

MS4 General Permit
Town of Fairfield - 2017 Annual Report
Existing MS4 Permittee
Permit Number GSM 000012
[January 1, 2017 – December 31, 2017]

This report documents the Town's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2017 to December 31, 2017.

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 Implement public education and outreach	In progress	<i>Giving out SW Brochures in Engineering Office and Library. Stormwater regs and messages on Eng. Website.</i>	<i>No. of Brochures</i>	<i>W. Hurley</i>	<i>Jul 1, 2018</i>	<i>Distributed 200 brochures and 250 flyers. Item completed for year and continuing.</i>	<i>Still have brochures left. Also BSA distributed 250 flyers about contaminated runoff.</i>
1-2 Address education/ outreach for pollutants of concern*	In progress	<i>Hazardous Waste Collection Days</i>	<i>1-2 per year</i>	<i>M. Zembruski</i>	<i>Jul 1, 2018</i>	<i>Completed-Annual Events, continuing.</i>	<i>Fairfield and New haven Locations.</i>
1-3 Additional BMPs, see sec. 1.3 for list	In Progress	Additional Public Educational and Outreach opportunities	No. of events	B. Carey MZ, WH, LP	July 1, 2018	Completed and on- going.	Brochures, talks, workshops, materials, postings, discussions.

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

Starting January 1, 2018- Engineering has updated website and Office Bulletin Board with new detention, and BMP requirements and various information on stormwater pollutants, raingardens and groundwater recharging/stormwater infiltration. Also working with Fairfield Bike and Ped Committee to approve “Complete Streets” policy which will go before Board of Selectman in public meeting.

1.3 Details of activities implemented to educate the community on stormwater

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
<i>Classroom/youth group education</i>	<i>Students, parents, teachers (approx. 100) 3 events</i>	<i>Impact of impervious cover, stormwater infiltration</i>	<i>Bacteria, nitrogen and misc. pollutants.</i>	<i>W Hurley, B. Carey , BOE, BSA, GSA Fairfield Prep- Environmental Science Class talk/workshop. March 2017. Also Girl Scout in Gov’t Day, April 26, 2018.</i>
<i>Brochures distributed at Engineering desk</i>	<i>Developers, home owners (approx. 300)</i>	<i>Impact of impervious cover, Septic systems & Fertilizer use</i>	<i>Bacteria, Ecoli, metals, household pollutants.</i>	<i>Engineering Distributing.</i>
<i>Mill River Watershed Study</i>	<i>300-1000 people higher number if Mill River Watershed group gets involved.</i>	<i>Stormwater Management and improve shellfishing</i>	<i>Bacteria, Ecoli,</i>	<i>Conservation Dept. hired Consultant to concentrate on Mill River Watershed per 319 EPA watershed management grant.</i>
<i>Hazardous Waste Day</i>	<i>500 people</i>	<i>Household waste</i>	<i>Bacteria, Ecoli, metals, household pollutants</i>	<i>Mike Zemruski, SW &R Director</i>
<i>Earth Day Environmental Fair</i>	<i>1000 people</i>	<i>Stormwater, Pollution, Solar Energy</i>	<i>Bacteria, Ecoli, metals, household pollutants</i>	<i>Mike Zemruski, SW &R Director Earth Day Festival April 30, 2017 at FTC.</i>
<i>Pet Waste Management</i>	<i>1000 people</i>	<i>Pet waste collection</i>	<i>Nitrogen, animal waste</i>	<i>Conservation-open space</i>

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 Comply with public notice requirements for the Stormwater Management Plan	<i>In Progress</i>	<i>Stormwater management Plan posted on Town/DPW Website</i>	<i>Update annually or sooner meet DEEP requirement.</i>	<i>W. Hurley</i>	<i>Apr 3, 2017</i>	<i>4/3/2017 completed and ongoing.</i>	<i>SWMP and yearly report Posting on Website Feb 15, 2018.</i>
2-2 Comply with public notice requirements for Annual Reports	<i>Done</i>	<i>Annual Report Posting on Website.</i>	<i>Submitted to DEEP-meet DEEP req.</i>	<i>W. Hurley</i>	<i>Feb 15, 2018</i>	<i>Posted on website, Feb 15, 2018</i>	<i>SWMP Posting on Website Feb 15, 2018</i>
2-3 Beach and Riverfront clean ups	<i>In Progress</i>	<i>Beach and River clean ups performed.</i>	<i>2 Completed (annually)</i>	<i>B. Carey</i>	<i>July 1, 2017 +</i>	<i>July 1, 2017 and on going</i>	<i>May, June, July 2017 cleanups per Conservation.BRCC/BSA-88 also helped.</i>
2-4 Create Volunteer Watershed Organizations	<i>Pending public involvement</i>	<i>Maintain watershed groups, create new ones if possible.</i>	<i>Maintain or create 1 group</i>	B. Carey <i>W Hurley</i>	<i>July 1, 2017 +</i>	<i>July 1, 2017 and on going</i>	<i>Sasco Brook and Mill River watershed steering committees meet quarterly with Conservation.</i>
2-5 Storm Drain Stenciling, Medallions, or Decals	<i>Pending Public Involvement</i>	<i>Boy Scouts, Volunteer Groups</i>	<i>Number of basins "marked" 100/yr</i>	C. Rogers, S. Bartlett <i>W. Hurley</i> <i>B. Carey</i>	<i>July 1, 2017 +</i>	<i>July 1, 2017 and on going</i>	<i>BSA (40 scouts) installed 200 storm drain markers, April 1-2, 2017.</i>
2-6 Establish in house stormwater committee	<i>Pending Public Involvement</i>	<i>In process of identifying committee members</i>	<i>Provide roundtable discussions to coordinate SWMP implementation across Depts.</i>	<i>Eng/TPZ/Conservation</i>	<i>N/A</i>	<i>Spring-Fall 2018</i>	<i>Roundtable/Committee will represent town departments & commissions with stake in stormwater mgmt.</i>

