



engineering and constructing a better tomorrow

August 10, 2009

Mr. Joseph T. Martella II, Senior Engineer  
RIDEM Office of Waste Management  
Site Remediation Program  
235 Providence Street  
Providence, RI 02908

**RE: Short Term Response Action Closure Report  
Retail Complex Sub-Slab Soil Mitigation  
Former Gorham Manufacturing Facility  
333 Adelaide Avenue, Providence, Rhode Island  
MACTEC Project No. 3650080114.10**

Dear Mr. Martella:

This letter presents the Short Term Response Action Closure Report for the installation of vapor mitigation systems at the Retail Complex referenced above. The purpose of this report is to document the installation of the system components and present record information. An Active Soil Depressurization (ASD) system was installed in each of the four retail spaces. The objective of these ASD systems was to remove the soil vapor from beneath the building slab so that it does not migrate into the indoor air of the retail spaces. These mitigation activities were conducted consistent with Short Term Response Action Work Plan, submitted by MACTEC Engineering and Consulting, Inc. (MACTEC) to Rhode Island Department of Environmental Management (RIDEM) on May 9, 2008 and the Order of Approval (July 24, 2008) and Order of Approval Addendum (August 7, 2008).

#### **ASD SYSTEM INSTALLATION**

A community notice was prepared in English and Spanish and distributed to residents, on August 18, 2008, in the Reservoir Triangle Neighborhood describing the proposed work. Textron's subcontractor Clean Harbors Environmental Services (CHES) of Norwell, MA mobilized to the Site on October 7, 2008 and began preparation for the system installation.

Five extraction wells were installed in the large retail space (EW-1 through EW-5), and one well

was installed in both the small central retail space (EW-6) and small western retail space (EW-7). In addition, seven vacuum monitoring wells were installed in the Retail Complex. Four were installed in the large retail space (VMW-1 through VMW-4) and one each in the three other small retail spaces (VMW-5 through VMW-7). Refer to the record drawings (Appendix A) for the soil gas extraction well and vacuum monitoring well locations.

The extraction wells were advanced to ten feet below the top of the concrete floor slab with a Geoprobe 6620DT track mounted drill rig using 6.5” hollow stem augers. They were screened from 5 to 10 feet below the top of concrete with 0.010 slot, 2” diameter, schedule 80 PVC. Extraction well details are included in well diagrams in Appendix B. The solid extraction well risers extend to the bottom of the floor slab, which was saw-cut from the nearest steel column to the extraction well. The extraction well risers were solvent welded, at the elevation of the bottom of the concrete slab, to horizontal sections of 3” diameter, schedule 80 PVC pipe. The horizontal sections of PVC pipe were solvent welded to 60 degree elbows, which were solvent welded to similar vertical pipe. The vertical pipes were fastened to the adjacent steel columns and continued above the suspended ceiling.

The extraction well piping continues north, above the suspended ceiling, to the back walls of the large retail space, the central small retail space, and the western small retail space. The roof joists in the western small retail space are exposed since there is no suspended ceiling. The piping is supported by joist hangers at regular spacing above the suspended ceiling, and it is sloped slightly toward the extraction well.

Piping for EW-1 through EW-4 was routed to an ASD system enclosure (see record drawing for location) through the north exterior wall of the large retail space. The piping from these four extraction wells is manifolded into one pipe inside the ASD enclosure. The ASD enclosure contains a 3 hp Rotron regenerative blower, condensate drum, 2-400 lb carbon drums (Siemens–Westates™ brand Vent-Scrub™ Vapor Phase Absorbers, VSC-400 model) in series, an emissions stack (vented to the atmosphere), and a control panel. There are sampling ports and vacuum gauges before and after the carbon drums. Textron registered the air pollution equipment, VSC-400 Vapor Phase Absorbers, with the RIDEM’s Office of Air Resources on August 15, 2008.

The ASD enclosure was supplied by ESD Waste 2 Water Inc. of Ocala, FL, and installed by CHES on an 8” thick reinforced concrete pad on January 8, 2009. The concrete pad was

constructed on 6” of compacted crushed stone bedding. The crushed stone bedding was certified “clean” by the supplier. The certification is included in Appendix C. An 8 ft high chain link fence, with a gate, was installed (on April 24, 2009) around the ASD enclosure to prevent unauthorized entry or vandalism.

