RESOURCE CONTROLS

The proven solution to your environmental needs.

June 26, 2006

Andrew P. Fontaine, P.E.
Town Engineer
Weymouth DPW
120 Winter Street
Weymouth, MA 02188

and

George Papadopoulos
RGP-NOC Processing
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Subject: Lincoln Square Service Station
185 Washington Street
Weymouth, Massachusetts
RTN 3-0596 / Tier IA Permit No. 83099

Dear Messrs. Fontaine and Papadopoulos:

On behalf of W.M. Realty, Inc., Resource Control Associates, Inc. (Resource Controls) is seeking coverage under the US Environmental Protection Agency's National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) for wastewater discharge from a basement sump located at 159 Washington Street in Weymouth, Massachusetts; the Fire Escape Ministries Inc. ("Fire Escape") building. Because concentrations of volatile petroleum hydrocarbons (VPH) in the sump water continue to exceed reportable concentrations under the Massachusetts Contingency Plan (MCP), the discharge from the Fire Escape building is defined as a remedial wastewater discharge by the Massachusetts Department of Environmental Protection (MADEP). This discharge is related to a release of gasoline at the Lincoln Square Service Station located at 185 Washington Street in Weymouth, Massachusetts. The Disposal Site associated with this release encompasses six (6) separate parcels including 185, 169, 165, 159 and 155 Washington Street and Weston Park, and has been under investigation since 1986. MADEP has assigned release Tracking Number (RTN) 3-000596 to the release, and the Site is classified as Tier IA (Tier IA Permit No. 83099). Discharge of remedial wastewater from the basement sump at the Fire Escape building to the Town of Weymouth (the "Town") storm drain located under Washington Street has been conducted under a NPDES permit exclusion letter issued on December 10, 1991.

Pursuant to Part I.B.2 of the RGP, facilities with on-going discharges associated with state-approved remediation projects are eligible for coverage under the RGP; however, Part I.A.3.h, specifically excludes discharges to municipal separate storm sewer systems (MS4s) unless local permitting or approval under the municipality's Storm Water Management Program (SWMP) is completed. Therefore, the purpose of this letter is two fold. First, it is to serve as a cover letter for the RGP Notice of Intent (NOI) included as Attachment A, and second, as request for approval under the Town's Phase II SWMP as required under the NPDES General Permit for Storm Water Discharges from Small Municipal Separate Storm Sewers (the MS4GP). The Town's municipal storm water discharge under the MS4GP is authorized under permit number MAR0471070. As requested by the Town, a copy of the Town of Weymouth Department of Public Works Application for Connection to Stormwater Drainage System is included in Attachment B.

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Pawtucket, RI 02860-1377
401 728-6860
Fax 401 727-1849

www.resourcecontrols.com

In accordance with the instructions set forth in Appendix V of the RGP, general facility/site information is included in Section 1 of the NOI. A Locus Map illustrating the location of the Site, the Fire Escape building and the outfall location of the municipal storm drain to Smelt Brook immediately above the confluence with the Weymouth Fore River is included as Figure 1. Discharge information is included in Section 2 of the NOI, and a Process Flow Diagram is included as Figure 2, and a Site Plan illustrating the best available information regarding the connection with the municipal drain line is included as Figure 3.

Contaminant information is included in Section 3 of the NOI, and recent laboratory analytical results for all parameters listed in Appendix III of the RGP are included in Attachment C. An influent sample of the sump water was collected on March 29, 2006. Based on the recent analytical results and the extensive environmental investigations and remedial activities conducted at the Site since 1986, the potential discharge was determined to fall within the "Gasoline Only" category under the RGP. Pursuant to Section I.B.2.a.i. of the MS4GP, storm water discharges that are mixed with sources of "non-storm water" are not authorized under the MS4GP unless the non-storm water discharge is in compliance with a separate NPDES permit. Because the remedial wastewater discharge from the Fire Escape building sump is treated, and expected to meet the requirements of the NPDES RGP, Resource Controls contends that this non-storm water may be mixed with storm water carried in the Town drain and not compromise coverage under the MS4GP.

