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Municipality/Organization: Town of Middleborough, Massachusetts
EPA NPDES Permit Number: MAR041134
MADEP Transmittal Number: W-040722
Annual Report Number & Reporting Period: No. 5: March 2007-March 2008

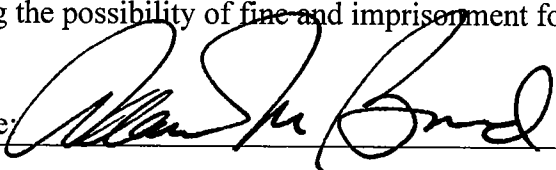
NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Steve Lombard **Title:** Town Manager
Telephone #: (508) 947-0928 **Email:** slombard@middleborough.com

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 

Printed Name: Adam Bond

Title: Chairman, Board of Selectmen

Date:

Part II. Self-Assessment

The Town of Middleborough, Massachusetts has completed the required self-assessment and has determined that, based on existing information, our municipality is in compliance with the conditions of the permit. The exception to this statement is where implementation of our six minimum control measures was not fully completed according to schedule, as detailed in Part III.

Part III. Summary of Minimum Control Measures

The town has made significant progress on implementation of the Six Minimum Control Measures during this permit year. All Best Management Practices (BMPs) listed in our July 2003 Notice of Intent were implemented, with minor exceptions. Please see Table III, Summary of Minimum Control Measures (Attachment A) for a listing of the completed BMPs. Since this is the last year governed under the 2003 Notice of Intent, the town also provides the following detailed analysis of the exceptions:

- 2a – Expand the Citizen’s Advisory Committee: Although a Citizens Advisory Committee was created, the town has been unable to maintain involvement and activity in this committee. At this point, the town plans to pursue other Public Participation efforts that will, hopefully, be more successful.
- 2d – Implement a Catch Basins Stenciling Program: Although the town has obtained catch basin stencils, the actual stenciling has not yet been completed. Stenciling is scheduled for summer 2008.
- 3a – Map Outfalls and Receiving Waters: Middleborough has been working on a town-wide inventory of drainage infrastructure that includes catch basins, drain manholes, and outfalls. This project also includes physically locating outfalls for each of the catch basins, collecting Global Positioning System (GPS) data on the outfalls, and adding the GPS data to the existing drainage layer in the town’s Geographic Information System (GIS). However, due to the total land area in Middleborough, this task has taken far longer than anticipated. Based on a total number of paved streets in Middleborough estimated at around 380, inventory of catch basins and outfalls was completed on approximately 297 streets, or about 77%. It has also been determined that approximately 250 streets, or about 65% of the total streets, are located within the Urbanized Area. Within the Urbanized Area, inventory of catch basins and outfalls was completed on an estimated 160 streets, or about 65% of the total streets in the Urbanized Area. The town will continue to work towards inventory of all catch basins and outfalls in the Urbanized Area.
- 3e – Present [IDDE] Bylaw for Town Meeting Action: The town has reviewed existing regulatory mechanisms relating to illicit discharges to assess compliance with its stormwater permit and made recommendations for modifications to these regulatory mechanisms. These modifications will be presented for action at Town Meeting fall 2008.

- 4e – Present [CSRC] Bylaw for Town Meeting Action: The town has reviewed existing regulatory mechanisms relating to CSRC to assess compliance with its stormwater permit and made recommendations for modifications to these regulatory mechanisms. These modifications will be presented for action at Town Meeting fall 2008.
- 5e – Present [PCRC] Bylaw for Town Meeting Action: The town has reviewed existing regulatory mechanisms relating to PCRC to assess compliance with its stormwater permit and made recommendations for modifications to these regulatory mechanisms. These modifications will be presented for action at Town Meeting fall 2008.
- 6e – Perform Follow-ups to Ensure Required Practices are Met: The town completed stormwater audits at each of its 30 municipally owned buildings and provided stormwater training to municipal employees. The town has not yet completed follow-up audits.

The town is continuing to work towards completing implementation of these BMPs, and hopes to have them all in place by the end of the 2008 calendar year.