Piping for EW-5, EW-6, and EW-7 was routed to the north walls of the large retail space, the central small retail space, and the western small retail space respectively. After penetrating their respective north walls, EW-5, EW-6, and EW-7 were connected to radon type fans (Fantech HP220) and vented to the atmosphere. All extraction wells are set in flush-mounted floor “vaults” or road boxes large enough to accommodate sample ports on the horizontal section of the piping.

Seven vacuum monitoring wells (locations shown on the record drawings) were advanced to eight feet below the bottom of the concrete floor slab using the direct push component of a Geoprobe 6620DT track mounted drill rig. Each vacuum monitoring well was installed approximately 50 ft away from its respective extraction well, they were not connected to the extraction wells, and they function to measure the vacuum in the vadose zone exerted by the ASD. These monitoring wells are constructed of a 12” vapor monitoring implant installed at the bottom of the boring. Teflon tubing (3/8”) extends from the vapor monitoring implant to the ground surface with a sample valve set in a 4” diameter flush mounted road box. Vacuum monitoring well details and soil boring logs are included in Appendix B and Appendix D respectively.

Soil removed during construction was placed in drums and removed offsite by CHES under a signed manifest (Appendix E). Any soil exposed during installation of the extraction wells and vacuum monitoring wells was grouted with non-shrink grout to eliminate potential migration pathways. Imported soil from off-site was not used for extraction well and vacuum monitoring well construction.

Since installation, the ASD system has been regularly monitored by the current operation and maintenance (O&M) contractor, CHES. ASD System monitoring forms are included in Appendix F. The system is also equipped with a remote communication system, which sends out a daily facsimile to CHES and will contact CHES in the event of a “no flow” condition or equipment failure.

Substantial completion was achieved for the ASD system installation on February 26, 2009.

### **SAMPLING AND REPORTING**

MACTEC collected baseline compliance air samples on January 16, 2009 as described in the Order of Approval and Order of Approval Addendum. Then, on January 29, 2009, CHES performed system start-up and began system O&M.

Implementation of the long term vapor and air-monitoring compliance sampling program, as required by the RIDEM Order of Approval, began on February 3, 2009. Compliance sampling consisted of 4 indoor air samples inside the large retail space (IA-1, IA-2, IA-3, and IA-4); one indoor air sample in each of the smaller retail spaces (IA-5, IA-6, and IA-7 in the eastern small retail space, central small retail space, and the western small retail space respectively); one soil gas sample from each of the extraction wells in the small retail spaces (EW-5, EW-6, and EW-7 in the larger retail space, central small retail space, and the western small retail space respectively); and one sample from the combined air stream of the four extraction wells EW-1 through EW-4 (EW-Combined). One sample was also collected from the effluent of the carbon treatment unit (EW-Post Carbon) to evaluate the air pollution control equipment. In addition, vacuum pressure is measured at all vacuum monitoring wells during sampling events. A vacuum, above 0.010 inches of water, has been consistently detected at each vacuum monitoring well.

Summaries of the laboratory analytical data and discussion of these results has been presented in Indoor Air Sampling reports, dated February 17, 2009, March 6, 2009, and April 7, 2009 and the Quarterly Air Monitoring Report (June 23, 2009). Collectively, these reports summarize the analytical results of baseline sampling and compliance sampling through May 31, 2009. All original laboratory analytical data results were included the quarterly report. Select photographs from the ASD system installation and sampling events are included in Appendix G.

### **PROPOSED SCHEDULE**

Textron will continue monitoring the ASD system consistent with the Order of Approval and Order of Approval Addendum for the Short Term Response Action. The second quarterly air monitoring report for June 2009 through August 2009 will be prepared in September 2009.

Please contact either Chuck Collet at (781) 245-6606 or Greg Simpson of Textron at (401) 457-2635 with any questions.