Treatment system information is included in Section 4 of the NOI, and can be summarized as follows: groundwater collected in the sump located in the southwest corner of the basement of the Fire Escape building is pumped through 2-inch diameter above ground PVC piping to a treatment shed using a submersible electric sump pump. The recovered groundwater is treated via two 1,000-pound capacity liquid phase granular activated carbon adsorbers operated in series. Treated water is discharged to the municipal storm drain underlying Washington Street via an underground drain line installed from the treatment shed to the storm drain. According to Town representatives, the Washington Street drain runs to a stone culvert located near the Weymouth/Braintree line. This culvert eventually connects to a 96-inch drain that discharges to Smelt Brook, which shortly joins the Weymouth Fore River, located approximately 2,200 feet to the north of the Site. The US Environmental Protection Agency (USEPA) authorized the discharge under a NPDES Permit Exclusion granted on December 10, 1991. The permit exclusion number is unknown. Since Resource Controls' involvement at the Site in 1999, treatment system samples have been collected on a monthly basis from the influent and effluent of the system, and monthly discharge monitoring reports have submitted to the USEPA and the MADEP.

Historically, this system also treated groundwater pumped from recovery well PW-1, located on the 165 Washington Street property; PW-1 was shut down in December 2003 upon approval by the MADEP. Over the past two years, the average flow rate from the treatment system has been approximately of 0.6 gallons per minute (gpm), with the highest flows typically occurring during the spring months. The sump pump is capable of pumping thirty (30) gpm at 56 feet of head. As such, maximum flow rate expected to enter the municipal storm drain at any one time is 30 gpm.

The USEPA is seeking to ensure that discharges covered under the MS4GP and the RGP do not adversely affect endangered and threatened species, critical habitat, and/or essential fish habitat. As required under Part I.B.5 of the RGP, all applicants must comply with Appendix VII, Section I, regarding endangered species issues. Appendix VII, Section I states that there are four (4) listed species of concern to facilities seeking coverage under the RGP. These species include the shortnose sturgeon, the dwarf wedge mussel, the bog turtle and the northern redbelly cooter. According to the most rare species list for Norfolk county, updated March 1, 2003 (www.mass.gov/dfwele/dfw/nhesp/norf.htm), these species are not found in Norfolk county. In addition, Resource Controls reviewed the Massachusetts Geographic Information System (MassGIS) Natural Heritage and Endangered Species (NHESP) data layer. The nearest estimated habitat of Rare Wildlife in Wetlands is located approximately one mile southwest and upgradient of the discharge. The MCP Site Scoring Map illustrating the NHESP data layer is included as Attachment D. Resource Controls contends that these efforts to meet the intent of Part I.B.5 of the RGP and Part I.B.2 of the MS4GP.

The NOI submitted by the Town for coverage under the MS4GP states that the eligibility criteria for protection of historic properties have been met. In accordance with Appendix VII of the RGP, Resource Controls reviewed the National Register of Historic Places NRIS database (www.cr.nps.gov/nr/research/nris.htm) and the Massachusetts Cultural Resource Information System (MACRIS) database (mhc-macris.net) to determine whether historic properties are located near the discharge. The only historic property identified in proximity of the discharge is the US Post Office at Weymouth Landing, located at 103 Washington Street, approximately 900 feet northwest of the Site and approximately 1,300 feet south of the discharge. In addition, the Weymouth Landing area is a commercial and residential district listed on the MARCIS database as having significance with respect to architecture, commerce, community planning, industry, maritime history, politics, government and transportation. Given that the discharge is ongoing, utilizes existing utility structures, and is not associated with construction activities, it is unlikely that future discharge will have an adverse effect on historic properties.

Resource Controls acknowledges that the Town is required to meet Minimum Control Measures (MCMs) under the MS4GP. These MCMs include public education and outreach, public involvement and participation, illicit discharge detection and elimination, construction site storm water runoff control, post-construction storm water management in new development and redevelopment and pollution prevention and good housekeeping in municipal operation. Given that effluent limits and monitoring requirements limits for a broad range of contaminants are required under the RGP, a permitted discharge under the RGP will meet the intent of the MCMs outlined in the MS4GP. Resource Controls will maintain compliance records as required under Part I.D.4 of the RGP; any violation of permit limits will be reported to USEPA, MADEP and the Town.