Part IV. Summary of Information Collected and Analyzed

Since the last annual report, the town has collected a great deal of information regarding its stormwater infrastructure, including a delineation of all municipally-owned roadways located within the Urbanized Area, a determination of what streets contain municipal catch basins, and field investigations to actually locate and GPS stormwater outfalls. The Urbanized Area, as well as GPS data points collected for stormwater outfalls thus far, are being added to the existing drainage layer in town's GIS mapping.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	<i>No. Responsibilities split under Highway, Planning, & Conservation.</i>
Annual program budget/expenditures	(\$)	<i>SW not separate budget.</i>

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	?
Stormwater management committee established	(y/n)	<i>See discussion in Part III.</i>
Stream teams established or supported	(# or y/n)	<i>No.</i>
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	<i>NA.</i>
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	<i>Wastes collected at town LF during all normal operating hours.</i>
▪ community participation	(%)	?
▪ material collected	(tons or gal)	<i>Please see Attachment B.</i>
School curricula implemented	(y/n)	<i>None specifically under this program</i>

Legal/Regulatory	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination			X	
▪ Erosion & Sediment Control	<i>Note 1</i>		X	
▪ Post-Development Stormwater Management	<i>Note 1</i>		X	
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination			X	
▪ Erosion & Sediment Control	<i>Note 1</i>		X	
▪ Post-Development Stormwater Management	<i>Note 1</i>		X	

Notes: 1 Topic addressed in existing town policy, bylaws, ordinances, or other regulatory mechanism; however, review/revisions specific to stormwater completed/drafted.

Mapping and Illicit Discharges

Outfall mapping complete	(%)	<i>Please see discussion under BMP 3a in Section III.</i>
Estimated or actual number of outfalls mapped	(#)	75
System-Wide mapping complete	(%)	<i>10% on GIS drainage layer.</i>
Mapping method(s)		
▪ Paper/Mylar	(%)	<i>Record drawings exist for individual drainage projects and developments, but are not filed/catalogued. Approximately 90% of outfalls located during PER were mapped with GPS and added to town GIS system. Schematic (not GPS) mapping of known drainage components was added to town GIS via PER.</i>
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	<i>Initial wet-weather sampling attempted on 14 outfalls; samples taken @ 10 outfalls.</i>
Illicit discharges identified	(#)	<i>None.</i>
Illicit connections removed	(#) (est. gpd)	<i>NA.</i>
% of population on sewer	(%)	33%
% of population on septic systems	(%)	67%

Construction

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

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	2-3
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	2-3
Total number of structures cleaned	(#)	405
Storm drain cleaned	(LF or mi.)	NA
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	See Attach. C
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		LF
Cost of screenings disposal	(\$)	\$75/ton
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	2/yr
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	2/wk summer
Qty. of sand/debris collected by sweeping	(lbs. or tons)	See Attach. C
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	LF
Cost of sweepings disposal	(\$)	NA-town LF
Vacuum street sweepers purchased/leased	(#)	None
Vacuum street sweepers specified in contracts	(y/n)	NA
Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	NA
▪ Herbicides	(lbs. or %)	NA
▪ Pesticides	(lbs. or %)	NA
Anti-/De-Icing products and ratios (% NaCl, % CaCl ₂ , % MgCl ₂ , % CMA, % Kac, % KCl, % Sand)	(%)	100%NaCl
Pre-wetting techniques utilized	(y/n)	No
Manual control spreaders used	(y/n)	Yes
Automatic or Zero-velocity spreaders used	(y/n)	No
Estimated net reduction in typical year salt application	(lbs. or %)	NA.
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	NA.

ATTACHMENT A

Table III
Summary of Minimum Control Measures

BMP ID#	Best Management Practice	Progress on Goal - Permit Year Five
1. Public Education		
1a	Distribute/post non-point source pollution posters	Education posters were put up in schools and town offices.
1b	Air stormwater message on local cable access	cy stormwater messages were added to the town website.
1c	Obtain and distribute auto repair shop brochure	Information mailed town-wide to businesses believed to have
1d	Add stormwater information to town's Website	s added to website.
2. Public Participation		
2a	Expand Citizen's Advisory Committee	ility to maintain public involvement/action.
2b	Collect and recycle waste oil from residents	ction and recycling offered at town landfill.
2c	Collect paint from residents	o offered at town landfill.
2d	Implement a Catch Basin Stenciling Program	ed; stenciling to be completed summer 2008.
3. Illicit Discharge Detection and Elimination		
3a	Map outfalls and receiving waters	ch basins, drain manholes, and outfalls under development. Under BMP 3a in Section III.
3b	Review existing bylaws and regulations	atory mechanisms reviewed.
3c	Develop Illicit Discharge Detection & Elimination	
3d	Develop/Modify General Illicit Discharge Bylaw	rafted.
3e	Present Bylaw for Town Meeting Action	008 Town Meeting.
4. Construction Site Runoff Control		
4a	Review existing site inspection practices	spection practices reviewed.
4b	Develop/modify site inspection program	ons required.
4c	Review existing bylaws and regulations	atory mechanisms reviewed.
4d	Develop/modify bylaw for construction site runoff	rafted.
4d	Present Bylaw for Town Meeting Action	008 Town Meeting.
5. Post Construction Runoff Control		
5a	Review existing site inspection practices	spection practices reviewed.
5b	Develop/modify inspection and maintenance program	ons required.
5c	Review existing bylaws and regulations	atory mechanisms reviewed.
5d	Develop/modify bylaws for post-construction runoff	srafted.
5e	Present Bylaw for Town Meeting Action	008 Town Meeting.
6. Municipal Good Housekeeping		
6a	Street sweeping program	g performed by DPW.
6b	Catch basin cleaning program	spection and cleaning performed by DPW.
6c	Perform site visits to examine existing practices	its performed at 30 municipal properties.
6d	Train municipal employees at each town facility	municipal employees performed.
6e	Perform follow-ups to ensure required practices	

