wiiiiiiu	m Control Measure Reporting	1			1	Proposed change in
GP Part 6.2	MCM Requirements	Measurable Goal	Description of how requirement was met	List attachments if applicable	Activities planned for next year	BMP or measurable goal?
0.2	INCIN Requirements	Weasurable doar	MM#1: Public Education and Outreach on Stormwater Impacts	аррисавіе	next year	goai:
1.c. (1)			WINNEL Fubile Education and Outreach on Stormwater Impacts		T	
(-,	Website maintained with locally relevant stormwater information	409 site visits and 1,079 page views.	www.fcsvt.org	Franklin County Stormwater RSEP Report.	Same.	No.
1.c (2)	Maintain a program to identify opportunties and	324 Visits to technical assistance				
- (-)	provide technical assistance on Low Impact BMPs	pages.	Total page views to the following pages: Workshops page: 89, Resources: 65, Issues: 62, Events: 55, Solutions: 53.	Above.	Same.	No.
1.c (3)	Participate in a regional stormwater education strategy or develop an MS4 specific program	Franklin County Stormwater is the City/Town RSEP, administered by NRPC.	The City pays \$5,000 annually to this effort. In additton to web visits reported above, the RSEP participates in produce of online videos and collaboration with organizations, like the Friends of Northern Lake Champlain. All in RSEP report attached. Including 10 brochures distributed, 141 social media posts, 21 News stories and 13 Front Porch Forum posts.	Above.	Same.	No.
	Other	Additional marketing and educational work.	346 4th graders participated in Lake Lessons over 5 days from 6 schools in St. Albans City and Town, Swanton, Highgate, Fairfield and Georgia. There were 5 stations with educational content as well as an opening and closing activity.	Above.	Similar	No.
	1-1-1-1		MM#2: Public Involvement and Participation	1,000		
2.d						
	Participate in a regional stormwater public involvement and participation strategy or develop an MS4 specific program	Hosting and/or organization of workshops, projects and other events to engage the public.	Butt Litter Pick-up stats: 9 events, 170 participants, 34,483 butts collected. Outdoor Cleanup Stats: 33 volunteers, 3 truck beds of trash hauled away.	Above.	Same.	No.
	Other	Recruiting volunteers to support projects, promote events, and/or engage the public.	218 volunteers attended FCS-led or sponsored events. Partners: FNLC, ECO AmeriCorps, MRBA, FCNRCD, Franklin Grand Isle Tobacco Coalition, St. Albans Museum, LCBP, and VPIRG.	Above.	Similar	No.
			MM#3: Illicit Discharge Detection and Elimination			
3.a (1)	Develop and maintain a GIS or AutoCAD map of the storm sewers in the regulated MS4 showing all outfalls	Implementation of new mapping system.	Worked with "Diamond Maps" to integrate our maps into a GIS system.	N/A.	Continue using and building out system.	No.
3.a (2)	Develop ordinace or policy prohibiting non-stormwater	Achieved			Complete.	No.
3.a (3)	discharges and implement enforcement procedures Develop and implement a plan to detect and address	Focus on one challenging outfall in	Adopted as part of Stormwater Management and Operations on 05/14/18.	Previously submitted.	Develop IDDE follow-ups and	NO.
J.a (J)	non-stormwater discharges	2023	Working ongoing to narrow down source of contamination in Outfall 14. See attached IDDE report.	IDDE report.	workplan for 2024.	No.
3.a (4)	Inform public on the dangers of illegal discharges	Catch basins stenciled and IDDE information posted.	No catch basins stenciled in 2023. Signage posted at Outfall 14. IDDE updates posted to www.stalbansvt.com/idde	N/A.	Stencil catch basins. Continue IDDE information.	No.
3.a (6)	Status of monitoring activities:					
	0.45/11.1		Constitution of the Consti	IDDE	Develop IDDE follow-ups and	
	Outfalls Inspected: Number of dry-weather samples taken:		See attached IDDE report. See attached IDDE report.	IDDE report. Above.	workplan for 2024. Above.	No.
	Feet of storwmater drainage pipe inspected:		Some camera work for Outfall 14 but clearance challenges encountered.	Above.	Above.	No.
	Discharges Detected:		Working on issue at Outfall 14.	Above.	Above.	No.
	Discharges Corrected:		Working to diagnose source ongoing.	Above.	Above.	No.
	Other					
			MM#4: Construction Site Stormwater Runoff Control			
4.a (1)	Develop and implement procedures to ensure that construction activities undertaken by the MS4 are properly permitted	Achieved.	City projects follow EPSC guidelines and apply for State or local construction stormwater permits, depending on size of project.	N/A.	Same.	No.
4.a (2)	Number of permitted MS4 construction projects: Review existing policies to determine effectiveness, consistency with state standards; Amend for			N/A.	Same.	No.
4.a (3)	consistency with state standards Develop and implement ordinance that regulates earth	Achieved.	Review performed during drafting of local ordinances 2015-2018. No updates required in 2023.	N/A.	Same.	No.
4.a (5)	distrubance <1ac Number of projects with <1ac of disturbance subject to	Achieved.	Adopted as part of Stormwater Management and Operations on 05/14/18.	Previously submitted.	Complete.	No.
	MS4 requirements:			N/A.	Same.	No.
	Other					
			MM#5: Post Construction Stormwater Management for New Development and Redevelopment			
5.d	Review existing policies to determine effectiveness, consistency with state standards, opportuntities for LID, and opportunties for changes to street and parking requirements; Amend for consistency with state					
-	standards	Achieved.	Review performed during drafting of local ordinances 2015-2018. No updates required in 2023.	N/A.	Same.	No.
5.e	Develop and implement procedures to identify projects that disturb >1ac but do not require a state post- construction permit	Achieved.	Adopted as part of Stormwater Management and Operations on 05/14/18.	Previously submitted.	Complete.	No.
	Number of projects >1ac of disturbance <1ac of			l. —		
	impervious:	(There was none in 2023.	N/A.	Same.	No.