Pursuant to email correspondence with USEPA on June 1, 2006, the treatment system will be equipped with an autodialer that will notify Resource Controls the first time the pump motor is activated during a given month. NPDES sampling will be conducted only during those months when discharge has occurred; the autodialer relay will be manually reset following each sampling effort.

If you have any questions or require additional information, please contact the undersigned at (401) 728-6860.

Very truly yours,

RESOURCE CONTROL ASSOCIATES, INC.

Barrett L. Smith
Project Hydrogeologist

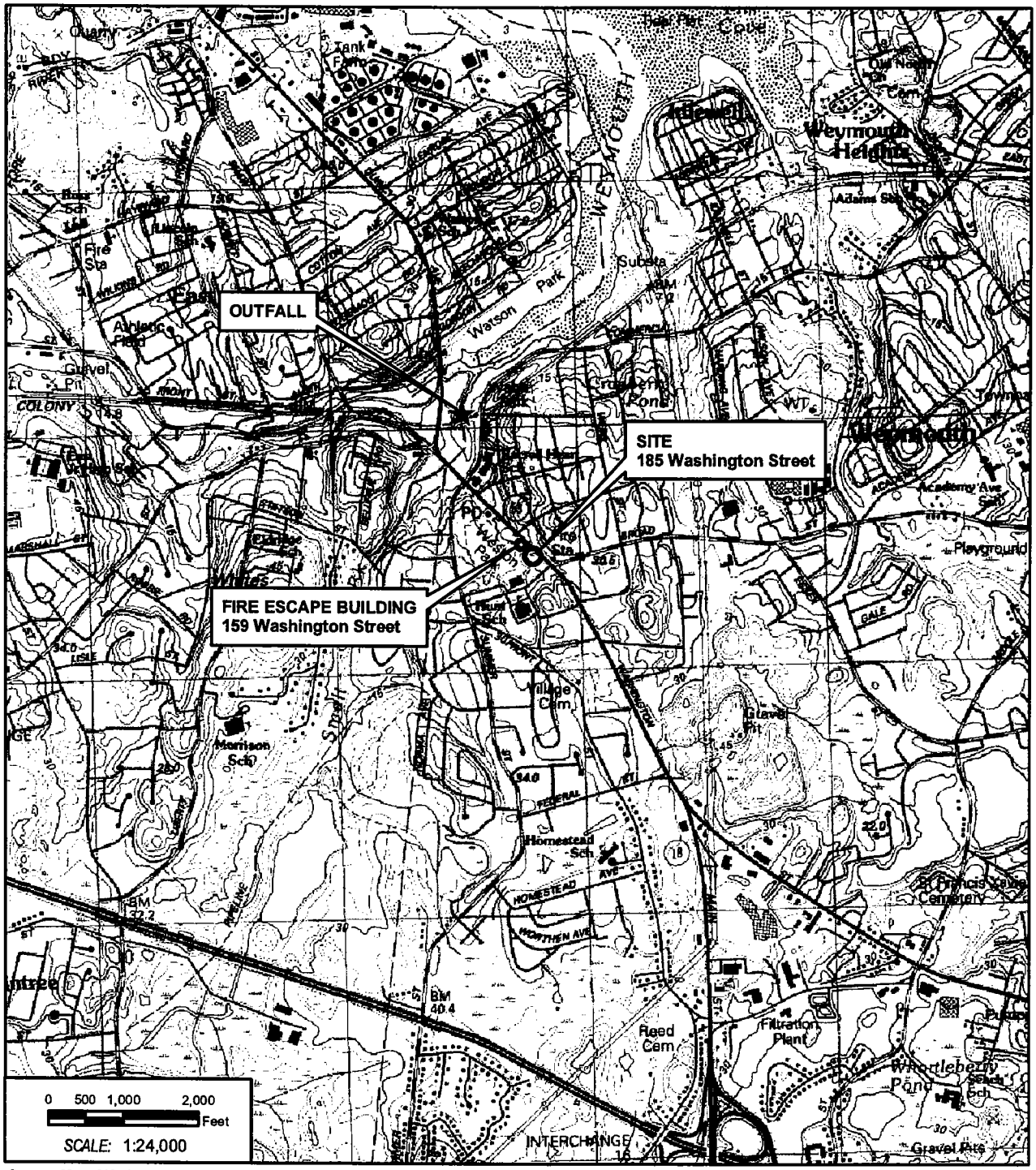
Robert C. Atwood, P.E., LSP
President and CEO