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

Hold semi annual or sooner, stormwater committee roundtable meetings to review SMP implementation progress.
 Earth Day Clean up for Penfield/Jennings Beach, Mill River, Ash Creek. Will seek help from Scouts again?

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	YES	2/14/2018	DPW website, Engineering Office
Availability of Annual Report announced to public	YES	2/14/2018	DPW website, Engineering Office

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 Develop written IDDE program	<i>In progress</i>	<i>Town is in process of completing written IDDE program based on portions of the CT IDDE program template</i>	<i>Develop written plan of IDDE program</i>	Engineering/DPW	<i>Jul 1, 2018</i>	<i>Anticipate completing by the deadline of July 1, 2018.</i>	<i>Some text is being revised from template per Town officials?</i>
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	<i>Complete</i>	<i>Outfalls mapped several years ago. Rare updates are needed.</i>	<i>Complete map and list.</i>	<i>Engineering W Hurley, J Harris</i>	<i>Jul 1, 2019</i>	<i>Completed 2016.</i>	<i>GIS storm system map. Hard copy in engineering Office. May consider entire Town priority area since 70-80% is anyway.</i>
3-3 Implement citizen reporting program	<i>On going</i>	<i>Runoff, turbidity and spill complaints</i>	<i>Continue Q alert system</i>	<i>W. Hurley, B. Carey, J. Michelangelo, First Selectmans' office</i>	<i>Jul 1, 2017</i>	<i>Completed 7/1/2017 and on going</i>	<i>Complaints are logged into system, closed out when completed. Record is saved.</i>

3-4 Establish legal authority to prohibit illicit discharges	<i>Partially complete</i>	<i>Health Dept, Engineering, Conservation and Zoning</i>	<i>Complete task</i>	Health, Fire Dept, Engineering, TPZ Conservation	<i>Jul 1, 2018</i>	<i>Town using existing regulations. Goal of creating one source for IDDE.</i>	<i>Town using existing regulations. Goal of creating one source for IDDE.</i>
3-5 Develop record keeping system for IDDE tracking	<i>Currently using Q alert system</i>	<i>Also using Inspectors for outfalls, Fire and health Dept.logs. Harbor Watch performing WQ monitoring in Mill River watershed.</i>	<i>Keeping records of results of inspections/complaints. Harbor watch monitoring results for Mill River in Appendix.</i>	<i>J Zebrowski, W Hurley, C Rogers, S. Cleary, Fire Dept. B. Carey</i>	<i>Jul 1, 2017</i>	<i>Implementing tracking system, on going. Harbor Watch developing Data and Map for monitoring results.</i>	<i>Goal: create one source of IDDE rather than compiling, combining records.</i>
3-6 Address IDDE in areas with pollutants of concern- (Applies for most of Town).	<i>Currently using Q alert system</i>	<i>Also using Inspectors for outfalls, Fire and health logs.</i>	<i>Keeping records of results of inspections/complaints</i>	<i>J Zebrowski, W Hurley, C Rogers, S. Cleary, Fire Dept. B. Carey</i>	<i>Not specified</i>	<i>Implementing tracking system, on going.</i>	<i>Goal: create one source of IDDE rather than compiling, combining records.</i>
3-7 Develop catchment areas for each outfall	<i>Developed</i>	<i>Developed through GIS query.</i>	<i>Can obtain map at any time via GIS.</i>	<i>J. Harris</i>	<i>7/1/2018</i>	<i>Completed 7/1/2017</i>	<i>Used, when applicable.</i>
3-8 Map or list stormwater treatment Structures	<i>Completed</i>	<i>Created list of structures</i>	<i>Create list, record cleanings.</i>	<i>Engineering</i>	<i>7/1/2018</i>	<i>Completed 7/1/2015</i>	<i>Gave list to DPW for cleaning schedule. Depends on sediment amount, budget and need- goal minimum 4 year cycle. All done circa 2015/16.</i>
3-9 Septic field repairs and list of spills. REF: sec 3.6 .	<i>In going</i>	<i>Record number of repairs, new septics, spills.</i>	<i>36 septic repairs. 7 new systems and one still being resolved.</i>	<i>J. Oldham-Health</i>	<i>7/1/2017 +</i>	<i>Completed 7/1/2017</i>	<i>Annual list from FHD.</i>
3-10 Implement Appendix B- IDDE Protocol	<i>Not started yet</i>	<i>none</i>	<i>Develop plan or protocol.</i>	<i>Engineering</i>	<i>6/30/2022</i>	<i>Projected 2022</i>	<i>Develop plan, protocol.</i>

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

The written program will be posted to the Dept of Public works webpage and will be listed in next year's Annual Report; will update the written IDDE program as needed throughout the permit term.

