied absorbent materials to a small amount of liquid. Materials were properly disposed of.	The Fire Department applied absorbents to the spill and properly disposed of the materials.	2/18/2020	Discharge did not reach the MS4 but occurred within the MS4 service area.
Heating oil discharge from a ruptured home fuel oil tank into ditch	5/28/2020	RP: A citizen observed a fuel oil discharge and stopped by a Fire Station to report.	Fire station personnel went to the reported location and found the spill. They applied absorbent materials immediately and contacted the property owner to obtain more information and to ascertain the cause. A 40 gallon fuel tank had broken. The owner had tried to use dish detergent to handle the spill, so that was also present in the ditch.	the Virginia EOC and DEQ notified. City staff maintained absorbent materials at the site until DEQ arrived. The Fire Department assisted state responders by providing additional booms and mats. City staff pointed out a sheen on downstream waters to state staff. A vacuum truck was called to remove as much of spill as possible, and DEQ took the lead in ditch/soil remediation. City staff also informed the property owner of proper procedures and that dish detergent was not an appropriate clean up method.	5/28/2020	Spill reached the MS4 and was reported to and handled by DEQ.
Private sewer break/sewage discharge	6/13/2020	RP. Effluent observed coming out of the ground in a residential yard.	City staff including the Fire Department were deployed and determined that a privately owned sewage grinder pump effluent line was damaged.	City Utilities staff instructed the citizen to turn off pump and assisted with parts needed to make the repair.	6/13/2020	No discharge reached City roads, property or the MS4 system.
Antifreeze Spill	6/15/2020	RP. The Fire Department responded to a liquid spill call.	Approximately 1 quart of antifreeze had been spilled in a commercial parking lot.	The Fire Department applied absorbents to the spill and properly disposed of the materials.	6/15/2020	No discharge reached City roads, property or the MS4 system.
Motor Vehicle accident fluids	6/19/2020	RP.	Hydaulic oil spill from a construction truck. The Fire Department responded and determined that less than half a gallon had been spilled.	The Fire Department applied absorbents to the spill and properly disposed of the materials.	6/19/2020	No discharge reached City roads, property or the MS4 system.

ILLICIT DISCHARGE TYPICAL BACKUP INFORMATION:

Inspection forms, correspondence, Fire Department Hazardous waste reporting forms, typical email correspondence. Information on all spills listed in summary is available in City Environmental Compliance Officer and Fire Department files.

Note: Information provided relates to worst illicit discharges in FY 2020.

CITY OF POQUOSON
Department of Public Works

STORMWATER POLLUTION PREVENTION
SPILL / LEAK CLEAN-UP REPORT

NOTE: If significant spills or leaks (>5 gallons) have occurred. Call 911 to notify Fire Dept.

DATE: July 25, 2019	**TIME REPORTED:** 2:15 __ AM X PM
TYPE OF CLEAN-UP: *(Check one)* **SPILL** __ **LEAK** X	
LOCATION: *(If possible, provide map)* Located in the parking lot area of the Messick Point Boat Ramp off of Messick Road. Long: 76° 19' 14.09" W – Lat: 37° 06' 36.23" N	
DESCRIPTION: Leak was from paint buckets that were dropped off in parking lot area.	

TYPE OF MATERIAL	QUANTITY	SOURCE	REASON
Paint	Less than 5 gals.	Unknown	Unknown

RESPONSE PROCEDURES: The Public Works Dept. dispatched a work crew to contain, pick up the material and clean-up the leak.

CORRECTIVE MEASURES TAKEN: The Public Works Dept. contained the leak, picked up the material and applied sand to material that had leaked in the area and cleaned up the material, as required. No paint entered and/or infiltrated into any nearby waterway. All paint was contained on the pavement surface within the parking lot area. Photos attached.

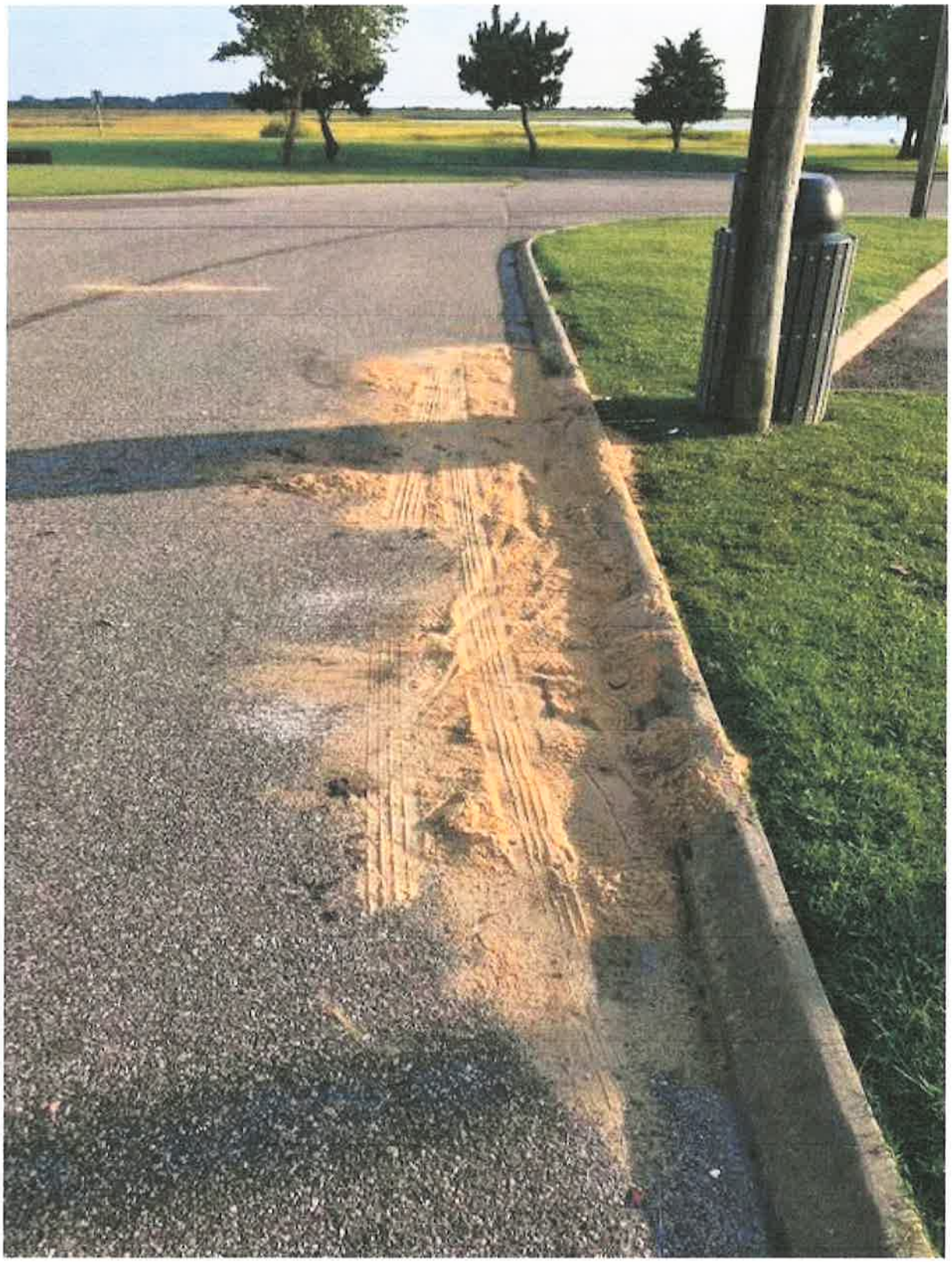
The above was responded, inspected & verified by:

NAME: Mark G. Boesen
(Print Name)

SIGN: Mark G. Boesen
(Signature)

DATE: July 25, 2019

MAP LOCATION OF SPILL AREA



CITY OF POQUOSON
Department of Community Development

CEASE AND DESIST NOTICE

November 6, 2019

Stephen E. Lynch
Karen E. Lynch
928 Poquoson Avenue
Poquoson, Virginia 23662

RE: Illicit Discharge, 928 Poquoson Avenue

Mr. and Mrs. Lynch,

It has come to our attention that raw sewage has been pumped from under the house at 928 Poquoson Avenue and into the adjacent ditch. As you should know, ditches are meant to convey stormwater to our waterways and any pollutants that enter a ditch are also being conveyed to our waterways. Therefore, you are hereby ordered to **Cease and Desist** any pump out of the sewage from under the house and directed to clean up any polluted areas as follows:

- Liberally sprinkle garden lime over the spill to absorb the sewage until the affected area is covered in a white dust.
- If the sewage is thicker in certain areas, mix the lime in to help it work better. Use a rake or spade to do this.
- Let the lime covered areas stand for 24 hours.
- Once the lime is dry, shovel the sewage-contaminated lime into doubled heavy-duty trash bags.
- Wash the remnants of dried lime away from the ground with a garden hose.
- Use a hose, sprinkler or watering can to water over the area (depending on how large it is).
- Let the area dry out in the sun for a day. Sunlight helps kill bacteria so don't rake the affected area straight away as this can slow down the process.
- If you still see white dusting of the lime, water over it again until it disappears.

Follow up inspections will occur over the next few days to ensure that the cleanup is in process and that there is no sign of sewage pump out (hoses) from under the house.

In addition to the cleanup outlined above, please note that the condition of the crawlspace is a health concern that must be addressed. Responsible cleanup of the crawlspace should be completed immediately. This includes disposal of any remaining waste in a manner that will not negatively impact the environment. A sewage cleanup company may be able to provide this service.

We expect to hear from you immediately upon receipt of this letter to discuss the cause of this illicit discharge and the steps you will take to remediate. Please be aware that this issue will be forwarded to the City Attorney should you fail to respond by Tuesday, November 12, 2019. Once forwarded to the City Attorney, you will be responsible for any fees and/or fines assessed. You may speak with Charles Horton, Community Development Director, or Ellen Roberts, City Engineer, in my absence.

