



2020 ANNUAL REPORT
MUNICIPAL SEPARATE STORM SEWER SYSTEM
ROCKY HILL, CONNECTICUT



Prepared By
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April 15, 2021

MS4 GENERAL PERMIT
Town of Rocky Hill 2020 Annual Report
 New MS4 Permittee
 Permit Number GSM 00016
 January 1, 2020 – December 31, 2020

This report documents the Town of Rocky Hill efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2020 to December 31, 2020.

PART I: SUMMARY OF MINIMUM CONTROL MEASURE ACTIVITIES

1. Public Education and Outreach (Section 6 (a)(1) / page 19)

1.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1.1-1 Implement public education and outreach	On going	Posted educational material to Town website	Educate residents to the effects of fertilizers and pesticides, impervious coverage, runoff and pollution reduction	Engineering	Jul 1, 2019	7/1/20	https://www.rockyhillct.gov/stormwater_management/index.php http://nemo.uconn.edu/ms4/implement/public-education.htm
1.1-2 Address education/outreach for pollutants of concern	On going	Mail educational materials to 20% of residents and business	Educate residents along the impaired waters to the effects of fertilizers and pesticides	Engineering	Jul 1, 2019	7/1/19	In conjunction with the Connecticut River Coastal Conservation District

1.1-3 Stormwater page on Town website	On going	Town has created a webpage on the Towns website which includes the Storm Water Management Plan, Town Ordinance, DEEP General Permit and links to educational materials	Provide information to residents on the Storm Water Management program	Engineering	Jul 1, 2017	7/1/17	http://www.rockyhillct.gov/stormwater_management/stormwater_management_educational_resources.php
1.1-4 Stormwater page in Town quarterly newsletter	On going	Publish educational material in Towns quarterly news letter	Provide information to residents on the Storm Water Management program	Engineering		2020	See Appendix A
1.1.5 Employee training	On going	Provide Highway and Parks maintainers with training on stormwater management	Provide information to field employees on the Storm Water Management program	Engineering		March, 2020	

1.2 Describe any Public Education and Outreach activities planned for the next year, if applicable.

- Continue mailing educational materials to a new area (20%) of residents and business
- Continue to educate boards and commissions on stormwater management
- Continue to educate staff on stormwater management.
- Provide a link on the town website to NEMO
- Provide Pet Waste informational brochures at the town parks and with dog registrations
- Publish educational material in Towns quarterly news letter
- Distribute informational brochures at the Town library LIMITED ACCESS DUE TO COVID

1.3 Details of activities implemented to educate the community on stormwater ----- SEE APPENDIX A FOR COPIES OF BROCHURES-----

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Distribute educational brochures to 20% of residents and businesses along the impaired waters	Residents and businesses along impaired waters	Impact of Septic systems & Fertilizer use	Bacterial	Engineering
Website link to NEMO on the town website	All residents and homeowners in town	Impact of Pesticide and Fertilizer use	Bacteria	Engineering
Distribute information flyers at the Rocky Hill Fall Fest	All Resident and attendees	Pet Waste	Bacteria	Engineering
Distribute informational flyers with dog registrations	1400 Rocky Hill dog owners	Pet Waste	Bacteria	Town Clerk
Town of Rocky Hill Spring 2020 Brochure	Residents via US mail to 9000 homes	Runoff control	Nitrogen, bacteria	Engineering
Town of Rocky Hill Summer 2020 Brochure	Residents via US mail to 9000 homes	General pollution reduction	Nitrogen, Bacteria	Engineering
Town of Rocky Hill Fall 2020 Brochure	Residents via US mail to 9000 homes	Impervious pavement reduction	Bacteria, salts	Engineering
Town of Rocky Hill Winter 2019/20 Brochure	Residents via US mail to 9000 homes	Winter snow removal	Bacteria, salts	Engineering
Distribute information flyers at the Rocky Hill Library	Residents	Pet Waste, Invasive Species, Backyard water resources	Various	Engineering

2. Public Involvement/Participation (Section 6(a)(2) / page 21)

2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2.1-1 Comply with public notice requirements for the Stormwater Management Plan	Completed	Posted SWMP on Town website	Compliance with SWMP permit	Engineering	Apr 3, 2017	4/1/17	No public comment received
2.1-2 Comply with public notice requirements for Annual Reports	Completed	Posted 2020 Annual Report on Town website	Compliance with SWMP permit	Engineering	Feb 15, 2021	April 1, 2020	
2.1-3 Establish stormwater committee	Completed	Identified members and met October 29, 2019.	Provide forum to coordinate SWMP implementation across depts. and commissions	Engineering	Bi-Annual	NO MEETINGS DUE TO COVID	Committee members consists of Engineering, Wetlands, Planning, ZEO, Public Works, Parks and Rec, Fire and Health District and will meet bi-annually
2.1-4 Hazardous Waste Collection	On going	Posted in local news paper	In conjunction with The MDC, provide residents disposal of hazardous materials	Public Works The MDC	Yearly	Nov, 2020	
2.1-5 Bulky waste collection	On going	Posted on the Towns website	Provide residents with pick up of bulky wastes that may otherwise be illegally dumped into sensitive areas	Public Works, Central CT Health District		Daily 2020	http://www.rockyhillct.gov/departments/public_works/bulk_waste.php
2.1-5 Shred-it	On going	Posted on the Town website and quarterly brochure	Shred-it events	Public Works		May, 2020 Sept, 2020 Nov, 2020	
2.1-6 Leaf pick-up	On going	Posted on the Towns website	Provide residents with leaf pickup in the fall for recycling	Public Works	Yearly	Fall 2020	

2.2 Describe any Public Involvement/Participation activities planned for the next year, if applicable.

- Hold bi-annually stormwater committee meetings to review SMP implementation progress. SCHEDULE TBD DUE TO COVID
- Continue bulky waste pick up
- Continue hazardous waste pick up
- Continue leaf pickup
- Continue Shred-it event
- Post annual report to website
- Seek volunteers for clean-up public waterways

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Yes	4/1/17 Draft, 7/1/17 Final	Engineering Dept. and Town Web Page http://www.rockyhillct.gov/2017_RH_SWP_Plan_FINAL_7-1-17.pdf
Availability of Annual Report announced to public	Yes	2/15/21 Draft, 4/1/21 Final	Engineering Dept. and Town Web Page

