NPDES PII Small MS4 General Permit
Annual Report

Part I. General Information

Contact Person: Elizabeth Hughes  Title: Town Planner

Telephone #: 978/263-1116 x 112  Email: elizabeth.hughes@town.boxborough.ma.us

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: Natalie Lashmit

Printed Name: Natalie Lashmit

Title: Town Administrator

Date: April 29, 2005
Part II. Self-Assessment

The Town of Boxborough has completed the required self assessment and has determined that our municipality is in compliance with all permit conditions.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Permit Year 2</th>
<th>Planned Activities – Permit Year 3 (**Reliance on non-municipal partners indicated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Educate the community by informing them that any dumping into town storm drains is illegal.</td>
<td>CC, BoH</td>
<td>Prepare brochure for distribution in 2005.</td>
<td>In progress.</td>
<td>Finalize brochure for distribution to residents and business owners in 2006.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Post information on CC &amp; BoH web page.</td>
<td></td>
<td>Put information on the town website.</td>
</tr>
<tr>
<td>1.2</td>
<td>Distribute information regarding the following items:</td>
<td>CC, BoH</td>
<td>Prepare brochure for distribution in 2005.</td>
<td>In progress.</td>
<td>Finalize brochure for distribution to residents and business owners in 2006.</td>
</tr>
<tr>
<td></td>
<td>• function and proper maintenance of private wells and septic systems with any well and septic permit.</td>
<td></td>
<td>Post information on CC &amp; BoH web page.</td>
<td></td>
<td>Put information on town website.</td>
</tr>
<tr>
<td></td>
<td>• the use of detergents, fertilizers, and other potentially harmful practices.</td>
<td></td>
<td></td>
<td></td>
<td>Distribute EPA’s “The Solution to Stormwater Pollution” brochure at annual Town Meeting on May 9, 2005</td>
</tr>
</tbody>
</table>
### 1. Additions

#### 1.5 Develop pet waste program for municipal & conservation land

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) — Permit Year 2 (Reliance on non-municipal partners indicated, if any)</th>
<th>Planned Activities — Permit Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Water Resources Committee</td>
<td>BoS, CC, PB, BoH</td>
<td>Put water quality monitoring under the WRC’s charge.</td>
<td>Water Resources Committee formed and Committee has been monitoring water quality reports and assessing pollution issues</td>
<td>Committee will continue to monitor reports and follow-up on any pollution issues</td>
</tr>
<tr>
<td>2.2</td>
<td>Implement a stewardship program for conservation lands.</td>
<td>BoS, CC</td>
<td>Develop a volunteer stewardship program</td>
<td>Land Stewardship Committee formed in 2004</td>
<td>LansCom currently evaluating drainage issues on existing trails and will be recommending improvements to the CC for implementation in summer/fall 2005</td>
</tr>
</tbody>
</table>
2.3 | Evaluate the Use Schedule of the Zoning Bylaw to further regulate uses that may impact groundwater quality. | PB | Prepare Article for changing Use Schedule so that Automobile fuel/service stations and repair garages are allowed by special permit instead of by right. | An Article for changing the use schedule has been included in the ATM 2004 Warrant. | Review the Zoning Bylaws for other Uses that may be further regulated.

2a. Additions

2.4 | Public hearings on Draft Stormwater Management Plan | PB, BoS | Hold public hearings in 2005/2006 | Hold public hearing, incorporate changes and have Plan accepted by PB & BoS

