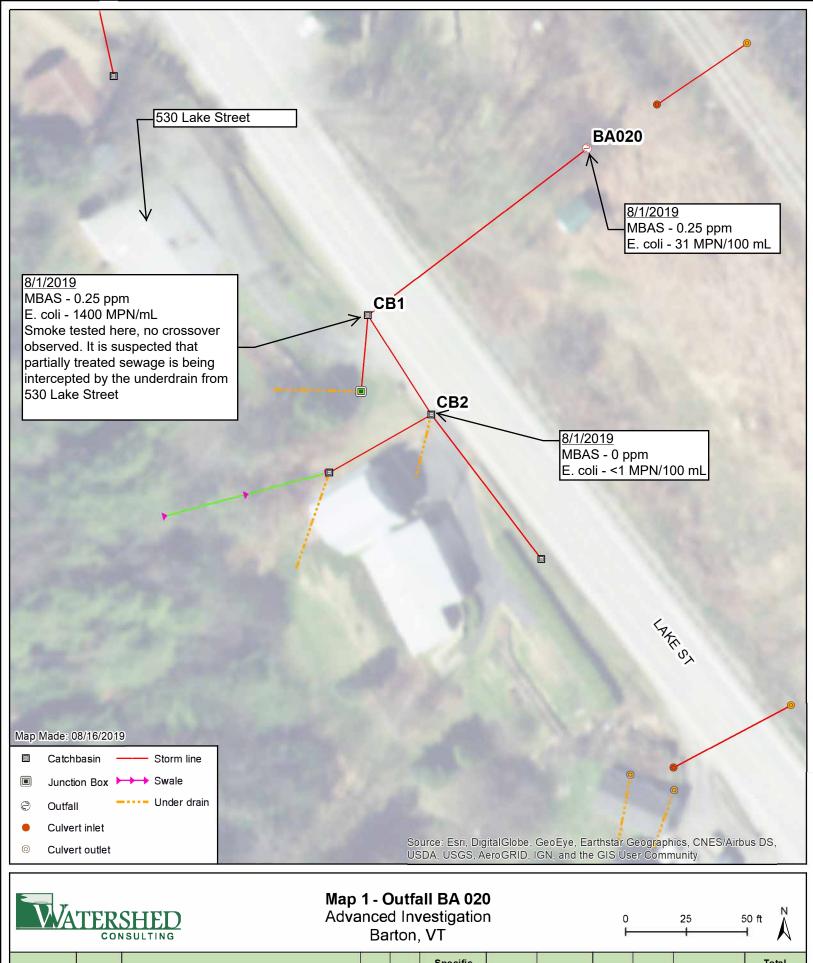
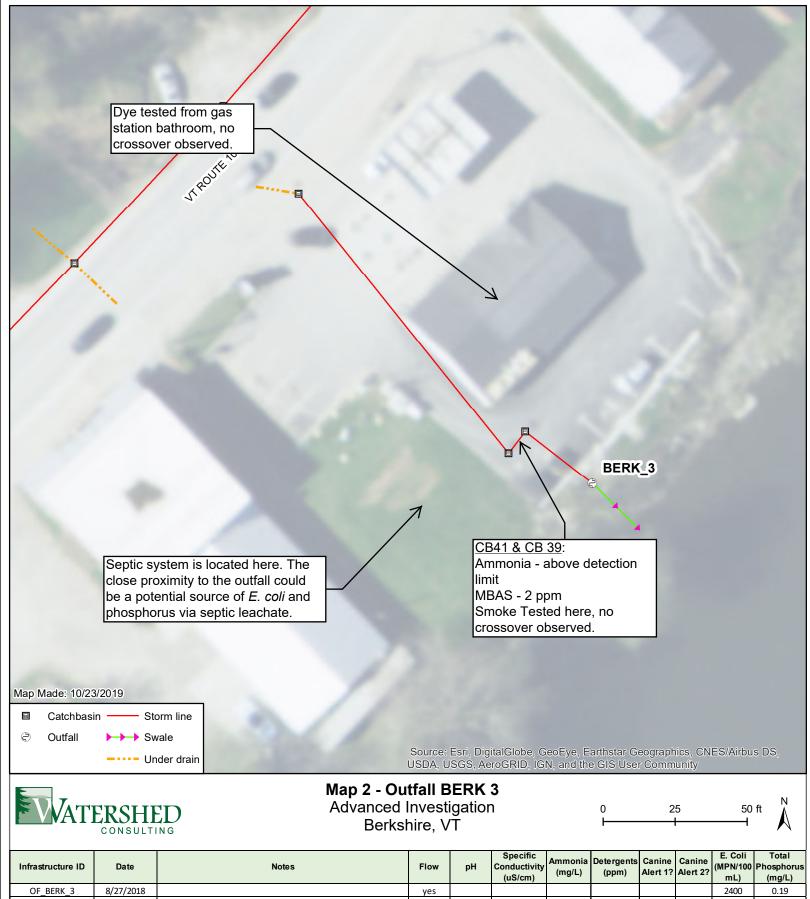
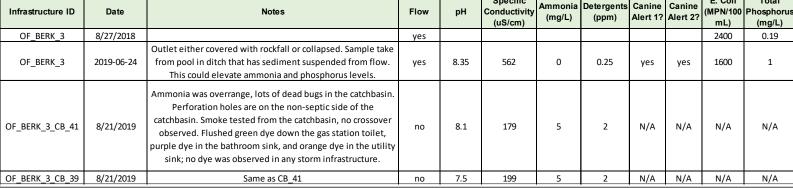
Appendix 3 - Advanced Investigation Maps