3. Illicit Discharge Detection and Elimination (Section 6(a)(3) and Appendix B / page 22)

3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3.1-1 Develop written IDDE program	Completed	Town is in process of completing written IDDE program using the CT IDDE program template	Develop written plan of IDDE program	Engineering	Jul 1, 2019	Town Ordinance 12/04/06	Posted on Town website https://ecode360.com/8847862
3.1-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Completed	Town has located and mapped 95% of all outfalls in town on GIS.	To locate and map on GIS all outfalls in town by years end	Engineering	Jul 1, 2020	July 1, 2020.	
3.1-3 Implement citizen reporting program	In Progress	Manual program in place. Working with the Towns IT department to create a fillable online reporting form to be placed on the town website	Complete the form to meet the permit	Engineering	Jul 1, 2017	July 1, 2019.	Manual program implemented, phone calls received by staff and recorded
3.1-4 Establish legal authority to prohibit illicit discharges	Completed	Completed		Engineering	Jul 1, 2019	July, 2017	Working with legal counsel to amend for the right to enter private lands.
3.1-5 Develop record keeping system for IDDE tracking	In Progress	Manual program in place Purchasing cloud based tracking system which integrates with the GIS system	Develop a record keeping system to meet the permit	Engineering	Jul 1, 2017	July 1, 2019.	Manual program implemented, recoded on spreadsheet.
3.1-6 Address IDDE in areas with pollutants of concern	On going	Town has identified the outfall to test	To identify the pollutant sources and eliminate	Engineering	Not specified	On going	

3.1-7 Detailed MS4 infrastructure mapping	Completed	Town has located and mapped 99% of all outfalls in town on GIS.	To map on GIS the entire public drainage system for use in tracing pollutant sources	Engineering	Jul 1, 2020	July 1, 2020.	
3.1-8 Complete list and maps of all MS4 Stormwater outfalls throughout municipality	Completed	Town has located and mapped 99% of all outfalls in town on GIS	To map on GIS the entire public drainage system for use in tracing pollutant sources	Engineering	Jul 1, 2022	July 1, 2020.	

3.2 Describe any IDDE activities planned for the next year, if applicable.

- A link will be added to next year's Annual Report.
- Will update the written IDDE program as needed throughout the permit term.
- Maintain master IDDE tracking database or spreadsheet and ensure all employees involved in IDDE program understand the logging process
- To have the citizen reporting form posted to the town website
- Continue to perform dry and wet weather screening

3.3 List of citizen reports of suspected illicit discharges received during this reporting period.

Date of Report	Location / suspected source	Response taken
NONE	NONE	NONE

3.4 Provide a record of illicit discharges occurring during the reporting period and SSOs occurring July 2012 through end of reporting period using the following table.

----- SEE ATTACHED DEEP AND MDC INCIDENT REPORTS ----APPENDIX B-----

Location (Lat long/ street crossing /address and receiving water)	Date and duration of occurrence	Discharge to MS4 or surface water	Estimated volume discharged	Known or suspected cause / Responsible party	Corrective measures planned and completed (include dates)	Sampling data (if applicable)

3.5 Briefly describe the method used to track illicit discharge reports, responses to those reports, and who was responsible for tracking this information.

- Currently utilizing incident reports provided to the Town by DEEP, MDC and the Health District for spills and SSO overflows.
- Receiving phone calls from citizens.
- In process of creating a database or spreadsheet to track IDDE
- In process of creating a citizen reporting form

3.6 Provide a summary of actions taken to address septic failures using the table below.

Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known
NONE		

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	324
Estimated or actual number of interconnections	3 (Estimated)
Outfall mapping complete	99%
Interconnection mapping complete	0%
System-wide mapping complete (detailed MS4 infrastructure)	99%
Outfall assessment and priority ranking	99%
Dry weather screening of all High and Low priority outfalls complete	66
Catchment investigations complete	0
Estimated percentage of MS4 catchment area investigated	0%

3.8 Briefly describe the IDDE training for employees involved in carrying out IDDE tasks including what type of training is provided and how often is it given (minimum once per year).

- Provide the highway and parks maintainers and custodial staff annual training on vehicle washing; grease, oil and other hazardous material disposal in the spring and fertilizer and pesticides best management practices in the fall. Other topics will be rotated in. Training provided by Town Staff during work hours.

4. Construction Site Runoff Control (Section 6(a)(4) / page 25)

4.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4.1-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	Completed		Procedure in place	Engineering Planning	Jul 1, 2020	2019	
4.1-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Complete		Procedure in place	Planning	Jul 1, 2017	July, 2017	Town has a plan review approval form to be completed by engineering, planning, zoning, wetlands, building, health and emergency services prior to approvals are granted
4.1-3 Review site plans for stormwater quality concerns	On going	Plans are reviewed by engineering and wetlands for compliance	Plan compliance with SWQ manual and LID's	Engineer	Jul 1, 2017	On going	
4.1-4 Conduct site inspections	On going	Construction sites are inspected at least once a day for compliance to approved plans	Compliance with approved plans	Engineer Zoning	Jul 1, 2017	On going	Wetlands officer is in the engineering department
4.1-5 Implement procedure to allow public comment on site development	Complete		Procedure in place	Engineering Planning	Jul 1, 2017	July, 2017	Public hearings are held on most proposed site development per the town Wetland and P&Z regulations

4.1-6 Implement procedure to notify developers about DEEP construction stormwater permit	Completed	Town informs developer of DEEP requirement throughout the application process. Language will be included in updated Subdivision regulations	Post DEEP permits at construction site trailer	Planning	Jul 1, 2017	July 1, 2020.	
4.1-7 Require erosion and sedimentation controls throughout construction	On going	To meet Town requirements	Compliance with approved plans	ZEO	On going	On going	
4.1-8 Require maintenance and operations plan for water quality structures and detention ponds	On going	To meet Town requirements	Compliance with approved plans	Engineering Wetlands ZEO	On going	On going	

4.2 Describe any Construction Site Runoff Control activities planned for the next year, if applicable.

- Subdivision regulations are in the process of be updated.
- Continue to require applicants to submit E&S monitoring reports for sites that disturb more than one acre of land. Reports to submitted monthly and after rain events of more than one inch of rainfall.
- Continue performing site inspections during construction.