Sincerely,  
**MACTEC Engineering and Consulting, Inc.**



Philip J. Muller  
Project Engineer



Chuck Collet  
Project Manager

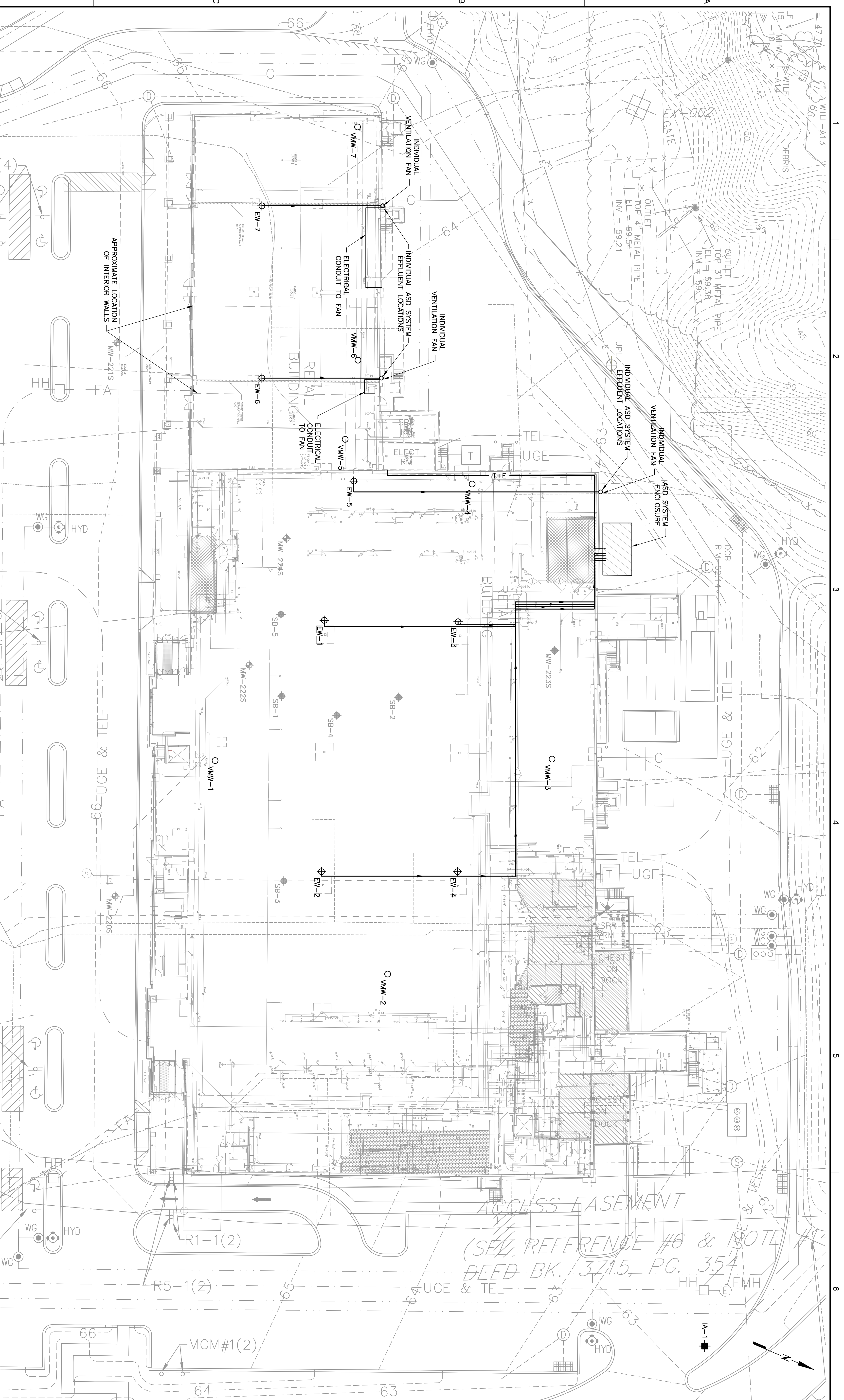
Attachments: Appendix A: Record Drawings  
Appendix B: Well Diagrams  
Appendix C: Clean Fill Certificate  
Appendix D: Boring Logs  
Appendix E: Soil Disposal Manifests  
Appendix F: ASD System Monitoring Form  
Appendix G: Select Photos

cc: T. Deller, City of Providence  
P. Grivers, EA Engineering, Science, and Technology  
G. Simpson, Textron, Inc. (Electronic)  
J. Schiff, Textron, Inc. (Electronic)  
G. Wilson, Kimco Realty  
J. Morgan, Stop & Shop, LLC  
Knight Memorial Library Repository  
MACTEC Project File [P:\3650080114 - Textron Gorham Vapor Mitigation System\4.0 Project Deliverables\4.1 Reports\Closure Report]