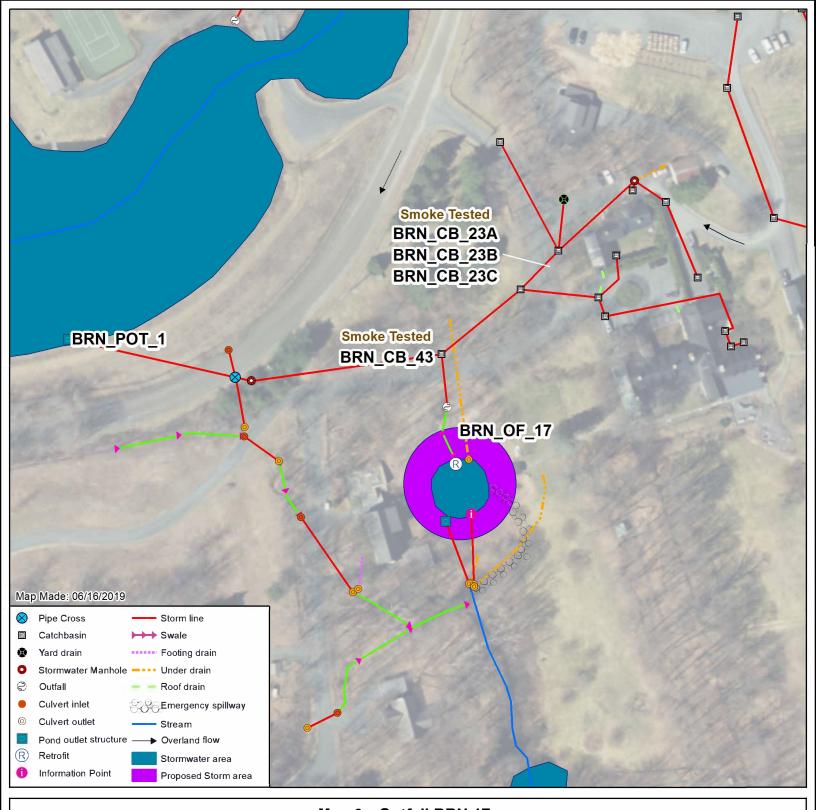
01/2020 Appendix 3







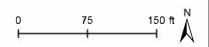




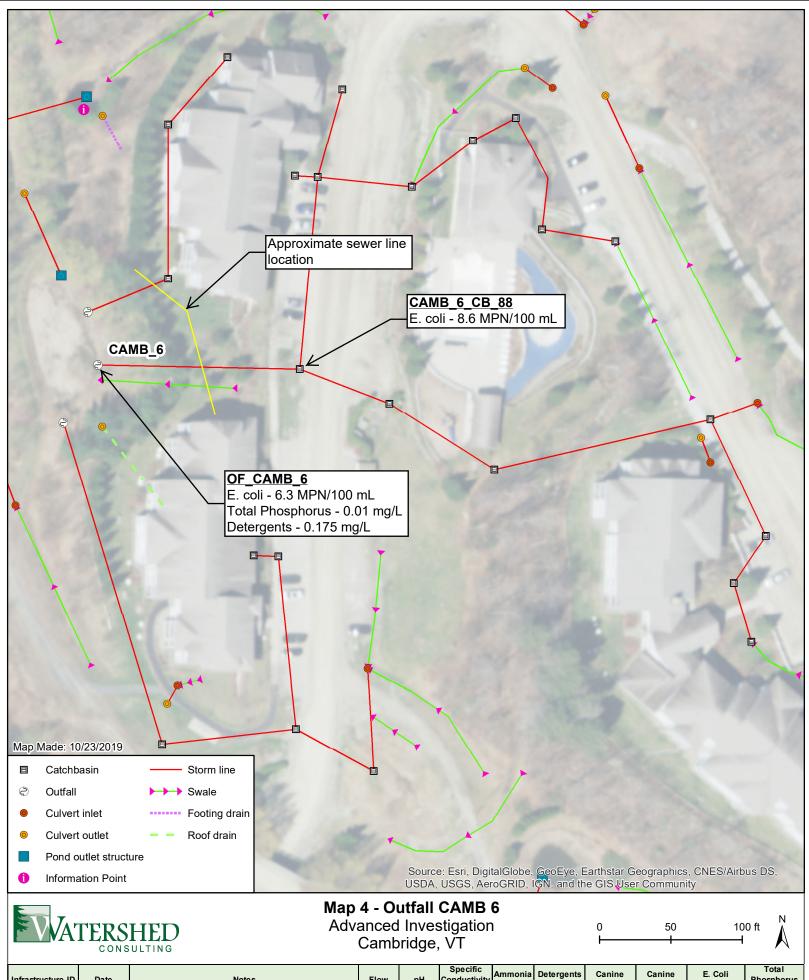


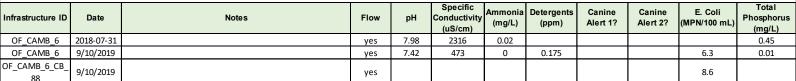
Map 3 - Outfall BRN 17 Advanced Investigation