5. Post-construction Stormwater Management (Section 6(a)(5) / page 27)

5.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5.1-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	Complete		Compliance	Planning	Jul 1, 2021	July 30, 2019	
5.1-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	On going		Inspect development for LID compliance		Jul 1, 2022	July, 2017	Town currently has a zero percent peak discharge requirement for all new proposed developments and modifications to properties
5.1-3 Identify retention and detention ponds in priority areas	Not started		Create database of all stormwater basins and structures, inspect annually	Engineering	Jul 1, 2020	July, 2021	
5.1-4 Implement long-term maintenance plan for stormwater basins and treatment structures	On going	A maintenance plan for each stormwater treatment structure was a condition of approval.	Create database of all stormwater basins, structures and maintenance plans inspect annually	Engineering, Public Works	Jul 1, 2020	July, 2017	This is an established policy
5.1-5 DCIA mapping	Not Started		Create Map	Engineering	Jul 1, 2020	July 1, 2021	
5.1-6 Address post-construction issues in areas with pollutants of concern	On going	None reported in 2019	Implement DCIA retrofit BMP's	Engineering	Not specified		Town inspects projects prior to C/O or acceptance for site stability

5.2 Describe any Post-Construction Stormwater Management activities planned for the next year, if applicable.

Continue inspection of town owned storm water infrastructure

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	acres
DCIA disconnected (redevelopment plus retrofits)	0 acres this year /0 acres total
Retrofits completed	2
DCIA disconnected	0 % this year / 0 % total since 2012
Estimated cost of retrofits	\$10,000
Detention or retention ponds identified	0 this year /0 total

5.4 Briefly describe the method to be used to determine baseline DCIA.

None

6. Pollution Prevention/Good Housekeeping (Section 6(a)(6) / page 31)

6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6.1-1 Develop/implement formal employee training program	On going	Provided training to highway, parks maintainers and custodians	Continue employee training	Public Works	Jul 1, 2019	March 2019	
6.1-2 Implement MS4 property and operations maintenance	On going	Maintain filters in CB's at town garages MSDS sheets are kept at the Highway and Parks garage and reviewed annually	Reduce grease, oils and petroleum hydrocarbons	Public works	Jul 1, 2018	July, 2019	
6-3 Implement coordination with interconnected MS4s	Not Started			Engineering	Not specified		
6.1-4 Develop/implement program to control other sources of pollutants to the MS4	Not Started		Notify commercial and industrial business of regulations by mail	Engineering	Not specified	Anticipate development by July 1, 2021.	
6.1-5 Evaluate additional measures for discharges to impaired waters*	On going			Engineering	Not specified	On going	
6.1-6 Track projects that disconnect DCIA	Not Started		To reduce 1% of total DCIA acreage per year	Engineering	Jul 1, 2017	Anticipate development by July 1, 2021	Plan to create a database or spreadsheet for tracking
6.1-7 Implement infrastructure repair/rehab program	On going		Retrofit last cb on line with 4' sump and hood	Engineering Public Works	Jul 1, 2021	July 1, 2021	

6.1-8 Develop/implement plan to identify/prioritize retrofit projects to disconnect 2% of DCIA	Not Started			Engineering Public Works	Jul 1, 2022	Jul 1, 2022	
6.1-9 Develop/implement street sweeping program	On going	Swept all roads utilizing town forces		Public Works	Jul 1, 2018	2020	Note, the town does not use sand during its winter operations so there is limited sweepings to clean
6.1-10 Develop/implement catch basin cleaning program	On going	Subcontractor vacuum 695 CB's, visual inspection during vacuuming	Clean 1/3 of all town owned catch basin	Public Works	Jul 1, 2020	October 2020	
6.1-11 Develop/implement snow management practices	On going	Implemented DEEP BMP for snow removal Rock salt stored in salt shed, liquid salts stored in storage tank		Public Works	Jul 1, 2018	July, 2017 (developed) Summer 2018 completed	Plan included in Town Stormwater Management Plan
6.1-12 Develop/implement pet waste management practices	On going	Signs regarding pet waste posted at dog park Pet waste bags and trash receptacle provided at dog park		Parks	Jul 1, 2017	July, 2017 (developed) Summer 2018 completed	Plan to provide informational brochures for distribution at town parks regarding pet waste
6.1-13 Hazardous Waste Collection	On going	Annual hazardous waste collection for Rocky Hill residents in conjunction with The MDC		Public Works The MDC	Yearly	Nov, 2020	
6.1-14 Bulky waste collection	On going	Town pick up bulky waste from residents on request		Public Works		Daily 2020	
6.1-15 Leaf pick-up	On going	Posted on the Towns website		Public Works	Yearly	Fall 2020	

6.1-15 Parks	On going	Established integrated pesticide management program		Park		2020	The parks department has been following this program
6.1-19 Highway Garage	On going	Uses under carriage truck wash	Send pollutants to treatment structure	Public Works		2020	Public Works built an under carriage truck wash
6.1-20 Shred-It	On going	Posted on the Town website and quarterly brochure	Shred-It events	Public Works		May, 2020 Sept, 2020 Nov, 2020	

6.2 Describe any Pollution Prevention/Good Housekeeping activities planned for the next year, if applicable.

- Provide additional training to highways, parks, custodians.
- Provide training to land use boards and commissions
- Provide additional literature regarding pet waste to be placed at all town parks
- Create database for DCIA
- Information plaques on catch basins and bridges (culverts) stating water flows to Long Island Sound
- Continue hazards waste collection
- Continue bulky waste collection
- Continue leaf pick up
- Volunteers to clean along waterways

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Yes, March, 2020
Street sweeping	
Curb miles swept	124 miles
Volume (or mass) of material collected	97 tons
Catch basin cleaning	
Total catch basins in priority areas	2320
Total catch basins in MS4	2320
Catch basins inspected	591
Catch basins cleaned	591 (152 to impaired waters)
Volume (or mass) of material removed from all catch basins	284 cy
Volume removed from catch basins to impaired waters (if known)	70 cy

Snow management	
Type(s) of deicing material used	Rock Salt Treated Salt Magnesium Chloride
Total amount of each deicing material applied	405 cy Rock Salt 480 cy Treated Salt 500 # gal Magnesium Chloride
Type(s) of deicing equipment used	Trucks with spreaders and sprayer
Lane-miles treated	124 miles
Snow disposal location	N/A
Staff training provided on application methods & equipment	Yes, October, 2020
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	0 lbs or %
Reduction in turf area (since start of permit)	0 acres
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	\$ N/A

6.4 Catch basin cleaning program

Briefly describe the method used to optimize your catch basin inspection and cleaning schedule.

All catch basins that were within the towns' annual paving project areas are inspected, cleaned and repaired.
Clean 1/3 of town owned catch basins each year

6.5 Retrofit program

Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project.

Retrofitted two area with drywells and leaching water quality trenches.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years.

Not complete

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years.

Identify areas we can use infiltration practices

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution. This data is available on the MS4 map viewer: <http://s.uconn.edu/ctms4map>.