500 City Hall Avenue, Poquoson, Virginia 23662
Phone (757) 868-3040 Fax (757) 868-3105

CITY OF POQUOSON
Department of Community Development

Sincerely,

Karen W. Holloway

Karen W. Holloway
Environmental Compliance Officer

CERTIFIED MAIL
7019 0700 0000 3881 0145
And Hand Delivered

cc: City Attorney
City Manager
Public Works
Engineering Department
Community Development Director
Building Department
File

500 City Hall Avenue, Poquoson, Virginia 23662
Phone (757) 868-3040 Fax (757) 868-3105

ILLICIT DISCHARGE INSPECTION REPORT
POQUOSON, VIRGINIA 23662

Inspection Report No: 19-1104 Date of Inspection: November 4, 2019
Time of Inspection: 9:15AM Date of Last Inspection: N/A
Inspector: Mark G. Boesen

I. BACKGROUND INFORMATION

Reason for Inspection:
__ Routine X Citizen Complaint __ Re-inspection (#_____) __ Referral from Agency_____
Screening Point: # N/A Screening Point Description: N/A
Address/Cross Streets: 928 Poquoson Avenue
Adjacent Land Use: (Sketch if necessary) Residential (See Attached Aerial Map)
Weather: Sunny Temperature: 60-65 degrees

II. OBSERVATION

Visual Observations: __ No Flow __ Standing Water __ Flowing Water X Illicit Discharge __ Solid Debris
Estimated Flow: X Trickle (≤ 0.1 cfs) __ Light (0.1 – 0.5 cfs) __ Moderate (0.5 – 1 cfs) __ Heavy (e" 1.0 cfs)
Odor: __ None __ Rotten Eggs __ Musty X Sewage __ Fuel __ Other_____
Water Clarity: X Clear __ Cloudy __ Opaque
Floatables: X None __ Oil Sheen __ Other_____
Deposits/Stains: X None __ Oily __ Sediments __ Other_____
Biological: X None __ Bacterial/Algae __ Mosquito Larvae __ Other_____
Materials Observed: __ Paint __ Concrete __ Construction Debris X Sewage __ Food Wastes
__ Medical Wastes __ Yard Wastes __ Wash waters __ Concrete cutting slurry/wash waters
__ Garbage_____ __ Building/sidewalk wash waters
__ Vehicle cleaning wash waters __ Automotive fluids (antifreeze, fuel, motor oil, lubricants, etc.)
__ Industrial Wastes (solvents, metal, chemicals, corrosives, etc.) __ Other_____

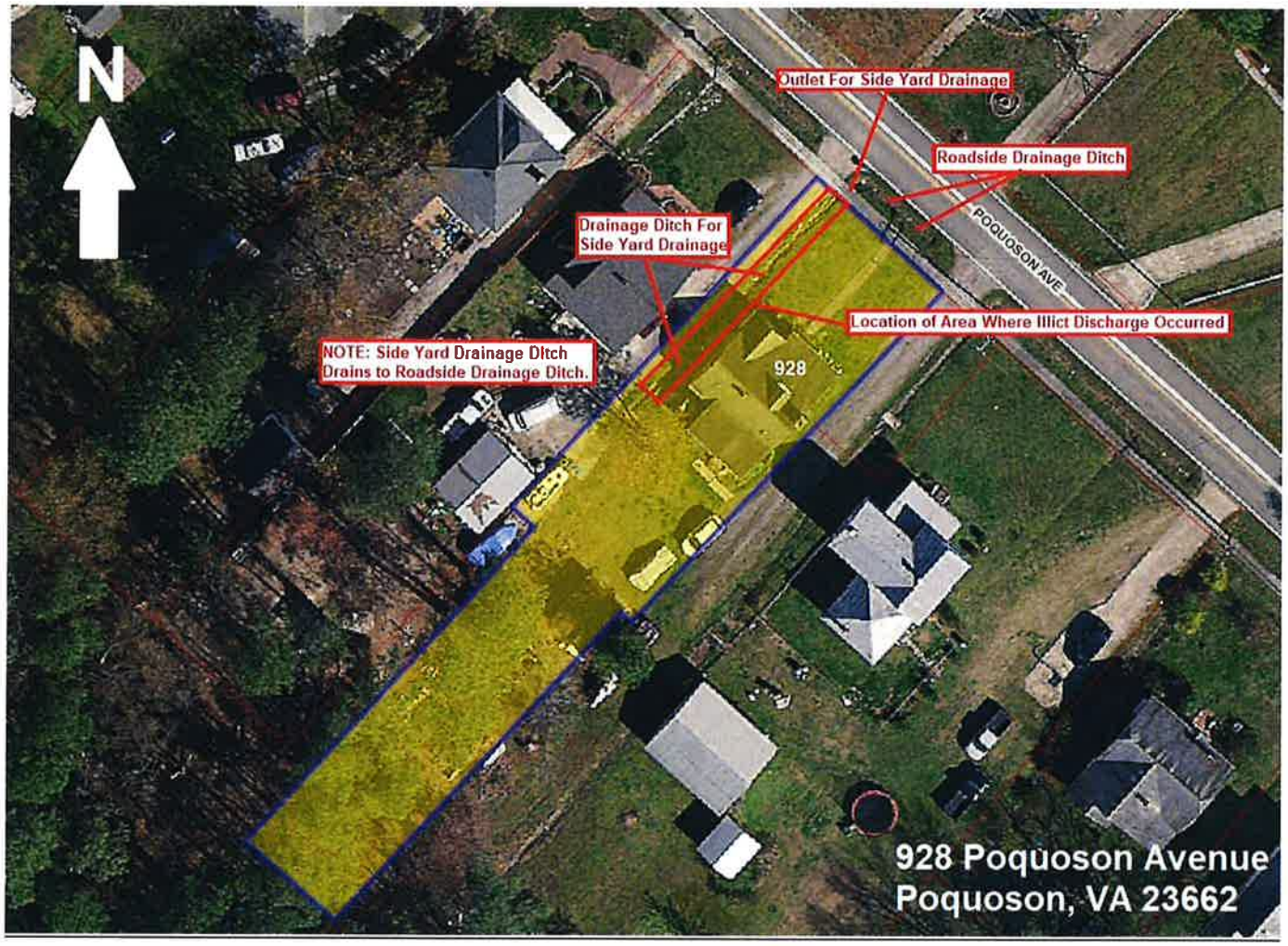
III. SAMPLING (Use appropriate chain of custody, sampling forms)

Sample # N/A
Analysis Requested: N/A
Field Analysis: pH: N/A
Temperature: N/A
Conductivity: N/A