## **APPENDIX A**

### **Record Drawings**





**DRAWING REFERENCES:**

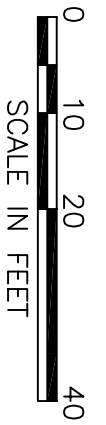
1. PROPOSED GRADING, DRAINAGE, SEDIMENTATION, AND EROSION CONTROL PLAN DRAWING C-4, FOR CONSTRUCTION AUGUST 24, 2001. DRAWING C-4 MATERIALS AND UTILITIES PLAN SEPTEMBER 07, 2001, PREPARED BY VANASSE HANGEN BRUSTLIN, INC. FOR CHURCHILL & BANKS MASHAPUIG COMMONS PROVIDENCE, RHODE ISLAND
2. SUPER STOP & SHOP - #733 DRAWINGS LATEST REVISION JUNE 07, 2007 PREPARED BY: CARTER BURGESS, CAMBRIDGE, MASSACHUSETTS FOR CHURCHILL & BANKS MASHAPUIG COMMONS PROVIDENCE, RHODE ISLAND

**NOTES:**

1. FINAL EXTRACTION WELL AND EXTRACTION WELL PIPING LOCATIONS TO BE BASED UPON PER-CONSTRUCTION SITE INVESTIGATION AND AS APPROVED BY THE ENGINEER AND OWNER.
2. SUPPORTS FOR EXTRACTION WELL PIPING SHALL BE INSTALLED AT LEAST EVERY 6 FEET ON HORIZONTAL RUNS. VERTICAL RUNS SHALL BE SECURED EITHER ABOVE OR BELOW THE POINTS OF PENETRATION THROUGH FLOORS AND CEILINGS, AND AT LEAST EVERY 8 FEET ON RUNS THAT DO NOT PENETRATE FLOOR OR CEILINGS. INTERIOR AND EXTERIOR HANGERS (GLENS-TYPE) AND SUPPORTS SHALL BE GALVANIZED STEEL, EXCEPT THAT PIPE CLAMPS MAY BE CONSTRUCTED OF INLON (CLIC) SYSTEM OR EQUIVALENT. EXTERIOR PIPE SUPPORTS SHALL HAVE A DESIGN THAT IS APPROPRIATE FOR SUPPORT OF INSULATED AND HEAT-TRACED PIPING. HORIZONTAL RUNS OF EXTRACTION WELL PIPING SHALL BE SLOPED TO ENSURE THAT WATER FROM RAIN OR CONDENSATE DRAINS DOWNWARD INTO THE EXTRACTION WELL(S) TO THE EXTENT PRACTICABLE.
3. FINAL DISCHARGE LOCATIONS FOR BOTH THE MAIN AND INDIVIDUAL ASD SYSTEMS SHALL BE LOCATED AT LEAST 10 FEET ABOVE GROUND LEVEL ABOVE THE EDGE OF THE ROOF, AND 10 FEET OR MORE AWAY FROM ANY WINDOW, DOOR, OR OTHER OPENING INTO CONDITIONED SPACES INTENDED FOR OCCUPANCY. IF THE DISCHARGE LOCATION IS NOT AT LEAST 2 FEET ABOVE SUCH OPENINGS.
4. OUTSIDE AMBIENT AIR LOCATION TO BE DETERMINED BASED UPON WIND DIRECTION AT TIME OF SAMPLING. SAMPLE SHALL BE COLLECTED UPWIND.
5. ALL VISIBLE CRACKS IN THE FLOOR EITHER EXISTING OR THE RESULT OF CONSTRUCTION ARE TO BE SEALED USING EPOXY OR SIMILAR METHOD PRIOR TO EXTRACTION WELL AND VACUUM MONITORING WELL LOCATIONS SURVEYED BY CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. IN MAY 2009.