ATTACHMENT B

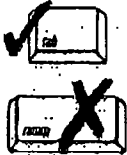
Recycling Quantities



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention
2007 Municipal Recycling & Diversion Data Sheet
For the calendar year ending December 31, 2007

Email, mail, or fax ONE COPY to:	MassDEP Recycling Surveys One Winter Street, Boston, MA 02108 Fax: 617-292-5858 Email: Julia.Wolfe@state.ma.us Questions: Julia Wolfe, 617-292-6987	Keep ONE COPY for your records.
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Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return
key.



1. Municipal Information

Please note: MassDEP provides this information to people who call with questions about your municipal solid waste/recycling program and may publish it on the Web.

<u>TOWN OF MIDDLEBORO</u>	<u>22,340</u>
Name of Municipality	Estimated Population
<u>Donald A. Boucher</u>	<u>Highway Superintendent</u>
Recycling Program Contact Name	Title
<u>48 Wareham Street</u>	
Street Address	
<u>Middleboro</u>	<u>MA</u> <u>02346</u>
City/Town	State Zip Code
<u>508-946-2481</u>	<u>highway@middleborough.com</u>
Telephone	Email Address
<u>Curbside</u>	<u>Curbside</u>
Primary Solid Waste Collection Method	Primary Recycling Collection Method
Recycling Collection Frequency: ☒ Biweekly Curbside ☐ Weekly Curbside ☐ Drop-Off	

2. Tons of Residential Municipal Solid Waste Disposed

Important Notes:

- Residential Municipal Solid Waste (MSW) disposed should include trash from: single family or multi-family housing, apartments and condominiums served by the municipal curbside or drop-off program, and residential customers in your municipality served by subscription haulers.
- If the private hauler tonnage is unknown, MassDEP will estimate that tonnage based on the number of households subscribing privately.
- Indicate where your municipality, or its contractor, disposes of its residential MSW, your contract end date (if applicable), and the tonnage of residential MSW disposed of at each facility.
- If your residential MSW goes to a transfer station, enter the name of the final disposal location (if you have a long-term contract with a landfill or combustion facility) in addition to the name of the transfer station and tonnage disposed.
- DOUBLE CHECK THE ACCURACY OF YOUR DISPOSAL TONNAGES.** Errors made in reporting will seriously misrepresent your municipality's recycling rate.

	Disposal Site/Transfer Station	Contract End Date (If any)	Tons Disposed
Landfill			
Combustion	<u>SEMASS</u>		<u>6,635.60</u>
Bulky Waste Disposal	Any bulky waste collected for disposal and NOT INCLUDED in landfill or combustion tonnage number above.		<u>1,264.29</u>
Commercial Waste Disposal	Any commercial (i.e. non-residential) MSW collected for disposal and INCLUDED in landfill or combustion tonnage number above.		
C&D Waste Disposal	Any C&D waste collected for disposal and INCLUDED in landfill or combustion number above		
Total Tons Disposed	Landfill + Combustion + Bulky MINUS Commercial =		<u>7,899.89</u>



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3. Residential Solid Waste & Recycling Services

- Please note that the sum of the number of households you report as served in each category should equal the total number of occupied households in your municipality and should reflect the ACTUAL number served, as opposed to those that could POTENTIALLY use that service. In the case of drop-off service, this would mean counting only those households that purchased stickers. In the case of curbside collection, this would mean the actual number of households that the town or its contractor collects from.
- If you are unsure about the total households or total households served in your municipality, please consult *Number of Households and Population by Municipality for Use With Municipal Recycling Data Sheet Reporting* at www.mass.gov/dep/recycle/approvals/dswmpu03.htm, which contains the most recent municipal household and population figures reported to MassDEP.
- Complete the information in all of the appropriate boxes that apply to residential MSW services operated or contracted by the municipality, and services provided to residents by private subscription. Please note that if you do not report disposal tonnage for residents who subscribe with private haulers then MassDEP will estimate that tonnage and include it in your total tons disposed based on the household information provided.