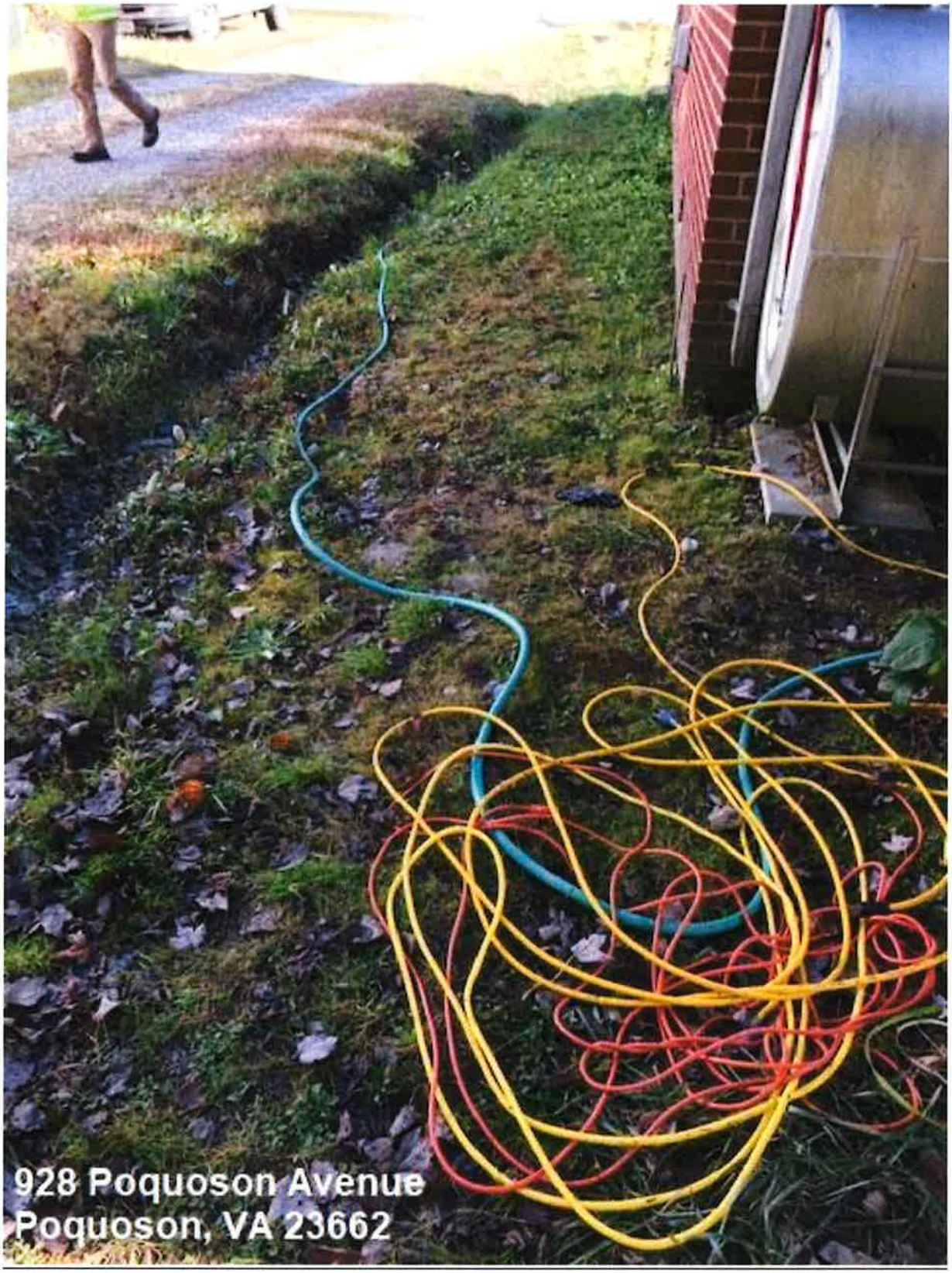
IV. COMMENTS

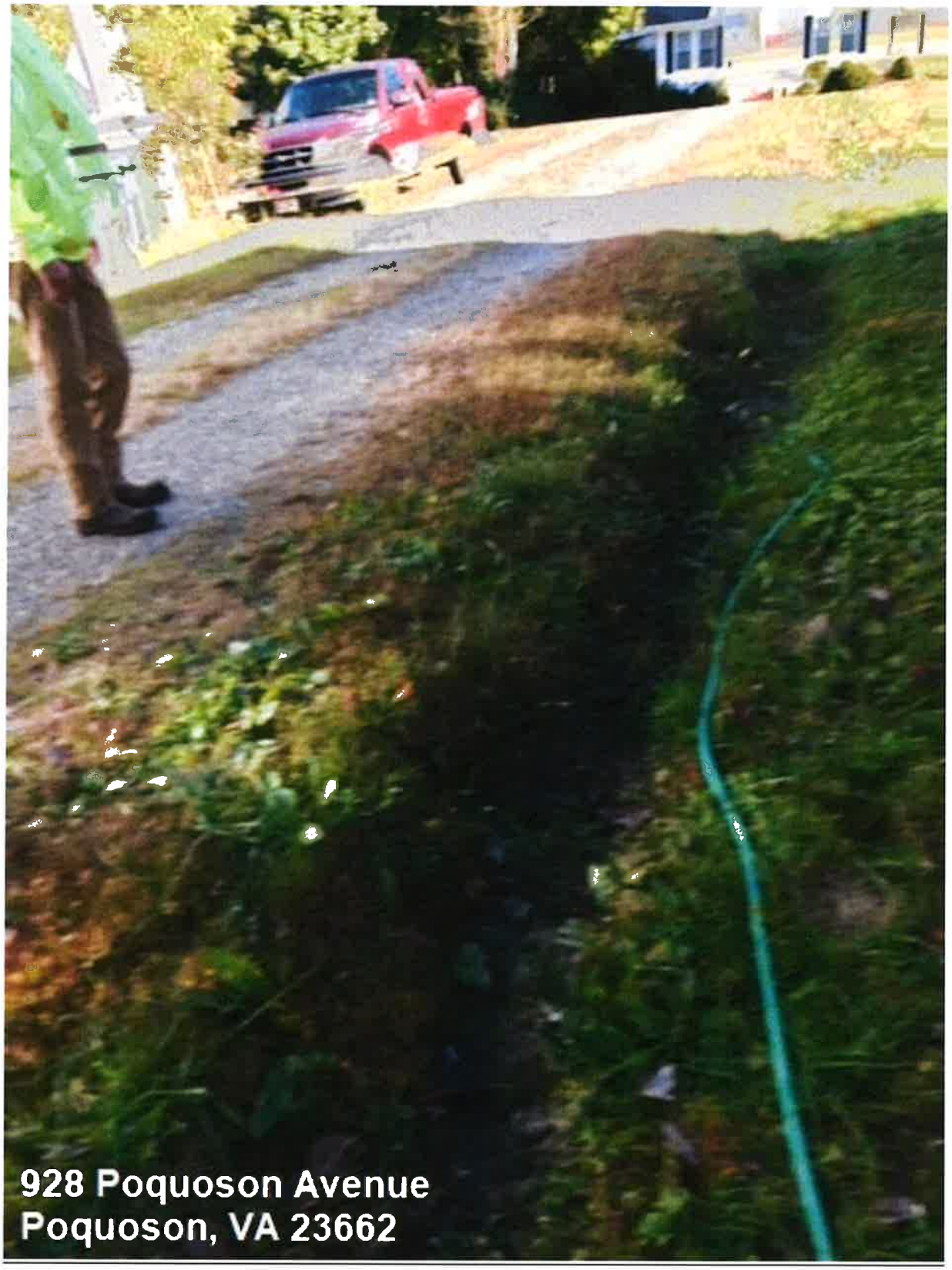
Received report from City Planning & Engineering Dept. regarding a citizen complaint about possible illicit discharge of sanitary sewer into a drainage ditch that is located at 928 Poquoson Avenue. Upon visual inspection of the area in question I observed what appeared to be a rubber garden hose coming from the underside of the residential house at the rear of house located at the above address, leading to the side yard drainage ditch and there were visible signs of discharge that had come from the hose. There was a slight

odor of sewage but I saw no signs of any type of flowables. **NOTE:** The side yard drainage ditch drains to the roadside drainage ditch that is located in front of the above address. (See attached for reference.)