3. Illicit Discharge Detection and Elimination

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)</th>
<th>Planned Activities – Permit Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Map the location of all catch basins, manholes, pipes, outfall pipes, and the names of all waters that receive discharges from those outfalls on GIS.</td>
<td>DPW</td>
<td>Number of drainage facilities mapped.</td>
<td>All catchbasins have been mapped on GIS.</td>
<td>Map drainage manholes, pipes, and outlet pipes. (GPS of structures done by WPI students)</td>
</tr>
<tr>
<td>3.2</td>
<td>Dry Weather Screening and mapping of Outfalls.</td>
<td>DPW, BoH</td>
<td>Perform inspections.</td>
<td>Scheduled for years 4 through 5.</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>Develop a System for removal, clean-up, and mitigation of Illicit Discharges once detected.</td>
<td>PB, BoH</td>
<td>Number of illegal discharges that have been detected.</td>
<td>Scheduled for year 5.</td>
<td></td>
</tr>
</tbody>
</table>
### 3.4
Stencil all storm drains with “NO DUMPING – Drains to the Environment” stencils.

<table>
<thead>
<tr>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
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<th>Planned Activities – Permit Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPW</td>
<td>Stencil basins</td>
<td>Scheduled for summer/fall of 2005</td>
<td></td>
</tr>
</tbody>
</table>

### 3a. Additions

| 3.5 | Draft illicit connection bylaw | BoS, BoH, DPW | Warrant article on 2006 Annual Town meeting | Complete draft bylaw in fall/winter 2005 for internal review |

### 4. Construction Site Stormwater Runoff Control

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
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<th>Planned Activities – Permit Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Review existing regulations for adequate construction site erosion and post-construction stormwater management.</td>
<td>CC, PB, BoH</td>
<td>Amendments to existing regulations and develop standard conditions of approval.</td>
<td>No action to date</td>
<td>Review and propose changes to the Subdivision Rules and Regulations and develop standard conditions. Review Site Plan regulations and propose changes to 2006 Annual Town Meeting.</td>
</tr>
<tr>
<td>4.2</td>
<td>Building Inspector to aggressively enforce regulations and bylaws pertaining to construction run-off.</td>
<td>BoS, BI, TP</td>
<td>Number of enforcement orders issued.</td>
<td>No enforcements issued</td>
<td>Continued enforcement of site construction erosion control measures.</td>
</tr>
</tbody>
</table>

### 4a. Additions

| 4.3 | Erosion Control Plan | PB, TP | Submission of Erosion Control Plan for subdivisions and commercial developments | Put into place regulations requiring the submission of erosion control plans and develop standard conditions of approval | Continue implementation of regulation and conditions |
### 5. Post-Construction Stormwater Management in New Development and Redevelopment

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
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<th>Planned Activities – Permit Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1</td>
<td>Review existing regulations for adequate construction site erosion and post-construction stormwater management.</td>
<td>CC, PB, BoH</td>
<td>Amendments to existing regulations and develop standard conditions of approval</td>
<td>No action to date</td>
<td>Review and propose changes to the Subdivision Rules and Regulations and develop standard conditions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Review Site Plan regulations and propose changes to 2006 Annual Town Meeting.</td>
</tr>
</tbody>
</table>