**LEGEND:**

- SB-5 ◆ GROUNDWATER MONITORING WELL
- MW-224S ◆ VACUUM MONITORING WELL
- EW-7 ⊕ EXTRACTION WELL
- VW-1 ○ VACUUM MONITORING WELL
- ⊕ PROPOSED INDOOR/AMBIENT AIR MONITORING LOCATION



MACTEC Engineering and Consulting, Inc.  
P.O. Box 7050, 511 Congress Street  
Portland, Maine 04112-7050  
(207) 775-5401

**Civil  
EXISTING CONDITIONS PLAN  
AND PROPOSED LAYOUT**

Active Soil Depressurization System Design  
Former Gorham Manufacturing Facility  
Parcel A Retail Complex  
333 Adelaide Avenue, Providence, Rhode Island

2	06/24/09	RECORD DRAWING		
1	09/15/08	ISSUED FOR CONSTRUCTION		
0	08/05/08	ISSUED FOR BID	SCP	CAC
C	07/08/08	FINAL TO RIDEM FOR APPROVAL	SCP	CAC
B	04/01/08	SUBMITTAL TO RIDEM	SCP	DEH
A	02/04/08	DRAFT FOR CLIENT REVIEW	SCP	DEH
REVISION			BY	APVD
NO.	DATE	CHK	APVD	CAC
DSGN		DR		
		RTB		
		DEL	SCP	

DATE	3650-08-0114
PROJ	C-101
DWG	
SHEET	2 OF 5

THIS DRAWING IS THE PROPERTY OF MACTEC, INCLUDING ALL PATENTED AND PATENTABLE FEATURES, AND/OR CONFIDENTIAL INFORMATION AND ITS USE IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO REPRODUCE THE DRAWING, IN WHOLE OR PART, NOR THE MATERIAL DESCRIBED THEREON, NOR THE USE OF THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY MACTEC.