Nitrogen/ Phosphorus Bacteria Mercury Other Pollutant of Concern

1.2 Describe program status

Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.

Identified and tested 6 outfalls in 2020.

2. Screening data for outfalls to impaired waterbodies (Section 6(i)(1) / page 41)

2.1 Screening data collected under 2017 permit

----- SEE APPENDIX B FOR COPIES OF 2020 OUTFALL SCREENING RESULTS-----

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year’s screening data showing a cumulative list of outfall screening data. See Appendix B for 2020 results

PRE 2017 PERMIT

Outfall ID	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
006	9/15/05	Bacteria	58,000/100 mL	Connecticut Testing Lab	No
034	9/15/05	Bacteria	83,000/100 mL	Connecticut Testing Lab	No
006	7/11/06	Bacteria	240,000/100 mL	Connecticut Testing Lab	No
002	7/23/08	Bacteria	>5,000/100 mL	Connecticut Testing Lab	No
008	7/23/08	Bacteria	>5,000/100 mL	Connecticut Testing Lab	No
022	7/23/08	Bacteria	>5,000/100 mL	Connecticut Testing Lab	No
031	12/2/15	Bacteria		Connecticut Testing Lab	No

2018

7-15	9-18-18	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
7-17	9-18-18	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
7-19	9-18-18	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
11-1	9-18-18	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
11-2	9-18-18	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
11-4	9-18-18	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes

2019

11-5	4/15/19	Bacteria	3870/100 mL	Phoenix Environmental Lab	Yes
7-16	4/15/19	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
11-8	4/15/19	Bacteria	52/100 mL	Phoenix Environmental Lab	Yes
11-3	4/15/19	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
8-13	4/15/19	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
11-7	4/15/19	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes

2020

OF-33	11/23/20	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
OF-32	11/23/20	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
OF-80	11/23/20	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
OF-29	11/23/20	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
OF-78	11/23/20	Bacteria	>24,200/100 mL	Phoenix Environmental Lab	Yes
OF-24	11/23/20	Bacteria	3870/100 mL	Phoenix Environmental Lab	Yes

3. Follow-up investigations (Section 6(i)(1)(D) / page 43)

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall	Status of drainage area investigation	Control measure implementation to address impairment

4. Prioritized outfall monitoring (Section 6(i)(1)(D) / page 43)

Once outfall screening has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2021.

Outfall	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)

Part III: Additional IDDE Program Data [This section required beginning with 2019 Annual Report]

1. Assessment and Priority Ranking of Catchments data (Appendix B (A)(7)(c) / page 5)

Provide a list of all catchments with ranking results (DEEP basins may be used instead of manual catchment delineations).

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank

2. Outfall and Interconnection Screening and Sampling data (Appendix B (A)(7)(d) / page 7)

2.1 Dry weather screening and sampling data from outfalls and interconnections

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies.

Outfall / Interconnection ID	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken

2.2 Wet weather sample and inspection data

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor.

Outfall / Interconnection ID	Sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of concern

3. Catchment Investigation data (Appendix B (A)(7)(e) / page 9)

3.1 System Vulnerability Factor Summary

For those catchments being investigated for illicit discharges (i.e. categorized as high priority, low priority, or problem) document the presence or absence of System Vulnerability Factors (SVF). If present, report which SVF's were identified. An example is provided below.

Outfall ID	Receiving Water	System Vulnerability Factors

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
5. Common trench construction serving both storm and sanitary sewer alignments.
6. Crossings of storm and sanitary sewer alignments.
7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

3.2 Key junction manhole dry weather screening and sampling data

Key Junction Manhole ID	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants

3.3 Wet weather investigation outfall sampling data

Outfall ID	Sample date	Ammonia	Chlorine	Surfactants

3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed

Part IV: Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Chief Elected Official or Principal Executive Officer

Document Prepared by

Print name:

Print name:

John Mehr, Town Manager

Stephen D. Sopolak, PE, Town Engineer

Signature / Date:

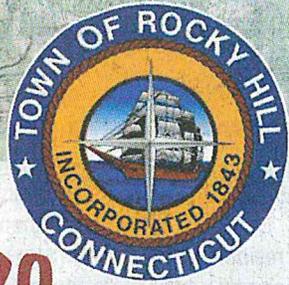
Signature / Date:

 4/14/21

 4/14/21

APPENDIX A

TOWN OF ROCKY HILL - QUARTERLY NEWSLETTER 2020



Town of Rocky Hill
Winter 2019/20

Parks & Recreation

Registration starts November 25
Pages 2-12

**Human, Youth, &
Senior Services**

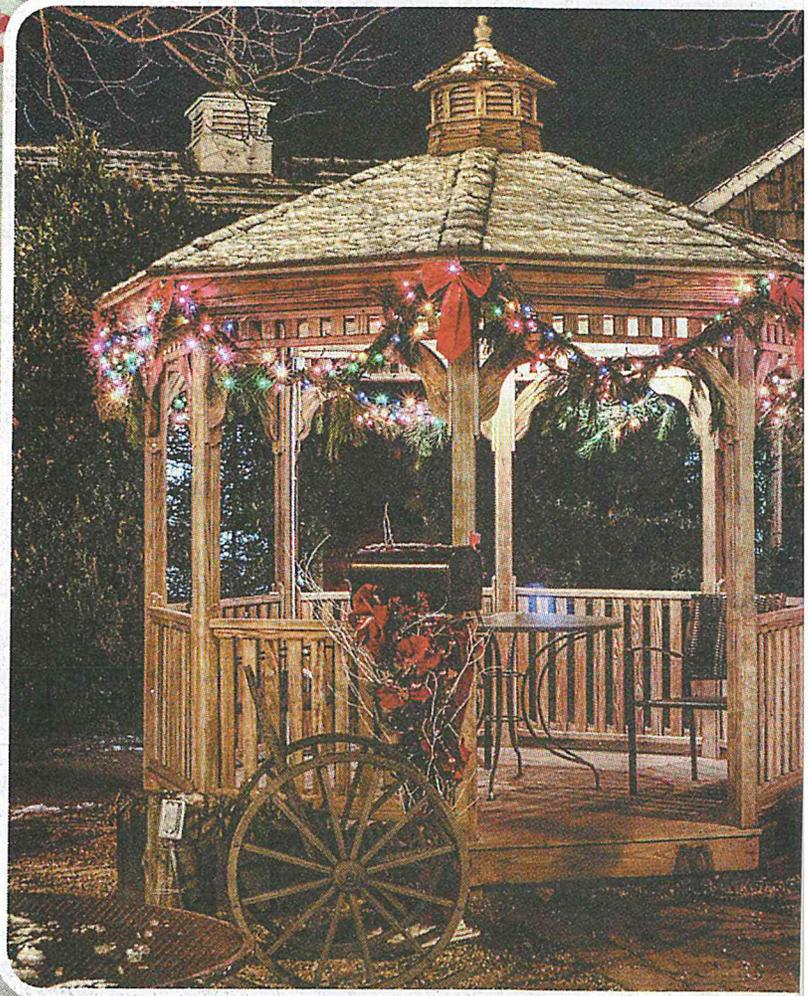
Registration starts November 25
Pages 14-17