### 6. Pollution Prevention and Good Housekeeping in Municipal Operations

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
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<th>Planned Activities – Permit Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1</td>
<td>Minimize the use of road salt.</td>
<td>DPW</td>
<td>Miles of public road where a reduced salt mix has been used.</td>
<td>DPW used a reduced salt mix ratio: (25%NaCL to 75% Sand) for FY04.</td>
<td>Continue to use a reduced salt mixture for winter of 2005-2006.</td>
</tr>
<tr>
<td>6.2</td>
<td>Sweep all streets and town parking lots annually by June 1st.</td>
<td>DPW</td>
<td>Miles of streets swept.</td>
<td>Spring street sweeping has begun scheduled completion date: June 1, 2005</td>
<td>Sweep all streets by June 1, 2006</td>
</tr>
<tr>
<td>6.3</td>
<td>Clean all town catch basins annually.</td>
<td>DPW</td>
<td>Number of catch basins cleaned</td>
<td>Spring catch basin cleaning has begun scheduled completion date: June 30, 2005: 430 structures cleaned in FY05.</td>
<td>Clean all town catch basins by June 30, 2006</td>
</tr>
<tr>
<td>6.4</td>
<td>Test Water Quality in municipal buildings once every two years.</td>
<td>BoH</td>
<td>Number of tests performed.</td>
<td>Town Hall water tested in Dec. 2000. Blanchard Memorial School/Fire/Police water tested on a regular basis as a Community Water Supply.</td>
<td>Schedule water quality test at Town buildings.</td>
</tr>
<tr>
<td>6.5</td>
<td>Municipal employee training.</td>
<td>BoS, DPW</td>
<td>Establish procedures to train municipal employees on using BMPs for all municipal operations</td>
<td>No action to date</td>
<td>Draft employee training manual</td>
</tr>
<tr>
<td>6.6</td>
<td>Monitor 21E sites and their clean up.</td>
<td>BoH</td>
<td>Number of sites monitored.</td>
<td>Continue to monitor all open 21E Sites.</td>
<td>Same as Year 2</td>
</tr>
<tr>
<td>-----</td>
<td>-----------------------------------</td>
<td>-----</td>
<td>---------------------------</td>
<td>----------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>6.7</td>
<td>Track failed septic systems on GIS</td>
<td>BoH,TP</td>
<td>Number of failed systems mapped.</td>
<td>No failed systems mapped to date.</td>
<td>Begin failed septic system failure mapping on GIS.</td>
</tr>
<tr>
<td>6.8</td>
<td>Continue groundwater monitoring program along with Site Plan Approval and continue to monitor groundwater quality reports prepared by the Littleton Water Department. Track results on GIS.</td>
<td>BoH, PB, TP</td>
<td>Require groundwater monitoring for all commercial operations requiring Site Plan Approval from the Planning Board.</td>
<td>Commercial Site Plans groundwater monitoring was conducted by Littleton Water Department. No commercial site plans issued in Permit Year 2</td>
<td>Continue commercial groundwater monitoring. Put Groundwater Monitoring information on GIS.</td>
</tr>
</tbody>
</table>

(BoS: Board of Selectmen; PB: Planning Board; TP: Town Planner; BI: Building Inspector; BoH: Board of Health; CC: Conservation Commission; DPW: Public Works Director)

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)  

(Not Applicable in Boxborough)

See attached water quality information collected in Permit Year 2.
March 4, 2005

Boxborough Board of Health
Town Hall
29 Middle Road
Boxborough, MA 01719

Re: Boxborough Transfer Station
Semi-annual Groundwater Monitoring

Dear Board Members:

The Littleton Water Department sampled the monitoring well network at the Boxborough Transfer Station on June 26, and December 29, 2004. Four monitoring wells (BLF-1 through BLF-4) were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2, Safe Drinking Water Act (SDWA) heavy metals and general water quality parameters. A surface water sample (SW-1) was collected from the wetland located on the southern side of the landfill and sampled for VOCs. Copies of the laboratory reports are provided in Appendix A and field measurements with groundwater elevations are included in Appendix B.

Arsenic was detected in wells BLF-3 and BLF-4 during both sampling events at concentrations that exceed the US EPA standard of 0.05 mg/L. MTBE was detected in the groundwater sample from BLF-3 in June and December concentrations of 0.68 micrograms per liter (ug/L) and 1.1 ug/L, respectively. All other tested parameters were found to be within acceptable levels for both groundwater and surface water samples at the site.

The next scheduled sampling event is in the Spring of 2005 and will include general water quality parameters, SDWA heavy metals and VOCs. Please call me at (978) 486-3104 with any questions or concerns.