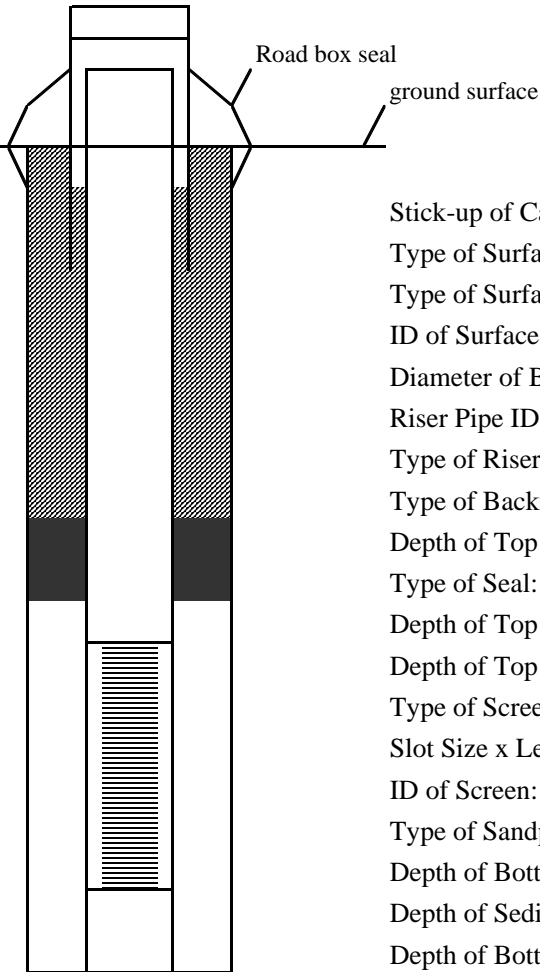




**APPENDIX B**  
**Well Diagrams**

## MONITORING WELL DIAGRAM

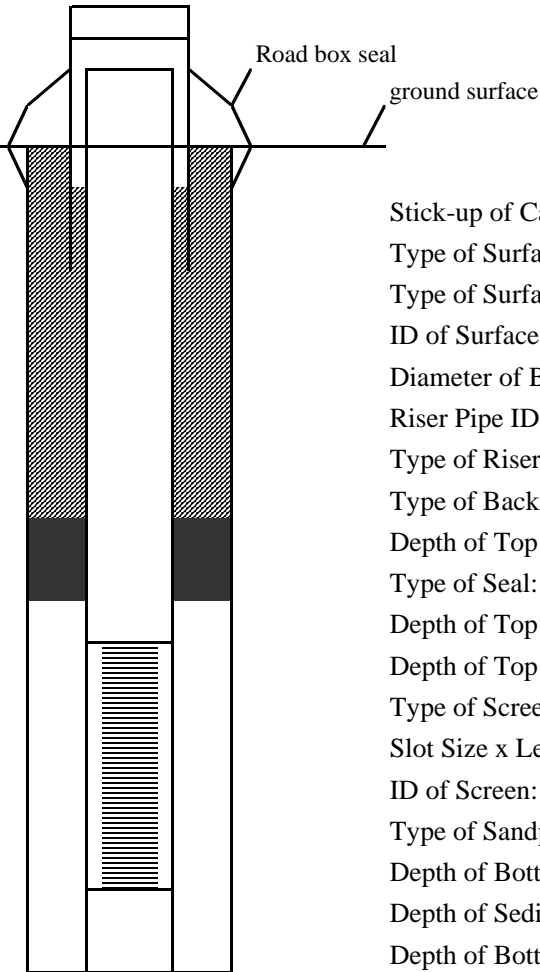
<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> EW-1
<b>Date Installed:</b> 10/8/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114	<b>Drilling Method:</b> HSE/Direct Push
<b>Field Geologist:</b> M.Maggiore	<b>Development Method:</b> None



Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum/steel
ID of Surface Casing:	12"
Diameter of Borehole:	6.5"
Riser Pipe ID:	2"
Type of Riser Pipe:	Sch 80 pvc
Type of Backfill:	Crushed stone
Depth of Top Seal:	2'
Type of Seal:	3/8" Bentonite chips
Depth of Top of Sand:	4'
Depth of Top of Screen:	5'
Type of Screen:	2" pvc
Slot Size x Length:	.010 x 5'
ID of Screen:	2"
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	10
Depth of Sediment Sump with Plug:	10'
Depth of Bottom of Borehole:	11'

## MONITORING WELL DIAGRAM

<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> EW-2
<b>Date Installed:</b> 10/9/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114	<b>Drilling Method:</b> HSE/Direct Push
<b>Field Geologist:</b> M.Maggiore	<b>Development Method:</b> None

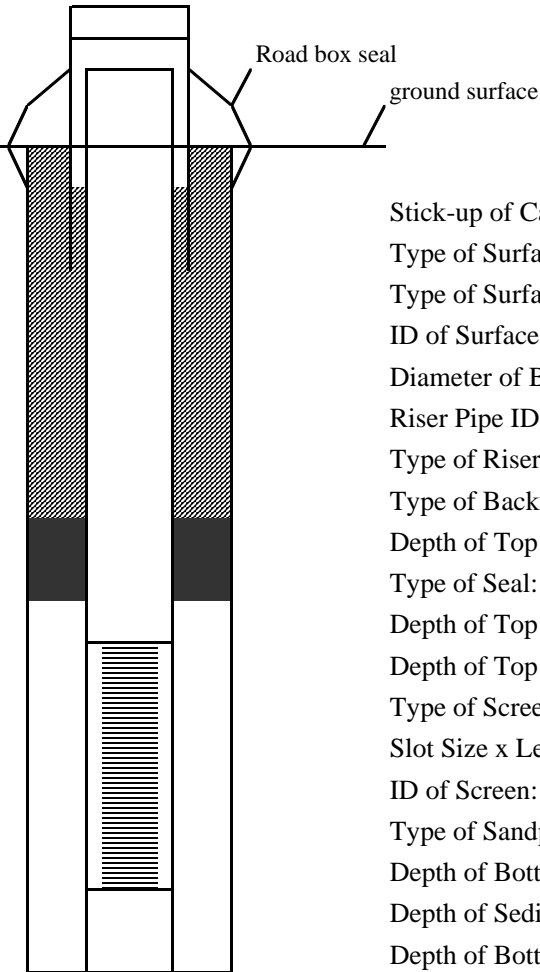


Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum/steel
ID of Surface Casing:	12"
Diameter of Borehole:	6.5"
Riser Pipe ID:	2"
Type of Riser Pipe:	Sch 80 pvc
Type of Backfill:	Crushed stone
Depth of Top Seal:	2'
Type of Seal:	3/8" Bentonite chips
Depth of Top of Sand:	4'
Depth of Top of Screen:	5'
Type of Screen:	PVC
Slot Size x Length:	.010 x 5'
ID of Screen:	2"
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	10
Depth of Sediment Sump with Plug:	10'
Depth of Bottom of Borehole:	11'