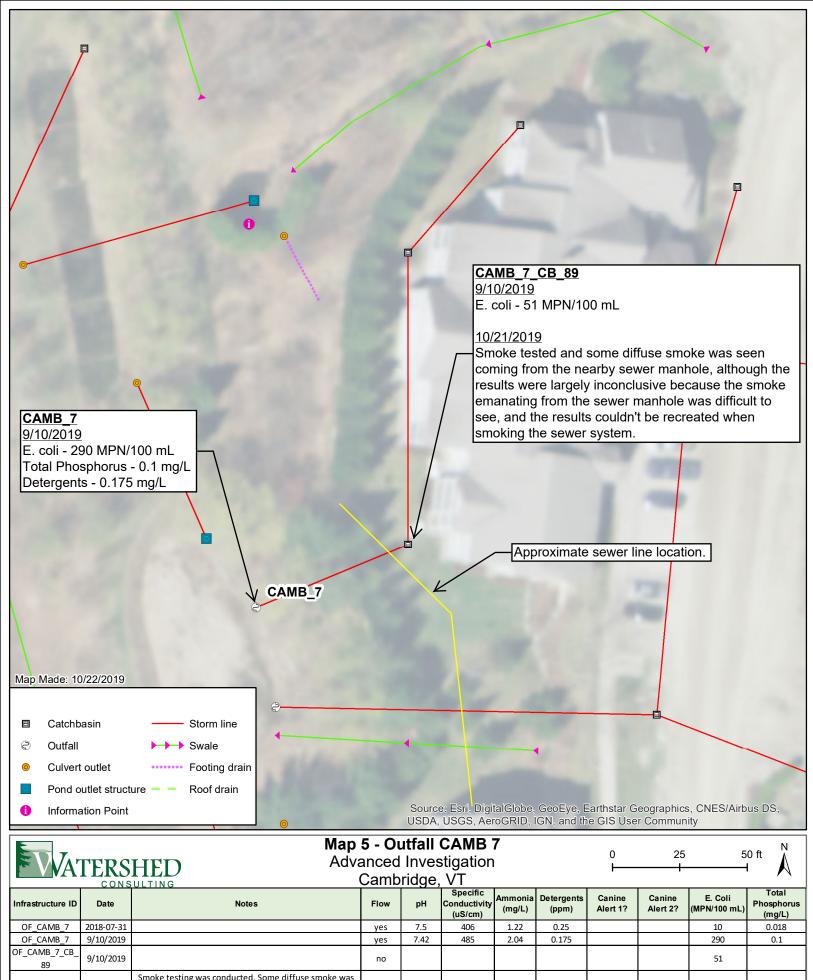
Advanced Investigation Barnard, VT



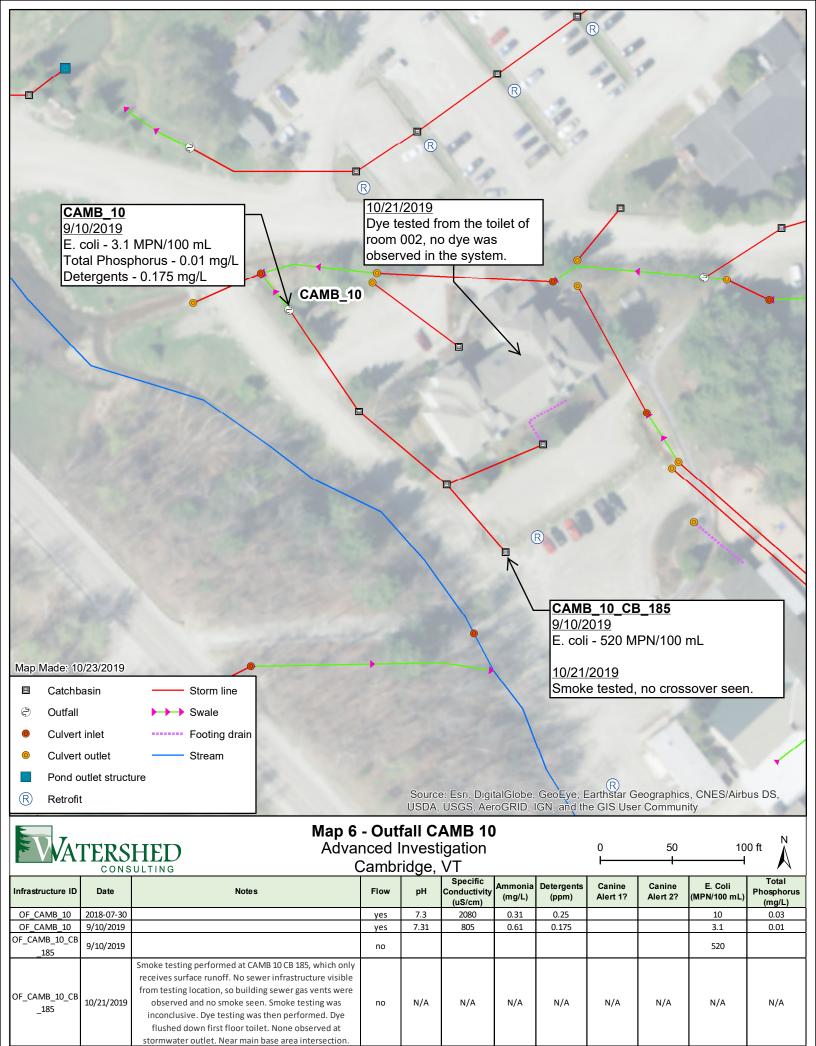
Infrastructure ID	Date	Notes	Flow	рН	Specific Conductivity (uS/cm)	Ammonia (mg/L)	Detergents (ppm)		E. Coli (MPN/100 mL)	Total Phosphorus (mg/L)
BRN_OF_17	04/25/16	No physical indicators present	Yes	8.06	445	0.05	trace			
BRN_OF_17	08/24/17	No physical indicators present	Yes	7.81	720	0.63	0.25			
BRN_OF_17	04/17/19	No physical indicators present	Yes	8.2	267	0.35	0		1	<.05
BRN_CB_23A	04/17/19	No physical indicators present	Yes	7.86	1217	0	0.25		<1.0	
BRN_CB_23B	04/17/19	No physical indicators present	Yes	8.32	693	0.05	0.25		<1.0	
BRN_CB_23C	04/17/19	No physical indicators present	Yes	8.02	729	0.25	0.25		<1.0	
BRN_POT_1	04/17/19	No physical indicators present	Yes	8.68	120	0.29	0		<1.0	
BRN_CB_43	04/17/19	No physical indicators present	Yes	8.32	265	0.15	0		<1.0	







illia sa actare 12	Date	140183	1100	pii	(uS/cm)	(mg/L)	(ppm)	Alert 1?	Alert 2?	(MPN/100 mL)	(mg/L)
OF_CAMB_7	2018-07-31		yes	7.5	406	1.22	0.25			10	0.018
OF_CAMB_7	9/10/2019		yes	7.42	485	2.04	0.175			290	0.1
OF_CAMB_7_CB_ 89	9/10/2019		no							51	
OF_CAMB_7_CB_ 89	10/21/2019	Smoke testing was conducted. Some diffuse smoke was seen coming from the nearby sewer manhole, although the results were largely inconclusive because the smoke emanating from the sewer manhole was difficult to see, and the results couldn't be recreated when smoking the sewer system.	no	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



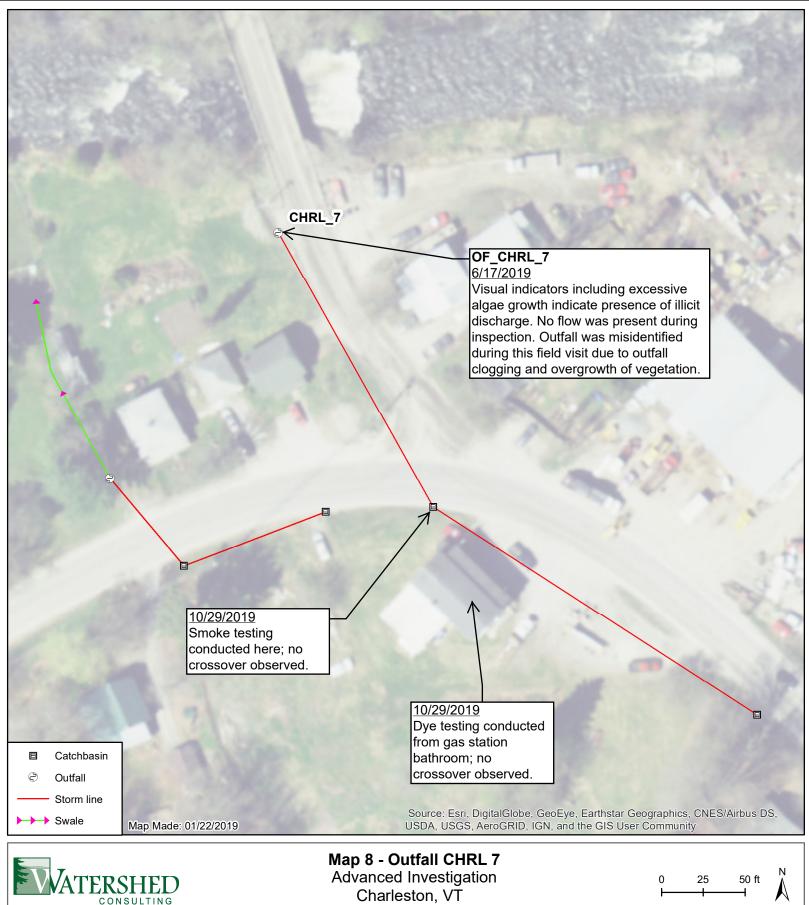




Charleston, VT

0	25	50 ft	7
1	1		- 4
	1	1	•

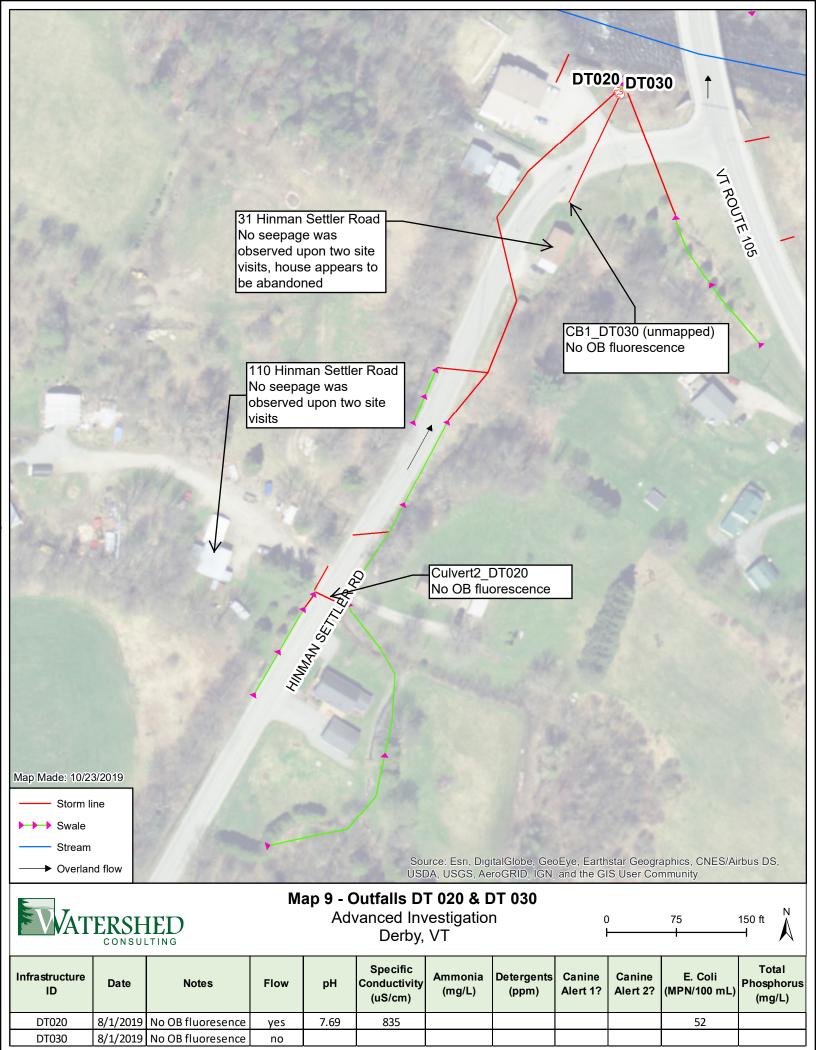
Infrastructure ID	Date	Notes	Flow	рН	Specific Conductivity (uS/cm)	Ammonia (mg/L)	Detergents (ppm)	Canine Alert?	E. Coli (MPN/100 mL)	Total Phosphorus (mg/L)
OF_CHRL_5	6/17/2019	Pool of orange algae filled water at pipe outfall. It seems like pollutant source is from garage/rubbish removal business adjacent to outfall.	yes	7.03	1024	3.46	0.175	Yes	4.1	0.44
OF_CHRL_5	10/29/2019	Smoke testing performed, no crossover observed. Outfall misidentified from last visit, because it was buried during last visit. Previously identified outfall is an underdrain for maintenance garage.	no	-	-	-	-	-	-	-