**Community Development &
Public Works**

Page 13

Cora J. Belden Library

Pages 18-23



Winter Fun for Everyone

Visit us online: www.rockyhillct.gov

Water Quality Matters

Winter Snow Removal

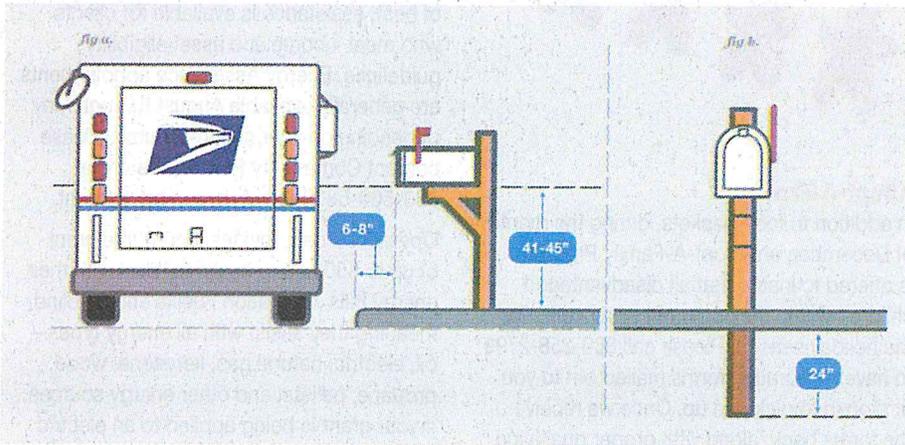
Snow removal and ice control requires the application of either chemicals (including salt), abrasives (sand) or a chemical-abrasive mixture to the roadway surface. Choice of materials is dependent upon weather and road conditions. The town of Rocky Hill uses salt and treated salt. Treated salt is standard rock salt with chemical additives that allow it to work at lower temperatures and to stick to the roadway.

For the majority of winter storms our plow crews will be using treated salt on the Town's roadways. This is a change from our past practice of using a sand/salt mix for our snow removal operations. We are moving to the use of treated salt for several reasons, including: the environmental impact of sand from our roads silting up local streams and waterways, and to reduce our springtime cleanup costs such as street sweeping and catch basin cleaning.



Mailbox Installation

Residents & taxpayers are advised of the importance of proper placement of their mailboxes and post so that damage to the box does not result from winter snow operations. Mailboxes shall be installed per the USPS standards: <https://www.usps.com/manage/mailboxes.htm>



Mailbox Damage due to Snowplowing

During the winter months mailboxes may be damaged or broken in two ways, as a result of snow being thrown against them by town highway plows during snow removal or actually struck by the town highway snow plow. If a mailbox or post is physically struck by the snow plow and it was installed per USPS standards, the Town will replace with standard post and box with a cost not to exceed \$65.00. If damage was caused by the force of snow thrown by town snow plows, the mailbox or post will not be repaired or replaced. The Highway Department or designated representative will investigate all reports and will advise the resident or taxpayer of the decision to repair.

Public Works

Leaf Pickup

Leaf collection will begin Monday November 4, 2019 and will continue until Friday December 6, 2019. Leaf collection is from the east to the west side of town and is weather dependent. Please rake leaves to the edge of the road, not into the road for collection by the Public Works department.

Brush Pickup

Brush pickup has ended for the year and will resume in April 2020. Brush and leaves may be brought to the Transfer Station at 59 Old Forge Road year round during normal business hours.

Please see our website for more information: www.rockyhillct.gov/publicworks

Christmas Tree Pickup

Christmas tree pickup begins the weekday after New Year's Day and continues until no trees are left. The Christmas tree collection is weather dependent. Christmas tree collection may be suspended due to normal winter operations. Residents can bring their Christmas trees to the Transfer Station during normal business hours at no cost.

Contacts:

Departmental Phone:
860-258-2766 (General)
860-258-2733 (Building Dept.)
Jim Sollmi, PE, LS – Director of Community Development and Public Works, 860-258-2762
Stephen Sopelak, PE - Town Engineer 860-258-7672
Joe Lentini – Field Operations and Highway Superintendent 860-258-7709
Bob Alvarado – Wetlands Agent 860-258-2734
Kim Ricci – Town Planner 860-258-2761
Dave Palmberg – Zoning Enforcement Officer 860-258-7675
J-P Langlois – Building Official 860-258-2745
Mike Violette – Asst. Building Official 860-258-7673
Steve Kardys – Asst. Building Official 860-258-7676

TOWN OF ROCKY HILL

Spring 2020



Parks & Recreation

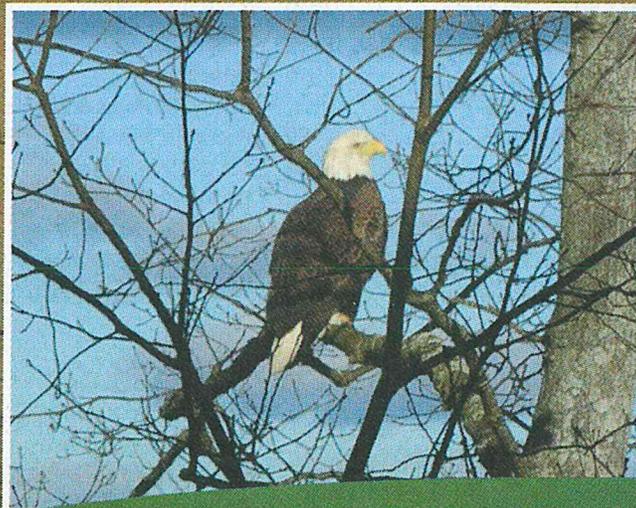
Registration starts March 2
Pages 2-15

Community Development & Public Works

Page 16

Human, Youth, & Senior Services

Registration starts March 2
Pages 17-19



Cora J. Belden Library

Pages 20-23

SOMETHING FOR EVERYONE

Visit us online: www.rockyhillct.gov

Public Works

Brush Pickup

The Highway Department collects limbs, branches, brush and shrubs placed at the curb by the residential homeowners. The intent is to allow residential homeowners to properly dispose of tree and shrub clippings, dead or fallen branches as a result of storms and routine yard maintenance.