## MONITORING WELL DIAGRAM

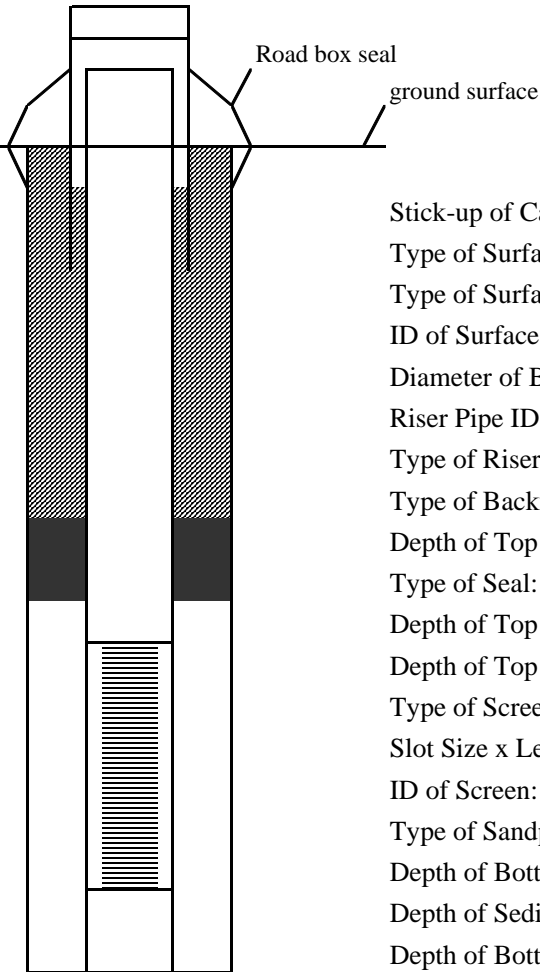
<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> EW-3
<b>Date Installed:</b> 10/8/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114	<b>Drilling Method:</b> HSE/Direct Push
<b>Field Geologist:</b> M.Maggiore	<b>Development Method:</b> None



Stick-up of Casing Above Ground Surface:	<u>Flush</u>
Type of Surface Seal/Other Protection:	<u>Concrete</u>
Type of Surface Casing:	<u>Aluminum/steel</u>
ID of Surface Casing:	<u>12"</u>
Diameter of Borehole:	<u>6.5"</u>
Riser Pipe ID:	<u>2"</u>
Type of Riser Pipe:	<u>Sch 80 pvc</u>
Type of Backfill:	<u>Crushed stone</u>
Depth of Top Seal:	<u>1'</u>
Type of Seal:	<u>3/8" Bentonite chips</u>
Depth of Top of Sand:	<u>3'</u>
Depth of Top of Screen:	<u>4'</u>
Type of Screen:	<u>2" pvc</u>
Slot Size x Length:	<u>.010 x 5'</u>
ID of Screen:	<u>2"</u>
Type of Sandpack:	<u>20/30 silica sand</u>
Depth of Bottom of Screen:	<u>9'</u>
Depth of Sediment Sump with Plug:	<u>9'</u>
Depth of Bottom of Borehole:	<u>9.5'</u>