Enclosures

cc: Metri R. Metri – W.M. Realty Inc.
Pearl Gilmore – Fire Escape Ministries Inc.
Jennifer McWeeney – MADEP, NERO
MADEP – Division of Watershed Management

BLS:lap

FIGURES



Source: MassGIS, Commonwealth of Massachusetts Executive Office of Environmental Affairs
1982-1985 USGS Topographic Map - Weymouth, Massachusetts Quadrangle

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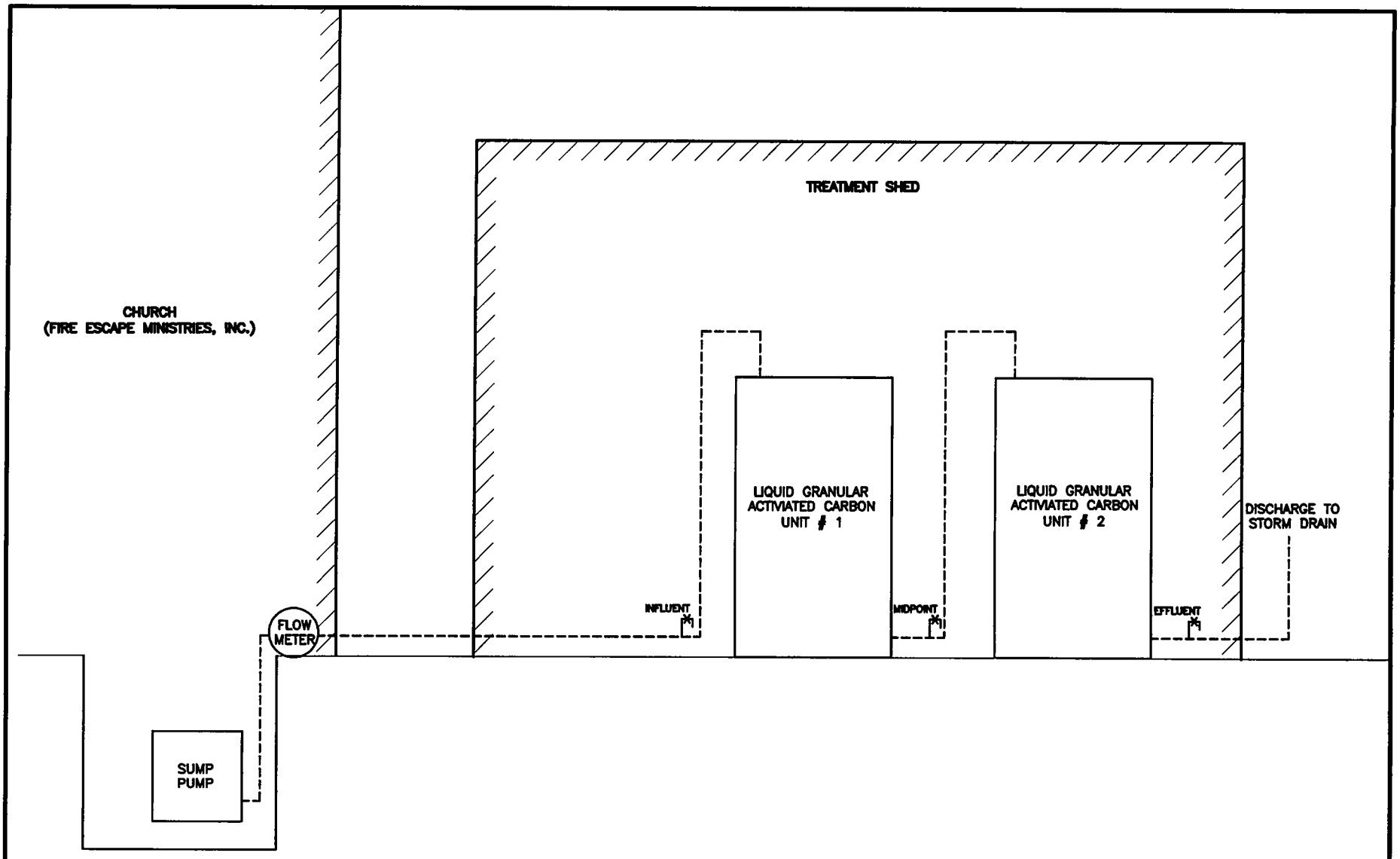
LOCUS MAP