Sincerely,

Gregory A. Woods, PG.
Environmental Analyst

Enclosures
cc: Paul Anderson, DEP, DSWM
Nashoba Associated Boards of Health

G:\Water Dept\WATER\GWMP\Boxborough\Codman Hill - BLF\Reports\BLF-04II.DOC
**Certificate of Analysis**

<table>
<thead>
<tr>
<th>TEST PARAMETER</th>
<th>BLF #1</th>
<th>BLF #2</th>
<th>BLF #3</th>
<th>BLF #4</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium</td>
<td>35</td>
<td>13.1</td>
<td>33.7</td>
<td>31.4</td>
<td>mg/L</td>
</tr>
<tr>
<td>Copper</td>
<td>&lt;0.02</td>
<td>&lt;0.02</td>
<td>&lt;0.02</td>
<td>&lt;0.02</td>
<td>mg/L</td>
</tr>
<tr>
<td>Iron</td>
<td>0.24</td>
<td>8.3</td>
<td>12.4</td>
<td>19.9</td>
<td>mg/L</td>
</tr>
<tr>
<td>Magnesium</td>
<td>4.8</td>
<td>3.0</td>
<td>3.3</td>
<td>3.1</td>
<td>mg/L</td>
</tr>
<tr>
<td>Manganese</td>
<td>1.1</td>
<td>0.27</td>
<td>1.6</td>
<td>1.5</td>
<td>mg/L</td>
</tr>
<tr>
<td>Potassium</td>
<td>3.6</td>
<td>3.3</td>
<td>6.2</td>
<td>5.8</td>
<td>mg/L</td>
</tr>
<tr>
<td>Sodium</td>
<td>128.0</td>
<td>117</td>
<td>56.5</td>
<td>70.2</td>
<td>mg/L</td>
</tr>
<tr>
<td>Alkalinity</td>
<td>21.0</td>
<td>7.0</td>
<td>105</td>
<td>97.5</td>
<td>mg/L</td>
</tr>
<tr>
<td>Ammonia</td>
<td>0.06</td>
<td>0.11</td>
<td>0.30</td>
<td>0.51</td>
<td>mg/L</td>
</tr>
<tr>
<td>Chloride</td>
<td>272</td>
<td>268</td>
<td>108</td>
<td>155</td>
<td>mg/L</td>
</tr>
<tr>
<td>Conductivity</td>
<td>889</td>
<td>729</td>
<td>566</td>
<td>673</td>
<td>umhos/cm</td>
</tr>
<tr>
<td>Hardness</td>
<td>107</td>
<td>45</td>
<td>98</td>
<td>91</td>
<td>mg/L</td>
</tr>
<tr>
<td>Nitrates</td>
<td>1.7</td>
<td>&lt;0.01</td>
<td>&lt;0.01</td>
<td>&lt;0.01</td>
<td>mg/L</td>
</tr>
<tr>
<td>Nitrites</td>
<td>&lt;0.01</td>
<td>&lt;0.01</td>
<td>&lt;0.01</td>
<td>&lt;0.01</td>
<td>mg/L</td>
</tr>
<tr>
<td>pH</td>
<td>5.4</td>
<td>6.4</td>
<td>6.8</td>
<td>6.5</td>
<td>SU</td>
</tr>
<tr>
<td>Sulphates</td>
<td>32.4</td>
<td>3.6</td>
<td>7.5</td>
<td>8.2</td>
<td>mg/L</td>
</tr>
<tr>
<td>Total Dissolved Solids</td>
<td>525</td>
<td>425</td>
<td>293</td>
<td>378</td>
<td>mg/L</td>
</tr>
</tbody>
</table>
**Certificate of Analysis**