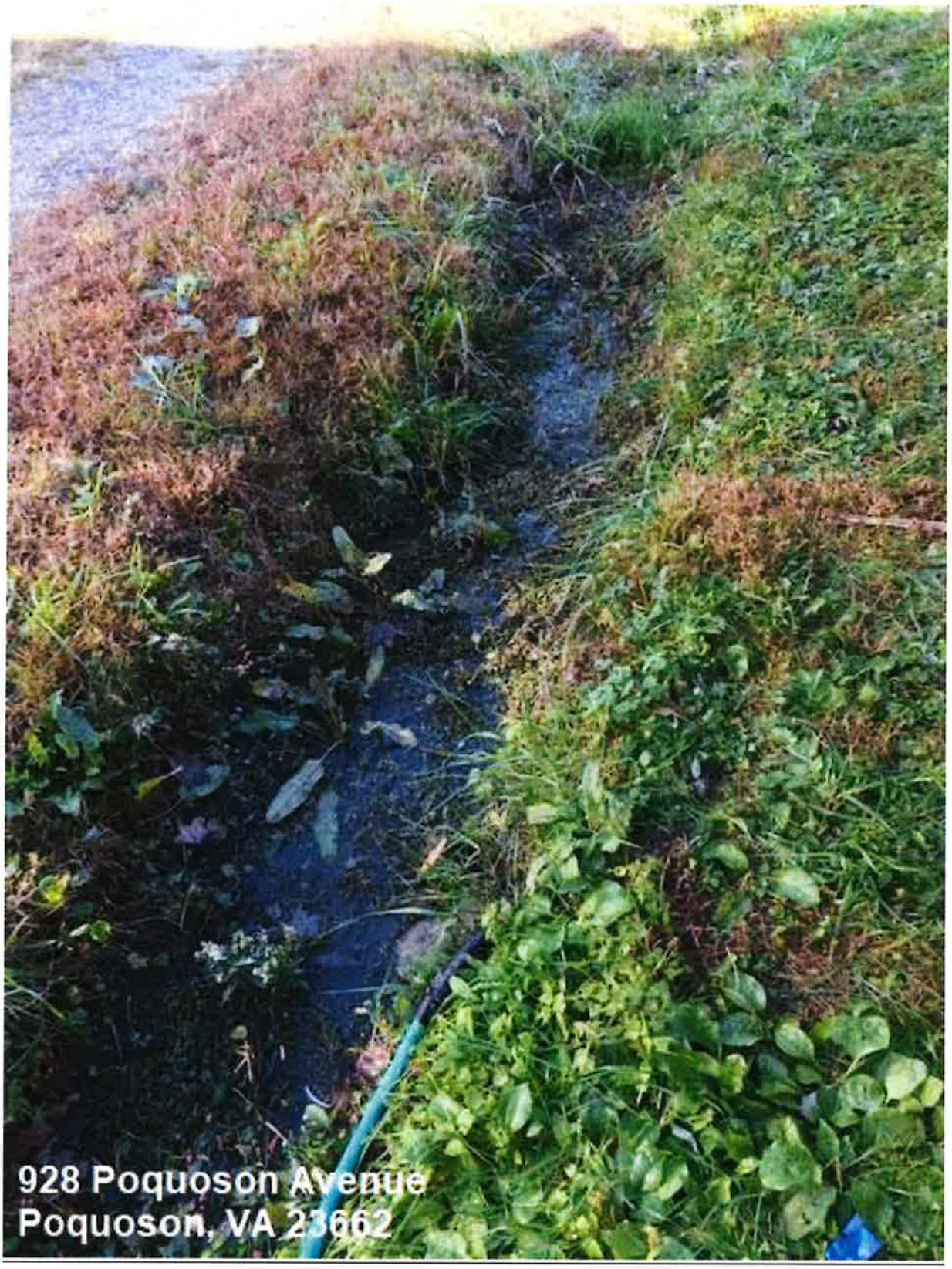


928 Poquoson Avenue
Poquoson, VA 23662

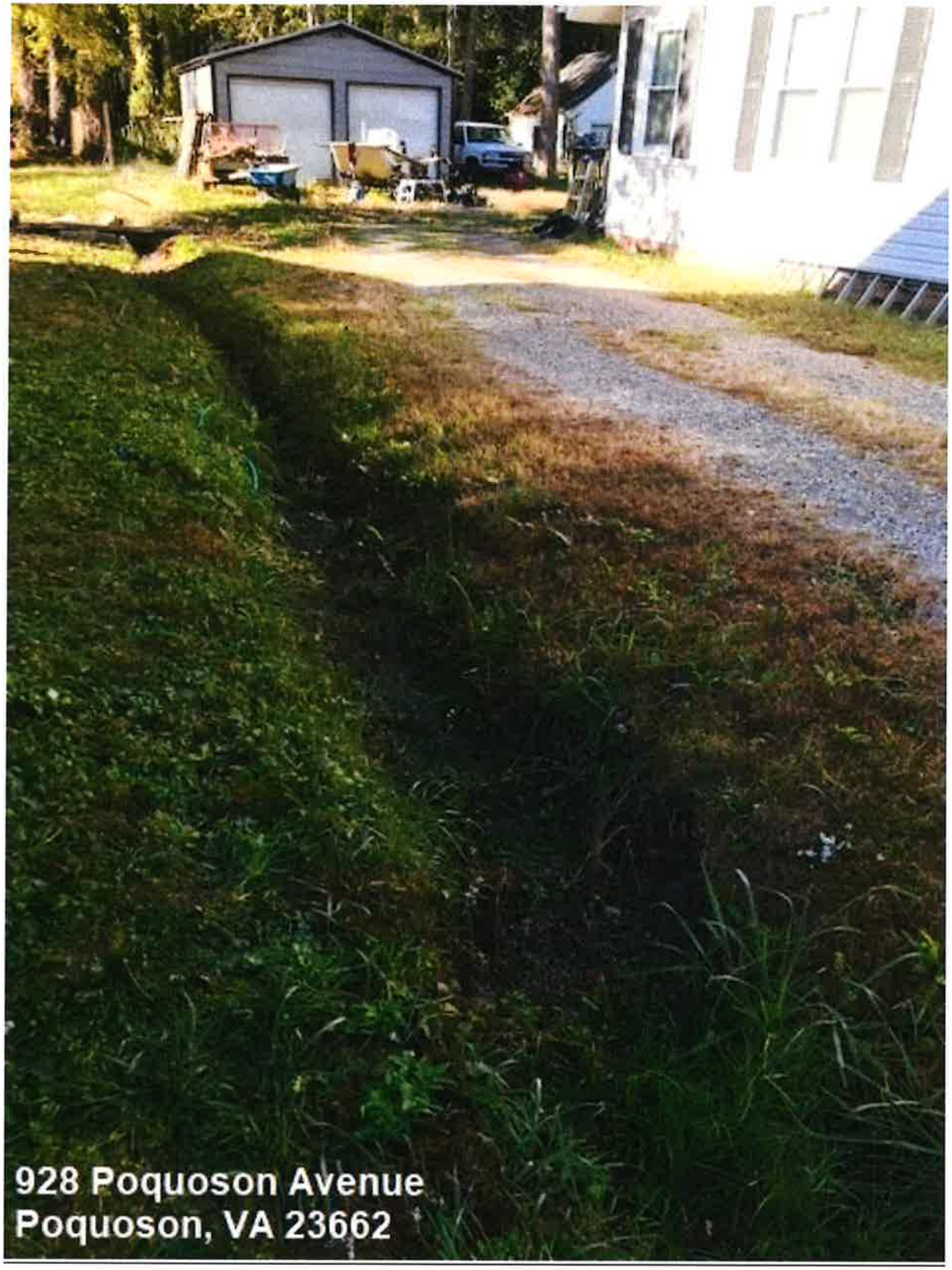

928 Poquoson Avenue
Poquoson, VA 23662


928 Poquoson Avenue
Poquoson, VA 23662

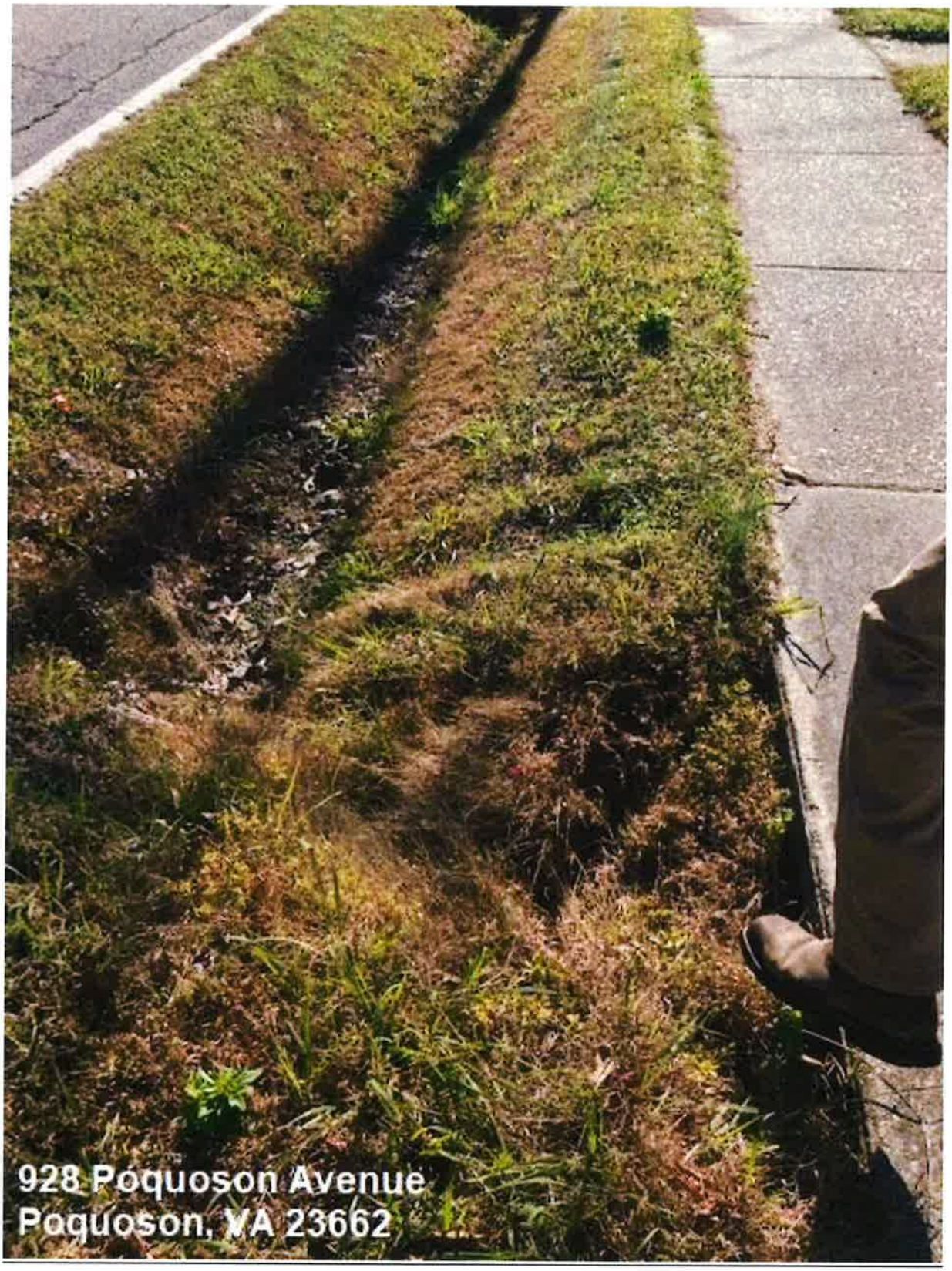
928 Poquoson Avenue
Poquoson, VA 23662

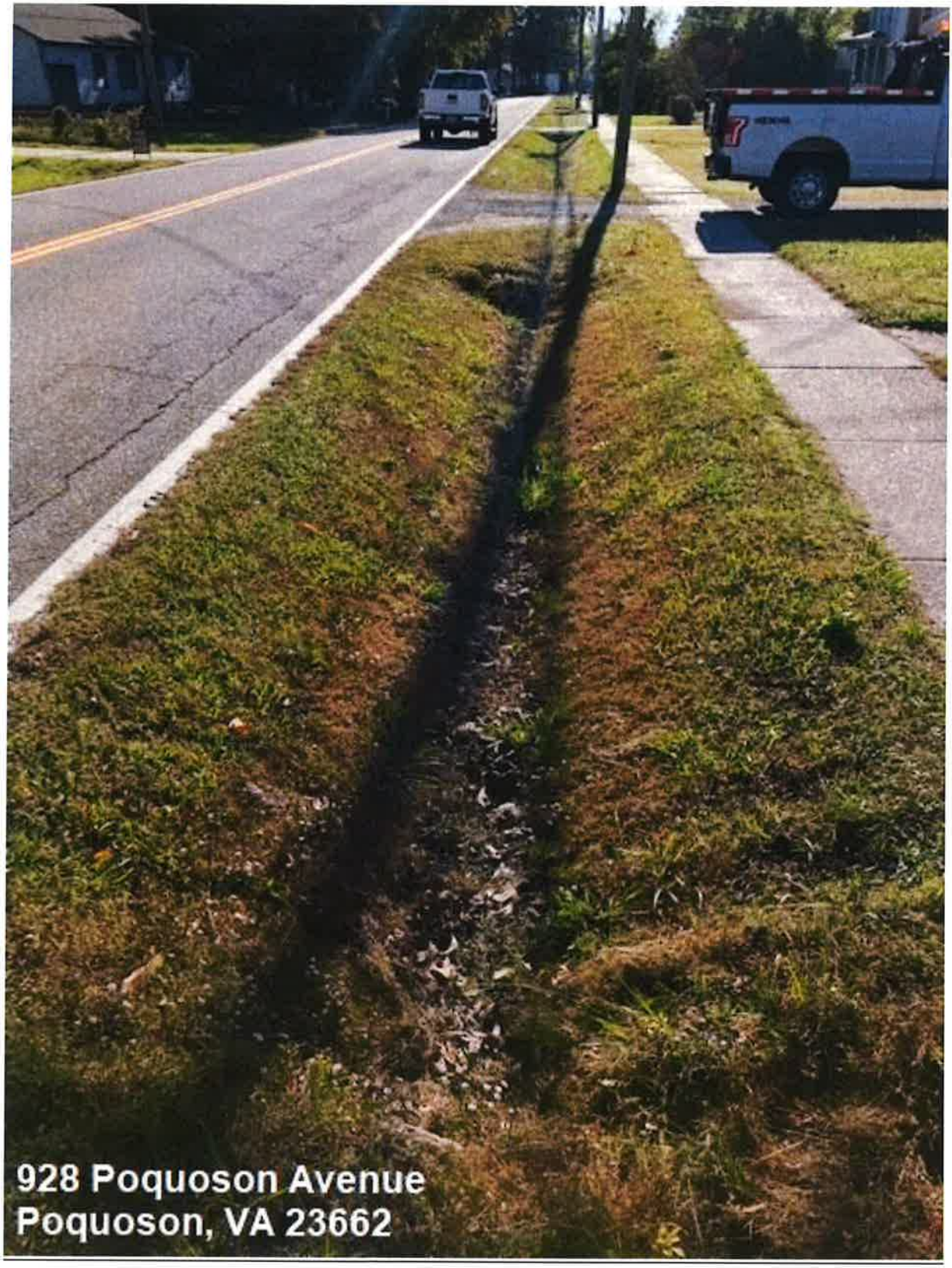

928 Poquoson Avenue
Poquoson, VA 23662

928 Poquoson Avenue
Poquoson, VA 23662


928 Poquoson Avenue
Poquoson, VA 23662

928 Poquoson Avenue
Poquoson, VA 23662


928 Poquoson Avenue
Poquoson, VA 23662


928 Poquoson Avenue
Poquoson, VA 23662

Cheryl Miller

From: Charles Horton
Sent: Thursday, November 07, 2019 11:21 AM
To: Cheryl Miller; Bryan Harrell
Subject: FW: 928 Poquoson Ave

FYI

From: Karen Lynch [mailto:Karen.Lynch@nn.k12.va.us]
Sent: Thursday, November 07, 2019 10:55 AM
To: Charles Horton
Cc: 'kelynch82@gmail.com'
Subject: 928 Poquoson Ave

Karen Holloway
Charles Horton
City of Poquoson
500 City Hall Avenue
Poquoson, Virginia 22662

RE: 928 Poquoson Avenue

Dear Mr. Horton,

This email is a follow-up to the phone call I made to your department on Thursday, November 7, 2019. I received a Cease and Desist Notice on November 6, 2019 concerning our rental property at 928 Poquoson Avenue.

On October 23, 2019, I was informed by our renters of plumbing issues. I contacted a plumber; he came out 2-3 times, but didn't want the job. I called another plumber to fix the plumbing issues. I also contacted a company that does duct work and several sewage companies over the past two weeks to address the concerns in the crawlspace. I was not there to oversee the work.

In regards to under the house, the pipe was replaced last week, a vapor liner was put down, lime was spread and the contaminated duct work was replaced. Currently there is a dehumidifier under the house and fans. Once completely dried, the crawlspace will be treated with an antimicrobial disinfectant.

In regards to the drain ditch, there is no visible sewage, however, lime was also applied to the ditch and surrounding area as outlined in your letter.

As per our conversation, I understand an inspector will visit the site on Tuesday for a follow-up inspection. I look forward to hearing from you next week.

Sincerely,

Karen Lynch

(cell) 757-813-1417

Karen Lynch

CITY OF POQUOSON
Department of Community Development

November 20, 2019

Mr. and Mrs. Stephen E. Lynch
928 Poquoson Avenue
Poquoson, Virginia 23662

RE: Illicit Discharge, 928 Poquoson Avenue

Dear Mr. and Mrs. Lynch,

This is to advise you that the illicit discharge of sewage under the home at the above-referenced property and into the adjacent ditch has been properly mitigated. Specifically, we have confirmed that the steps you outlined in your email dated November 7, 2019 have been successfully accomplished. Therefore, your property has been found to be in compliance at this time.

We appreciate your prompt action to correct this issue. Please contact me at 868-3040 with any questions.