The Town of Rocky Hill will have three (3) collections for brush pickup in 2020:

Spring – May 18-22

Summer – July 20-24

Fall – September 21-25

For the remainder of the year, brush and leaves may be brought to the Transfer Station at 59 Old Forge Road year round. There is no pick up list as the Town checks each street starting from the east side (Connecticut River) of the Town and works west. Therefore, PLEASE DO NOT CALL to arrange pick up.

ACCEPTABLE PRACTICES OR MATERIALS:

- Branches shall be no larger than (8") eight inches round,
- Branches shall be no longer the (8') eight feet in length
- Brush shall be stacked with the cut or butt ends facing the street
- Brush MUST be stacked neatly in the same direction, NOT CRISS-CROSSED

The Town reserves the right to limit the amount per property to one truck load or up to (10) ten cubic yards, (6' wide x 6' high pile, 8' long). Amounts exceeding this may be dropped off at the Transfer Station by the homeowner during normal business hours.

UNACCEPTABLE PRACTICES OR MATERIALS:

- NO STUMPS
- No logs over (8") eight inches round
- No "whole" trees removals
- No construction debris, metal or stone
- Do not stack next to light poles, wires, electrical boxes, signs, fire hydrants or mail boxes.

If brush is not removed, an explanation of why will be left on a door knocker at entrance of home. Brush Pick-Up is for residential homeowners only, not for commercial properties, apartment or condominium complexes, land clearing and whole tree removals.



Water Quality Matters

Improve Drainage and Control Runoff on Your Property

- Reduce impervious surfaces on your property by minimizing the amount of concrete, asphalt or packed gravel.
- Use permeable materials such as brick or stone for driveways, walks, patios and landscapes to maximize the amount of water soaking into the ground.
- Increase infiltration by directing roof gutters and pavement runoff towards rain gardens, grass swales, vegetated filter strips or drywells.
- Collect roof runoff in rain barrels and use to water household or landscape plants.
- Install gravel trenches or French drains along patios and driveways to collect and initiate rainfall and snowmelt (direct drains away from your foundation).
- Seed or re-sod bare or dying patches of lawn as quickly as possible.
- Use landscaping mulch or wood chips to stabilize eroded areas or exposed earth.
- Plant thick growing, hearty ground covers on steep or disturbed slopes.
- Minimize lawn area and maximize the number of shrubs and trees to promote infiltration and reduce runoff (especially important on larger lots).

Please see our website for more information: www.rockyhillct.gov/wetlands

Contacts:

Departmental Phone:

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860-258-2733 (Building Dept.)

Jim Sollmi, PE, LS – *Director of Community Development and Public Works*,
860-258-2762

Stephen Sopelak, PE - *Town Engineer*
860-258-7672

Joe Lentini – *Field Operations and Highway Superintendent*
860-258-7709

Bob Alvarado – *Wetlands Agent*
860-258-2734

Kim Ricci – *Town Planner*
860-258-2761

Dave Palmberg – *Zoning Enforcement Officer*
860-258-7675

Mike Violette – *Building Official*
860-258-7673

Steve Kardys – *Asst. Building Official*
860-258-7676



Shred-It

Each resident is permitted to bring up to 3 copy paper-sized boxes or brown paper bags of material to be shredded. Driver's license required for proof of residency. Paper only.

Dates: May 9 & September 12

Time: 9:00am-2:00pm

Location: Stevens School
322 Orchard Street

Please see our website for more information:
www.rockyhillct.gov/departments/public_works/

Town of Rocky Hill

Summer 2020



* NEW * Summer Drive-In Movie Series

Friday evenings in July & August
at Elm Ridge Park.

See page 13 for more info.

Parks & Recreation

Registration starts May 26
Pages 2-17

Community Development & Public Works

Page 17

Human, Youth, & Senior Services

Registration starts May 26
Pages 18-20

Cora J. Belden Library

Pages 21-23

VISIT US ONLINE: WWW.ROCKYHILLCT.GOV



Aquatics

21st Annual Dog Day at the Pool

Bring your well-behaved dog to the pool for a day of swimming!! After the outdoor pool closes for the summer, all dog owners with their pets are welcome. Swimming for dogs only. All money collected will be used for the Rocky Hill Dog Park, located in Elm Ridge Park.

Days: Tuesday

Date: August 18

Time: 4:00–5:15pm and 5:30–6:45pm

Location: Elm Ridge Pool

Fee: \$5.00 per dog and \$1.00 per person

Sea Lions Swim Team

The Rocky Hill Sea Lions Swim Team is a recreational team for ages 6–18. Participating in swim team promotes individual ability as well as team camaraderie. Practice is held Monday–Friday, and attending a minimum of 3 times/week is recommended. Meets are held in the evenings in July.

Minimum requirements: Must be able to swim 1 length of pool (75') without stopping and dive into deep water. Swim team does not teach you

how to swim. Swimmer should know basics of front crawl, back crawl and breaststroke.

Coaches: Melisha DeMaio and Mark Catania

Days: Monday–Friday

Dates: Begins May 26 and runs through July

Time: 5:00–6:30pm through July 2; starting July 6

6 practice will be held M-W-F 4:00–5:30pm;

T-TH 4:30–6:00pm

Location: High School Pool

Fee: \$165 for residents and \$205 for non-residents (\$20 discount for additional children)

Max.: 80

FOR UPDATES AND AVAILABILITY
OF OUR CLASSES AND PROGRAMS
PLEASE VISIT:

ROCKYHILLCT.GOV/PARKREC

OR

REGISTRATIONS.RHPARKREC.ORG

Lifeguarding Course (for ages 15 and up)

The purpose of the American Red Cross Lifeguarding course is to provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize and respond to aquatic emergencies, and provide care for breathing and cardiac emergencies, injuries and sudden illness until EMS personnel take over.

The course length is approximately 30 hours.

Prerequisites: You must be a strong swimmer and at least 15 years old by the final class. You must successfully complete 3 swim tests at the pre course session to continue with the course. Attendance at all sessions is mandatory.