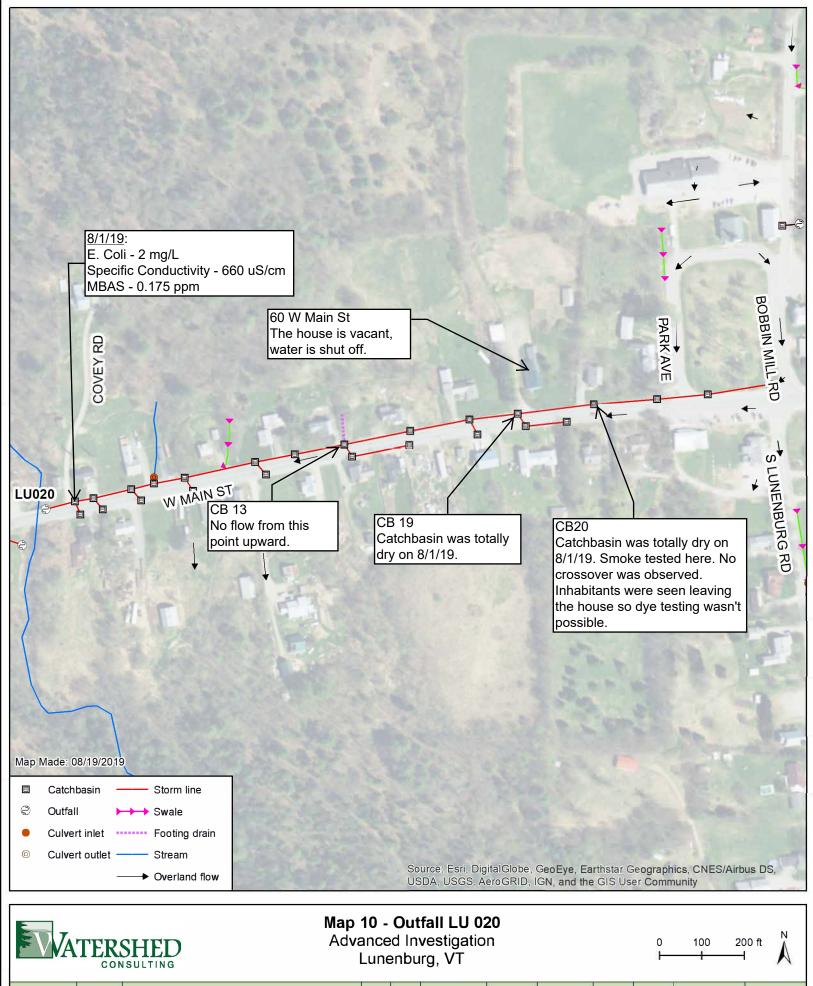


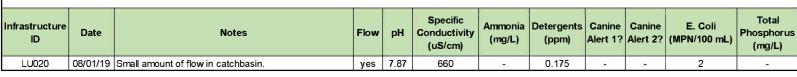


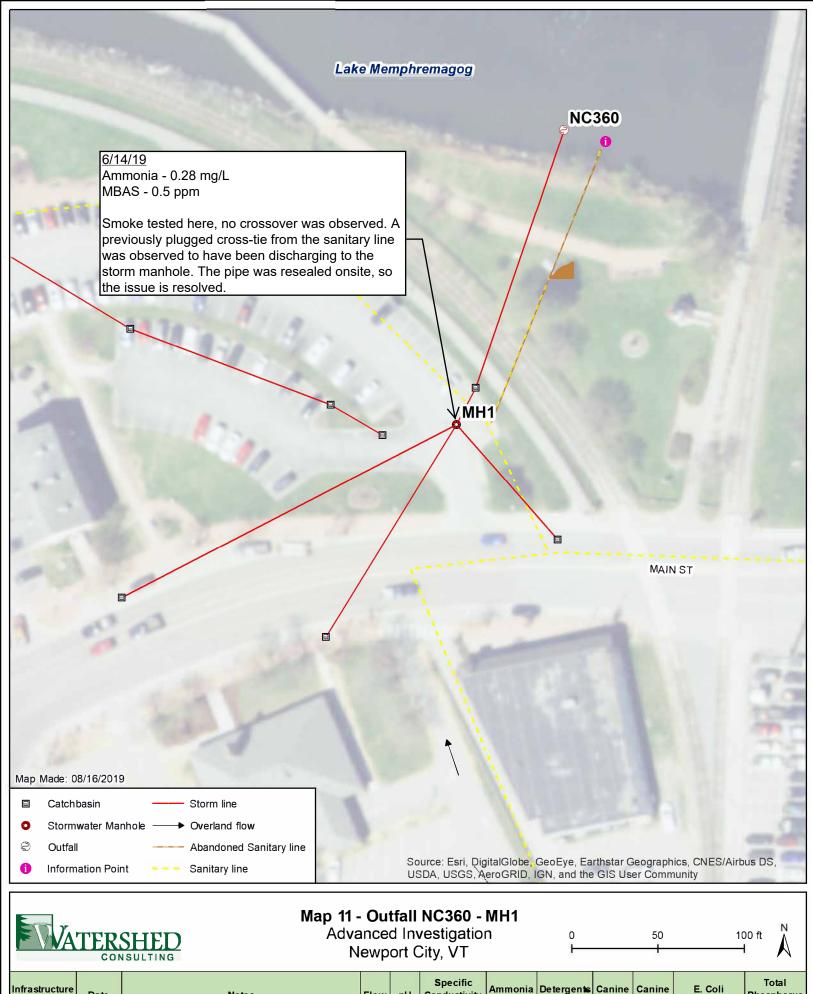
ft 🚡
" /

Infrastructure ID	Date	Notes	Flow	рН	Conductivity (uS/cm)	Ammonia (mg/L)	Detergents (ppm)		E. Coli (MPN/100 mL)	Phosphorus (mg/L)
OF_CHRL_7	6/17/2019	Lots of orange algal growth	no	-	-	-	-	-	-	-
OF_CHRL_7	10/29/2019	Outfall misidentified during last visit due to clogging and overgrowth of vegetation. Smoke testing performed from the immediate upsystem catchbasin, no crossover observed.	no	-	-	-	-	-	1	-