159/185 WASHINGTON STREET
WEYMOUTH, MASSACHUSETTS

DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	A6130	01/12/2006	1

D:\GIS Projects JV\A6130\A6130 Locus Topo Map.mxd



LEGEND

- SYSTEM COMPONENTS
- LINES CONNECTING SYSTEM COMPONENTS
- SAMPLE PORT
- BUILDING

NOT TO SCALE

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PROCESS FLOW DIAGRAM

159/185 WASHINGTON STREET
WEYMOUTH, MASSACHUSETTS

DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	A6130	05/31/2006	2

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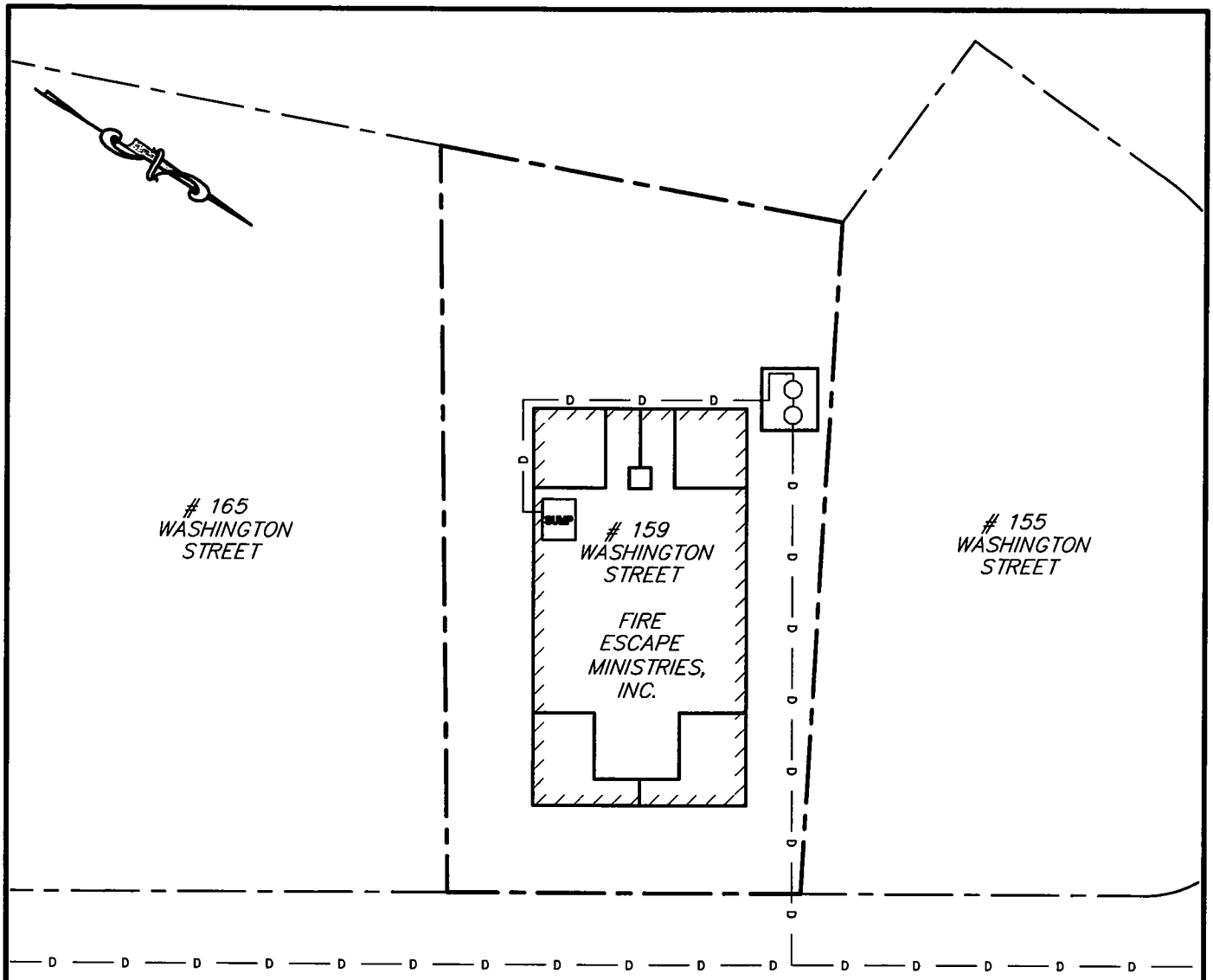