5.f						
	Adopt an ordinance or policy that requires projects that					
	disturb >1ac to utilize a combination of structural, non-					
	structural, and low impact BMPs and ensure long-term					
	maintenance.	Achieved.	Adopted as part of Stormwater Management and Operations on 05/14/18.	Previously submitted.	Complete.	No.
5.g (1)						
	Develop and implement procedures for inspecting					
	projects subject to the MS4's ordinance.	Achieved.	Adopted as part of Stormwater Management and Operations on 05/14/18.	Previously submitted.	Complete.	No.
	Number of STPs (without state permits) inspected by					
	MS4:	C	There was none in 2023.	N/A.	Same.	No.
5.g (2)						
	Develop and implement procedures to ensure that					
	development activities undertaken by the MS4 are		City projects follow guidelines and apply for State or local stormwater management permits, depending on size of project. Typically the only			
	properly permitted.	Achieved.	permits needed are State stormwater construction permits, which are obtained.	N/A.	Same.	No.
	Other					
			MM#6: Pollution Prevention and Good Housekeeping for Municipal Operations			
6.b (2)			Three staff members attended the UVM Seagrant South Burlington Green Stormwater Infrastructure Site Visit Day: maintenance			
	Conduct stormwater training for staff	1 trainings attended.	considerations and lessons learned sessions on June 8, 2023.	N/A.	Resume higher training frequency.	No.
6.b (3)						
	Implement controls for reducing or eliminating the					
	discharge of pollutants from the MS4.	Achieved.	See below.	N/A.	Same.	No.
	STPs constructed, upgraded, & maintained	5 maintained.	List in BMP tracking table	BMP Tracking Table	Same.	No.
	STPs incorporated into the MS4 Inspections performed on fleet vehicles, buildings,	1 new in 2023. 3 Pre-existing.	List in BMP tracking table Regular maintenance as needed, as per equipment manuals. Notably, the Johnston Sweeper and the Vac-Con Sewer/Stormwater	BMP Tracking Table	Same.	No.
		S In . in		21/2	6	
	garages, parks, open spaces	Regular inspections.	maintenance truck were inspected and maintained over the winter.	N/A.	Same.	No.
		262 CBs inspected/cleaned and 130				
	Catch basin cleaning	yards of sediment collected.	Complete 'Non Structural Tab'	See Nonstructural tab.	Same.	No.
	Charles Community	1,713 miles swept & 264 yards of	Sanda Na San	C N	6	
	Street Sweeping	debris collected.	Complete 'Non Structural Tab'	See Nonstructural tab.	Same.	No.
		None in 2023. However, did collect				
	Leaf/organic waste removal program		Complete 'Non Structural Tab'	N/A.	No plans for 2024 as of yet.	No.
6.b (4)	Develop and implement procedures for proper disposal	Amas arees and recycle mem.	Complete Non-Structural Tab	170.	no pians for 2024 as of yet.	140.
0.5 (4)	of wastes	Achieved.	Submitted with 2019 Report. No updates in 2023.	Previously submitted.	Update as needed.	No.
6.c	Prohibit use of phosphorus containing fertilizers on	Actieved.	Submitted with 2013 report. No updates in 2023.	reviously submitteu.	opuate as needed.	140.
0.0	facility operations unless warranted by a soil test;					
	submit copy of test	Achieved.	This is a standard City policy. Also included in contracts, when appropriate.	N/A.	Update as needed.	No.
6.d	Participate in the Agency's Municipal Compliance	rancea	and a distributed city pointy. And included in contractly when appropriate.	147.0	opulic as necaeu.	110.
	Assistance Program (or other audit program) for	None. Informed that MCAP no			Resume similar program, if made	
	municipal garages	longer exists.	Informed by VT DEC staff that MCAP no longer exists. No replacement program was brought to our attention.	N/A.		No.
	Other					
		1	<u> </u>			

Additional MS4 Reporting Requirements		
Annual Review of SWMP completed	Yes	
Results of information collected and analyzed, if		
not included elsewhere	N/A	
Notice that permittee is relying on another entity		
to satisy some of its permit obligations	Northwest Regional Planning Commission: MCMs 1 and 2.	
Estimated funds spent on stormwater management		
for the fiscal year*	\$288,300 (Stormwater Utility FY2023 budget)	
Other information, if applicable		

Impaired Waters Response Plan		
Impaired Stream	Rugg Brook.	
Impairment	Stormwater sediment.	
Status of implementation	Pursuing implementation of FRP. Began multi-party coordination for SASH/Nason Street BMP.	
	Pursue multi-party coordination and funding for	
Planned activities for upcoming year	SASH/Nason Street BMP.	
Oth an information if and include		
Other information, if applicable		

Impaired Waters Response Plan		
Impaired Stream	Stevens Brook.	
Impairment	Stormwater sediment.	
Status of implementation	Pursuing implementation of FRP. Continued design of 74 Lo. Welden St. BMP, and Lemnah Drive BMP.	
Planned activities for upcoming year	Pursue funding and construction of 74 Lo. Welden St. BMP and Lemnah Drive BMP. Continue conversation with VT DEC about Hungerford land BMP.	
Other information, if applicable		

Non Structural BMP Reporting

Complete Table 1 or 2, depending on tracking method used by MS4

Table 1. Area tracking method			
Sub Area Name (Lake segment,			
route, etc.)	St. Albans Bay		
Area of streets swept (acres)	46.5		
P Load from Streets where			
sweeping occurs (kg/year)	20		
Sweeper Frequency	Weekly		
Sweeper Technology	Vacuum Assisted		
Year sweeping started	2008		
If weekly or monthly, number of			
months streets are swept	8		
Phosphorus Credit	4.27%		
Phosphrous Reduction from Street			
Sweeping (kg/year)	0.853333333		
Catch Basin Cleaning			
P Load from Streets where catch			
basin cleaning occurs (kg/year)			
Phosphorus Credit	2%	2%	2%
Phosphrous Reduction from Catch			·
Basin Cleaning(kg/year)			

Table 2. Measurement of material tracking me	ethod
Combined dry weight of material collected (kg)	
	130 yards from catch basins and
OR Cubic yards of material collected	264 yards from street sweeping.
Number of sediment samples taken	One sample in April.
Lab where samples were processed	
Record the average TP result	
Was a particle size analysis done?	
Please attach results from the lab	

^{**}There is currently no approved accounting methodology based on weight or volume of material collected. Should a method be developed, DEC anticipates information like that in Table 2 could be required.

Table 3. Phosphorus Redu	Table 3. Phosphorus Reduction Factor				
	2/year (spring and fall)	Monthly	Weekly	4X in the fall	
Mechanical Broom	1%	3%	5%	17%	
Vacuum Assisted	2%	4%	8%	17%	
High Efficiency Regenerative Air-Vacuum	2%	8%	10%	17%	

Flow Restoration Plan Implementation				
	Rugg Brook	Stevens Brook		
Summary of actions taken to implement FRP		Continued design of 74 Lo. Welden St. BMP and completed		
components	Final design and permitting for SASH/Nason BMP	final design of Lemnah Drive BMP.		
What is the MS4's overall status in implementing the FRP?	Final design of one FRP.	Final Design of 2 FRPs.		
·	Pursue multi-party coordination and funding for SASH/Nason Street BMP.	Pursue funding and construction of 74 Lo. Welden St. BMP and Lemnah Drive BMP. Continue conversation with VT DEC about Hungerford land BMP.		
Assessment of ability to meet outstanding	No actionable evidence at this time that schedule cannot be met, but the true feasibility of all BMPs has not yet been tested against realities in the field, including landowner issues, VT DEC permitting conflicts, and final costs.	No actionable evidence at this time that schedule cannot be met, but the true feasibility of all BMPs has not yet been tested against realities in the field, including landowner issues, VT DEC permitting conflicts, and final costs.		