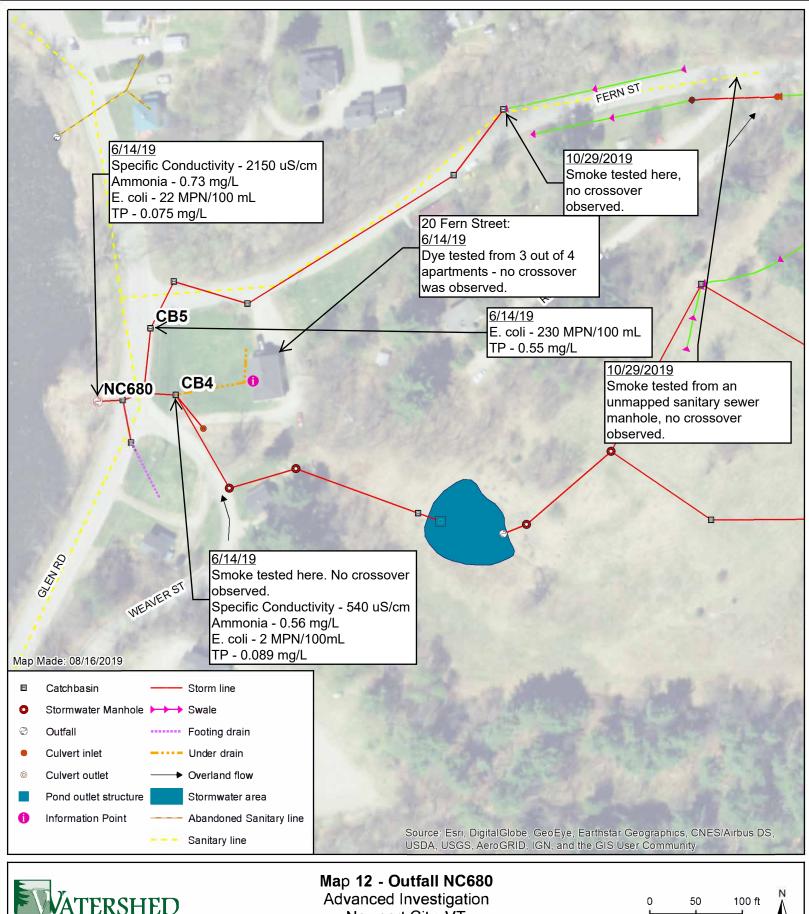






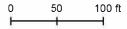






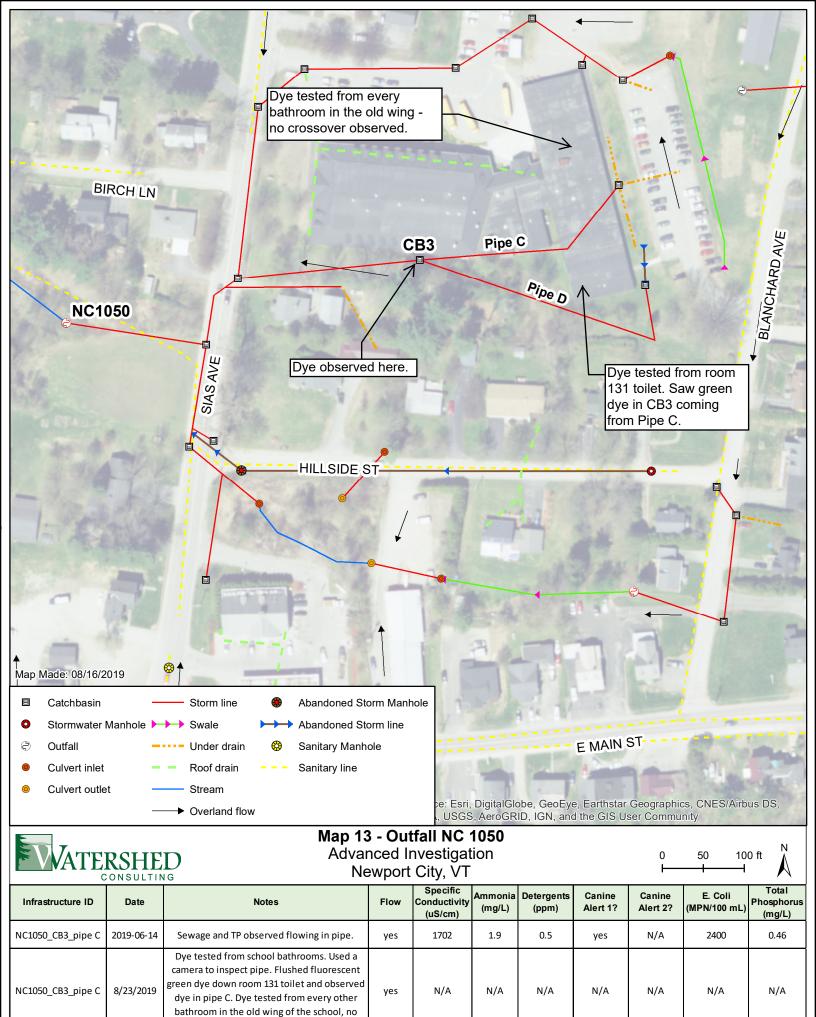


Newport City, VT



٨	
' 4	

Infrastructure ID	Date	Notes	Flow	рН	Specific Conductivity (uS/cm)	Ammonia (mg/L)	Detergents (ppm)			E. Coli (MPN/100 mL)	Total Phosphorus (mg/L)
NC 680	1 06/14/19	Oily residue on top of pool of water that the outfall discharges to.	yes	-	2150	0.73	0.5	no	no	22	0.075
NC 680 - CB4	06/14/19	Water in the catchbasin sump is orange and turbid.	yes	-	540	0.56	0.25	yes	yes	2	0.089
NC680 - CB5	06/14/19	Canine alert not definitive	yes	-	-)	-	-	yes	no	230	0.55