Maintain master IDDE tracking spreadsheet and educate all employees involved in IDDE program to follow recording process.

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

Date of Report	Location / suspected source	Response taken
Ref: Q alert or master sheets for now	See appendix	See appendix

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.

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)
Ref: Q alert or master sheets for now. Some ex.	See appendix					
17 Centerbrook Place	3/23/17	Grasmere	<5 gal	None	Oily sheen cleaned	NA
1630 Post Rd	3/28/17	Pine creek	< 5 gal	Snow pile?	DPW cleaned oily/tar substance	NA

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 there are a variety of ways the public or Town employees can report any spills or illicit discharges. This is via Q alert system, Health Dept (septic fields), Fire Dept. (Haz-Mat, routine calls), Engineering/Conservation (phone calls, emails). Each Dept maintains their own list and Engineering usually compiles or consolidates list for annual report purposes. Any reoccurring complaints or ones with nearby locations are reinvestigated by a committee group, if applicable. Each complaint is recorded and actions/results are included.

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
36 septic repairs. 7 new systems.	36 septic repairs. 7 new systems and one still being resolved.	Sasco Brook and Cricker Brook.

3.7 IDDE reporting metrics

Metrics	
actual number of MS4 outfalls- known 4" and greater mapped	# 667
Estimated or actual number of interconnections (# of CB)	# 7541
Outfall mapping complete	100 (%)
Interconnection mapping complete	99 (%)
System-wide mapping complete (detailed MS4 infrastructure)	100 (%)
Outfall assessment and priority ranking	33 (%)
Dry weather screening of all High and Low priority outfalls complete	# 266
Catchment investigations complete (50 catchment subbasins)	# 10
Estimated percentage of MS4 catchment area investigated (% CB-%catchment)	20-33 %

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).

Currently, Health Dept. staff is trained in spotting, and reporting illicit discharges such as failing septic systems and questionable discharges. Most Fire Dept. personnel are Haz-Mat trained and can identify colored, turbid and foamy/oily discharges and are familiar with reporting requirements. Conservation Personnel and Engineering staff have trained inspectors and professional Engineers that can identify most illicit discharges and are familiar with reporting protocol. DPW holds annual training sessions and cover spill kits, illicit and hazardous discharges, spills and reporting requirements.

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 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	<i>Partial completion On going</i>	<i>Engineering requires any building permit application to meet MS4 regulations prior to sign off. Zoning investigating adding MS4 language to Zoning and Subdivision regulations.</i>	<i>Engineering won't sign permits/Co's unless they meet New MS4 requirements. Required for TPZ regs?</i>	<i>W Hurley J Wendt-TPZ B. Carey- Conservation</i>	<i>Jul 1, 2019</i>	<i>Most regs in place. Goal: to include in TPZ land Use and subdivision regulations by July 2019</i>	<i>Pending approval</i>
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	<i>Completed On going</i>	<i>Code Enforcement review, roundtable meetings</i>	<i>Already performing task</i>	<i>W hurley L Pulie- Eng. J Wendt, E. H. B. Carey</i>	<i>Jul 1, 2017</i>	<i>Completed, 7/1/2017.</i>	<i>TPZ and Conservation refer to each other and Engineering for approvals for permit process.</i>
4-3 Review site plans for stormwater quality concerns	<i>Completed On going</i>	<i>Engineering has <u>developed checklist and calculation sheet</u> for easier project</i>	<i>Required for permits. SWPPP required for 1-5</i>	<i>L Pulie-WH, Engineering</i>	<i>Jul 1, 2017</i>	<i>Completed 7/1/2017.</i>	<i>Review required, routine or structure installation inspections required.</i>

		<i>review.</i>	<i>acres.</i>				
4-4 Conduct site inspections	<i>Completed On going</i>	<i>Inspectors log. Permit log with detention req. and date.</i>	<i>No. of permits. E& S complaint system, GW recharge and No net increase.</i>	<i>J Zebrowski-Eng M. Decker TPZ</i>	<i>Jul 1, 2017</i>	<i>Completed 7/1/2017</i>	<i>Routine or structure Installations Inspections required.</i>
4-5 Implement procedure to allow public comment on site development	<i>Completed On going</i>	<i>Q alert complaint/comment system-Public Hearings for larger projects.</i>	<i>No. of complaints, No. of Public hearings</i>	<i>J Wendt, B. Carey, W Hurley</i>	<i>Jul 1, 2017</i>	<i>Completed 7/1/2017</i>	<i>For minor project this could cause unnecessary delay? For larger or impact projects- process already in place.</i>
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	<i>Completed On going</i>	<i>Posted requirements. Included in Permit requirements.</i>	<i>No. of Permits No. of Website visits</i>	<i>L. Pulie W Hurley J. Wendt E. Harrigan, B C</i>	<i>Jul 1, 2017</i>	<i>Completed 7/1/2017.</i>	<i>In order to receive approval, Developer/Engineer must know SW permit requirements</i>
4-7 Continue Engineering requirements for WQ, runoff < 1 acre.	<i>Completed on going</i>	<i>Checklist, calculation sheet checklist</i>	<i>No. of permits. Applies to 200 sf or more.</i>	<i>L Pulie W Hurley</i>	<i>July 1, 2017</i>	<i>Completed July 1, 2017</i>	<i>Program implemented in 2005 has resulted in less abutter complaints.</i>
4-8 Continue Citizen Reporting Process via Phone, Q alert.	<i>Completed On going</i>	<i>Est. 30-100 complaints Town wide regarding drainage, SW issues.</i>	<i>No. of complaints, No. of complaints resolved.</i>	<i>First Selectman's Office</i>	<i>July 1, 2017</i>	<i>Completed 7/1/2017</i>	<i>Keeps record and result of complaint.</i>