LEGEND

- SUBJECT PROPERTY LINE
- PROPERTY LINE
- BUILDING
- DRAIN LINE

NOT TO SCALE

NOTE:
DRAWING WAS MODIFIED FROM A DRAWING ENTITLED "SITE PLAN" PREPARED BY RESOURCE CONTROLS AND DATED 4/11/01; AND A DRAWING ENTITLED "SITE MAP" PREPARED BY GROUNDWATER TECHNOLOGY AND DATED 10/12/1995.

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SITE PLAN

159/185 WASHINGTON STREET
WEYMOUTH, MASSACHUSETTS

DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	A6130	06/14/2006	3

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ATTACHMENT A

Notice of Intent

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of **facility/site**: Lincoln Square Service Station		**Facility/site** address: Fire Escape Ministries Inc.		
Location of **facility/site**: longitude: -70 57 54 W latitude: 42 12 59.79 N	Facility SIC code(s): Not applicable	Street: 159 Washington Street		
b) Name of **facility/site owner:** W.M. Realty Inc.		Town: Weymouth		
Email address of owner: Not applicable		State: MA	Zip: 02188	County: Norfolk
Telephone no.of facility/site **owner**: (781) 340-6683				
Fax no. of facility/site **owner**: (781) 335-4341		**Owner** is (check one): 1. Federal____ 2. State/Tribal____ 3. Private ✓ 4. other, if so, describe:		
Address of **owner** (if different from site):				
Street: 143 Washington Street				
Town: Weymouth	State: MA	Zip: 02188	County: Norfolk	
c) Legal name of **operator**:	**Operator** telephone no: (401) 728-6860			
Resource Control Associates, Inc.	**Operator** fax no.: (401) 727-1849		**Operator** email: ratwood@resourcecontrols.com	
Operator contact name and title: Mr. Robert C. Atwood, PE, LSP, President and CEO				
Address of **operator** (if different from owner):	Street: 474 Broadway			
Town: Pawtucket	State: RI	Zip: 02860	County: Providence	

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes ✓ No___, if "yes," number: Unknown
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No ✓, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes ✓ No___
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes ✓ No__

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes ✓ No ___ If "yes," please list: 1. site identification # assigned by the state of NH or MA: RTN 3-0596 2. permit or license # assigned: Tier 1A Permit No. 83099 3. state agency contact information: name, location, and telephone number: Jennifer McWeeney, MADEP, NERO, 205B Lowell St, Wilmington, MA 01887	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y ___ N ✓, if Y, number: 2. phase I or II construction storm water general permit? Y ___ N ✓, if Y, number: 3. individual NPDES permit? Y ___ N ✓, if Y, number: 4. any other water quality related permit? Y ✓ N ___, if Y, number: NPDES General Permit for Storm Water Discharges from Small Municipal Separate Storm Sewers

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:

Operation and maintenance of a treatment system for groundwater pumped from a basement sump located at 159 Washington Street as a component of MCP remedial response actions for a release at 185 Washington Street (Lincoln Square Service Station).

b) Provide the following information about each discharge:	1) Number of discharge points:	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft3/s)? Max. flow 0.067 Average flow 0.00013 Is maximum flow a **design value**? Y ___ N ✓ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. Based on historical monitoring data, the average flow rate is 0.06 gallons per minute (0.00013 ft3/s).