1307

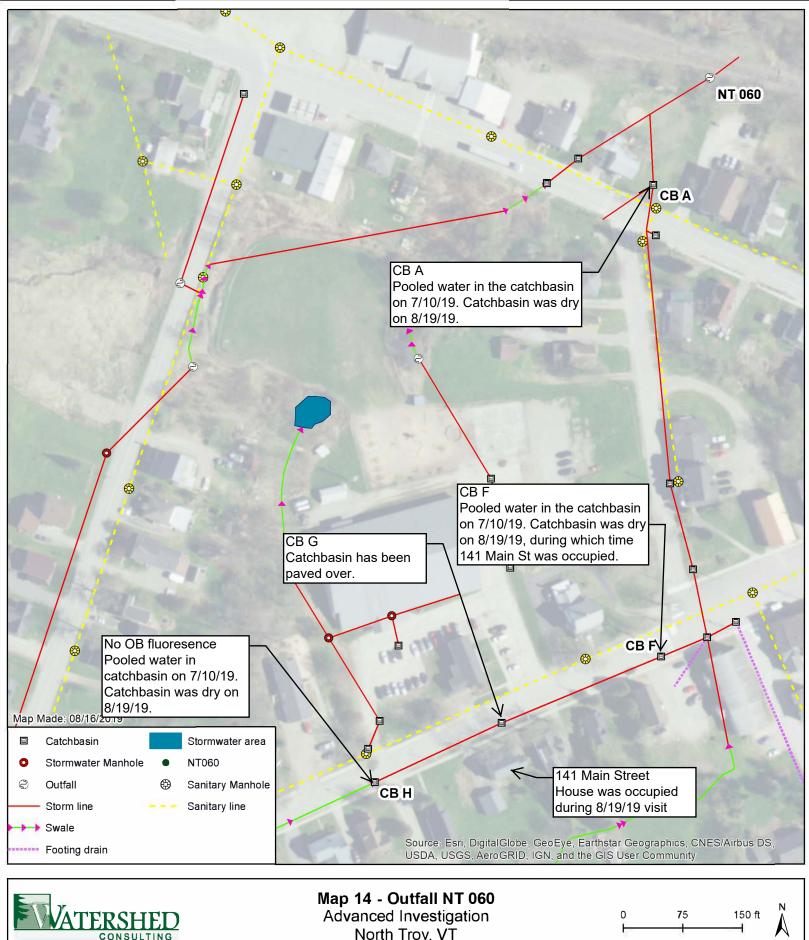
0.23

0.25

0.014

other connections were found.

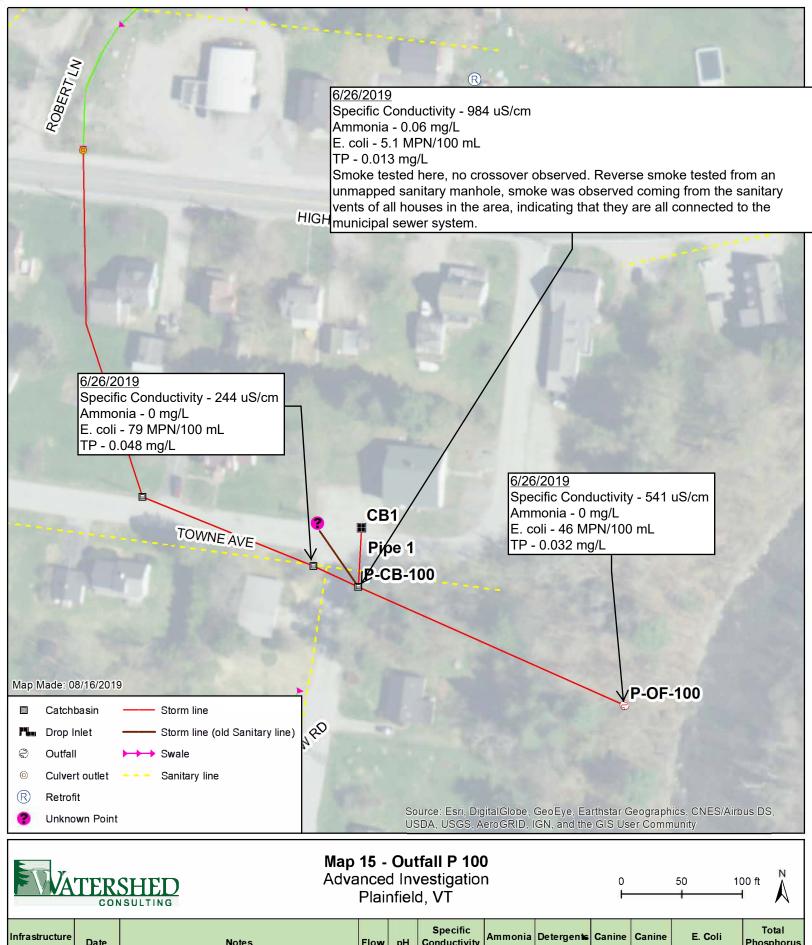
NC 1050_CB3_pipe D 2019-06-14



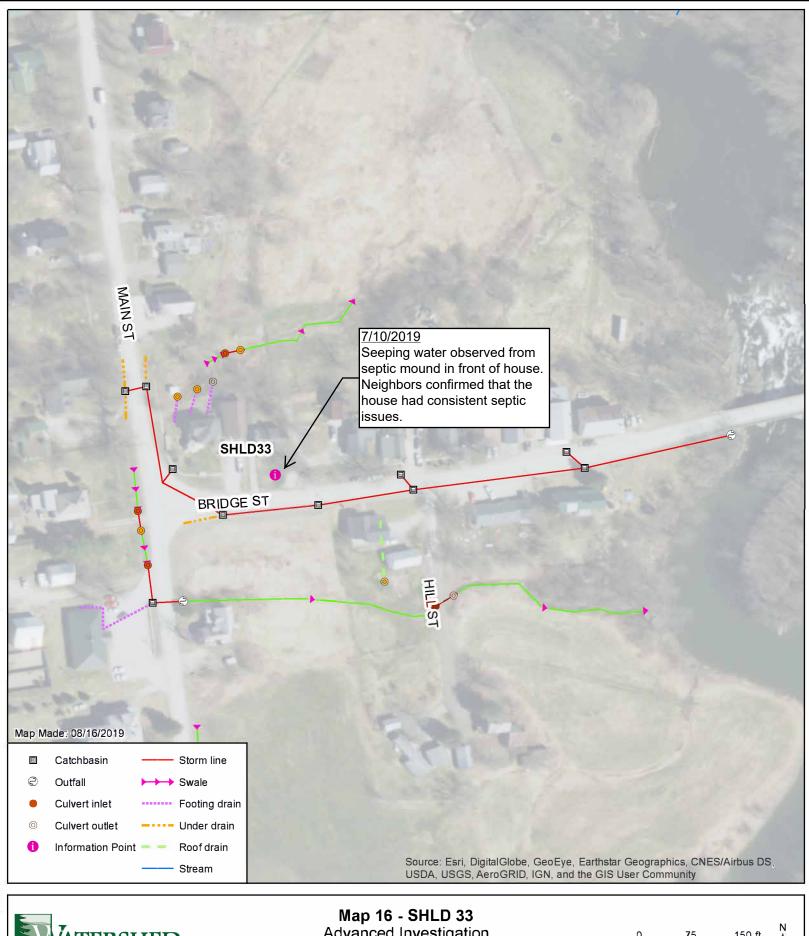


North Troy, VT

Infrastructure ID	Date	Notes	Flow	рН	Specific Conductivity (uS/cm)	Ammonia (mg/L)	Detergents (ppm)			E. Coli (MPN/100 mL)	Total Phosphorus (mg/L)
CBA-NT060	07/10/19	-	no	-	-	-	-	-	-	-	-
CB-F-NT060	07/10/19	-	no	-	-	-	-	-	-	=	0.089
CB-H-NT060	07/10/19	Catch basin is dry.	no	-	-	-	-	-	-	-	0.55

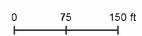


Infrastructure ID	Date	Notes	Flow	рН	Conductivity (uS/cm)	Ammonia (mg/L)	Detergents (ppm)			E. Coli (MPN/100 mL)	Phosphorus (mg/L)
P_OF_100	2019-06- 26	Canine alert not definitive.	yes	7.32	541	0	0.175	yes	no	46	0.032
P_CB_100 pipe_1	2019-06- 26	-	yes	7.14	983	0.06	0.175	yes	yes	5.1	0.013
P_OF_100_C B_2	2019-06- 26	Suds on top of water in catchbasin sump.	yes	7.66	244	0	0.175	yes	yes	79	0.048