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

*Continue and improve on stormwater compliance checklist for review process.
Propose or include MS4 permit requirements/ reference in Zoning Regulations.*

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 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	Pending	On site detention requirement. Investigate LID/BMP measures.	Establish legal authority – although in place through permit process.	J Wendt B.Carey W Hurley	Jul 1, 2021	Project July 2019	Conservation has had in this recommendation/requirement in place for several decades.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	<i>pending</i>	<i>No net increase in runoff required. To Reduce DCIA 1% consider existing impervious or LID</i>	<i>Establish legal authority – although in place through permit process</i>	<i>J Wendt B Carey W Hurley L Pulie Emmaline H.</i>	Jul 1, 2019	<i>Projected July 2019</i>	<i>Already considered for most projects. Enforcement through permit or bond process.</i>
5-3 Identify retention and detention ponds in priority areas	<i>On going</i>	<i>GIS and part time employees putting SW easements into GIS system</i>	<i>List/ map of Detention ponds in priority area</i>	<i>J Harris B. May B Hawks</i>	Jul 1, 2019	<i>Projected July 2019</i>	<i>Inspection of detention systems and structures scheduled for 2018-2019.</i>
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	<i>On going</i>	<i>Conservation Requirement</i>	<i>Release of bonds, certified maintenance reports</i>	<i>Conservation B Carey A Jacobson L Pulie</i>	Jul 1, 2019	<i>Completed July 2017.</i>	<i>Confirming all Detention ponds have maintenance plans? Nitrogen for LIS, Bacteria concerns</i>
5-5 DCIA mapping	<i>On going</i>	<i>MetroCOG, CLEAR and Fairfield GIS have impervious cover maps.</i>	<i>Record Map</i>	<i>Eng. J Harris-Eng MetroCOG</i>	Jul 1, 2020	<i>Completed and on going January July 1, 2018</i>	
5-6 Address post-construction issues in areas with pollutants of concern	<i>On going</i>	<i>Inspections, Q alert complaints, testing/Monitoring?</i>	<i>No. of inspections, no. of Q alert closeouts.</i>	<i>Engineering W Hurley L Pulie J Zebrowski</i>	Not specified	<i>Proposed 2020</i>	<i>Attend workshops for ideas. Use UCONN CLEAR/Listserve. Nitrogen for LIS, Bacteria concerns</i>
5-7 Involve Other Depts. Use Q alert System and GIS to identify problems	<i>On going</i>	<i>Roundtable meetings Inspections workshops</i>	<i>No. of meetings, Detailed report</i>	<i>W Hurley J Wendt B Carey J Harris L Pulie, EH, JZ</i>	July 1, 2017	<i>Completed and on-going</i>	<i>Last Roundtable discussion held Feb 8, 2018</i>

5-8 Bond Release Process	<i>On going</i>	<i>Conservation, TPZ requirement</i>	<i>Bond releases, certified maintenance reports</i>	<i>B. Carey J Wendt (TPZ)</i>	<i>July 1, 2017</i>	<i>Completed and on going.</i>	<i>Established practice always In progress.</i>
CONSIDER? Example additional BMP: <i>5-9 Investigate alternative retention pond maintenance options</i>	<i>Consider?</i>	<i>Example: Identified and received quotes from two companies that rent goats to eat overgrown weeds ????</i>	<i>ID sustainable means of maintaining town owned detention ponds</i>	<i>Public works ?</i>	<i>Not started</i>	<i>Jul 1 2018 ???</i>	<i>Reason for addition: ID sustainable means of maintaining town owned detention ponds</i>

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

*Have DPW clean or Hire company to maintain highest priority detention ponds.
For new or redevelopment, applicant responsible for retaining additional runoff and ½-1 inch runoff from existing land use/sources on site. Effective Oct 1, 2017 trial basis and implemented January 2, 2018.
All Gross Particle separators will be inspected and any that need to be maintenance will be cleaned.*

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA) est 37% of 30 Sq Mi.	11.1 sq. Miles
DCIA disconnected (redevelopment plus retrofits) 137 driveway, 275 detention permits	Est. 73.4 ac this year.
Est. .034 ac per drive, .10 ac DCIA each permit= 4.6 ac, 27.5 ac = 32.1 ac	73.4 ac= 0.049 sq. miles roughly 0.16 %.
Retrofits completed 137+ 275= 412 small projects. 1 small DPW project @ S'port RR parking	# 413
DCIA disconnected 2158 permits from 2012-2016= 216 ac = 0.34 sq. mi	0.16% this year / 1.1 % total since 2012
Estimated cost of retrofits 2100/ea,	\$865,200 inc. detent, gravel, labor, equip.
Detention or retention ponds identified (1-2 cleaning per year)	# 37 /# 50 est.
No. of Hydrodynamic separators, swirl concentrators, WQ Oil sep./chambers (Town Maint.)	52

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

2012 aerial photos, 2012 engineering, Conservation and TPZ development and permit records could take significant time. NEMO/CLEAR data stated 37 % impervious and estimated average impervious per permit. Assumes 0.1 acre impervious per permit for retrofit.