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>BLF-1</th>
<th>BLF-2</th>
<th>BLF-3</th>
<th>BLF-4</th>
<th>Detection Limit</th>
<th>Units</th>
<th>Analytical Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium</td>
<td>59.0</td>
<td>9.6</td>
<td>31.5</td>
<td>24.3</td>
<td>0.01</td>
<td>mg/L</td>
<td>200.7</td>
</tr>
<tr>
<td>Copper</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>0.02</td>
<td>mg/L</td>
<td>200.7</td>
</tr>
<tr>
<td>Iron</td>
<td>0.12</td>
<td>0.90</td>
<td>0.22</td>
<td>0.66</td>
<td>0.01</td>
<td>mg/L</td>
<td>200.7</td>
</tr>
<tr>
<td>Magnesium</td>
<td>7.4</td>
<td>2.0</td>
<td>3.1</td>
<td>2.3</td>
<td>0.01</td>
<td>mg/L</td>
<td>200.7</td>
</tr>
<tr>
<td>Manganese</td>
<td>0.92</td>
<td>0.14</td>
<td>1.4</td>
<td>1.2</td>
<td>0.01</td>
<td>mg/L</td>
<td>200.7</td>
</tr>
<tr>
<td>Sodium</td>
<td>162</td>
<td>74.5</td>
<td>57.3</td>
<td>63.1</td>
<td>0.1</td>
<td>mg/L</td>
<td>200.7</td>
</tr>
<tr>
<td>Potassium</td>
<td>5.6</td>
<td>2.4</td>
<td>6.9</td>
<td>5.5</td>
<td>0.05</td>
<td>mg/L</td>
<td>200.7</td>
</tr>
<tr>
<td>Alkalinity</td>
<td>ND</td>
<td>9.5</td>
<td>75.5</td>
<td>56.0</td>
<td>1</td>
<td>mg/L</td>
<td>310.1</td>
</tr>
<tr>
<td>Ammonia</td>
<td>0.12</td>
<td>0.10</td>
<td>0.60</td>
<td>0.53</td>
<td>0.03</td>
<td>mg/L</td>
<td>350.3</td>
</tr>
<tr>
<td>Chloride</td>
<td>365</td>
<td>126</td>
<td>101</td>
<td>118</td>
<td>0.05</td>
<td>mg/L</td>
<td>300.0</td>
</tr>
<tr>
<td>Conductivity</td>
<td>1351</td>
<td>489</td>
<td>534</td>
<td>542</td>
<td>0</td>
<td>umhos/cm</td>
<td>120.1</td>
</tr>
<tr>
<td>Hardness</td>
<td>178</td>
<td>32</td>
<td>91</td>
<td>70</td>
<td>2</td>
<td>mg/L</td>
<td>SM2350B</td>
</tr>
<tr>
<td>Nitrates</td>
<td>6.8</td>
<td>0.29</td>
<td>ND</td>
<td>ND</td>
<td>0.01</td>
<td>mg/L</td>
<td>300.0</td>
</tr>
<tr>
<td>Nitrites</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>0.01</td>
<td>mg/L</td>
<td>300.0</td>
</tr>
<tr>
<td>pH</td>
<td>5.0</td>
<td>6.2</td>
<td>6.4</td>
<td>6.1</td>
<td>-</td>
<td>SU</td>
<td>150.1</td>
</tr>
<tr>
<td>Sulphates</td>
<td>50.3</td>
<td>8.5</td>
<td>10.3</td>
<td>13.2</td>
<td>0.1</td>
<td>mg/L</td>
<td>300</td>
</tr>
<tr>
<td>TDS</td>
<td>893</td>
<td>260</td>
<td>305</td>
<td>303</td>
<td>1</td>
<td>mg/L</td>
<td>160.1</td>
</tr>
</tbody>
</table>

ND=None detected

Massachusetts State Certified
Testing Laboratory #MA048

[Signature]

Michael P. Carlson, for
Thorstensen Laboratory Inc.
May, 17, 2004

Boxborough Board of Health
Town Hall
29 Middle Road
Boxborough, MA 01719

Re: Boxborough Transfer Station
Semi-annual Groundwater Monitoring

Dear Board Members:

The Littleton Water Department sampled the monitoring well network at the Boxborough Transfer Station on December 11, 2003. Four monitoring wells (BLF-1 through BLF-4) were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2, Safe Drinking Water Act (SDWA) heavy metals and general water quality parameters. A surface water sample (SW-1) was collected from the wetland located on the southern side of the landfill and sampled for VOCs. A copy of the laboratory report is provided in Appendix A and field measurements with groundwater elevations are included in Appendix B.