Stream Flow Monitoring	
Does your municipality conduct stream flow	
monitoring?	No

S	Steam Corridor Protection		
О	Ordinance or regulation adopted to protect	Stream Corridor Rules previously adopted are available at	
а	nd regulate development in sw impaired	www.stalbansvt.com/stormwater	
W	vater stream corridors		

Phophorus Control Plan Development		
	Uploaded to 'Municipal Roads General Permit Implementation Table' in Dec.	
Road Erosion Inventory (REI)	2019	
Are there any segments on the MRGP Implementation Table		
portal that are incomplete? If so, please describe how the data	All segments were previously complete, but online tool is currently showing	
will be completed.	incomplete. We believe this is due to a data error, and our consultants will	
	work with DEC to make sure all are returned to complete status.	
Roads and Outlets planned for upgrade in calendar year 2024.		
	None.	
Extent of street sweeping and catch basin cleaning	See 'Non-structural tab'	
Extent of stormwater BMP implementation	See 'BMP Tracking Table'	
What is the MS4's overall status in implementing the PCP?		
	Final design of three major BMPs, including the 74 Lo. Welden facility.	
Assessment of the ability to meet outstanding schedule items		
	No actionable evidence at this time that schedule cannot be met, but the true	
	feasibility of all BMPs has not yet been tested against realities in the field,	
	including landowner issues, VT DEC permitting conflicts, and final costs.	
List of '3 acre sites' that have been taken over by the MS4 in the		
past calendar year.	None.	
Has the additional loading from privately owned land associated		
with the 3-acre sites been addressed in the phosphorus control	The City's PCP anticipates the loading that will be associated with 3-acre site	
plan? If not describe the MS4s plan to address the additional	permits that are likely to be taken over by the City's MS4 permit in the future.	
target.	That loading is incpororated in the P target strategy laid out in the PCP.	

BMP Identifica	etion							Design, Const	ruction and Maintence					Basin Informatio	in .		BMP Trackin	g Specifications							Phosphor	us Calculations					
																															/
					de Existing SW per												Digible for						Total		" Load Bef				is this an Does the upgrad		/
			(de	ecimal (decim	il number(if	Projects Datab	sse Incorporat	ed Cost Estimate		Year Planned	Date	Date of last	Maintence			LC TMOL take	Phosphorus		Impervious P	Pervious Entry Pen	vious Perviou	s Pervious Pervi	ous Pervious are	Storage Infibrati	n Treatment	* Storage De	oth * Practice /	* P Reduction Reduction		% Credit to 1	P Credit
Unique ID Project Name	Land Owner	Responsible Pa		grees) degree) applicable)	ID (if known)	into MS4	(optional)	BMP Status	Construction	Constructed	inspection	needed?	Applicable FRP	LC TMOL Orainage Area	Segment	Credit?	BMP Type	area (acres) N	Method HSG	A HSG B	HSG C HSG	(acres)	volume (ft ¹) rate (in)	nd (kg/ac/yr)	(inches)	Efficiency	(kg/year) (kg/yr)	existing BMP? drainage area?	MS4 (F	ARIVO
City01 Driscoll Drive Inf	Filtration Well City of St. Albans	City of St. Alba	bans 44.	LB30885 -73.0	73340		Yes		Complete		6/1/20	112	Unknown	Stevens Brook	St. Albans Bay Direct Drainage	St. Albans Ray	Yes	Infiltration Chambers	0.11 7	Total Pervious			0.7	4 468 0.52 in/1	r	120	0.72 86.19%	0.17	No Yes	200%	0.17
City02 Taylor Park Rain		City of St. Alba	bans 44.	LB11271 -72.0	12192	3139	Yes		Complete		9/30/20	13 5/1/2023	Yes	Stevens Brook	St. Albans Ray Direct Drainage	St. Albans Ray	Yes	Riportention Enfitration	0.03 %	Total Pervious			0.1	2 3,600 0.52 in/1		1.06	2.00 99.00%	0.06	No	200%	0.06
RFRP01 SASH/Nason Stre	eet City of St. Albans	City of St. Alba	bans 44.	LB02675 -73.0	21601	2255	Yes		Final Design (100%)	2021				Rugg Brook	St. Albans Bay Direct Drainage	St. Albans Ray	Yes	Gravel Wetland	5.46 1	Total Pervious			15.0	6 50,827		1.56	1.27 63.17%	6.04	No	200%	6.04
SFRP02 Lemnah Drive 2	City of St. Albans	City of St. Alba	bans 44.	1.804833 -72.0	00108	2256	Yes		Final Design (100%)	2021				Stevens Brook	St. Albans Bay Direct Drainage	St. Albans Ray	Yes	Gravel Wetland	5.39 1	Total Pervious			6.7	5 33,267		1.89	1.20 62.58%	4.94	No	200%	4.94
SFRP01 Lower Welden St	creet City of St. Albans	City of St. Alba		1,808046 -72.0		2241	Yes		Final Design (100%)	2021				Stevens Brook	St. Albans Ray Direct Drainage	St. Albans Ray		Sand filter (w/ underdrain)	57.96 T	Total Pervious			25.0	274.428	2	.44	1.14 S4.42%	41.60	No	200%	41.60
SFRP03 Hungerford Lowe	er Basin Currently Tom Hung	ford City of St. Alba	bans 44.	1.825111 -72.0	15923	2243	Yes		Planned					Stevens Brook	St. Albans Bay Direct Drainage	St. Albans Ray	Yes	Gravel Wetland	31.67 %	Total Pervious			60.1	222,156	4	1.97	1.19 62.49%	31.23	No	200%	31.23
SFRP01-1 Bellows Free Aca	ademy St. Albans Maple Run Unified S	acl District City of St. Alba	bans 44.	1.808046 -72.0	91682 8433-9050	8433-9050	Yes		Final Design (100%)	2021				Stevens Brook	St. Albans Bay Direct Drainage	St. Albans Ray	Yes	Sand filter (w/ underdrain)	57.96 %	Total Pervious			25.0	274,428		1.66	1.14 54.43%	41.60	No	200%	41.60

BMP Ident	ification							Maintenace	
				Latitude	Longitude	Previous SW	Part of MS4/		
				(decimal	(decimal	permit number	Incorporated	Date of last	
Unique ID	Project Name	Land Owner	Responsible Party	degrees)	degrees)	(if applicable)	into MS4	inspection	Maintence needed?
INC01	Murray Drive Swales	City of St. Albans	City of St. Albans	44.809995	-73.098619	1-0477	Yes	April 2023	Yes
INC02	Guyette Cir/Bowles Ln Swales	City of St. Albans	City of St. Albans	44.807015	-73.096380	1-0691	Yes	April 2023	Yes
INC03	Lemnah Drive 1	City of St. Albans	City of St. Albans	44.806063	-73.089327	2-0147	Yes	April 2023	Yes
INC04	Warner Dr/Isham Ave	City of St. Albans	City of St. Albans	44.817612	-73.076212	5521-9010.R	No	June 2022	Yes
DIV01	Stevens-Rugg Diversion Canal	City and Town of St. Albans	City and Town of St. Albans	44.806259	-73.091888	5643-INDO.AR	No	June 2023	Yes

The information below summarizes many of the accomplishments in 2023 conducted by Northwest Regional Planning Commission and Friends of Northern Lake Champlain in fulfillment of the Regional Stormwater Educational Program (RSEP) for the City and Town of St. Albans. The RSEP is charged with satisfying the relevant requirements of the Minimum Control Measure (MCM) One, Public Education and Outreach, and MCM Two, Public Involvement and Participation of the Phase II NPDES Permit.