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 Develop/implement formal employee training program	annually	Training sign in sheet	Annual report	DPW, George K.	Jul 1, 2017	Completed 2016, Dec 2017	WPCF training as well. Dec 2017.
6-2 Implement MS4 property and operations maintenance	<i>On going</i>	<i>DPW to follow SWPPP for DPW yard and evaluate all Town buildings and facilities for use, storage, disposal of petroleum and other products</i>	<i>Highlight/follow maintenance schedule</i>	<i>DPW Scott Bartlett, George K. BOE, Police/Fire</i>	Jul 1, 2018	<i>Completed for DPW Projected July 2018 for Police, Fire</i>	<i>Confirm that BOE bus facility has own SWPPP and maintenance procedures. Leaf pickup, management of yard through contractors</i>
6-3 Implement coordination with interconnected MS4s	<i>On going</i>	<i>Initiated conversations with adjoining municipalities.</i>	<i>Sasco Brook watershed study and TMDL, Rooster River watershed plan</i>	<i>Engineering W Hurley</i>	Not specified	<i>On going</i>	<i>So far Coordinating with DOT and other Towns has been slow process.</i>
6-4 Develop/implement program to control other sources of pollutants to the MS4	<i>pending</i>	<i>Review plans for new construction Permits. Town facilities controlled by EPA phase 1, SWPPPs. Record # of oil tank removals. (101 for 2017)</i>	<i>Phase 1 requirements being met for Town facilities. # of oil tank removals</i>	<i>Scott Bartlett, George K (DPW) W. Hurley (Eng)</i>	Not specified	<i>Completed for permitted Town facilities. Expand review for other facilities.</i>	<i>Code enforcement for new development. Investigate or research for other sources via complaints, monitoring etc.</i>
6-5 Evaluate additional measures for discharges to impaired waters*	<i>pending</i>	<i>Watershed studies and investigations through Conservation, Health Dept, Fire and Engineering.</i>	<i>Identified problem areas or sites. 101 oil tank removals.</i>	<i>S. Cleary- Health B. Carey Conserv. W Hurley Eng D. McCarthy Fire</i>	Not specified	<i>On going</i>	<i>List and investigations of illicit discharges, spills and complaints and follow up investigations.</i>
6-6 Track projects that disconnect DCIA	<i>Complete and On going</i>	<i>Through permit process, development must address 0.5 -1 inch rainfall for existing impervious cover.</i>	<i>No of permits</i>	<i>L. Pulie –Eng W. Hurley – Eng J Harris-Eng.</i>	Jul 1, 2017	<i>Completed 7/1/2017 and On going</i>	<i>Tracking via permits and GIS. Assistance through MetroCOG available.</i>

6-7 Implement infrastructure repair/rehab program	<i>On going</i>	<i>Repairs performed via complaints and inspections</i>	<i>No. of repairs. Est 6 repairs this year.</i>	<i>George K. (DPW) J Zebrowski (Eng)</i>	Jul 1, 2021	<i>On going. Project 2021</i>	<i>Includes rebuilt catch basins, headwall repairs, cleaning outlets.</i>
6-8 Develop/implement plan to identify/prioritize retrofit projects	<i>Starting to collect data and permit info</i>	<i>Recording permit locations to list and/or GIS</i>	<i>Investigating to see if permits alone can reduce DCIA or if additional plans are necessary.</i>	<i>Engineering J Harris, L Pulie, W Hurley</i>	Jul 1, 2020	<i>Starting, on going, Projected 2020</i>	<i>Town will list key projects on 5 year capital improvement plan starting late 2018.</i>
6-9 Implement retrofit projects to disconnect 2% of DCIA	<i>On going</i>	<i>Hard to do for urbanized area. Permit process reducing DCIA. Town investigating reducing impervious areas when rehabilitation is needed</i>	<i>% reduction of DCIA or square foot reduction of impervious surface.</i>	<i>Engineering J Harris, L Pulie, W Hurley</i>	Jul 1, 2022	<i>Starting and on going,. Projected 2022.</i>	<i>Town investigating reducing impervious areas in ROW or on Town property.</i>
6-10 Develop/implement street sweeping program	<i>On going</i>	<i>Town has had plan for several years/decades.</i>	<i>DPW has schedule of sweeping program- 2 weeks to 1 yr cycle.</i>	<i>S. Bartlett DPW</i>	Jul 1, 2017	<i>Completed 7/1/2017 and on going</i>	<i>Still Exceeding requirements. Bi weekly-Monthly downtown, bi monthly key areas, annual every street.</i>
6-11 Develop/implement catch basin cleaning program	<i>On going</i>	<i>Town's schedule via plowing routes.</i>	<i>No. of CB cleaned or by route/region.</i>	<i>S. Bartlett DPW George K. DPW</i>	Jul 1, 2020	<i>Completed 7/1/2017 and on going</i>	<i>Maintenance based on past records, needs. Catch basins cleaned 0.5 to 3 year cycle.</i>
6-12 Develop/implement snow management practices	<i>On going</i>	<i>Last year DPW installed double wall brine tank.</i>	<i>Reduction of sand or chemicals</i>	<i>S Bartlett George K (DPW)</i>	Jul 1, 2018	<i>Completed 7/1/2017 and on going</i>	<i>Weather Dependent numbers can vary. Limited Budget may provide ways of decreasing applications.</i>
Considering????Example additional BMP: 6-13 Map & Inventory highly erosive areas in town ROW	<i>Not started</i>	<i>Collect information on eroding areas in ROW from highway maintenance personnel over course of normal operations</i>	<i>ID areas contributing large volume of sediment to town waterbodies</i>	<i>DPW- S Bartlett</i>	-	<i>July 1, 2020</i>	<i>Reason for addition: Reduce sedimentation of waterways near town ROWs</i>