Sincerely,

Karen W. Holloway

Karen W. Holloway
Environmental Compliance Officer

cc: City Attorney
City Manager
Public Works
Engineering Department
Community Development Director
Building Department
File

500 City Hall Avenue, Poquoson, Virginia 23662
Phone (757) 868-3040 Fax (757) 868-3105

ILLICIT DISCHARGE INSPECTION REPORT
POQUOSON, VIRGINIA 23662

Inspection Report No: 20-0602 Date of Inspection: June 3, 2020
Time of Inspection: 8:30AM Date of Last Inspection: N/A
Inspector: Mark G. Boesen

I. BACKGROUND INFORMATION

Reason for Inspection:
__ Routine X Citizen Complaint __ Re-inspection (#_____) __ Referral from Agency_____
Screening Point: # N/A Screening Point Description: N/A
Address/Cross Streets: Located in-between 102 to 106 Court DeAyllon – Cross Street: Sir Ralph Lane
Adjacent Land Use: (Sketch if necessary) Residential (See Attached Aerial Map)
Weather: Sunny Temperature: 90-95 degrees

II. OBSERVATION

Visual Observations: X No Flow __ Standing Water __ Flowing Water __ Illicit Discharge __ Solid Debris
Estimated Flow: __ Trickle (≤ 0.1 cfs) __ Light (0.1 – 0.5 cfs) __ Moderate (0.5 – 1 cfs) __ Heavy (e" 1.0 cfs)
Odor: X None __ Rotten Eggs __ Musty __ Sewage __ Fuel __ Other_____
Water Clarity: X Clear __ Cloudy __ Opaque
Floatables: X None __ Oil Sheen __ Other_____
Deposits/Stains: __ None __ Oily __ Sediments X Other: Visualable signs of stains on pavement area.
Biological: X None __ Bacterial/Algae __ Mosquito Larvae __ Other_____
Materials Observed: __ Paint __ Concrete __ Construction Debris __ Sewage __ Food Wastes
__ Medical Wastes __ Yard Wastes __ Wash waters __ Concrete cutting slurry/wash waters
__ Garbage_____ __ Building/sidewalk wash waters
__ Vehicle cleaning wash waters X Automotive fluids (antifreeze, fuel, motor oil, lubricants, etc.)
__ Industrial Wastes (solvents, metal, chemicals, corrosives, etc.) __ Other_____

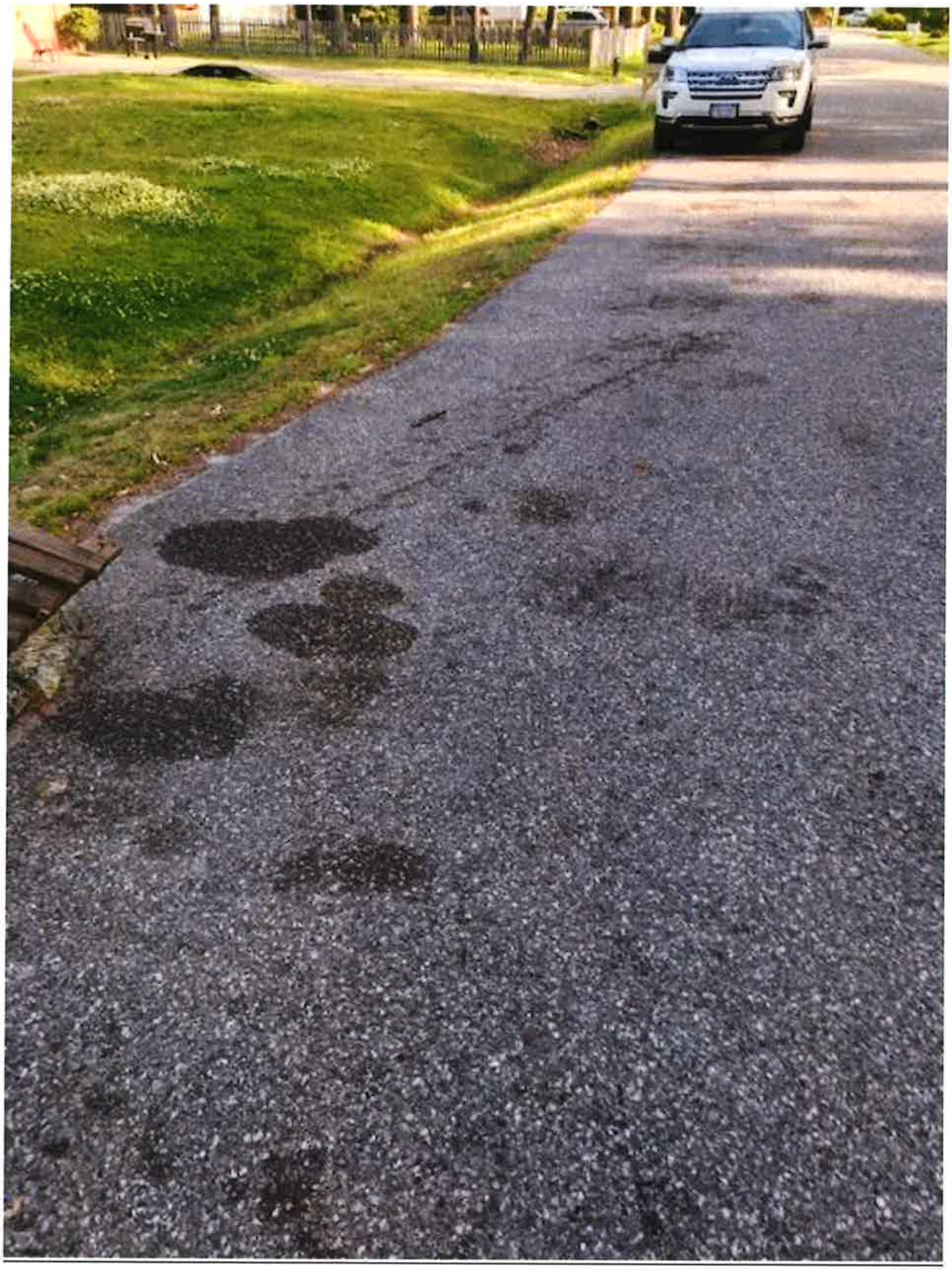
III. SAMPLING (Use appropriate chain of custody, sampling forms)

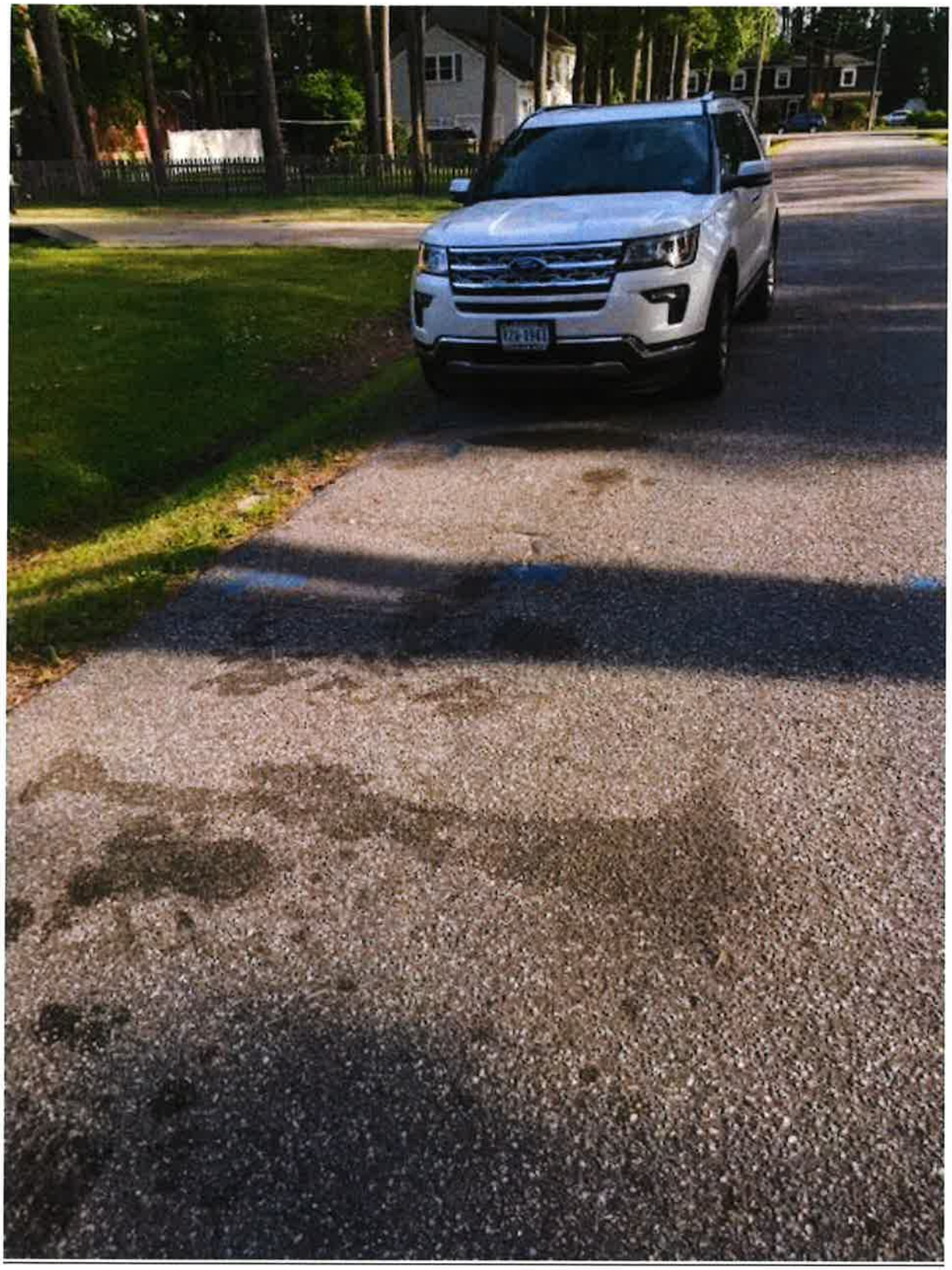
Sample # N/A
Analysis Requested: N/A
Field Analysis: pH: N/A
Temperature: N/A
Conductivity: N/A