Minimum Control Measure (MCM) 1: Public Education and Outreach

The minimum requirements to be completed on MCM 1 regarding Public Education and Outreach are provided in Table 1 below.

Table 1. MCM 1 – Public Education and Outreach activities and goals.

MCM #	Activity	Measurable Goal(s)	Status
1-1	Development and operation of the Program's website or its equivalent	Perform annual updatesDevelopment of new contentNumber of site visitsNumber of page views	✓ Updated website ✓ Developed content ✓ 409 total site visits ✓ 1079 total page views
1-2	Maintain a program to identify opportunities and provide technical assistance on Low Impact BMPs	- Number of visits to pages with technical resources (Trainings/Workshops & Guides) - Development of new content	✓ Total page views to the following pages: - Workshops page: 89 - Resources: 65 - Issues: 62 - Events: 55 - Solutions: 53 ✓ New content added: - Photo Gallery of past events - FCS logo to website header
1-3A	Perform marketing and advertising of the Program in various media	- Number of brochures distributed - Number of media posts and/or stories run	 ✓ 10 brochures ✓ 141 social media posts ✓ 13 Front Porch Forum posts ✓ 21 News stories
1-3B	Coordination with educators and organizations that can provide educational programing on curriculum resources and programming	 Number of schools, teachers or students that participated Number of educational materials/lessons distributed 	√346 4 th graders participated in Lake Lessons over 5 days from 6 schools in St. Albans City and Town, Swanton,

	Highgate, Fairfield, and
	Georgia.
	✓There were 5 stations
	with educational content as
	well as an opening and
	closing activity

Stormwater Website (www.fcsvt.org) - Task 1-1

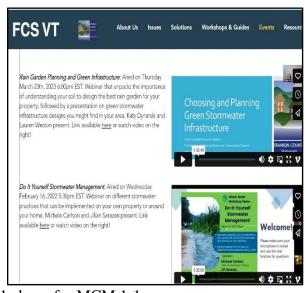
The website for Franklin County Stormwater (FCS) has slowed in development since its redesign in 2020. The website redesign in 2020 created a functional and easy to use website with little need for major updates. There are tabs on stormwater issues, solutions to these problems, workshops, events, and resources for community members looking to become involved in personal stormwater management. There is an option to sign up for a Franklin County Stormwater mailing list. Some technical and content updates were made to the website, as described below.

Notable updates to the website include:

- Ê The FCS logo was added to the website header.
- Ê The recorded webinar, 'Rain Garden Planning and Green Infrastructure' was added to the Past Events section.
- Ê Events were added to the Google Calendar that is shared with partner organizations.
- Ê A photo gallery was added to the Events page and photos of past events were uploaded.

Google Analytics provides information about the use of the website, below is a summary of statistics from January 1, 2023, to December 31, 2023, for web traffic within the United States only. As the website changed during the program year, statistics



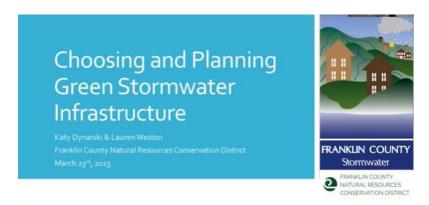


- are reported per website here and combined in Table 1 above for MCM 1-1:
 - £ 244 visits from across the US and 68 of these visits originated in Vermont.
 - Ê There were a total of 1079 page views from the US in 2023.

- £ 29.8% of VT visitors were new visitors to the website.
- È Visitors spent an average duration of 4:55 (min:sec) on the site.
- Ê Most of the page views were for the following pages in descending order: homepage, workshops & guides, about us, resources, issues, events, and solutions.

Technical Resources – Task 1-2

Ê In March of 2023, the Franklin County Collaborative hosted a hybrid event, 'Choosing and Planning Green Stormwater Infrastructure' which was held at Saint Albans Town Hall and on Zoom and offered presentations on how to plan a rain garden and green stormwater infrastructure designs. Katharine Dynarski and Lauren Weston with the Frankin County Natural Resources Conservation District both presented. There were 33 registrants on Zoom and 13 people indicated they were attending on Facebook. The total attendance was 26, with 8 attending in person and 18 attending on Zoom.



- Ê A TikTok video was created to show how to build a rain barrel. The video was shared once on the FCS Facebook page and had 25 views and 2 engagements. It was also posted to the FCS website on the 'disconnect impervious surfaces' page, which was viewed 9 times.
- Ê The Franklin County NRCD was contracted to conduct stormwater property visits, completed in June 2023. They visited 6 properties and gave recommendations.

Informational Brochures – Task 1-3A

The Collaborative utilizes printed promotional brochures to provide basic information on stormwater pollution and direct the person to the website for more information. Brochures could be used at tabling events with partner organizations, for social media use, and electronic distribution.

Ê Brochures were printed to advertise for the Lake Champlain themed storytelling event and approximately 10 were distributed at the Farmer's Market at Taylor Park over the course of two market days.

Media and Marketing - Task 1-3A

The Collaborative aimed to engage local news media in events with press releases as well as utilize the available resources for sharing information with the communities such as Front Porch Forum, Facebook, municipal websites, and partner organizations. The following have been ways the Collaborative has gotten the word out:

E Facebook Posts – These posts promote the FCS website, share upcoming NRPC and partner events, and advertise important stormwater educational information. In 2023, we posted to the Facebook page 141 times, had 909 post engagements, and had 22,291 post views. The Facebook page also had 201 followers by the end of 2023, an addition of 31 followers since 2022.

2023 RSEP Facebook Breakdown:

Month	Posts	Topic Category	Reach	Total
		2 3 0		Engagements*
January	13	Watering can raffle, Stormwater	842	33
		Education, and Event Promo		
February	8	Stormwater BMPS, Event Promo	1,926	14
March	19	Event Promo, how to build a rain barrel video	2,227	58
April	27	BMPS, Event Promo	4,710	175
May	8	Events Promo	3,966	89
June	14	Story telling event promo	1,826	97
July	10	Story telling event promo, cigarette butt	332	31
		clean-up promo, Streamwise assessment		
		promo		
August	6	BMPS	112	4
September	1	Lake Lesson promo	133	21
October	14	Educational materials, BMPS	3,816	290
November	11	Partner announcements and events,	1620	63
		BMPS		
December	10	Stormwater BMPS	781	34
Total	141		22,291	909
	+122		+2,044	+635 from last
	from		from	year
	last		last	
	year		year	
*Engagements:	Combination	of the number of people who click on a link in a post or l	ike/comment/:	share the post.