Total occupied households in your municipality: 9,835
Number

Type of Service	Curbside Collection by Municipality	Municipality Contracts w/Hauler	Residents Use Drop-off Center	Residents Subscribe w/Private Haulers	Total Households Served
Disposal Households Served:	<u>6,096</u>				<u>6,096</u>
Disposal Tonnage Collected:	<u>7,899.89</u>				
Recycling Households Served:	<u>6,096</u>				<u>6,096</u>
Recycling Tonnage Collected:	<u>424.38</u>		<u>81.68</u>		

4. Private Hauler Recycling & Mandatory Recycling

COMPLETE THIS SECTION ONLY IF RESIDENTS OF YOUR MUNICIPALITY SUBSCRIBE WITH PRIVATE HAULERS

If residents of your municipality subscribe with private haulers for solid waste and recycling services, but you do not have access to recycling tonnage figures, MassDEP will estimate this tonnage for your municipality based on your responses to the questions below. This estimate will be based on a statewide per household credit. If this estimate is significant compared to your municipality's total recycling tonnage, then MassDEP will contact you to obtain further documentation on private hauler recycling services.

Does your municipality have a mandatory residential recycling ordinance? ☐ Yes ☐ No

Does your municipality have an ordinance mandating that businesses recycle? ☐ Yes ☐ No

Does your municipality require haulers to provide recycling services through permit requirements? ☐ Yes ☐ No

Do private haulers in your municipality offer recycling services at no additional cost to disposal services? ☐ Yes ☐ No

HOW DOES YOUR MUNICIPALITY:

Enforce mandatory recycling for residents who subscribe with private haulers?

Please Describe*

Enforce hauler permits that require private haulers to provide recycling services?

Please Describe*

Use other methods to achieve private hauler recycling?

Please Describe*

*If you need additional space, submit your answer on a separate attachment.



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5. Costs of Residential Solid Waste Services

Please do not report other MSW costs associated with disposal, such as collection fees, hauling and transportation.

Disposal tip fee (including change in law costs if applicable): \$ 21.97 ☐ No Per Ton Tip Fee
Per Ton

How does your municipality charge its residents for solid waste program costs? Please check all that apply.

☐ Included in Tax Base ☒ Separate Flat Fee: \$ 216.00 ☒ Pay-As-You-Throw (PAYT)
Per Year

PAYT pricing options: Small \$ 1.25 Large \$ 2.50
1st Bag/Sticker Size Price 2nd Bag/Sticker Size Price

If your community does not have PAYT, but you want to learn more about it, please provide us with the name and phone number of the person we should contact:

Contact Name and Phone

Does your municipality have an ordinance mandating that businesses recycle? ☐ Yes ☒ No

Does your municipality require haulers to provide recycling services through permit requirements? ☐ Yes ☐ No

6. Municipal Waste Diversion: General Recyclables

Please provide the amount of recyclables diverted from residential sources in your town or city through municipal and private subscription hauler recycling, composting, and hazardous household product collection programs. Wherever possible, please estimate the percentage from commercial sources. When details are not provided for items marked with an asterisk (*), the reported tonnage will not count toward your municipality's recycling rate.

Material	2007 Tons	% From Commercial Sources	Comments
Single Stream Recycling			Date when your municipality began single stream collection (MM/DD/YYYY) _____
Newspaper	320.56		
Cardboard	53.09		
Mixed Paper			If separate amounts not known, include ONP, OCC, magazines, office paper, junk mail, etc.
Commingled Containers	185.50		Use this if containers are collected together and separate material tonnage amounts are not known.
Steel/Tin Cans			Steel containers and tin cans. Scrap steel should be reported below in Scrap Metal/White Goods.
Aluminum			Collected for recycling only; do not include redemption center tonnage.
Glass (all colors)			Collected for recycling only; do not include redemption center tonnage.
ALL Plastics			Collected for recycling only. Include food, beverage & home product containers, shopping bags & wrap.
Scrap Metal/White Goods	198.97		Includes appliances and other residential scrap metal.
Textiles/Used Clothing	2.26	Please indicate who collects these materials:	Salvation Army Organization(s) Collecting
C&D Material			Collected for recycling only.
Swap Shop			Estimate tonnage of materials exchanged for reuse in designated swap shop.