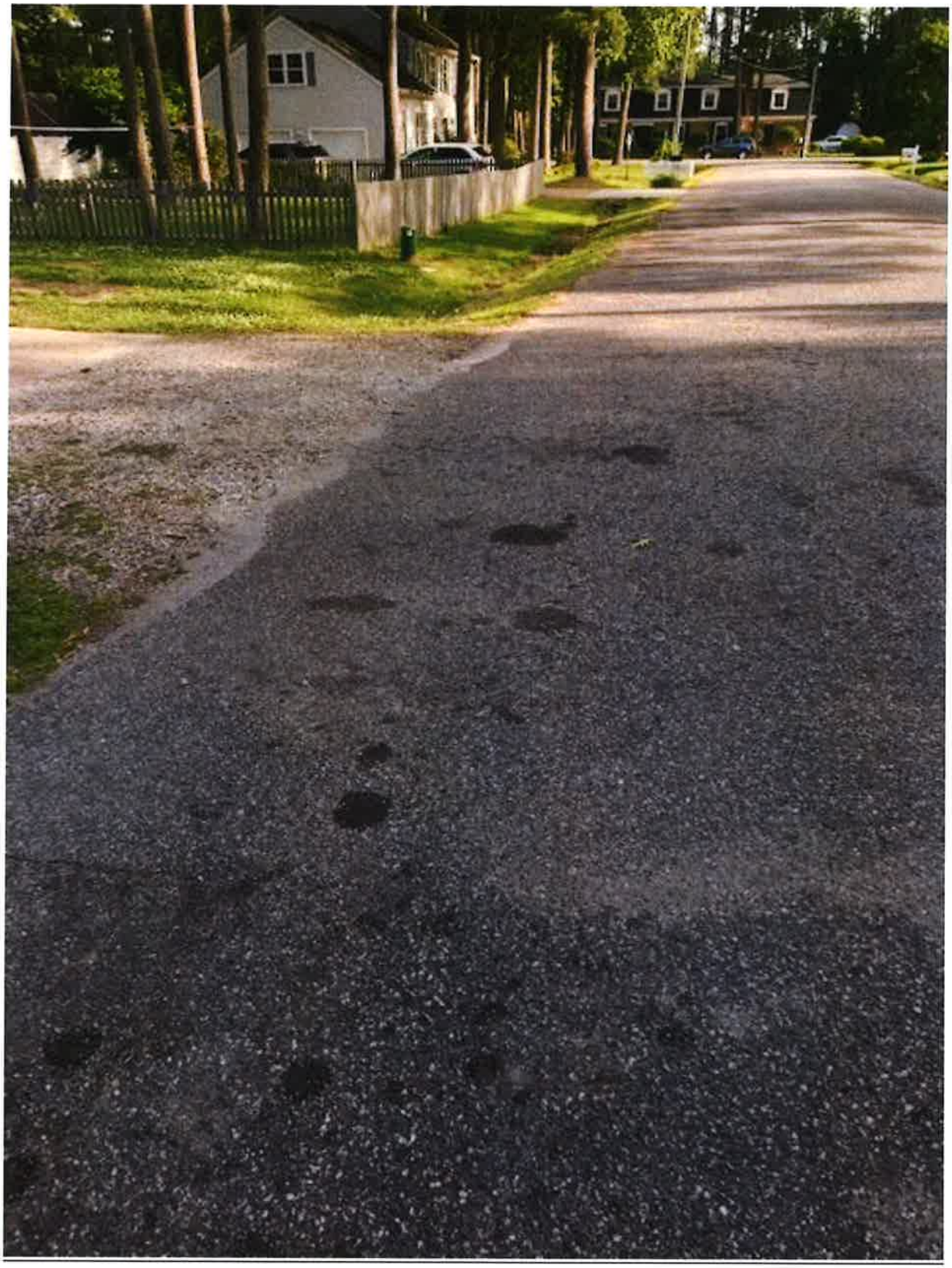
IV. COMMENTS

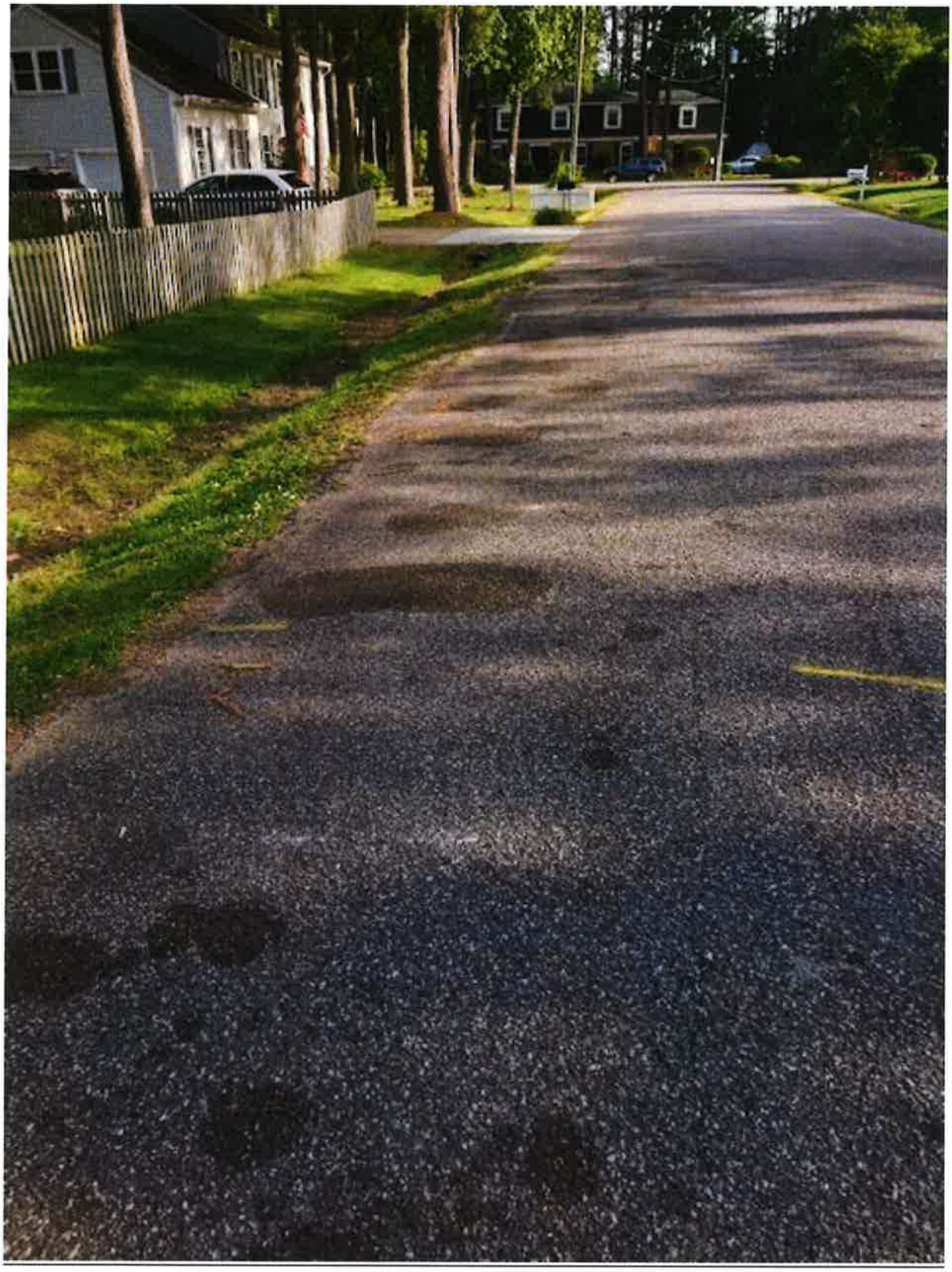
Received report from the Public Works Dept. regarding a citizen complaint about possible illicit discharge of commercial vehicles leaking what appeared to be oil or fuel onto the roadway area where they were parked. Upon visual inspection of the area in question I observed what appeared to be numerous stains ranging from small to large in size and they appeared to be from some type of oil/fuel. There were no signs of any oil/fuel within the roadside drainage ditch. It appeared that efforts were made to clean up the material on the roadway,

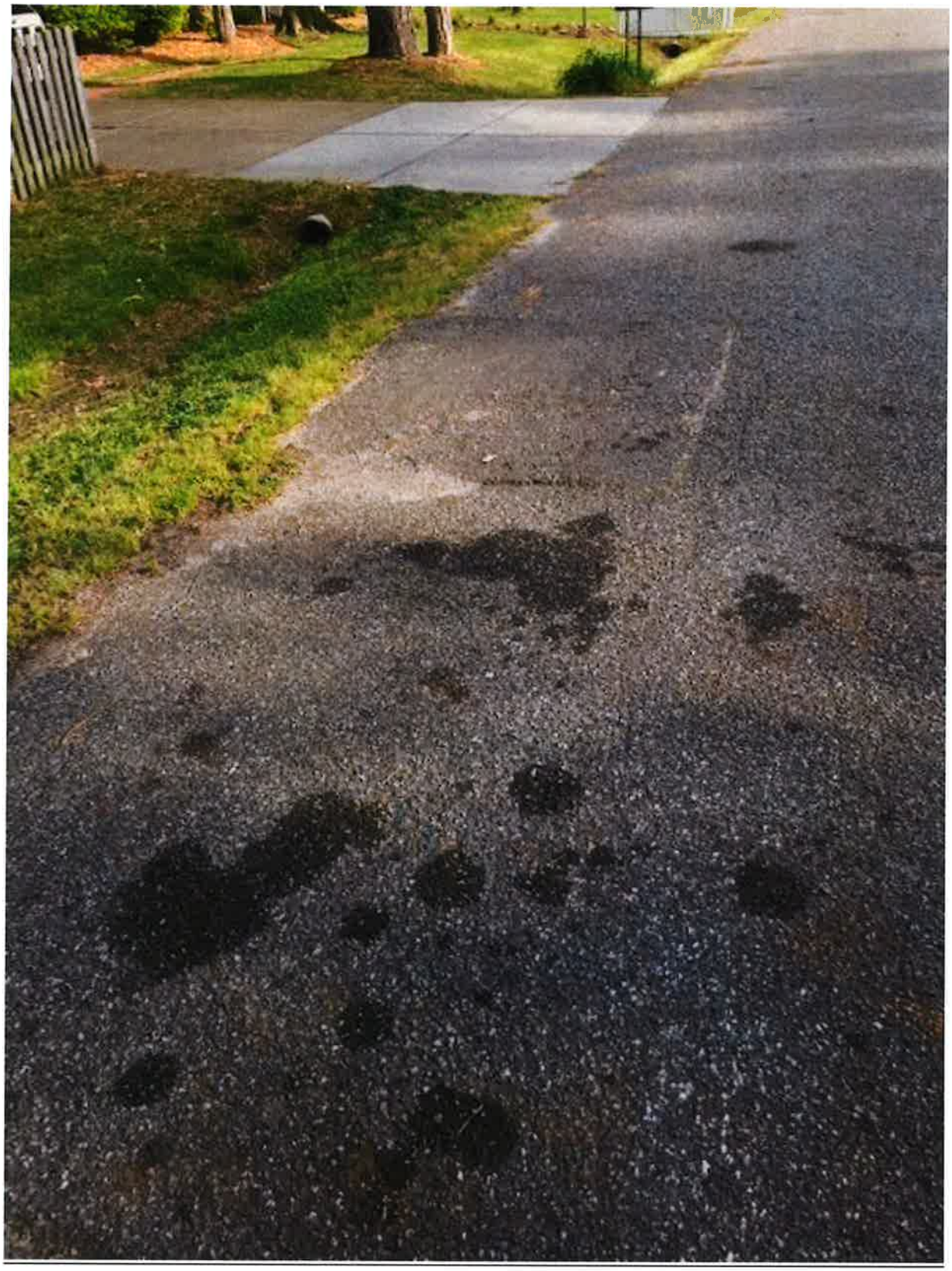
as I did not observe any heavy concentrations of oil/fuel on the roadway area. (See attached for reference.)











Oil and fluid leakage JUNE 2020

Mark Boesen

Reply all

Wed 6/3, 10:23 AM
Karen Holloway;
Ellen Roberts;
Bodina Wright;
Thomas Jones;
Garrett Feagans;
Sherry Coffey

Illicit Discharge Inspection Report - 102-106 Court DeAyllon 20-0603.pdf1 MB

Download

Karen, Ellen,

In response to the below email I went out this morning (6/3/20) to Court DeAyllon that is located off of Sir Ralph Lane within Laydon Way to investigate the complaint regarding possible illicit discharge (vehicles leaking fluid) onto the roadway. Upon arriving at the location I observed what appeared to be numerous stains ranging from small to large in size on the pavement of the roadway area located in-between 102 to 106 Court DeAyllon. The stains appeared to be some type of oil/fuel stains that may have leaked from vehicles or equipment...I did not observe any signs that the material had infiltrated into the roadside drainage ditch and it appeared that efforts were made to clean up the material from the pavement area. Also I didn't see any heavy concentration of oil/fuel on the roadway area, it looked like most of the material was cleaned up or had dispersed...I did not see vehicles or equipment on-site during my inspection of the area in question...However I did notice vehicles parked at 129 W. Laydon Way that appeared to match the description noted in the below email by the complainant. I make contact with the individuals that appeared to be associated with the vehicles at this address and informed them of the complaint we received and that I was investigating it, as well as informed them that they are responsible for properly cleaning up any leaks and spills of hazardous material. They indicated they had made efforts to clean up the leaks in the area in question...