Days: TBA

Date: TBA

Location: High School Pool

Fee: \$140 residents, \$180 non-residents



Community Development and Public Works

Water Quality Matters

With the health of our nation's rivers declining over the past two decades, now is the time for you to make a real and positive difference around your home to reduce polluted runoff. Here are just some of simple:

1. Nurture native trees, shrubs, and flowers. Native species require no fertilizers or pesticides or watering to keep healthy. They thrive in the local habitat and provide great food and shelter birds, pollinators, and other wildlife.
2. Reduce the size of grass lawns. Lawns limit the amount of water that can soak into the ground and often require large amounts of fertilizers and pesticides. If you do have a lawn, follow the rule "mow high and let it lie." By letting your grass grow taller, you also let the roots grow deeper, and leaving the clippings provides a natural fertilizer. Altogether, you will improve the lawn's ability to absorb water, stabilize soil, control weeds, and not dry out.
3. Limit the amount of paved areas and create natural places for the water to soak into the ground. Rain gardens and swales are excellent ways to attenuate and treat runoff from roofs and driveways. Pervious material like gravel, porous concrete, and field stone can be used for patios, driveways, and walkways.
4. Plant or grow natural buffers at the edges of rivers/streams, lakes/ponds, and wetlands. These buffers, made up of trees, shrubs, woody and herbaceous perennials and ground cover, prevent shoreline erosion, reduce flood impacts, capture and treat runoff by trapping sediment and removing nutrients, regulate water temperature, and provide food and habitat for wildlife.
5. Reduce or eliminate use of fertilizers and pesticides. These chemicals washed from your property with every rainstorm into a nearby waterway where they can cause algal blooms and be deadly to aquatic organisms. Before applying chemicals, get your soil tested to determine what you actually need and if necessary, use only a slow-release, low-concentration fertilizer or natural compost. If applying pesticides, spot treat only when absolutely necessary and carefully follow the safety guidelines provided.
6. Dispose of pet waste in the trash or a pet-waste processor. It is full of bacteria that can make our waterways unsafe for drinking, swimming and fishing.

Please see our website for more information. www.rockyhillct.gov/wetlands

Public Works

Brush Pickup

The Highway Department collects limbs, branches, brush and shrubs placed at the curb by the residential homeowners. The intent is to allow residential homeowners to properly dispose of tree and shrub clippings, dead or fallen branches as a result of storms and routine yard maintenance.

The Town of Rocky Hill will have two (2) collections for brush pickup in 2020:

Summer - July 20–24

Fall - September 21–25

For the remainder of the year, brush and leaves may be brought to the Transfer Station at 59 Old Forge Road year round. There is no pick up list as the Town checks each street starting from the east side (Connecticut River) of the Town and works west. Therefore, PLEASE DO NOT CALL to arrange pick up.

The Town reserves the right to limit the amount per property to one truck load or up to (10) ten cubic yards, (6' wide x 6' high pile, 8' long). Amounts exceeding this may be dropped off at the Transfer Station by the homeowner during normal business hours.

If brush is not removed, an explanation of why will be left on a door knocker at entrance of home. Brush Pick-Up is for residential homeowners only, not for commercial properties, apartment or condominium complexes, land clearing and whole tree removals.

APPENDIX B

OUTFALL SCREENING RESULTS 2020



404 Wyman Street, Suite 375, Waltham, Massachusetts 02451 · 781.419.7696
 10 Hemingway Drive, 2nd Floor, East Providence, Rhode Island 02915 · 401.434.5560
 780 Lynnhaven Parkway, Suite 400, Virginia Beach, Virginia 23452 · 757.821.3095

environmental consulting & engineering services

January 5, 2021

Mr. Robert Alvarado
 Engineering Technician
 Town of Rocky Hill
 761 Old Main Street
 Rocky Hill, Connecticut 06067

**Re: Town of Rocky Hill MS4 Stormwater Outfall Screening - 2020
 ESS Project No. R352-011**

Dear Mr. Alvarado:

ESS Group, Inc. (ESS) is pleased to provide you with the results of the 2020 MS4 Outfall Screening for bacteria for the Town of Rocky Hill. Samples were collected in accordance with the requirements specified in the new General Permit for the Discharge of Stormwater from MS4s (General Permit).

Stormwater was collected on November 23, 2020 from the following six (6) locations (provided by the town):

- Six (6) sites discharging into Little Brook (OF-80, OF-32, OF-33, OF-29, OF-78, OF-24)

Stormwater samples were sent to Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut, a state-certified laboratory. Samples were analyzed for *Escherichia coli* (*E.coli*) and total coliform in accordance with 40 CFR 136 and Connecticut Reasonable Confidence Protocols (RCP) as required by the General Permit. The results of this analysis are summarized below.

Town of Rocky Hill 2020 MS4 Water Quality Results

Site Name	Date	Time	Temp (C°)	E. Coli (MPN/100 mls)	Total Coliforms (MPN/100 mls)	Bacteria Level Exceedance*
OF-33	11/23/2020	0920	9.7	2,380	>24,200	Yes
OF-32	11/23/2020	0920	10.0	2,380	>24,200	Yes
OF-80	11/23/2020	0900	11.8	10	>24,200	Yes
OF-29	11/23/2020	0936	10.7	3,650	>24,200	Yes
OF-78	11/23/2020	0945	10.8	374	>24,200	Yes
OF-24	11/23/2020	0955	10.4	10	3,870	Yes

*Bacteria level exceedance in accordance with General Permit for the Discharge of Stormwater from Municipal Separate Storm Sewer Systems (section i. Monitoring requirements B. Outfall screening for bacteria). Sites with *E.coli* concentrations >410 MPN/100 mls and/or total coliform concentrations >500 MPN/100 mls have been identified for follow-up investigation.

Recommendations

The General Permit states that bacteria levels at an outfall that are in exceedance require follow-up investigations to identify and address the source(s) of the exceedance. Where the exceedance is solely the result of natural sources of bacteria i.e., wildlife or runoff from undeveloped wooded areas no follow-up investigations are required for that outfall. Although we cannot completely dismiss human-related/pet sources of bacteria at any of the outfalls where bacteria exceedances were found, when *E. coli* levels are below the exceedance threshold of 410 MPN/100 mls, fecal contamination is less likely to be the source of bacteria. Therefore, follow-up investigations are recommended. The required nature of the investigation





Mr. Robert Alvarado
January 5, 2021

may vary substantially, depending on the complexity of the drainage system and variety of potential sources in the catchment.

Feel free to contact me at (401) 330-1246 with any questions or to discuss next steps.

Sincerely,

ESS GROUP, INC.

A handwritten signature in cursive script that reads "Stephanie L. Martin".