Franklin County Stormwater Collaborative Regional Stormwater Education Program

Summary of Activities January 1 – December 31, 2023

- Ê Front Porch Forum Thirteen publications/events were made to Front Porch Forum via Dea Devlin's Planning Commission account to St.
 - Albans, St. Albans City, and adjacent town forums. One posting was a raffle with a quiz with stormwater questions (which was also shared to Facebook). People who attempted the quiz were entered to win a free watering can. 57 people attempted the quiz and one local resident won.
- È NRPC provided announcements of events or other messaging with City/Town staff to share on the respective municipal media platform (website, Facebook, or Front Porch Forum).
- Ê NRPC shared messaging with water resource partners for posting on social media.
- Ê There were 21 articles in the St. Albans Messenger that reported on topics related to water quality and stormwater in the St. Albans area. The Messenger has a circulation of approximately 5,500 people.
 - 1. More news from St. Albans City Council: New businesses, facade improvements and more water infrastructure (October)
 - 2. Town of St. Albans continues stormwater talks; Selectboard pushes for pull back on budget (October)
 - 3. St. Albans Town moves forward with sidewalks, lines up future projects (September)
 - 4. Upcoming Lake Carmi feasibility study offers potential answers to blue-green algae outbreak (September)
 - 5. How to protect tree roots, according to a UVM Extension Master Gardener (September)
 - 6. Franklin Forty gravel bike ride set for Sept. 30, new event to raise funds for lake and trails (September)
 - 7. St. Albans Town puts stormwater fees on chopping block for next year's budget; Selectboard to consider alternative funding (August)
 - 8. Volunteers cleaned up fewer cigarette butts in 2023 in Franklin County...and that's a good thing! (August)
 - 9. St. Albans Town Selectboard to meet with Agency of Natural Resources tonight, public invited to attend (August)
 - 10. Who pays for stormwater? St. Albans Town pushes back against 'unfunded mandate' (August)
 - 11. Meet Bridget Butler, Friends of Northern Lake Champlain's new executive director (August)
 - 12. Franklin County watershed workshop provides stormwater runoff tips to locals (August)
 - 13. Historic flooding overtakes Vermont. Here's how Franklin County fared. (July)
 - 14. St. Albans Town receives \$17K from national lawsuit against Monsanto (June)
 - 15. Lake Champlain Basin Program leads discussion on Missisquoi Bay clean-up (June)

- 16. The Missisquoi River Basin Association is seeking two high school aged student interns this summer (May)
- 17. Backyard sustainability tips from Franklin County conservation groups (April)
- 18. Franklin County Natural Resources Conservation District hosts annual tree sale this spring (April)
- 19. Mill River Brewing will hold 4th Annual Charity Ice Fishing Derby for water quality (February)
- 20. Missisquoi River Basin Association announces 2023 art contest: 'Celebrating The Missisquoi Watershed' (January)
- 21. 'This is the grand bargain;' St. Albans municipalities sign historic agreement on police contract and water/sewer services (January)

Educational Programing with Schools – Task 1-3B



Lake Lessons is an educational program provided to 4th grade area students covering a range of topics that relate to Lake Champlain, such as water quality, runoff, watersheds, and Lake Champlain and St. Albans Bay heritage. With different partners hosting various learning stations, students move through each station, spending around 25 minutes at each one. Station subjects included a rainfall stimulator, a creative expression activity, an interactive watershed model, an exercise and game related to farm manure and cover crops, and a history lesson on the Lake. The Lake Lessons partners include St. Albans Museum, Friends of Northern Lake Champlain, Northwest Regional Planning Commission, Missisquoi River Basin Association, Franklin County Conservation District, Lake Champlain Basin Program, and the Agency of Agriculture. The Franklin County Collaborative has helped create lesson content and assist partners in running learning stations in past years but this year, it was responsible for leading the closing activity for students in addition to offering support in shuttling students between stations.

This year, Lake Lessons happened over the course of five days in September in St. Albans Bay Park. There was a total of 346 4th graders in attendance this year.







Minimum Control Measure (MCM) 2: Public Involvement and Participation

The minimum requirements to be completed on MCM 2 regarding Public Involvement and Participation are provided in Table 2 below.

Table 2. MCM 2 – Public Involvement and Participation activities and goals.

MCM#	Activity	Measurable Goal(s)	Status
2-1	Hosting and/or organization of workshops, projects and other events to engage the public	- Number of events offered - Number of participants and/or persons contacted by outreach events - Amount & type of material collected*	Butt Litter Pick-up stats: ✓ 9 events ✓ 170 participants ✓ 34,483 butts collected. Outdoor Cleanup Stats ✓ 33 volunteers ✓ 3 truck beds full of trash
2-2	Recruiting volunteers to support projects, promote events, and/or engage the public	- Number of participants engaged	✓218 volunteers attended FCS-led or sponsored events. ✓ Partner: FNLC, ECO AmeriCorps, MRBA, FCNRCD, Franklin Grand Isle Tobacco Coalition, St. Albans Museum, LCBP, and VPIRG.

^{*}Applicable for clean-up events

Events to engage the public – Task 2-1

Outdoor Cleanups

The Franklin County Stormwater Collaborative organized two cleanup events at two locations during the summer of 2023, which included:

- > Stevens Brook
- ➤ Mill River

The 12 volunteers at the Stevens Brook event covered ¼ of a mile of the stream, and pulled out several notable items, including a sewing machine, unicorn doll, a bike, a skateboard, and a scooter. The Mill River cleanup was a partnership with Mill River BBQ and Smokehouse, and the 21 participants covered ½ mile of the river, collecting 3 trucks beds worth of trash.





Butt Cleanups

In partnership with the Franklin Grand Isle Tobacco Coalition, Franklin County Stormwater helped organize and promote 9 cigarette butt litter cleanup events over the summer of 2023. Three of the events were held in St. Albans City and Town area, and other sites included Richford, Enosburg Falls, Georgia, Swanton, and Alburgh. These events logged 170 volunteers and worked to remove 34,483 cigarette butts from local areas.

Site	Areas Cleaned	# of	Butts
		Volunteers	Collected
Georgia	Industrial Park Rd., Skunk	14	2,434
	Hollow, Park n Ride, dead end off		
	exit 18		
Swanton Library	Village Green, Merchant's Row,	22	1,380
	Post Office/Cody's, Library		
	Parking Lot, Swanton School		
	Apartments		
Swanton Recreation	Rec Fields, Rec Fields Lower Lot,	24	333
	Rail Trail to Depot and Robin		
	Hood, Abenaki Offices, Depot		
	Parking Lot, and surrounding side		
	walks		
Enosburg Falls	Lincoln Park, surrounding	12	3,181
	sidewalks, parking lots		
	everywhere, rail trail (bates area),		
	maple park		
Richford	Overlook Park, Riverside areas,	5	1,830
	Main St. Park, sidewalks, bike		
	shed area		
Alburgh	School and Village sidewalks	30	697
St. Albans Town	Industrial Park	20	8,441
St. Albans City	Downtown	20	14,884
St. Albans Town	Bay Park	23	1,303
Total		170	34,483