3) Latitude and longitude of each discharge within 100 feet: pt.1:long. - 70 58 4.94W lat. 42 13 18.13N; pt.2: long._____ lat._____; pt.3: long._____ lat._____; pt.4:long._____ lat._____; pt.5: long._____ lat._____; pt.6:long._____ lat._____; pt.7: long._____ lat._____; pt.8:long._____ lat._____; etc.

4) If hydrostatic testing, total volume of the discharge (gals): Not applicable	5) Is the discharge intermittent Yes or seasonal No ? Is discharge ongoing Yes ✓ No _____?

c) Expected dates of discharge (mm/dd/yy): start 12/10/1991 end Pending permanent Site Closure under the MCP

d) Please attach a line drawing or flow schematic showing water flow through the facility including: See Figure 2
1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids	✓		1	Grab	SM 2540 D	10 mg/l	NA	NA	< 10,000	< 0.003
2. Total Residual Chlorine	✓		1	Grab	SM 4500- Cl G	0.2 mg/l	NA	NA	< 200	< 7E-5
3. Total Petroleum Hydrocarbons		✓	25	Grab	EPA 8015B	0.2 mg/l	6,500	0.0021	2,954	0.00094
4. Cyanide	✓		1	Grab	EPA 9012A	0.01 mg/l	NA	NA	< 10	< 3E-6
5. Benzene		✓	25	Grab	EPA 8260B	100 ug/l	450	0.00014	146	0.00005
6. Toluene		✓	25	Grab	EPA 8260B	100 ug/l	2,600	0.00083	973	0.00031
7. Ethylbenzene		✓	25	Grab	EPA 8260B	100 ug/l	810	0.00026	297	0.00009
8. (m,p,o) Xylenes		✓	25	Grab	EPA 8260B	100 ug/l	5,000	0.0016	2,083	0.00067
9. Total BTEX[4]		✓	25	Grab	EPA 8260B	400 ug/l	8,060	0.0026	3,461	0.0011

[4]BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide [5] (1,2- Dibromo-methane)	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
11. Methyl-tert-Butyl Ether (MtBE)		✓	25	Grab	EPA 8260B	100 ug/l	9,400	0.0030	1,355	0.00043
12. tert-Butyl Alcohol (TBA)	✓		1	Grab	EPA 8260B	4,000 ug/l	NA	NA	< 4,000	< 0.001
13. tert-Amyl Methyl Ether (TAME)	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
14. Naphthalene	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
15. Carbon Tetra-chloride	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
16. 1,4 Dichlorobenzene	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
17. 1,2 Dichlorobenzene	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
18. 1,3 Dichlorobenzene	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
19. 1,1 Dichloroethane	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
20. 1,2 Dichloroethane	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
21. 1,1 Dichloroethylene	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
22. cis-1,2 Dichloro-ethylene	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
23. Dichloromethane (Methylene Chloride)	✓		1	Grab	EPA 8260B	500 ug/l	NA	NA	< 500	< 2E-4
24. Tetrachloroethylene	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5

[5] EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
26. 1,1,2 Trichloroethane	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
27. Trichloroethylene	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
28. Vinyl Chloride	✓		1	Grab	EPA 8260B	100 ug/l	NA	NA	< 100	< 3E-5
29. Acetone	✓		1	Grab	EPA 8260B	2,000 ug/l	NA	NA	< 2,000	< 7E-4
30. 1,4 Dioxane	✓		1	Grab	EPA 8260B	100,000 ug/l	NA	NA	< 100,000	< 0.033
31. Total Phenols		✓	1	Grab	EPA 625	11 ug/l	NA	NA	41	0.00001
32. Pentachlorophenol	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
33. Total Phthalates [6] (Phthalate esthers)	✓		1	Grab	EPA 625	770 ug/l	NA	NA	< 770	< 3E-4
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	Grab	EPA 625	770 ug/l	NA	NA	< 770	< 3E-4
a. Benzo(a) Anthracene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	<110	< 4E-5
b. Benzo(a) Pyrene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	<110	< 4E-5
c. Benzo(b)Fluoranthene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	<110	< 4E-5
d. Benzo(k) Fluoranthene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	<110	< 4E-5
e. Chrysene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	<110	< 4E-5