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

Hold Roundtable discussion/meeting on how to reduce % chemicals, reduce salt and severely limit sand applications. Identify process for measurements to contractors for sand/sediment collection.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Apr 6 & Dec 28, 2017
Street sweeping- Fairfield Center, Southport and Grasmere	Every 2-4 weeks
Other Streets	annually
Street miles swept	270 miles
Volume (or mass) of material collected 1500 CY 100 pcf = 2025 tons estimated.	2025 tons
Catch basin cleaning	
Total catch basins in priority areas- assuming all	# 7541
Total catch basins in MS4	# 7541
Catch basins inspected----est. 2000, 1700 on plan, 300 per cb top complaints.	# 2000
Catch basins cleaned - est. 1700 cleaned, Shoreline routes were done this year.	Est # 1700
Volume (or mass) of material removed from all catch basins-measure collection bay	Est. 10 tons
Volume removed from catch basins to impaired waters (if known)-assume 100% 3cf/cb	Est. 10 tons
Snow management	
Type(s) of deicing material used	Salt, Calcium Chloride, Mg.
Total amount of each deicing material applied- 310 tons, 200 gal cc per storm + 500 gal pretreatment, if storm dictates.	3000 tons
Type(s) of deicing equipment used	sander jet, winter wizards
Lane-miles treated 270 mi x 2 lanes= 540 miles	540 miles
Snow disposal location	Jennings, Kiwanis, Mohegan parking lots
Staff training provided on application methods & equipment	12/28/2017
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (subcontracted out) (Town already using IPM)	0 lbs or 0 %
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)- Lake Mohegan, Ash Creek, Mill River open space	Signs.Pet waste bags provided.
Cost of mitigation actions/retrofits	\$ 200

6.4 Catch basin cleaning program

Briefly describe the method used to optimize your catch basin inspection and cleaning schedule. [\[Complete this section for the 2017 Annual Report only\]](#)

Town hires Contractor to clean out catch basins via snow plow (neighborhood) route and through Q alert/complaint system, if applicable. Catch basins that notoriously need cleaning soon on placed on priority list. Town also inspects headwalls before major storms that can lead to other catch basin cleanings.

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. [\[Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.\]](#)

Currently, there are no definitive plans for retrofits at this time. Fairfield Center green infrastructure study has been recently completed that gives the Town a list of potential projects. Engineering also has a few potential candidates but (unfunded mandate) budget concerns are putting them on hold. As a countermeasure, the Engineering Department has incorporated DCIA into its drainage requirements and new (or re) development proposals must address existing impervious surfaces that drain into Town systems or watercourses.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years. [\[Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.\]](#)

Currently, there are no definitive plans for retrofits at this time. Fairfield Center green infrastructure study has been recently completed that gives the Town a list of potential projects. Engineering also has a few potential candidates but (unfunded mandate) budget concerns are putting them on hold. As a countermeasure, the Engineering Department has incorporated DCIA into its drainage requirements and new (or re) development proposals must address existing impervious surfaces that drain into Town systems or watercourses. Conservation currently has a 10 post development to 2 year pre development requirement for wetland permit projects.

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years. [\[Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.\]](#)

Town hopes to apply for grant money to accomplish this goal. Otherwise it will list a few retrofit projects on its 5 year capital plan. Engineering will continue its reducing DCIA in its drainage requirements. Conservation currently has a 10 post development to 2 year pre development requirement for wetland permit projects.

Part II: Impaired waters investigation and monitoring [This section required beginning with 2018 Annual Report]

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.

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

2.1 Screening data collected under 2017 permit

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.

Outfall ID	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
<i>Ex. 6-3B</i>	<i>7/30/17</i>	<i>Bacteria</i>	<i>- E. coli 1,000 col/100ml - T Coliform 600 col/100ml</i>	<i>Chemworks</i>	<i>Yes</i>

2.2 Credit for screening data collected under 2004 permit

If any outfalls to impaired waters were sampled under the 2004 MS4 permit, that data can count towards the monitoring requirements under the modified 2017 MS4 permit. Complete the table below to record sampling data for any outfalls to impaired waters under the 2004 MS4 permit.

Outfall	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
<i>Ex. 1-1A</i>	<i>11/4/16</i>	<i>Nitrogen</i>	<i>TN - 1.5 mg/l</i>	<i>Chemworks</i>	<i>No</i>
<i>Ex. 1-1B</i>	<i>10/15/16</i>	<i>Nitrogen</i>	<i>TN - 5.2 mg/l</i>	<i>Chemworks</i>	<i>Yes</i>

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
<i>Ex. 1-1B</i>	<i>Completed investigation of outfall drainage area – athletic field complex drains into waterbody</i>	<i>Reduce fertilizer use on fields and create 50 foot vegetated buffer.</i>

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, 2020.