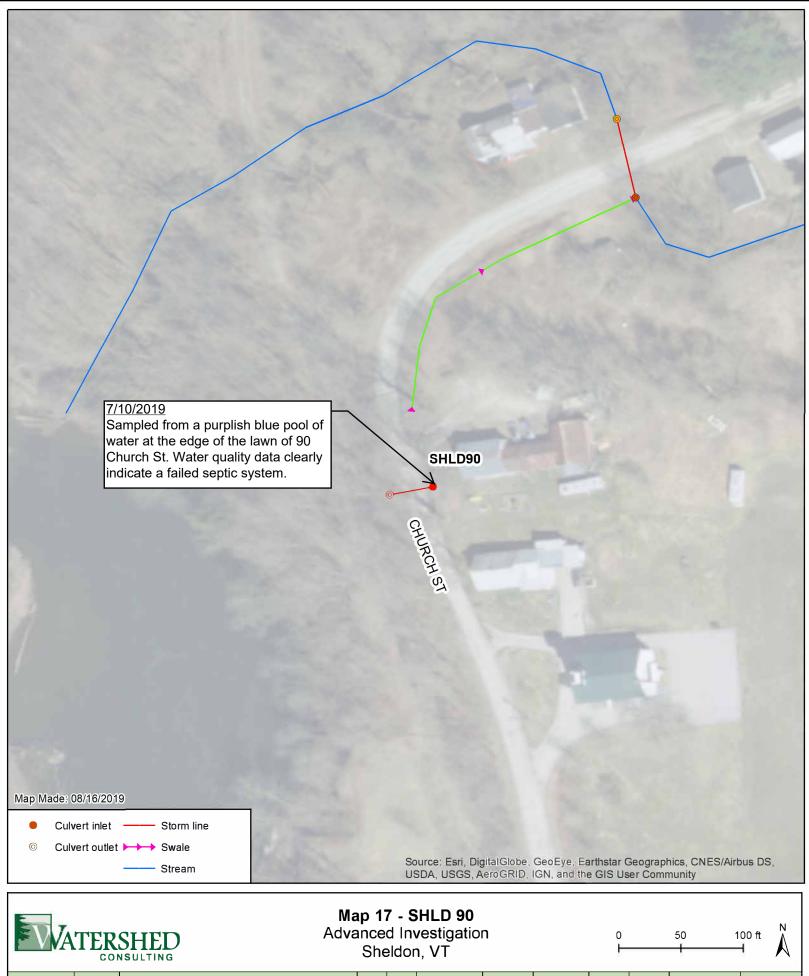


Map 16 - SHLD 33 Advanced Investigation Sheldon, VT

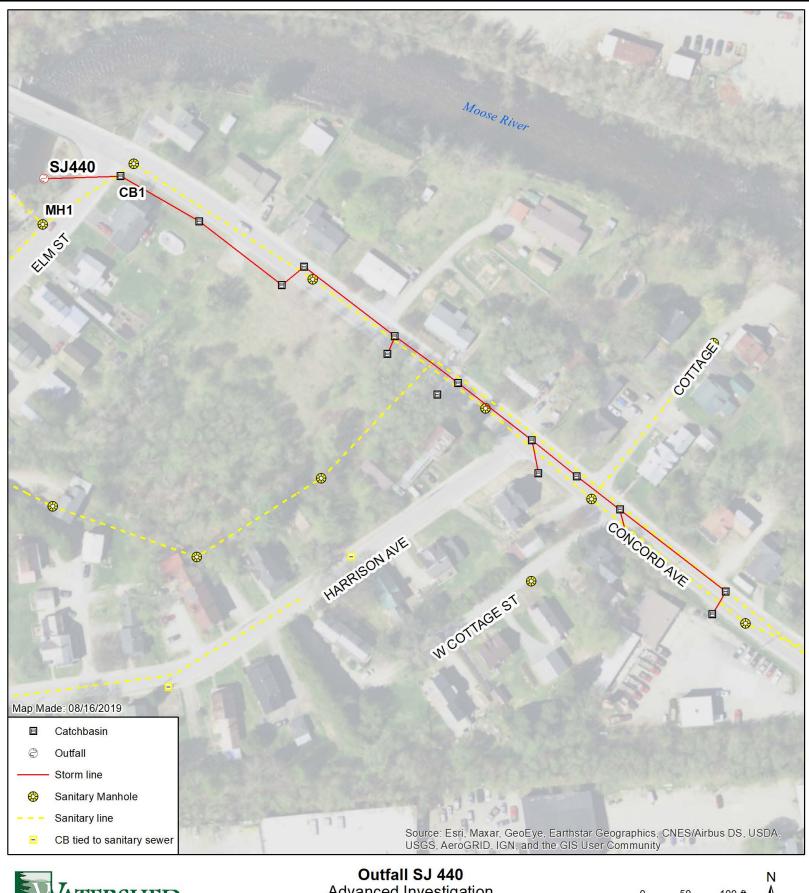




Infrastructure ID	Date	Notes	Flow	рН	Specific Conductivity (uS/cm)	Ammonia (mg/L)	Detergents (ppm)			E. Coli (MPN/100 mL)	Total Phosphorus (mg/L)
SHLD-33- Bridge	07/10/19	Water is seeping from mound in front of house. Neighbors have confirmed leaking septic.	yes	7.88	810	953	0.5	yes	yes	21	0.18