Arsenic was detected in wells BLF-3 and BLF-4 at concentrations of 0.078 milligrams per liter (mg/L) and 0.078 mg/L, respectively. These concentrations exceed the US EPA standard of 0.05 mg/L. MTBE was detected in the groundwater sample from BLF-3 at a concentration of 0.94 micrograms per liter (µg/L). All other tested parameters were found to be within acceptable levels for both groundwater and surface water samples at the site.

The next scheduled sampling event is in the Spring of 2004 and will include general water quality parameters, SDWA heavy metals and VOCs. Please call me at (978) 486-3104 with any questions or concerns.

Sincerely,

Gregory A. Woods, PG.
Environmental Analyst

Enclosures
cc: Paul Anderson, DEP, DSWM
Boxborough Planning Board
Nashoba Associated Boards of Health

G:\Water Dept\WATER\GWM\Boxborough\BLF - Boxboro Landfill Reports\BLF-03it.DOC
Monitoring Well Network
Boxborough Landfill/Transfer Station
<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>BLF-1</th>
<th>BLF-2</th>
<th>BLF-3</th>
<th>BLF-4</th>
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<td>ND</td>
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<td>mg/L</td>
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ND=None detected

Massachusetts State Certified
Testing Laboratory #MA048

Michael P. Carlson, for
Thorstensen Laboratory Inc.
August 2, 2004

Mr. Charles Nasser
National Technical Systems
1146 Massachusetts Avenue
Boxboro, MA 01719

Re: Groundwater Monitoring Program

Dear Mr. Nasser:

In compliance with the Town of Boxborough’s Zoning Bylaws and the occupancy permit issued to this facility, the Littleton Water Department sampled the monitoring well network surrounding NTS on June 14, 2004. Four monitoring wells (NTS-1 through NTS-4) were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2 and general water quality parameters. The cooling tower effluent was tested for SDWA heavy metals. A copy of the laboratory reports are provided in Appendix A.

Nitrate levels were low across the site and no VOC’s were detected. Groundwater samples from monitoring well NTS-2 exhibited elevated concentrations of sodium and chloride, which is likely the result of road salt on the driveway and along Massachusetts Avenue. All other groundwater quality parameters measured remain at acceptable levels. No SDWA metals were detected in the cooling tower effluent.

The next sampling event at this site will take place in the spring of 2005 and will include general water quality parameters and VOCs. Please call me at (978) 486-3104 with any questions or concerns and again, we thank you for your continued cooperation.

Sincerely,

[Signature]
Gregory A. Woods, PG.
Environmental Analyst

Enclosures

cc: Boxborough Board of Health
    Boxborough Planning Board
    Nashoba Associated Boards of Health

G:\Water Dept\WATER\GWMP\Boxborough\NTS - National Tech. System\Reports\NTS-04\DOC
August 2, 2004

Mr. Scott Turner  
National Development  
2310 Washington Street  
Newton Lower Falls, MA 02462

Re: Groundwater Monitoring Program  
Boxborough Technical Park: 155 & 159 Swanson Road

Dear Mr. Turner:

In compliance with the Town of Boxborough's Zoning Bylaws and the Special Permit granted to the Boxborough Technical Park (decision #84-18), the Littleton Water Department sampled a subset of the groundwater monitoring network on this property on June 18, 2004. Monitoring wells BTP-1, BTP-4 and BTP-6 were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2 and general water quality parameters. A copy of the laboratory reports are provided in Appendix A.

Elevated sodium was detected in wells BTP-1 and BTP-4 and most likely attributed to nearby road salting activities. No VOCs were identified in any wells and all other water quality parameters measured remain at acceptable levels.

The next sampling event at this site will take place in the spring of 2005 and will include general water quality parameters and VOCs.

Please call me at (978) 486-3104 with any questions or concerns about the groundwater monitoring plan and we thank you for your continued cooperation.