Outdoor Lake Champlain- Themed Story Telling Event

On July 19th, the Franklin County Stormwater Collective hosted an outdoor Lake Champlain themed storytelling event at St. Albans Town Bay Park. Five people shared their stories about Lake Champlain and 75 people attended. Several partners supported and tabled the event, including MRBA, Franklin County NRCD, Grand Isle NRCD, Lakewise Program, Saint Albans Museum, and Friends of Northern Lake Champlain. Other local organizations that participated were Mill River BBQ and Smokehouse, Smokey Newfield Project, Uncle John's Band, and Abenaki Circle of Courage. The event was recorded by Northwest Access Tv and can be found

on their YouTube channel:

https://www.youtube.com/watch?v=wBxq75G8L6o&ab_channel=NorthwestAccessTV





Recruitment of Volunteers & Partners – Task 2-2

NRPC communicated with several partners to successfully host events like the outdoor cleanups and the story telling event including: FNLC, ECO AmeriCorps, MRBA, FCNRCD, Franklin Grand Isle Tobacco Coalition, St. Albans Museum, LCBP, and VPIRG. Volunteers were recruited along the outreach channels of each organization using websites, email chains, social media posts, Front Porch Forum listings and newsletters. A minimum of 218 volunteers assisted with FCS-led and sponsored events.

Outfall 14 IDDE Memorandum



To: Chip Sawyer, Director of Planning and Development

Marty Manahan, Director of Public Works

City of St. Albans

From: Watershed Consulting

Date: March 28, 2024

Re: City of St. Albans Illicit Discharge Detection and Elimination (IDDE) - 2023/2024 Advanced

Investigation

This memorandum summarizes our progress to date on the City of St. Albans IDDE – 2023/2024 Advanced Investigation project at Outfall 14. This outfall was initially sampled in 2018 and was flagged for advanced investigation due to high E. Coli concentrations. Advanced Investigation continued in Fall of 2023 and included resampling of the outfall and additional sampling throughout the storm line. In December 2023, Smoke tests, dye tests, and camera work were performed to pinpoint the source of contamination. In February 2024, due to observation of raccoons in the storm line, a microbial source tracking sample was collected and analyzed for human fecal contamination.

Overview

Outfall 14 is located along Steven's Brook near 92 Lincoln Ave in St. Albans City, VT. This outfall was evaluated on October 18th, 2023. Sample results revealed a high concentration of E. Coli at >2,419.6 MPN/ 100 mL. This outfall also had slightly elevated levels of anionic surfactants at 0.232 mg/L (threshold >0.20 mg/L) and a slightly elevated chlorine concentration of 0.08 mg/L (threshold >0.06 mg/L). To narrow down the source of contamination, especially concerning the elevated E. Coli concentration, advanced investigation was performed on this outfall at seven stormwater manholes located upstream of outfall 14.

Outfall 14 – Manhole 1: located at intersection of Lincoln Ave and Ferris St – October 25th, 2023

Flow from Manhole 1 was sampled and revealed an anionic surfactant concentration of 0.559 mg/L, well above the threshold of 0.2 mg/L. E. Coli results returned a concentration of >2,419.6 MPN/ 100 mL.

Outfall 14 – Manhole 2: located at intersection of Lincoln Ave and Bishop St – October 25th, 2023

Flow at Manhole 2 revealed slightly elevated anionic surfactants at 0.25 mg/L (threshold >0.2 mg/L). E. Coli results returned a concentration of 2,419.6 MPN/ 100 mL.

Outfall 14 – Manhole 3: located at intersection of Bishop St and High St – October 25th, 2023

Flow at Manhole 3 was sampled and revealed an elevated anionic surfactants concentration of 0.322 mg/L. E. Coli results returned an elevated concentration of 816.4 MPN/ 100 mL. This is below the sampling threshold, but warrants additional attention given the comparatively lower surrounding results.

Outfall 14 – Manhole 4: located at intersection of Bishop St and Smith St – October 25th, 2023

Flow at Manhole 4 was sampled and revealed an elevated anionic surfactants concentration of 0.307 mg/L. E. Coli results returned a concentration of 135.4 MPN/ 100 mL.

Outfall 14 – Manhole 5: located at intersection of Bishop St and Smith St – October 25th, 2023

Flow at Manhole 5 was sampled and revealed an elevated anionic surfactants concentration of 0.349 mg/L. E. Coli results returned a concentration of < 1.0 MPN/ 100 mL.

Outfall 14 – Manhole 6: located at intersection of Lincoln Ave and Bank St – November 3rd, 2023 Flow at Manhole 6 was sampled and revealed an elevated anionic surfactants concentration of 0.361 mg/L. E. Coli results returned a concentration of 167.0 MPN/ 100 mL.

Outfall 14 – Manhole 7: located at intersection of Lincoln Ave and Congress St – November 3rd, 2023

Flow at Manhole 7 was sampled and revealed an anionic surfactants concentration of 1.142 mg/L, well above the threshold of 0.2 mg/L. E. Coli results returned a concentration of 980.4 MPN/ 100 mL.

Given the prevalence of elevated parameters throughout the stormline, particularly E. Coli, it was determined that additional measures were necessary to pinpoint the source(s) of contamination.

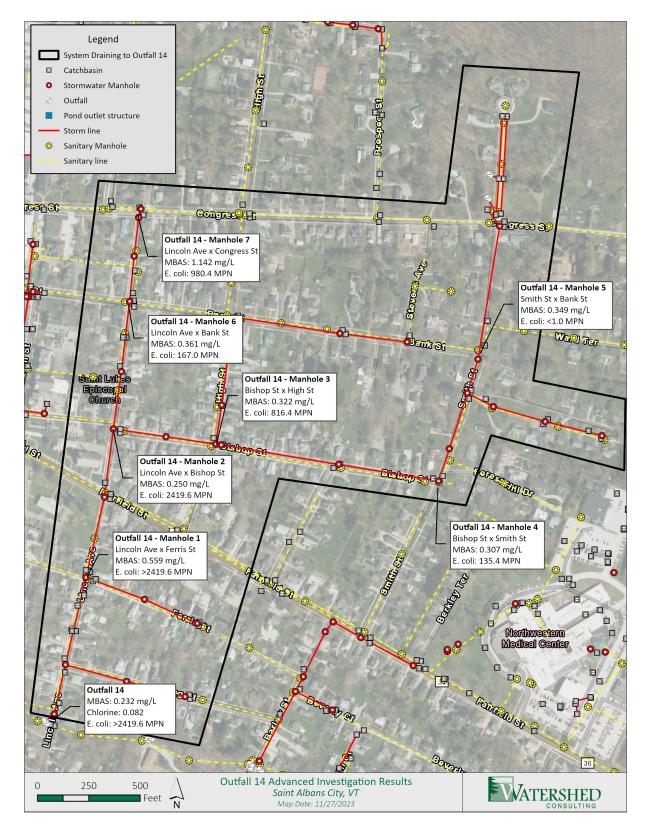


Figure 1: Outfall 14 Location with Stormwater Infrastructure and 2023 Sampling Data

Advanced Investigation – Smoke, Dye, Camera

On December 28th, 2023, Watershed Consulting, along with BP Wastewater Services of VT, performed advanced investigation of outfall 14 in response to elevated E. Coli values found at the outfall and up the stormline. Smoke tests, dye tests, and cameras were used to investigate potential sources of contamination.