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

Part III: Additional IDDE Program Data [This section required beginning with 2018 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
4011-00-2-R3	High Priority	3
4000-33-2-R2	Low Priority	10

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
6-4A	3/20/17	0.3 mg/l	Not detected	400 uS/cm	0.4 ppt	E. coli 200 col/100ml	0.2 mg/l	15 C	n/a	No
6-4B	3/20/17	-	-	-	-	-	-	-	-	Evidence of prior dry weather flow – raised priority of catchment investigation

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
<i>1-1C</i>	<i>Mill River</i>	<i>1, 3, 5, 6, 8</i>

Where SVFs are:

- History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
- Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
- Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
- Common or twin-invert manholes serving storm and sanitary sewer alignments.
- Common trench construction serving both storm and sanitary sewer alignments.
- Crossings of storm and sanitary sewer alignments.
- Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
- 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.
- 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:
Signature / Date:	Signature / Date:

Storm Water Appendix

Search Requests		Q	Refresh	Map	KB	
ID	Request Type	Address	Create Date	Last Action	Submitter	Priority
51576	Drainage - Engineer	441 KATONA DRIVE Fairfield	5/8/2017 11:19a	11/16/2017 11:21a	HILARY KORDESA	2
50282	Drainage - Engineer	149 HIGH RIDGE ROAD Fairfield	4/5/2017 12:20p	11/16/2017 11:26a	Robert DEWEY	2
39716	Drainage - Engineer	150 HENDERSON ROAD Southport	4/12/2016 2:12p	11/16/2017 11:19a	Scott WATSON	2
63979	Drainage - Engineer	177 WELCH TERRACE Fairfield	1/12/2018 2:42p	1/26/2018 2:47p	DONNA BARBO	2
51117	Drainage - Engineer	46 HERSH ROAD Fairfield	5/2/2017 12:02p	12/19/2017 1:00a	Richard FRANK	2
53179	Drainage - Engineer	CAMPBELL ROAD Fairfield	6/20/2017 4:31p	11/16/2017 11:19a	MARK GRONMAN	2
32236	Drainage - Engineer	1520 ROUND HILL ROAD Fairfield	7/24/2015 9:07a	11/16/2017 11:18a	CARISSA WOMER	2
32698	Drainage - Engineer	100 BIRCHWOOD DRIVE Fairfield	8/10/2015 10:09a	11/16/2017 11:18a	Dan FRANK	2
36194	Drainage - Engineer	32 OLD ELM ROAD Fairfield	12/14/2015 12:14p	11/16/2017 11:19a	KIMBERLY WORM...	2
20797	Drainage - Engineer	47 ABBEY RD Fairfield	5/30/2014 9:11a	11/16/2017 11:17a	JAMES MURKIN	2
25590	Drainage - Engineer	268 BULKLEY DRIVE Fairfield	12/9/2014 1:54p	11/16/2017 11:17a	RICHARD FRANK	2
21254	Drainage - Engineer	304 HUNYADI AVENUE Fairfield	6/12/2014 12:47p	11/16/2017 11:18a	Deborah FRANK	2
59465	Traffic - Engineering	1795 CONGRESS STREET Fairfield	8/15/2017 10:45a	10/19/2017 11:50a	JOHN FRANKS	2
51681	Traffic - Engineering	POST ROAD and ROUND... Fairfield	5/10/2017 2:06p	5/24/2017 2:13p	EDWARD FRANKS	2
37100	Street Light - Engineering	KENARD STREET and KEN... Fairfield	1/22/2016 3:49p	4/27/2017 1:26p	MONICA FRANK	2
43846	Sidewalk - Engineer	EDWARD STREET and FO... Fairfield	8/23/2016 11:01a	9/6/2016 2:35p	RESIDENT	2
32899	Sidewalk - Engineer	208 REEF ROAD Fairfield	8/17/2015 9:01a	8/31/2015 9:02a	Chris FRANKS	2
28734	Sidewalk - Engineer	803 MILL PLAIN ROAD Fairfield	4/1/2015 2:13p	4/15/2015 2:16p	WILLIAM FRANKS	2

18 requests found

Sample of Complaints via Q alert

Storm Water Plan Review

Property Information

Date: _____ Address: _____
 Name: _____ Contact: _____
 Reviewed By: _____

Type of Retention Required

- 10 Year Storm
 Storm Water Quality 2005 or newer
 New Construction

10 Year Storm

Type of Development	<input type="checkbox"/> Addition	Square Feet	_____
	<input type="checkbox"/> Additional Story	Square Feet	_____
	<input type="checkbox"/> New Building	Square Feet	_____
	<input type="checkbox"/> New Driveway	Square Feet	_____
	<input type="checkbox"/> Driveway Addition	Square Feet	_____
	<input type="checkbox"/> Patio/Walk	Square Feet	_____
	<input type="checkbox"/> Covered Deck	Square Feet	_____
	<input type="checkbox"/> Other	Square Feet	_____

Calculations

Total Impervious Square Feet _____
 Required Cubic Feet (sf x 0.31) _____

Required Storage

- Cultech (or equal) Units _____
 Rain Garden Size _____
 Stone Trench Size _____

Storm Water Quality

Storm Water Contributes To Street Within 75' Square Feet _____
 Water Within 75' Square Feet _____
 Non Contributing

Roof Leaders Above Ground Below Ground

Calculations

Total Impervious Square Feet _____
 Cubic Feet 1" Runoff (sf / 12) _____ Cubic Feet 1/2" Runoff (sf x 0.5 / 12) _____

Required Storage

- Cultech (or equal) Units _____
 Rain Garden Size _____
 Stone Trench Size _____

Notes



Invoice

Date: February 08, 2018

Invoice No: 33076

Town of Fairfield (CT)
725 Old Post Road
Fairfield CT 06824

Project 1775.001
Development of a Watershed Plan for the Mill River

Task 1 Project Management and watershed characterization including watershed description and conditions analyses. Characterized point and non point sources. Pre-processed pollutant modeling data and initiated data request from Aquarion.