Sincerely,

[Signature]

Gregory A. Woods, P.G.  
Environmental Analyst

Enclosures

cc:  
Boxborough Board of Health ✓  
Boxborough Planning Board  
Nashoba Associated Boards of Health
August 2, 2004

Mr. Fred Begien
Spaulding & Slye
30 Nagog Park
Acton, MA 01720

Re: Groundwater Monitoring Program, 330 Codman Hill Road

Dear Mr. Begien:

In compliance with the Town of Boxborough's Zoning Bylaws and the groundwater monitoring program established for this facility, the Littleton Water Department sampled the monitoring well network at 330 Codman Hill Road on June 15, 2004. Monitoring wells CHRT-1, CHRT-2, CHRT-3 and CHRT-4 were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2 and general water quality parameters. A copy of the laboratory report is provided in Appendix A.

Nitrate levels were again very low across the site and no VOCs were identified in any of the wells. Sodium levels were elevated in wells CHRT-3 and CHRT-4 and most likely due to nearby road salting activities.

The groundwater-sampling program for this facility remains on an annual schedule. The next sampling event will be conducted in the spring of 2005 and will include VOCs and general water quality parameters. Thank you for your continued cooperation with this important program; please call me at (978) 486-3104 with any questions or concerns.

Sincerely,

Gregory A. Woods, PG.
Environmental Analyst

Enclosures
cc: Boxborough Board of Health
Boxborough Planning Board
Nashoba Associated Boards of Health

G:\Water Dept\WATER\GWMP\Boxborough\CHRT - 330 Codman Hill\Reports\330Codman-04i.DOC
August 2, 2004

Mr. Fred Begien
Spaulding & Slye
30 Nagog Park
Acton, MA 01720

Re: Groundwater Monitoring Program, 1300 Mass. Avenue

Dear Mr. Begien,

In compliance with the Town of Boxborough's Zoning Bylaws, the Littleton Water Department sampled the groundwater monitoring well network at 1300 Mass Avenue on June 16, 2004. Four monitoring wells (NC13-1, NC13-2, NC13-3, and NC13-4) were sampled and analyzed for volatile organic compounds (VOCs) via EPA method 524.2 and general water quality parameters. A copy of the laboratory reports are provided in Appendix A.

Laboratory data of groundwater samples collected from the site indicate that all groundwater quality parameters measured remain at acceptable levels. No VOCs were detected in any of the four groundwater monitoring wells and nitrate levels are below the allowable limit of 10 milligrams per liter (mg/L).

The next sampling event at this site will take place in the spring of 2005 and will include general water quality parameters and VOCs. Please call me at (978) 486-3104 with any questions or concerns and again, we thank you for your continued cooperation.

Sincerely,

Gregory A. Woods, P.G.
Environmental Analyst

Enclosures

cc: Boxborough Board of Health
Boxborough Planning Board
Nashoba Associated Boards of Health
Monitoring Well Network
Renaissance Technology Building
1300 Massachusetts Avenue

Kurian Ltd. Partnership
Report Number: C-76089

Client:

Business Manager
Boxboro School Dept.
493 Massachusetts Ave.
Boxboro, MA 01719

Sample Taken By: P. McGovern
On: 8/21/03

CERTIFICATE OF ANALYSIS

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<th>TEST PARAMETER</th>
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<td>Boxboro Fire</td>
<td>BDL</td>
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<td>BDL</td>
<td>mg/L</td>
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<tr>
<td>Police Station</td>
<td>BDL</td>
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<td>BDL</td>
<td>mg/L</td>
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Date of Analysis: 8/22/03 8/22/03 8/22/03
Method of Analysis: EPA 300.0 4500B 350.3 mg/L
Method Detection Limit: 0.01 0.01 0.03

BDL= below detection limit
#-Exceeds EPA Limit

Massachusetts State Certified Testing Laboratory #MA048

Michael P. Carlson, for Thorstensen Laboratory, Inc.