

Part II. Self-Assessment

The US Coast Guard Base Cape Cod (BCC) has completed the required self-assessment and has determined that this federal facility is in compliance with all permit conditions. Measurable Goals identified for Permit Year 13 were attained. Coast Guard Base Cape Cod continues to focus on enhancing the quality of stormwater.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	Welcome Aboard Packet	Environmental Health & Safety (EHS) / Marc Robert	Distribute a Welcome Aboard Package, containing information about the environment and stormwater pollution prevention	New members sign form documenting that they acknowledge the environmental and stormwater pollution prevention programs discussed. Signatures maintained on file in EHS.	Continue with activity
2.	Educational Pamphlet	EHS / Marc Robert	Develop educational pamphlet/ fact sheet for distribution	Stormwater pollution prevention pamphlet developed and distributed at various functions.	Continue with activity
3.	Water Quality Report (Consumer Confidence Report)	EHS / Marc Robert	Include Stormwater Pollution Prevention paragraph in annual Water Quality Report	Article about stormwater included in the 2014 Water Quality Report, which was published and distributed in the summer of 2015 to 3,000 staff, military personnel and residents on Joint Base Cape Cod (JBCC - formerly MMR). Reports are also offered to arriving personnel as part of the Welcome Aboard Package/ discussion.	Continue with activity

4.	Annual Awareness Training Presentation	EHS / Marc Robert	Conduct Stormwater Pollution Prevention presentation to all Facilities Engineering Department (FED) personnel	Stormwater Pollution Prevention and SPCC presentations were provided to all USCG FED personnel on 5 Nov 2015. Incoming personnel are provided Stormwater Pollution Prevention and SPCC training.	Continue with activity
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2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	Coordinate with other agencies on Joint Base Cape Cod	EHS / Marc Robert	The Environmental and Energy Committee, which has representatives from all Commands on JBCC, will add to meeting agenda (as appropriate) water quality and stormwater pollution prevention initiatives, share SWPPP information and support each other in implementation of the plan.	The Environmental and Energy Committee met quarterly in PY13. In addition, the Housing Advisory Council (HAC) represents all Commands on JBCC and has members whom live on Base meets monthly. Water quality and stormwater pollution prevention initiatives for base housing are passed through the HAC meets monthly.	Continue with activity

2.	Trash pickup volunteer day	Housing / Terry Krout	Reduce litter and other solids from storm drains and water ways. Coordinate efforts with general public to clean up public lands around watersheds	Fall clean up conducted the third week in October 2015. Spring clean up conducted the third week in April 2015. Approximately 120 personnel participated in both events. Organized additional curbside pick- up of bulk items from housing units April 2015 and October 2015.	Continue with activity
3.	BCC household hazardous waste collection	EHS / Neil Gibb	Provide specific dates/times for BCC residents to drop off household hazardous waste at the BCC Recycle Center	BCC held two household hazardous waste collection events in PY13: May 30, 2015 and June 27, 2015.	Continue with localized household hazardous waste collection. BCC will be holding a minimum of 2 Household HazWaste collection events per year.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	Map storm drains	EHS / Marc Robert	Develop storm drain map	Map developed. Latest addition 1/30/03.	Revise as needed to include 2016 MS4 mapping requirements.
2.	Illicit Discharge Detection and Elimination Program	EHS / Marc Robert	Develop Illicit Discharge Detection and Elimination Program	Previously included in a prior version of the EMS. Incorporated in all NEPA reviews.	Include document as required of the 2016 MS4 Stormwater Management Program.

4.	Auto Hobby Shop	EHS / Marc Robert	Open an Auto Hobby Shop for use by residents as a location for free self service maintenance of vehicles to minimize illicit discharges from vehicle maintenance and improper disposal of waste oils, gasoline, antifreeze and solvents.	The Auto Hobby Shop opened in May 2009. The shop was fully contained indoors and no floor drains exist in the facility. The manager was trained in Hazardous Waste Management and spill prevention. The facility was inspected weekly as part of our pollution prevention program.	The Auto Hobby Shop was dismantled in November 2015 due to the facility being required for a central hazardous material pharmacy. A new Auto Hobby Shop will be opened when a suitable location is identified.
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4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	Stormwater assessment at Pre-Construction Meetings	EHS/ Marc Robert	Pre-construction meetings held between Facility Engineering, contractors, COR (Contracting Officer Representative) and EHS	Pre-construction meetings are held formally or informally project dependant. Ensure all environmental and safety issues are covered.	Continue with activity
2.	Stormwater assessment as part of NEPA review.	EHS/ Marc Robert	Identify stormwater impacts and requirements at the time of the NEPA Review.	All projects were assessed during NEPA review. One project required a Stormwater Construction Permit in this reporting year.	Continue with activity

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	Post-construction run-off minimization	EHS / Marc Robert	Develop a process to identify post-construction run-off to prevent/ minimize impacts to water quality	Restoration of property is part of the contract, i.e. erosion control. The CG assigns a COR officer to all construction projects. The COR will not sign off on completion of the project (and payment is withheld) unless restoration of the property has occurred. This is part of the COR job requirement. One construction project was inspected for post construction run-off minimization this PY.	Continue with activity

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	EMS procedures for good housekeeping requirements	EHS / Marc Robert	Develop procedures in the EMS to address good housekeeping requirements.	Procedures will be included in the MS4 2016 Stormwater Management Program and referred to in the 2016 EMS revision. Good housekeeping requirements are also identified in the BCC MSGP Stormwater Pollution Prevention Plan.	Continue with activity