[6] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
g. Indeno(1,2,3-cd) Pyrene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓	1	Grab	EPA 625	990 ug/l	NA	NA	23	8E-6
h. Acenaphthene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
i. Acenaphthylene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
j. Anthracene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
k. Benzo(ghi) Perylene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
l. Fluoranthene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
m. Fluorene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
n. Naphthalene-		✓	1	Grab	EPA 625	110 ug/l	NA	NA	23	8E-6
o. Phenanthrene			1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
p. Pyrene	✓		1	Grab	EPA 625	110 ug/l	NA	NA	< 110	< 4E-5
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	Grab	EPA 608	1.4 ug/l	NA	NA	< 1.4	< 5E-7
38. Antimony	✓		1	Grab	EPA 7041	0.006 mg/l	NA	NA	< 6	< 2E-6
39. Arsenic	✓		1	Grab	EPA 6010B	0.01 mg/l	NA	NA	< 10	< 3E-6
40. Cadmium	✓		1	Grab	EPA 6010B	0.005 mg/l	NA	NA	< 5	< 2E-6
41. Chromium (TOTAL)	✓		1	Grab	EPA 6010B	0.01 mg/l	NA	NA	< 10	< 3E-6
42. Chromium VI	✓		1	Grab	EPA 7196A	0.01 mg/l	NA	NA	< 10	< 3E-6

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✓		1	Grab	EPA 6010B	0.025 mg/l	NA	NA	< 25	< 8E-6
44. Lead	✓		1	Grab	EPA 7421	0.001 mg/l	NA	NA	< 1	< 3E-7
45. Mercury	✓		1	Grab	EPA 7470A	0.0002 mg/l	NA	NA	< 0.2	< 7E-8
46. Nickel	✓		1	Grab	EPA 6010B	0.04 mg/l	NA	NA	< 40	< 1E-5
47. Selenium	✓		1	Grab	EPA 7740	0.005 mg/l	NA	NA	< 5	< 2E-6
48. Silver	✓		1	Grab	EPA 6010B	0.007 mg/l	NA	NA	< 7	< 3E-6
49. Zinc	✓		1	Grab	EPA 6010B	0.2 mg/l	NA	NA	< 200	< 7E-5
50. Iron		✓	1	Grab	EPA 6010B	0.1 mg/l	NA	NA	1,100	0.00035
Other (describe):										
1,3,5- Trimethylbenzene		✓	1	Grab	EPA 8260B	100 ug/l	NA	NA	100	0.00003
1,2,4- Trimethylbenzene		✓	1	Grab	EPA 8260B	100 ug/l	NA	NA	390	0.00012

c) For discharges where **metals** are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y ✓ N___	If yes, which metals? Iron
Step 2: For any metals which have **reasonable potential** to exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: Iron DF: 21*	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y___ N ✓ If "Yes," list which metals:

* 7Q10 for Weymouth Fore River determined using USGS STREAMSTATS applet (see Attachment E).

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator	Equalization tanks	Bag filter	GAC filter
	Chlorination	Dechlorination	Other (please describe):			
c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system: Average flow rate of discharge 0.06 gpm Maximum flow rate of treatment system 30 gpm Design flow rate of treatment system Not applicable						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): None						

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct____	Within facility__	Storm drain ✓	River/brook ✓	Wetlands____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Discharge to municipal drain, ultimately discharging to Smelt Brook immediately upstream of confluence with Weymouth Fore River.						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: See Figure 1 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.						
d) Provide the state water quality classification of the receiving water B*/SB* ,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 1.36 cfs Please attach any calculation sheets used to support stream flow and dilution calculations. (see Attachment E.)						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ✓ No____ If yes, for which pollutant(s)? pathogens Is there a TMDL? Yes No ✓ If yes, for which pollutant(s)? pathogens						

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes____ No ✓
Has any consultation with the federal services been completed ? No ✓ or is consultation underway? Yes____ No ✓
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (~~check~~ one):
a "no jeopardy" opinion? _____or written concurrence____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes_____ No ✓ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes_____ No ✓

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following 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, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Lincoln Square Service Station (Fire Escape Ministries Inc., 159 Washington Street, Weymouth, Massachusetts)

Operator signature: Robert C. Attwood

Title: President and CEO - Resource Control Associates, Inc.

Date: 6/26/06