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6. Municipal Waste Diversion: General Recyclables (continued)

Material	2007 Tons	Comments
Other Residential Material*		Please Describe

☐ Check if your municipality regularly collects materials such as electronics, white goods, scrap metal, clothing or other household items for recycling at a non-site assigned location. If you have checked this box, please indicate the location below.
Note: Indicating the collection information below fulfills the requirement to notify and report to MassDEP under 310 CMR 18.06(3)(d).

Collection Location _____

7. Municipal Waste Diversion Program Results: Composting/Organics

Do not include leaves/yard waste collected from landscapers or adjoining towns, or organic materials collected by a municipal recreation department that maintains athletic fields.

Leaves/Yard Waste	1,416	Tons of grass, leaves, branches from single family or multi-family collections (curbside or drop-off).
Christmas Trees	604	Number of trees or tons chipped, ground, shredded or composted (if not included in Leaves/Yard Waste).

TOTAL number of compost bins EVER distributed by your city or town as of December 31, 2006

242

Number of compost bins distributed in calendar year 2007

19

If you DID NOT report diverting Leaves/Yard Waste & Christmas Trees, or distributing compost bins, MassDEP will estimate your default composting tonnage based on your answers to the questions below. If you have reported any of the above materials, please skip the rest of section 7 and go straight to section 8.

Does your community educate residents about and enforce a policy, bylaw, or ordinance excluding leaves and yard waste from collection for disposal? ☒ Yes ☐ No

Does your community have a combination of weekly drop-off and/or curbside collection for leaves and yard waste available to residents from March through November? ☒ Yes ☐ No

8. Residential Hazardous Household Products & Difficult-to-Manage-Wastes

A. Reporting in Part A and Part B is mutually exclusive. Please report the number of comprehensive one-day events your municipality sponsored or participated in during 2007. To avoid double counting, please do not report tonnage collected during one-day events in Part B. MassDEP will estimate tonnage based on the approximate numbers of full and half cars you report having served at these events.

Total number of comprehensive HHP events in 2007

0

Approximate number of full cars served at these events

Approximate number of half cars served at these events

These collection events were ☐ Reciprocal ☐ Regional ☐ Open ☐ Other

B. If your municipality has ongoing material-specific collections in addition to the events reported in Part A, please report the amount collected in the units of measure requested. Important Note: Providing the amount(s) for these materials is OPTIONAL. However, if you do not have these figures to report, they will not count toward your municipal recycling rate. Report the number of days you collected these items, or the number of days your site was open to residents.

Material	Amount	Units	# of Collection Days	Collection Fee, if any
Auto Batteries	124	Number	258	\$ 5.00
Auto Tires	2.63	Tons	258	\$ 5.00
CRTs/Electronics	24,050	Pounds		\$ 15.00 \$40.00



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B. (continued)

Material	Amount	Units	# of Collection Days	Collection Fee, if any
Waste/Used Engine Oil	6,000	Gallons	258	\$ 0.00
Household Batteries (Alkaline)		5-Gallon Pails		\$
Propane Tanks	155	Number	258	\$ 5.00
Anti-freeze		55-Gallon Drums		\$
Used Oil Filters		55-Gallon Drums		\$
Latex/Oil Based Paint	10	Cubic Yard Boxes	151	\$ 0.00

C. Mercury Containing Products

Fluorescent Lamps/Bulbs		Linear Feet		\$
Household Batteries (Button)		5-Gallon Pails		\$
Thermostats		Number		\$
Thermometers		Number		\$
Flow Meters		Number		\$
Mercury Switches		Number		\$
Elemental Mercury		Pounds		\$

Where are Mercury Containing Products collected in your municipality?

Board of Health

Location

What are the hours of operation for the collection facility?

8:45 A. M. - 5:00 P. M.

Hours

Are businesses allowed to use the collection facility?

☐ Yes ☐ No

9. Signature of Municipal Official

I have reviewed the information provided on this municipal recycling data sheet and believe it to be accurate and complete. I understand that MassDEP may contact me if it has questions or needs additional information.

Signature

Donald A. Boucher

Name

Highway Superintendent

Title

508-946-2481

Telephone Number

1-31-08

Date

ATTACHMENT C

Catch Basin/Street Sweeping Quantities

CATCH BASIN/STREET SWEEPING
2007

[illegible]

CATCH BASIN/STREET SWEEPING
2008

[illegible]