Professional services from January 1, 2018 to January 31, 2018

Task: 01 Development of a Watershed Based Plan

Fee

Total Fee

Percent Complete

Total Earned

Previous Fee

Current Fee Billing

Total Fee

Total This Task

Total this Invoice

TERMS: NET 30 DAYS

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- 203 Exton Commons • Exton, PA 19341 • t. 610.524.4220 • f. 610.524.9434
- 931 Main Street • Suite 2 • South Glastonbury, CT 06073 • t. 860.652.8911 • f. 860.652.8922

Calibri 11 Font Alignment Number Styles Cells Editing

Wrap Text Merge & Center Conditional Formatting Table

Normal Bad Good Neutral Calculation Check Cell

AutoSum Fill Clear Sort Filter

C	D	E	F	G	H
Driveway Apron New		30 LEE DRIVE		FAIRFIELD	
Onsite Detention New		30 LEE DRIVE		FAIRFIELD	See engineered site plan
Driveway Apron New		488 SOUTH PINE CREEK RC		FAIRFIELD	
Driveway Apron New		86 EDWARD STREET		FAIRFIELD	
Onsite Detention New		86 EDWARD STREET		FAIRFIELD	14 Cultec 330'2
Onsite Detention New		278 PENFIELD PLACE		FAIRFIELD	Contractor to be infiltrators into town storm line.
Onsite Detention New		355 PINE CREEK AVENUE		FAIRFIELD	Install 2' stone trench along the front of new garage.
Onsite Detention New		140 FAIR OAK DRIVE		FAIRFIELD	5 Cultec 330's. Wait Stapleton - site monitor
Driveway Apron New		187 CATHERINE TERRACE		FAIRFIELD	
Onsite Detention Addition		253 CATHERINE TERRACE		FAIRFIELD	Owner will install 21" x 2" w x 3-6" deep stone trench. LMP
Onsite Detention Addition		243 VERNIA HILL ROAD		FAIRFIELD	Swap demo for new
Onsite Detention Addition		237 GREENFIELD HILL ROAD		FAIRFIELD	8-150 recharge or equal for new addition (SL)
Driveway Apron New		115 MAILANDS ROAD		FAIRFIELD	
Onsite Detention New		184 SOUTH GATE LANE		SOUTHPO	Contractor to install 8 Cultec 330's or equal for new pool.
Onsite Detention Addition		1605 MELVILLE AVENUE		FAIRFIELD	2 Cultec 150's or equal
Onsite Detention Addition		175 JOHN STREET		SOUTHPO	5 Cultech 150 or equal per engineered site plan
Driveway Apron New		1859 FAIRFIELD BEACH ROAD		FAIRFIELD	
Onsite Detention Addition		194 MILLARD STREET		FAIRFIELD	3 - Cultec 150's or equal
Driveway Apron Repair		185 FLOWER HOUSE DRIVE		FAIRFIELD	
Onsite Detention New		21 GALLOPING HILL ROAD		FAIRFIELD	(8) 150's or (4) 330 rechargers
Onsite Detention New		749 FAIRFIELD BEACH ROAD		FAIRFIELD	No detention required reduction in impervious surface, constructing elevated dwelling in place of damaged structure from Sandy
Onsite Detention New		140 COLLEGE PLACE		FAIRFIELD	House being elevated, no detention needed.
Onsite Detention New		198 FAIRFIELD BEACH ROAD		FAIRFIELD	Install 8 units of Cultech 330XLHD or equal. Driveway permit needed. (removed requirement for driveway as will be gravel, reduced original amount of 12 units to 8 units - 71714 LMP
Onsite Detention New		200 DUNNLEA ROAD		FAIRFIELD	Install (3) Cultech Rech 150 or 1- Cultech 330 with 12" of stone under and sides or equal. LMP
Driveway Apron New		125 JENIFORD ROAD		FAIRFIELD	
Onsite Detention Addition		135 POPE STREET		FAIRFIELD	Install 2 - 330's with 12" stone all around or 4 - Cultech 150's or equal. LMP
Onsite Detention New		2576 REDDING ROAD		FAIRFIELD	Contractor to install 12 Cultec 150's per plan.
Driveway Apron New		240 CREST TERRACE		FAIRFIELD	
Driveway Apron New		242 OLD FARM LANE		FAIRFIELD	
Onsite Detention New		90 HARVESTER ROAD		FAIRFIELD	Contractor to install 3 Cultec 150's or equal for new garage.
Driveway Apron New		185 HURD STREET		FAIRFIELD	
Onsite Detention Repair		51 EUNICE AVENUE		FAIRFIELD	elevating structure- storm damage, adding addition over existing structure, no increase in footprint. LMP

Example of list

Driveway + Detention Permits

Engineering Dept has complete list.



outfalls +
catchments