I have attached a IDDE Inspection Report for the above along with aerial map of the location and photos that I took while I was on-site...If you should have any questions or concerns, please feel free to contact me...Thanks!

Mark G. Boesen, CCI, CSI, CEI, CTC
Public Works Manager/Construction Supervisor
City of Poquoson
500 City Hall Avenue
Poquoson, Virginia 23662

OFFICE (757) 868-5312
FAX (757) 868-3515

---

message/ drainage complaint at 259 browns neck road

Ellen Roberts

Fri 5/15, 11:01 AM

Karen: Please see below. Mrs. Whitehurst asked about putting in a berm (I don't think they will). I told her she should check with you before starting any earthwork to make sure that a permit/Ches Bay program permissions were taken care of.

Ellen W. Roberts, P.E.
City Engineer
City of Poquoson
500 City Hall Avenue
Poquoson, VA 23662
(757)868-3040
(757)868-3105 fax

Sherry Coffey

Mulch Being Dumped Onto Wythe Creek Road (Peninsula Hardwood Mulch): MAY 2020

Mark Boesen

Reply all

Fri 3/13, 11:13 AM

Sherry Coffey;

Thomas Jones;

Bradley Wilkins;
Aaron McDaniel;
Bodina Wright;
Karen Holloway;
Ellen Roberts

Action Items

Sherry,

Can you please call Peninsula Hardwood Mulch on Wythe Creek Road and tell them to insure that when they load mulch or any material onto trucks, that the material must be secured so that it does not dump or spill onto the roadway. We have had to send our street sweeper out there a few times to sweep up mulch that was dumped onto the Wythe Creek Road in front of their business. This is also a violation and they can be held responsible for allowing material to be dumped or spilled onto public roadways...I've stopped by there a long while back and told them this before and if it continues I may have to get Karen or Ellen involved and I really don't want to do that. Thanks!

Mark G. Boesen, CCI, CSI, CEI, CTC
Public Works Manager/Construction Supervisor
City of Poquoson
500 City Hall Avenue
Poquoson, Virginia 23662
OFFICE (757) 868-5312
FAX (757) 868-3515

Potable Water Line Break: December 2019

Ellen Roberts

Wed 12/4/2019, 9:22 AM

Thanks, Doug. That information really helps. Hope things calm down and stay that way for you through the holidays!

Ellen W. Roberts, P.E.
City Engineer

500 City Hall Avenue
Poquoson, VA 23662
(757)868-3025
Ellen.roberts@poquoson-va.gov
Lutterloh, Lee D. <LLutterloh@nnva.gov>

Reply all
Wed 12/4/2019, 9:07 AM
Ellen Roberts;
Mark Boesen;
Karen Holloway;
Sherry Coffey;
Thomas Jones;
Bodina Wright;
Aaron McDaniel;
Garrett Feagans;
Dannan OConnell

CAUTION: This email is from a sender outside of City of Poquoson. Use discretion when opening attachments, selecting links, and responding to information requests..

Dechlorination tablets were inserted in the silt bag on this project.

Doug

L. Douglas Lutterloh
Distribution Superintendent
Newport News Waterworks
LHMOC- 757-234-4882
LLutterloh@nnva.gov

Ellen Roberts

Mon 12/2/2019, 3:02 PM

There is only one new thing you may want to be aware of for potable water discharges: Our stormwater permits call for the water to be dechlorinated prior to discharge into the drainage system. Newport News Waterworks should be aware of this requirement, and I'm not sure it really holds up when there is an emergency line repair. When the opportunity is there, the water should run over grass rather than straight into the system. Obviously, in this case it was discharged into a grass lined ditch....

Poquoson Waterline Break

Mark Boesen

Reply all
Tue 12/3/2019, 10:31 AM
Karen Holloway;
Ellen Roberts;
Garrett Feagans;
Dannan OConnell;
Sherry Coffey;
Thomas Jones;
Bodina Wright;
LLutterloh@nnva.gov

Karen,

Please see below email transmissions regarding Newport News Waterworks and residents on Freemoor Drive...Apparently there is a resident who is indicating that sediment from the waterline break that happened on Emmaus Road infiltrated into the canal at the private boat ramp on Freemoor Drive. Thanks!

Mark G. Boesen, CCI, CSI, CEI, CTC
Public Works Manager/Construction Supervisor
City of Poquoson
500 City Hall Avenue
Poquoson, Virginia 23662
OFFICE (757) 868-5312
FAX (757) 868-3515

From: Lutterloh, Lee D. [mailto:LLutterloh@nnva.gov]
Sent: Tuesday, December 3, 2019 9:27 AM
To: Mark Boesen
Subject: FW: Poquoson Waterline Break

CAUTION: This email is from a sender outside of City of Poquoson. Use discretion when opening attachments, selecting links, and responding to information requests..

Mark Boesen

Reply all

Mon 12/2/2019, 2:17 PM

Karen Holloway;
Sherry Coffey;
Ellen Roberts;
Thomas Jones;
Bodina Wright;
Aaron McDaniel;
Garrett Feagans;
LLutterloh@nnva.gov

Karen,

Just in case you receive or have received a complaint from a resident or residents regarding sediment and/or contaminated material washing from the repair work Newport News Waterworks completed on their waterline main that is located on Emmaus Road. The repair work was located in-between 126 and 128 Emmaus Road and consisted of repairing a waterline main that had ruptured and began pushing water up through the pavement and along the edge of the pavement. Most of the sediment from this rupture was deposited into the roadside drainage ditch located in front of 126 Emmaus Road. A small amount may have crossed under the roadway via culvert pipeline and into the outfall drainage ditch that is located behind the houses along Freemoor Drive. I was contacted by NNWW in an effort to assist them with insuring that they cleaned/removed the sediment that was caused by the waterline main rupture. I have sent my Supervisor in charge of the outfall drainage ditches to inspect the area in question and he has reported to me that he did not find any sediment or contamination within the outfall drainage ditch. Please see attached photos below for reference...To add all sediment along the roadside drainage ditch has been cleaned/removed from this area, as well and no additional clean-up efforts are need by NNWW. If you should have any questions or concerns, please feel free to contact my office. Thanks!

Mark G. Boesen, CCI, CSI, CEI, CTC
Public Works Manager/Construction Supervisor
City of Poquoson
500 City Hall Avenue
Poquoson, Virginia 23662
OFFICE (757) 868-5312

FAX (757) 868-3515

Mark Boesen

Reply all

Mon 11/4/2019, 11:18 AM
Karen Holloway;
Ellen Roberts;
Sherry Coffey;
Thomas Jones;
Bodina Wright

Illicit Discharge Inspection Report - 928 Poquoson Avenue 19-1104.pdf1 MB

Download

Karen,

As requested I went to 928 Poquoson Avenue to inspect for possible illicit discharge...Please see attached inspection report with the results of my inspection at the address in question...I recommend a letter of violation be issued to the property owner...See below for property owner information:

Joel R. Fortune
P.O. Box 2193
Poquoson, VA, 23662

Mark G. Boesen, CCI, CSI, CEI, CTC
Public Works Manager/Construction Supervisor
City of Poquoson
500 City Hall Avenue
Poquoson, Virginia 23662
OFFICE (757) 868-5312
FAX (757) 868-3515

NFIRS-1 Basic

A

FDID	State	Month	Day	Year	Station	Number	Exposure
73500	VA	05	28	2020	Station 1 (PFDSta1)	PF-2020-0000648	0

B Location Type

Census tract: 3403.00

- [ ] Street Address
- [ ] Intersection
- [ ] In Front Of
- [ ] Rear Of
- [x] Adjacent To
- [ ] Directions
- [ ] US National Grid

Number	Prefix	Street or Highway	Street Type	Suffix
386		MESSICK	RD-Road	

Apt./Suite/Room	City	State	Zip Code
	POQUOSON	VA	23662

Cross Street

C Incident Type

411-Gasoline or other flammable liquid spill

D Aid Given Or Received

- [ ] 1 Mutual Aid Received
- [ ] 2 Auto. Aid Received
- [ ] 3 Mutual Aid Given
- [ ] 4 Auto. Aid Given
- [ ] 5 Other Aid Given
- [x] None

Their FDID | Their State

Their Incident Number

E1 Dates and Times

Alarm	05	28	2020	16:58
Arrival	05	28	2020	16:58
Controlled				
Last Unit Cleared	05	29	2020	01:37

E2 Shifts and Alarms

Shift or Platoon	Alarms	District
C		1

E3 Special Studies

ID#	Value

F Actions Taken

86-Investigate

Primary Action Taken

84-Refer to proper authority

Additional Action Taken

G1 Resources

☑ Apparatus or Personnel Module is used.

	Apparatus	Personnel
Suppression	1	2
EMS	0	0
Other	1	1

☐ Resource counts include aid received resources.

G2 Estimated Dollar Losses and Values

Losses: Required for all fires if known. Optional for all non-fires. None

Property: $ ☑

Contents: $ ☑

Pre-Incident Values: Optional None

Property: $ ☑

Contents: $ ☑

Completed Modules

- ☐ 2 - Fire
- ☐ 3 - Structure Fire
- ☐ 4 - Civilian Fire Cas.
- ☐ 5 - Fire Service Cas.
- ☐ 6 - EMS
- ☐ 7 - HazMat
- ☐ 8 - Wildland Fire
- ☐ 9 - Apparatus
- ☐ 10 - Personnel
- ☐ 11 - Arson

H1 Casualties ☑ None

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

Required for Confined Fires

- ☐ 1 - Detector Alerted Occupants
- ☐ 2 - Detector Did Not Alert Them
- ☐ 3 - Unknown

H3 Hazardous Materials Release

- ☐ 1 - Natural Gas
- ☐ 2 - Propane Gas
- ☐ 3 - Gasoline
- ☑ 4 - Kerosene
- ☐ 5 - Diesel Fuel / Fuel Oil
- ☐ 6 - Household Solvents
- ☐ 7 - Motor Oil
- ☐ 8 - Paint
- ☐ 0 - Other
- ☐ None

I Mixed Use Property

- ☐ Not Mixed
- ☐ 10 - Assembly Use
- ☐ 20 - Education Use
- ☐ 33 - Medical Use
- ☐ 40 - Residential Use
- ☐ 51 - Row Of Stores
- ☐ 53 - Enclosed Mall
- ☐ 58 - Business and Residential
- ☐ 59 - Office Use
- ☐ 60 - Industrial Use
- ☐ 63 - Military Use
- ☐ 65 - Farm Use
- ☐ 00 - Other Mixed Use

J Property Use ☐ None

Structures

- 131 ☐ Church, Place of Worship
- 161 ☐ Restaurant or Cafeteria
- 162 ☐ Bar/Tavern or Nightclub
- 213 ☐ Elementary School, Kindegarten
- 215 ☐ High School, Junior High
- 241 ☐ College, Adult Education
- 311 ☐ Nursing Home
- 331 ☐ Hospital
- 341 ☐ Clinic, Clinic-Type Infirmary
- 342 ☐ Doctor/Dentist Office
- 361 ☐ Prison or Jail, Not Juvenile
- 419 ☐ 1- or 2-Family Dwelling
- 429 ☐ MultiFamily Dwelling
- 439 ☐ Rooming/Boarding House
- 449 ☐ Commerical Hotel or Motel
- 459 ☐ Residential, Board and Care
- 464 ☐ Dormitory/Barracks
- 519 ☐ Food and Beverage Sales
- 539 ☐ Household Goods, Sales, Repairs
- 571 ☐ Gas or Service Station
- 579 ☐ Motor Vehicle/Boat Sales/Repairs
- 599 ☐ Business Office
- 615 ☐ Electric-Generating Plant
- 629 ☐ Laboratory/Science Laboratory
- 700 ☐ Manufacturing Plant
- 819 ☐ Livestock/Poultry Storage (Barn)
- 882 ☐ Non-Residential Parking Garage
- 891 ☐ Warehouse

Outside

- 124 ☐ Playground or Park
- 655 ☐ Crops or Orchard
- 669 ☐ Forest (Timberland)
- 807 ☐ Outdoor Storage Area
- 919 ☐ Dump or Sanitary Landfill
- 931 ☐ Open Land or Field
- 936 ☐ Vacant Lot
- 938 ☐ Graded/Cared for Plot of Land
- 946 ☐ Lake, River, Stream
- 951 ☐ Railroad Right-of-Way
- 960 ☐ Other Street
- 961 ☐ Highway/Divided Highway
- 962 ☑ Residential Street/Driveway
- 981 ☐ Construction Site
- 984 ☐ Industrial Plant Yard

Property Use:

Description

Look up and enter a Property Use code and description only if you have NOT checked a Property Use box.