Stephanie L. Martin
Environmental Scientist

Attachment: Laboratory Report





Wednesday, November 25, 2020

Attn: Ms. Stephanie Martin
ESS Group Inc.
10 Hemingway Drive 2nd Floor
Riverside, RI 02915-2224

Project ID: ROCKY HILL MS4 R352-0111
SDG ID: GCH18912
Sample ID#s: CH18912 - CH18917

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

November 25, 2020

SDG I.D.: GCH18912

Project ID: ROCKY HILL MS4 R352-0111

Client Id	Lab Id	Matrix
OF-33	CH18912	SURFACE WATER
OF-32	CH18913	SURFACE WATER
OF-80	CH18914	SURFACE WATER
OF-29	CH18915	SURFACE WATER
OF-78	CH18916	SURFACE WATER
OF-24	CH18917	SURFACE WATER



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report
 November 25, 2020

FOR: Attn: Ms. Stephanie Martin
 ESS Group Inc.
 10 Hemingway Drive 2nd Floor
 Riverside, RI 02915-2224

Sample Information

Matrix: SURFACE WATER
 Location Code: ESSGRPRI
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

11/23/20
 11/23/20

Time

9:20
 12:00

Laboratory Data

SDG ID: GCH18912
 Phoenix ID: CH18912

Project ID: ROCKY HILL MS4 R352-0111
 Client ID: OF-33

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	2380	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SM9223B-04
Total Coliforms	>24200	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SW9223B-06

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

November 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report
 November 25, 2020

FOR: Attn: Ms. Stephanie Martin
 ESS Group Inc.
 10 Hemingway Drive 2nd Floor
 Riverside, RI 02915-2224

Sample Information

Matrix: SURFACE WATER
 Location Code: ESSGRPRI
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

11/23/20
 11/23/20

Time

9:20
 12:00

Laboratory Data

SDG ID: GCH18912
 Phoenix ID: CH18913

Project ID: ROCKY HILL MS4 R352-0111
 Client ID: OF-32

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	2380	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SM9223B-04
Total Coliforms	>24200	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SW9223B-06

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Phyllis Shiller, Laboratory Director

November 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report
 November 25, 2020

FOR: Attn: Ms. Stephanie Martin
 ESS Group Inc.
 10 Hemingway Drive 2nd Floor
 Riverside, RI 02915-2224

Sample Information

Matrix: SURFACE WATER
 Location Code: ESSGRPRI
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

11/23/20
 11/23/20

Time

9:00
 12:00

Laboratory Data

SDG ID: GCH18912
 Phoenix ID: CH18914

Project ID: ROCKY HILL MS4 R352-0111
 Client ID: OF-80

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	10	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SM9223B-04
Total Coliforms	>24200	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SW9223B-06

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

November 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report
 November 25, 2020

FOR: Attn: Ms. Stephanie Martin
 ESS Group Inc.
 10 Hemingway Drive 2nd Floor
 Riverside, RI 02915-2224

Sample Information

Matrix: SURFACE WATER
 Location Code: ESSGRPRI
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

11/23/20
 11/23/20

Time

9:36
 12:00

Laboratory Data

SDG ID: GCH18912
 Phoenix ID: CH18915

Project ID: ROCKY HILL MS4 R352-0111
 Client ID: OF-29

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	3650	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SM9223B-04
Total Coliforms	>24200	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SW9223B-06

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

November 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report
 November 25, 2020

FOR: Attn: Ms. Stephanie Martin
 ESS Group Inc.
 10 Hemingway Drive 2nd Floor
 Riverside, RI 02915-2224

Sample Information

Matrix: SURFACE WATER
 Location Code: ESSGRPRI
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

11/23/20
 11/23/20

Time

9:45
 12:00

Laboratory Data

SDG ID: GCH18912
 Phoenix ID: CH18916

Project ID: ROCKY HILL MS4 R352-0111
 Client ID: OF-78

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	374	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SM9223B-04
Total Coliforms	>24200	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SW9223B-06

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

November 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report
 November 25, 2020

FOR: Attn: Ms. Stephanie Martin
 ESS Group Inc.
 10 Hemingway Drive 2nd Floor
 Riverside, RI 02915-2224

Sample Information

Matrix: SURFACE WATER
 Location Code: ESSGRPRI
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: AO
 Received by: LB
 Analyzed by: see "By" below

Date

11/23/20
 11/23/20

Time

9:55
 12:00

Laboratory Data

SDG ID: GCH18912
 Phoenix ID: CH18917

Project ID: ROCKY HILL MS4 R352-0111
 Client ID: OF-24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	10	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SM9223B-04
Total Coliforms	3870	10	MPN/100 mls	10	11/23/20 15:15	LJ/KDB	SW9223B-06

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

November 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager

Wednesday, November 25, 2020

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCH18912 - ESSGRPRI

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

November 25, 2020

SDG I.D.: GCH18912

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Customer: ESS Group, Inc.
 Address: 10 Hemingway Drive, 2nd Floor
 East Providence, RI 02915

Project: Rocky Hill MS4 R352-011
 Report to: Stephanie L. Martin (Smartin@ESSGroup.com)
 Invoice to: Barbara Cabral (Bcabral@ESSGroup.com)
 QUOTE # R352-011

Temp () ° C Pg of
 Data Delivery/Contact Options:
 Fax: _____
 Phone: 401-330-1246
 Email: SMartin@ESSGroup.com

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature Adrian Cabral Date: 11-23-20

Matrix Code: GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SL=Sediment S=Soil SD=Solid W=Wipe Oil=Oil
 B=Bulk L=Liquid X=Other

Analysis Request

Total Coliforms & E. Coli

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
18912	OF-33	SW	11-23-20	0920
18913	OF-32	SW		0920
18914	OF-80	SW		0900
18915	OF-29	SW		0936
18916	OF-78	SW		0945
18917	OF-24	SW		0955

MSMSD	GL Amber 8 oz WhiPac	GL Soil Container () oz	GL Amber 100ml Vial () oz	PL Amber 1250ml () oz	PL H2SO4 () 250ml () 500ml	PL HNO3 250ml () 500ml	Bacteria Bottle as is
							1
							1
							1
							1
							1
							1

Relinquished by: Adrian Cabral Accepted by: [Signature]
 Date: 11-23-20 Time: 1200
 Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard
 Other
 *MSMSD are considered site samples and will be billed as such in accordance with the prices quoted.

RI (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA MCP Certification
 GW-1
 GW-2
 GW-3
 S-1 GW-1
 S-2 GW-1
 S-3 GW-1
 SW Protection

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 Other
 Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

State where samples were collected: CT
 * SURCHARGE APPLIES