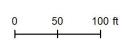






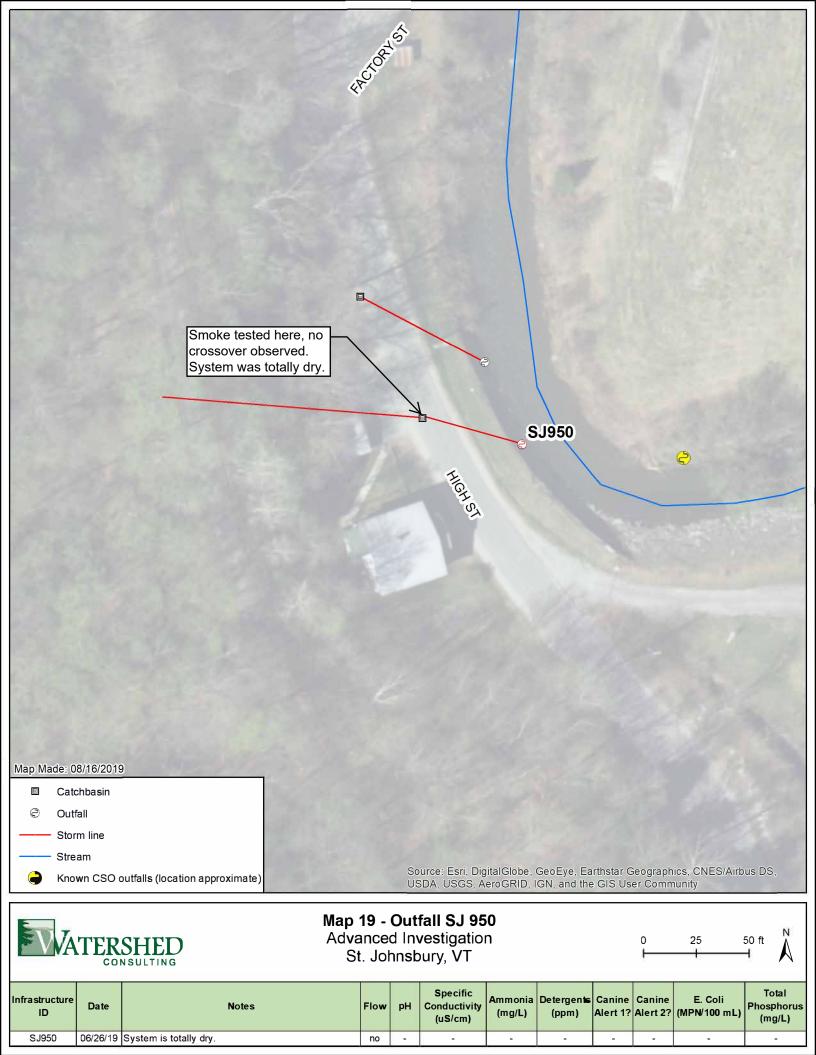


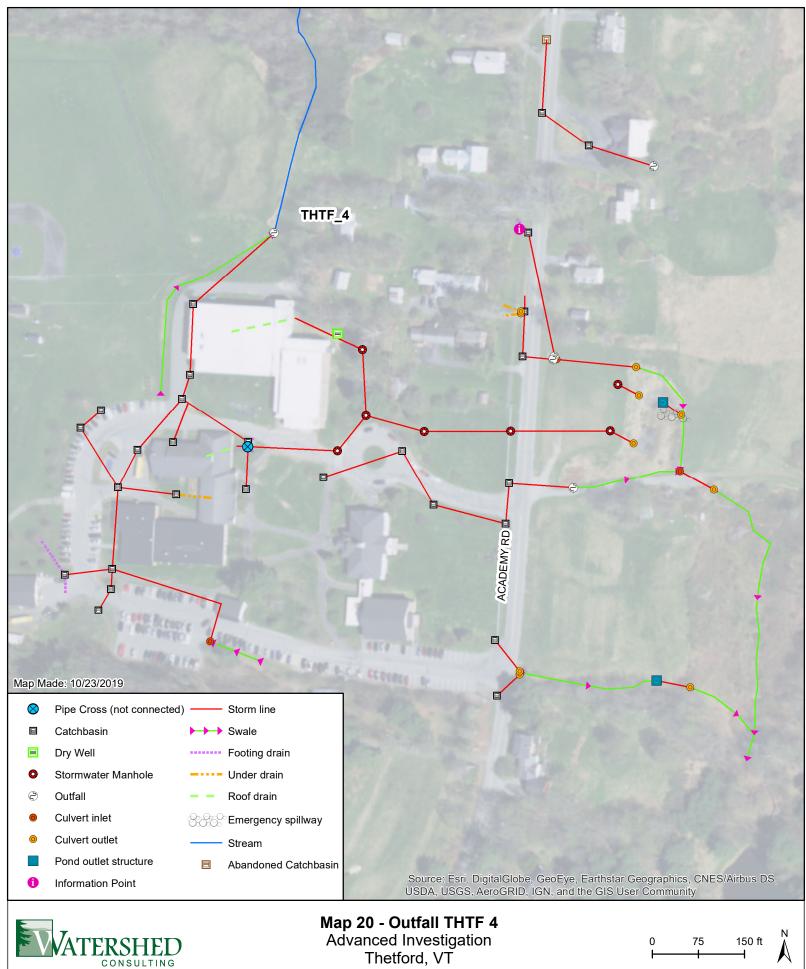
Advanced Investigation St. Johnsbury, VT





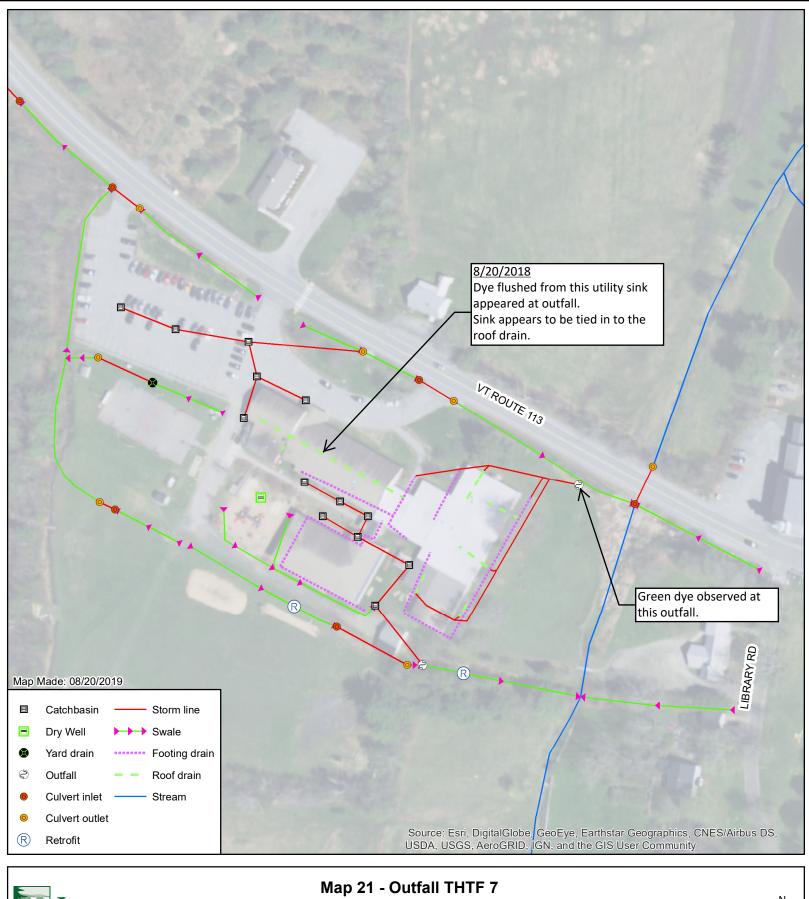
Infrastructure ID	Date	Flow?	Physical Indicators Present?	рН	Conductivity (uS/cm)	Ammonia (mg/L)	Detergents (ppm)	E. Coli (MPN/100 mL)
SJ440	6/26/2019	no	no	NA	NA	NA	NA	NA
SJ440 - SSMH-1	6/26/2019	no	Damage to manhole structure. Clearly can and does overflow.	NA	NA	NA	NA	NA
SJ440-CB-1	8/5/2020	no	no	NA	NA	0.17	0.25-0.5	>2400





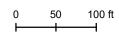


Infrastructure ID	Date	Notes	Flow	pН	Specific Conductivity (uS/cm)	Ammonia (mg/L)	Detergents (ppm)	Canine Alert 1?	Canine Alert 2?	E. Coli (MPN/100 mL)	Total Phosphorus (mg/L)
OF_THTF_4	2018-08-06		yes	8.11	2485	0.13					
OF_THTF_4	9/5/2019		yes	7.71	3625	0.24	0.5			6.3	0.02





Map 21 - Outfall THTF 7 Advanced Investigation Thetford, VT





	Infrastructure ID	Date	Notes	Flow	рН	Specific Conductivity (uS/cm)	Ammonia (mg/L)	Detergents (ppm)			E. Coli (MPN/100 mL)	Total Phosphorus (mg/L)
l	OF_THTF_7	2018-08- 06	Suds present.	yes	7.97	1167	3.61	0.75	-	-	39	0.31
	OF_THTF_7		Blueish color clearly visible in the outfall; MBAS much greater than 3.	yes	8.55	513	-	3	1	-	-	-