2.	Employee Training	EHS / Marc Robert	Conduct annual training for all personnel to provide them updates of any BMPs and new requirements for them while performing their jobs.	Stormwater Pollution Prevention and SPCC training was provided to applicable personnel on 5 November 2015.	Continue with activity
3.	Catch basin cleaning	FED / Bob Burt and Dave Riordan	Identify critical basin for cleaning and clean within in a two-year cycle.	Monitoring was conducted PY13; all catch basins were in fair to good condition. Four basins were cleaned in PY13.	Continue with activity
4.	Street Cleaning	FED / Dave Riordan	Sweep all city streets at least annually. Sweeping begins after the last snow/ frost and continues until completion	On going	Continue with activity
5.	Salt/ sanders maintenance	FED / Dave Riordan	Perform annual maintenance on salt/ sander to ensure proper function and set the dispersing rate to minimize dumping of loads.	On going	Continue with activity

6.	Upper Cape Cod household hazardous waste collection	EHS / Elizabeth Kirkpatrick	Volunteer at the Upper Cape Cod household hazardous waste collection. Over 50 tons of hazardous waste diverted from contaminating water quality.	BCC no longer volunteers in the quarterly Upper Cape Cod regional household hazardous waste collection program; however, residents are encouraged to utilize this resource. In addition, BCC maintains an extensive hazardous waste collection and recycling program for our residents. Two BCC household hazardous waste collection events were held in PY13.	Continue with localized household hazardous waste collection.
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7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<Not Applicable>>

Part IV. Summary of Information Collected and Analyzed

The US Coast Base Cape Cod is committed to water quality. Although sustainable management of natural resources has been a priority for Base Cape Cod for many years, the NPDES Phase II Small MS4 Permit Program contributed to the evolution of successful management techniques and shift in cultural awareness. No data collected during Permit Year 13 requires further elaboration.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2015 through March 31, 2016)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	y
Annual program budget/expenditures **	(\$)	n/a
Total program expenditures since beginning of permit coverage	(\$)	n/a
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		n/a

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	3000
Stormwater management committee established	(y/n)	y
Stream teams established or supported	(# or y/n)	n/a
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	n/a
Shoreline cleaned since beginning of permit coverage	(mi.)	n/a
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	2 days/ year
▪ community participation **	(# or %)	n/a
▪ material collected **	(tons or gal)	50 gallons
School curriculum implemented	(y/n)	n/a

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
Regulatory Mechanism Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X
Accompanying Regulation Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	43
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	0%
▪ CADD	(%)	100%
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	100%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100%
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	1
Illicit connections removed **	(#); and (est. gpd)	1
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	all
% of population on sewer	(%)	100%
% of population on septic systems	(%)	0%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	1
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	3
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	0

Post-Development Stormwater Management

(Preferred Units) Response

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	n
Low-impact development (LID) practices permitted and encouraged	(y/n)	y

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	as needed
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	as needed
Qty of structures cleaned **	(#)	4
Qty. of storm drain cleaned **	(%, LF or mi.)	80LF
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	.5 ton
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Beneficial use on site
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	n/a
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	federal facility
• Disposal cost**	(\$)	n/a
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	0
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	n
• % Structures cleaned with clam shells **	(%)	0
• % Structures cleaned with vector **	(%)	0

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	6/yr
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	6/yr
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	7 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	beneficial use onsite
Annual Sweeping Costs		40 man hours for 20 miles
<ul style="list-style-type: none"> Annual budget/expenditure (labor & equipment)** 	(\$)	n/a
<ul style="list-style-type: none"> Hourly or lane mile contract rate ** 	(\$/hr. or ln mi.)	n/a
<ul style="list-style-type: none"> Disposal cost** 	(\$)	n/a
Sweeping Equipment		
<ul style="list-style-type: none"> Rotary brush street sweepers owned/leased 	(#)	1 owned
<ul style="list-style-type: none"> Vacuum street sweepers owned/leased 	(#)	1 owned
<ul style="list-style-type: none"> Vacuum street sweepers specified in contracts 	(y/n)	0
<ul style="list-style-type: none"> % Roads swept with rotary brush sweepers ** 	%	100
<ul style="list-style-type: none"> % Roads swept with vacuum sweepers ** 	%	0 (sidewalks only)

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
<ul style="list-style-type: none"> Fertilizers 	(lbs. or %)	No reduction
<ul style="list-style-type: none"> Herbicides 	(lbs. or %)	11% decrease from previous year
<ul style="list-style-type: none"> Pesticides 	(lbs. or %)	No reduction
Integrated Pest Management (IPM) Practices Implemented	(y/n)	yes

	(Preferred Units)	Response
<p>Average Ratio of Anti-/De-Icing products used **</p> <p>(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)</p> <p>Due to the steep grade in the vicinity of the single drinking water well protection area salt is applied as minimally feasible for safety.</p> <p>*Based on MADOT 2010 Road Salt and Sand study BCC implemented Pre-Wetting and near elimination of Sand to align more with State Environmental goals.</p>	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	*90% 10%
Pre-wetting techniques utilized **	(y/n or %)	yes
Manual control spreaders used **	(y/n or %)	no
Zero-velocity spreaders used **	(y/n or %)	no
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	+100 lbs/ mile
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	-10 lbs/mi
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	no
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	yes

Water Supply Protection

Stormwater outfalls to public water supplies eliminated or relocated	# or y/n	n
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	n
<ul style="list-style-type: none"> Treatment units induce infiltration within 500-feet of a wellhead protection area 	# or y/n	n