K1

Person/Entity Involved

Local Option	Person/Entity Type	Business Name (if applicable)	Phone Number
	Tenant		

Mr., Ms., Mrs.	First Name	MI	Last Name	Suffix
MR-Mr.	Mark		Winder	

Number	Prefix	Street or Highway	Street Type	Suffix

Post Office Box	Apt./Suite/Room	City

State	Zip Code

K2

Owner

Local Option	Person/Entity Type	Business Name (if applicable)	Phone Number
	Owner		7578765984

Mr., Ms., Mrs.	First Name	MI	Last Name	Suffix
MR-Mr.	Sonny		Hanson	

Number	Prefix	Street or Highway	Street Type	Suffix

Post Office Box	Apt./Suite/Room	City

State	Zip Code

L **Remarks:**

Staff was alerted to a possible oil spill in the area of messick point on land by a passing citizen that came to the fire station. Battalion 1 responded to the area to investigate. upon arriving I noticed a strong smell of Diesel/Fuel oil in the area. I then observed a large puddle of dark petroleum based product on the edge of the roadway at a drainage pipe that connects to the tidal marsh. I immediately deployed a section of absorbent boom to prevent any further run off into the marsh and requested an engine response to assist with manpower and and additional booming. VDEM haz-mat officer Todd Cannon was contacted via cell phone for consultation. He stated that he would respond out and would notify the Virginia EOC also. I continued to survey the area for additional spilled product until VDEM arrived. Upon VDEM's arrival we assisted with the deployment of additional boom and absorbent mats. Myeslf and Mr. Cannon spoke with Mr. Winder who was the individual that spilled the product. Mr. Winder stated that during the loading of a home heating oil tank onto a trailer that some product has spilled from the tank. He initially stated it was a very minimal amount but later said there was possibly as much as 40 gallons in the tank that spilled. Mr. Winder also stated that they were trying to clean it up with Dawn dish soap when it started to downpour rain. We did have a few inches of rain in the area in a very short period of time that contributed to the spread of product. Mr. Ca...

Full primary narrative can be found in NFIRS 1S - Supplemental

M **Authorization**

Officer In Charge ID	Signature	Position or Rank	Assignment	Date
486	Breeden, Joseph	Battalion Chief/Intermediate		05/29/2020

Member Making Report ID	Signature	Position or Rank	Assignment	Date
486	Breeden, Joseph	Battalion Chief/Intermediate		05/29/2020

NFIRS-9 Apparatus or Resources

A

FDID	State	Month	Day	Year	Station	Number	Exposure
73500	VA	05	28	2020	Station 1 (PFDSta1)	PF-2020-0000648	0

B Apparatus/Resource	Dates/Times			Sent	Number of People	Apparatus Use	Actions Taken
ID: PBAT1 Type: 92-Chief officer car	Dispatch: Arrival: Clear:	05/28/2020 05/28/2020 05/29/2020	16:58 16:58 01:37	☐ Sent	1	☐ Suppression ☐ EMS ☑ Other	86-Investigate 81-Incident command
ID: PE1 Type: 11-Engine	Dispatch: Arrival: Clear:	05/28/2020 05/28/2020 05/28/2020	17:25 17:47 22:59	☐ Sent	2	☑ Suppression ☐ EMS ☐ Other	

NFIRS-10 Personnel

A

FDID	State	Month	Day	Year	Station	Number	Exposure
73500	VA	05	28	2020	Station 1 (PFDSta1)	PF-2020-0000648	0

B Apparatus/Resource	Dates/Times		Sent	Number of People	Apparatus Use	Actions Taken
ID: PBAT1 Type: 92-Chief officer car	Dispatch: 05/28/2020 16:58 Arrival: 05/28/2020 16:58 Clear: 05/29/2020 01:37		☐ Sent	1	☐ Suppression ☐ EMS ☑ Other	86-Investigate 81-Incident command

Personnel ID	Name	Rank	Role	Attend	Actions Taken
486	Breeden, Joseph	Battalion Chief/Intermediate		☐	86-Investigate 81-Incident command

ID: PE1 Type: 11-Engine	Dispatch: 05/28/2020 17:25 Arrival: 05/28/2020 17:47 Clear: 05/28/2020 22:59	☐ Sent	2	☑ Suppression ☐ EMS ☐ Other	☐

Personnel ID	Name	Rank	Role	Attend	Actions Taken
696	Katona, Steven	Firefighter/Intermediate		☐	☐
93	McFarland, Duane	Master Firefighter/Paramedic		☐	☐

City of Poquoson Sanitary Sewer System Overflows, Training and Enhancements

SSO reports – None this year

Training – NASSCO Training (National Association of Sewer Service Companies)

- PACP (Pipeline Assessment Certification Program) (Jul 19)
- MACP (Manhole Assessment Certification Program) (Jul 19)
- LACP (Lateral Assessment Certification Program) (Jul 19)

Autumn Fest at PRISM (Sep 19)
Confined Space Training video (Oct 19)
Grease Interceptor Training Course (Jan 20)
OSHA – 10 Training (Feb 20)
CDL (Commercial Driver License) Training (Feb & May 20)
CDL Road Test (May 20)

Work that prevents overflows:

Back-up Generators- allowing the Station to have back-up power during outages.
Sewer Line Flushing – cleans the line helping the flow, we have a Quarterly list (15 places in the City) and an Annual list (22 places in the City).
System Upgrades – safety, increase capacity, system reliability, reduction of maintenance, reduction in run times, replacement of older equipment
Sewer Main line & Sewer Lateral repairs

New Generators installed at: Pump Station 12 (Apr 20)
Pump Station 13 (Apr 20)

Replaced old broken Generators at: Pump Station 2C (Jun 20)
Pump Station 9 (Jun 20)

Generator Power Plug Install (Allowing us to take a portable generator out to the station, plug it in and run a pump to lower the holding tank level. This prevents overflows and the need for pump and hauling):
18 Grinder Pump Stations on North Lawson (Sep 19)
Pump Station 16 (Sep 19)
Pump Station 17 (Sep 19)

Sewer Line Flushing at: Pump Station 9 discharge line (Jul 19)
Pump Station 9 discharge line (Mar 20)
Pump Station 2G discharge line (Apr 20)
Pump Station 17 discharge line (Jun 20)
Quarterly flush list (Jul 19)
Quarterly flush list (Oct 19)
Quarterly flush list (Mar 20)
Annual flush list (Feb 20)

Transducer upgrade from Bubbler system: Pump Station 2F (Jul 19)
Pump Station 10B (Jul 19)
Pump Station 14 (Jul 19)
Pump Station 9 (Sep 19)

Replaced Transducers at:
Pump Station 10A (Jul 19)
Pump Station 5 (Nov 19)
Pump Station 17 (Nov 19)

New Pumps and Control Panels at: Pump Station 4 (Jun 20)

New Pumps at:
Pump Station 2A - Pump #2 (Feb 20)
Pump Station 17 - Pump #1 (May 20)

Major repairs at:
Pump Station 1, Replaced volutes on both pumps (Oct 19)
Pump Station 2, Replaced broken VFD's (Jan 20)
Pump Station 8, Installed new drive motors (Mar 20)
Pump Station 11, Installed new drive motors (Apr 20)
Pump Station 12, Installed new drive motors (Jun 20)

Replacement of Grinder pumps:
137 N. Lawson (Sep 19)
28 N. Lawson (Sep 19)
147 N. Lawson Pump #1 (22 Oct 19)
113 N. Lawson (Oct 19)
147 N. Lawson Pump #1 (28 Oct 19)
14 N. Lawson (Nov 19)
147 N. Lawson Pump #2 (Dec 19)
218 N. Lawson Pump #1 (10 May 20)
218 N. Lawson Pump #2 (14 May 20)

Cleanout cap repairs or relocation of cap so they are not hit or damaged, adding Cleanout boxes
20 Alphus St (Jul 19)
20A Alphus St (Jul 19)
3 Kirby St (Aug 19)
12 Evans Grove (Aug 19)
220 Ridge Rd (Aug 19)
1 Smith St (Aug 19)
125 Little Florida (Aug 19)
40 Bunting Rd (Oct 19)
65 Bunting Rd (Nov 19)
108 Messick Rd (Nov 19)
85 Lodge Rd (Nov 19)
37 Messick Rd (Dec 19)
33 Terrace Rd (Jan 20)
7 Glenmore (Feb 20)
9 Glenmore (Feb 20)
61 Messick (Feb 20)
69 Messick (Feb 20)
81 Messick (Feb 20)
17 Ridge Rd (Feb 20)
27 Hudgins (Apr 20)
75 Lodge Rd (Apr 20)
47 Pasture Rd (Apr 20)
65 Bunting Rd (Jun 20)

Lateral Install at:	41 River Rd (Nov 19) Elementary School (Dec 19) 100 North Lawson (Mar 20)
Lateral Repair at:	130 Emmaus (Aug 19) Dove Point, Repaired 4 broken laterals caps (Dec 19) 752 Yorktown Rd (Jan 20) 33 Terrace (Jan 20) 1250 Poquoson Ave (Mar 20) 51 Messick (Apr 20)
Lateral work after removing roots, New Cleanout box and Cleanout cap:	268 Little Florida (Dec 19) 102 Lodge Rd (Jan 20) 14 Hunts Neck (Jan 20) 120 Freemore Rd (May 20) 8 Evans Dr. (May 20) 256 Cedar Rd (Jun 20)
Main Line Repairs at:	238 Wythe Creek (Feb 20) 236 Wythe Creek (Mar 20)