A smoke test was conducted at the stormwater manhole occurring at the intersection of Lincoln Ave and Rugg Street. This stormwater manhole (referred to as Manhole 8/MH8) is relatively deep and had substantial flow at the time of investigation. Smoke came out of all catchbasins upstream of the manhole on Lincoln Ave up to Bishop Street. The home at 72 Lincoln Ave had smoke coming from its sewer vent. The occupant of 72 Lincoln Ave allowed us to perform a dye test, and dye was flushed down the toilet. Dye was observed in the sewer line, and no dye was observed in the stormline from 72 Lincoln Ave, indicating that their sewer is not connected to the stormline. However, smoke was observed in the sewer manhole located on Lincoln Ave between Rugg Street and Ferris Street.

Another smoke test was performed in the sewer manhole on Lincoln Ave between Rugg Street and Ferris Street. Smoke was observed in a stormwater catchbasin directly in front of 70 Lincoln Ave. Smoke was also observed at this catchbasin when the stormline was smoked. Upon investigation, a 4" clay tile drain was found in the catchbasin, and a camera was inserted. The occupant at 70 Lincoln flushed their toilet, and, using a camera, it was confirmed that the tile drain is connected to the sewer line. Adjacent to the clay tile drain, there is a larger galvanized culvert that connects to the stormline which was confirmed by camera.

Camera work was attempted within the stormwater manhole at the intersection of Rugg Street and Lincoln Ave (MH8). Unfortunately, due to large rocks and debris, proper footage could not be obtained as the camera was unable to pass over these obstacles.

Additionally, in the stormwater manhole at the intersection of Lincoln Ave and Rugg Street, at least one raccoon was observed, indicating the possibility that the source of contamination may be raccoon fecal contamination.

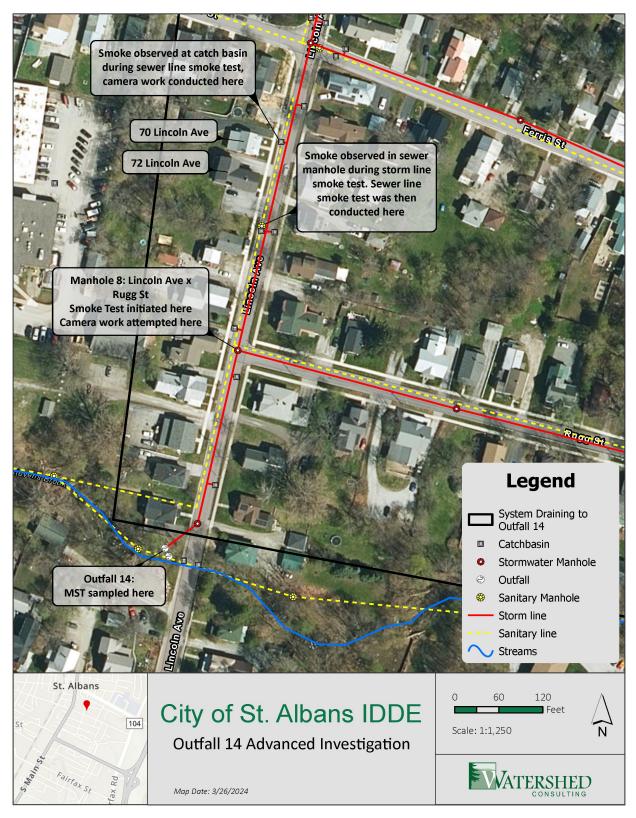


Figure 2: Outfall 14 Advanced Investigation with BP Waste and Microbial Source Tracking

Microbial Source Tracking

The observation of raccoons in the storm line indicated the potential for the raccoons to be the source of E. Coli contamination. To confirm the biological source of the E. Coli contamination, a microbial source tracking (MST) analysis was performed. A sample taken directly from outfall 14 was collected on February 6th, 2024, and shipped to Montclair State University to be analyzed for the presence of human DNA markers. The results detected human markers, which indicate the presence of human fecal contamination, ruling out the possibility of raccoon fecal contamination as the sole source of contamination.

Recommendations

Further investigation is needed to confirm the source of contamination at outfall 14. Recommended next steps include:

- Additional E. Coli sampling at key points along the storm line, especially upstream of manhole 8 closer to the intersection with Fairfield Street.
- Clean the storm line and vactor catch basins along Lincoln Ave.
- Conduct additional camera work after the storm line has been cleaned.
- Seal the sewer/storm line connection discovered at the catchbasin in front of 70 Lincoln Ave.
- Upon further E. coli sampling, consider additional MST sampling, dye testing and smoke testing at key locations in the storm and sewer system.

Attachments

Attachment 1 – Microbial Source Tracking Analytical Report

Attachment 2 – Endyne Lab Reports: Field Sampling Results

Montclair State University

NJCWST

New Jersey Center for Water Science and Technology

Analytical Report

For: Watershed Consulting Associates, LLC

Project: St. Albans - IDDE ADV Microbial Source Tracking

Meiyin Wu, Ph.D.

Director

Report Date: 02/20/2024

Certified Water Analysis Laboratory (NJDEP # 07105)

New Jersey Center for Water Science and Technology

Montclair State University

1 Normal Ave, Montclair, NJ 07043

Phone: (973) 655-3711

Email: waterlab@montclair.edu

Analytical Results

		Date	Date			
Analyte	Sample ID	Collected	Analyzed	Result	Qual	Unit
Human marker	OF14	2/6/2024	2/15/2024	123		copies/mL

Notes- Human marker HF183

Reference: USEPA Method 1696

Qualifier K indicates "less than" the value of the results

Minimal Reporting limits (MRL): 10 marker gene copies/mL

Water Analysis Laboratory (NJDEP-Certified Laboratory #07105)
New Jersey Center for Water Science and Technology, Montclair State University
1 Normal Ave. Montclair, NJ 07043
waterlab@montclair.edu

Chain of Custody – Field Form Date of Collection: 22/22/22

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PO Box 4413

100879

Burlington, VT 05406

Atten: Samplers Name

PROJECT: St. Albans IDDE (STA)

WORK ORDER: 2310-33330

DATE RECEIVED: October 18, 2023

DATE REPORTED: October 19, 2023

SAMPLER: Clare Girrard

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corres ponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accredit ation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as t hey were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:





				Dr.	TE REPORTED. 10/19/2023	
CLIEN PROJE	2			WORK OR DATE REC		
001	Site: St. Albans 26.1-C			Date S	Sampled: 10/18/23 Time: 13:33	
Parameter		Result	Units	Method	Analysis Date/Time Lab/Tech NELAC	Qual.
E. coli		127.4	MPN/100 mL	SM 9223B (-16)	10/18/23 16:48 W ECM A	
				, ,		
002	Site: St. Albans 26.1-C-ADV			Date S	Sampled: 10/18/23 Time: 14:17	
<u>Parameter</u>		Result	<u>Units</u>	<u>Method</u>	Analysis Date/Time Lab/Tech NELAC	Qual.
E. coli		2.0	MPN/100 mL	SM 9223B (-16)	10/18/23 16:48 W ECM A	
				,		
003	Site: St. Albans 39.2-ADV			Date S	Sampled: 10/18/23 Time: 11:56	
<u>Parameter</u>		Result	<u>Units</u>	Method	Analysis Date/Time Lab/Tech NELAC	Qual.
E. coli		34.1	MPN/100 mL	SM 9223B (-16)	10/18/23 16:48 W ECM A	
004	Site: St. Albans 39.2			Date S	Sampled: 10/18/23 Time: 11:00	
<u>Parameter</u>		Result	<u>Units</u>	Method	Analysis Date/Time Lab/Tech NELAC	Qual.
E. coli		12.1	MPN/100 mL	SM 9223B (-16)	10/18/23 16:48 W ECM A	
005	Site: St. Albans 39.2-ADV			Date S	Sampled: 10/18/23 Time: 11:56	
<u>Parameter</u>		Result	<u>Units</u>	<u>Method</u>	Analysis Date/Time Lab/Tech NELAC	Qual.
E. coli		37.3	MPN/100 mL	SM 9223B (-16)	10/18/23 16:48 W ECM A	
006	Site: St. Albans 40-C			Date S	Sampled: 10/18/23 Time: 9:00	
<u>Parameter</u>		Result	<u>Units</u>	Method	Analysis Date/Time Lab/Tech NELAC	Qual.
E. coli		< 1.0	MPN/100 mL	SM 9223B (-16)	10/18/23 16:48 W ECM A	
007	Site: St. Albans 40-ADV			Date S	Sampled: 10/18/23 Time: 10:12	
<u>Parameter</u>		Result	<u>Units</u>	<u>Method</u>	Analysis Date/Time Lab/Tech NELAC	Qual.
E. coli		< 1.0	MPN/100 mL	SM 9223B (-16)	10/18/23 16:48 W ECM A	
008	Site: St. Albans 14			Date S	Sampled: 10/18/23 Time: 15:02	
<u>Parameter</u>		Result	<u>Units</u>	Method	Analysis Date/Time <u>Lab/Tech</u> <u>NELAC</u>	Qual.
E. coli		> 2419.6	MPN/100 mL	SM 9223B (-16)	10/18/23 16:48 W ECM A	





PO Box 4413

100879

Burlington, VT 05406

Atten: Anna Sherman

PROJECT: St. Albans IDDE

WORK ORDER: 2310-34121

DATE RECEIVED: October 25, 2023

DATE REPORTED: October 26, 2023

SAMPLER: Anna Sherman

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corres ponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:





					112 1121 011122 1072012020
CLIEN PROJI		Assoc.		WORK OR DATE REC	
001	Site: St. Albans 14-MH1			Date S	Sampled: 10/25/23 Time: 11:30
Parameter		Result	<u>Units</u>	Method	Analysis Date/Time Lab/Tech NELAC Qual
E. coli		> 2419.6	MPN/100 mL	SM 9223B (-16)	10/25/23 17:00 W ECM A
002	Site: St. Albans 14-MH2			Date S	Sampled: 10/25/23 Time: 14:04
<u>Parameter</u>		<u>Result</u>	<u>Units</u>	Method	Analysis Date/Time Lab/Tech NELAC Qual
E. coli		2419.6	MPN/100 mL	SM 9223B (-16)	10/25/23 17:00 W ECM A
003	Site: St. Albans 14-MH3			Date S	Sampled: 10/25/23 Time: 14:29
Parameter		Result	<u>Units</u>	Method	Analysis Date/Time Lab/Tech NELAC Qual
E. coli		816.4	MPN/100 mL	SM 9223B (-16)	10/25/23 17:00 W ECM A
004	Site: St. Albans 14-MH4			Date S	Sampled: 10/25/23 Time: 14:30
<u>Parameter</u>		Result	<u>Units</u>	Method	Analysis Date/Time Lab/Tech NELAC Qual
E. coli		135.4	MPN/100 mL	SM 9223B (-16)	10/25/23 17:00 W ECM A
005	Site: St. Albans 14-MH5			Date S	Sampled: 10/25/23 Time: 14:45
Parameter		Result	<u>Units</u>	Method	Analysis Date/Time Lab/Tech NELAC Qual
E. coli		< 1.0	MPN/100 mL	SM 9223B (-16)	10/25/23 17:00 W ECM A





PO Box 4413

Burlington, VT 05406

Atten: Samplers Name

PROJECT: St. Albans IDDE

WORK ORDER: 2311-34975

DATE RECEIVED: November 03, 2023

DATE REPORTED: November 06, 2023

SAMPLER: Anna Sherman

Laboratory Report

100879

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corres ponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:





Page 2 of 2

Laboratory Report

DATE REPORTED: 11/

11/06/2023

CLIEN PROJE	2	Assoc.		WORK OR DATE REC	
001	Site: 14-MH6			Date S	Sampled: 11/3/23 Time: 9:53
<u>Parameter</u>		<u>Result</u>	<u>Units</u>	Method	Analysis Date/Time <u>Lab/Tech</u> <u>NELAC</u> <u>Qual.</u>
E. coli		167.0	MPN/100 mL	SM 9223B (-16)	11/3/23 16:22 W ECM A
002	Site: 14-MH7			Date S	Sampled: 11/3/23 Time: 9:26
<u>Parameter</u>		Result	<u>Units</u>	Method	Analysis Date/Time <u>Lab/Tech</u> <u>NELAC</u> <u>Qual.</u>
E. coli		980.4	$MPN/100 \ mL$	SM 9223B (-16)	11/3/23 16:22 W ECM A





PO Box 4413 100879

Burlington, VT 05406

Atten: Samplers Name

PROJECT: St. Albans IDDE

WORK ORDER: 2312-40130

DATE RECEIVED: December 28, 2023

DATE REPORTED: December 29, 2023

SAMPLER: Clare Girard

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corres ponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as t hey were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:





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Laboratory Report

DATE REPORTED: 12/29/2023

				WORK OR DATE REC	
001	Site: OF 14			Date S	Sampled: 12/28/23 Time: 12:58
<u>Parameter</u>		Result	<u>Units</u>	Method	Analysis Date/Time <u>Lab/Tech</u> <u>NELAC</u> <u>Qual.</u>
E. coli		> 2419.6	MPN/100ml	SM 9223B(16)	12/28/23 16:06 W CM A
002	Site: OF 14 - MH8 Lincoln x Rugg Date Sampled: 12/28/23 Time: 13:11				
<u>Parameter</u>		Result	<u>Units</u>	Method	Analysis Date/Time <u>Lab/Tech</u> <u>NELAC</u> <u>Qual.</u>
E. coli		613.1	MPN/100ml	SM 9223B(16)	12/28/23 16:06 W CM A