## MONITORING WELL DIAGRAM

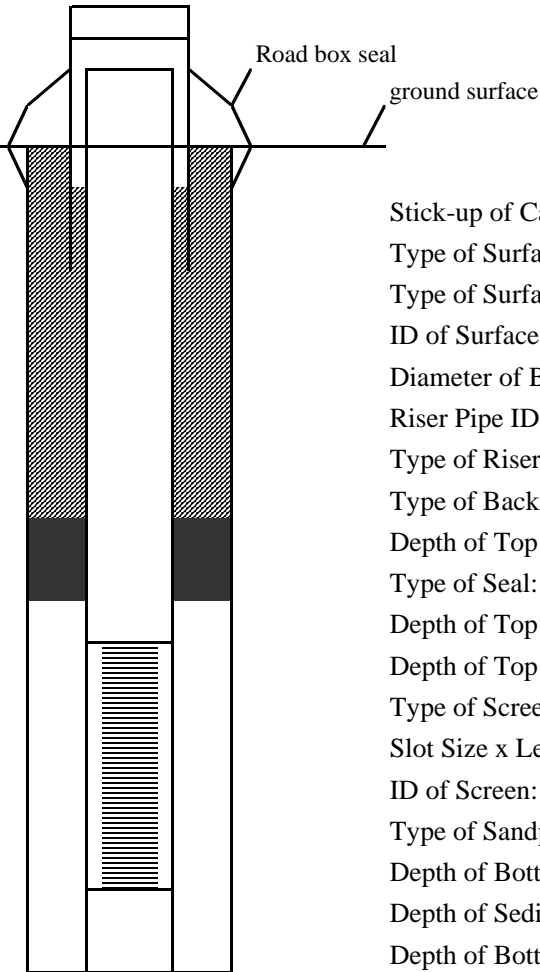
<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> EW-4
<b>Date Installed:</b> 10/8/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114	<b>Drilling Method:</b> HSE/Direct Push
<b>Field Geologist:</b> M.Maggiore	<b>Development Method:</b> None



Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum/steel
ID of Surface Casing:	12"
Diameter of Borehole:	6.5"
Riser Pipe ID:	2"
Type of Riser Pipe:	Sch 80 pvc
Type of Backfill:	Crushed stone
Depth of Top Seal:	2'
Type of Seal:	3/8" Bentonite chips
Depth of Top of Sand:	4'
Depth of Top of Screen:	5'
Type of Screen:	2" PVC
Slot Size x Length:	.010 x 5'
ID of Screen:	2"
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	10
Depth of Sediment Sump with Plug:	10'
Depth of Bottom of Borehole:	11'

## MONITORING WELL DIAGRAM

<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> EW-5
<b>Date Installed:</b> 10/8/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114	<b>Drilling Method:</b> HSE/Direct Push
<b>Field Geologist:</b> M.Maggiore	<b>Development Method:</b> None

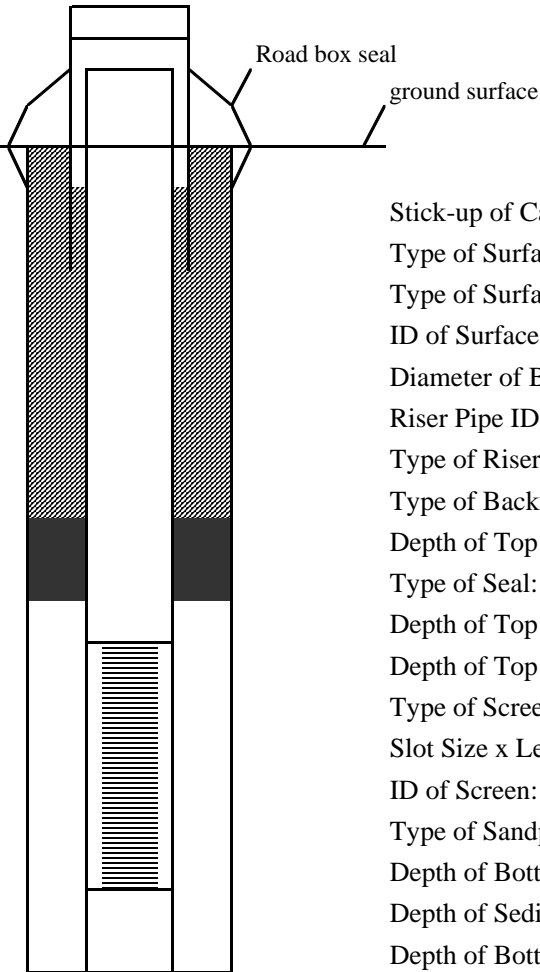


Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum/steel
ID of Surface Casing:	12"
Diameter of Borehole:	6.5"
Riser Pipe ID:	2"
Type of Riser Pipe:	Sch 80 pvc
Type of Backfill:	Crushed stone
Depth of Top Seal:	1'
Type of Seal:	3/8" Bentonite chips
Depth of Top of Sand:	3'
Depth of Top of Screen:	4'
Type of Screen:	2" pvc
Slot Size x Length:	.010 x 5'
ID of Screen:	2"
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	9'
Depth of Sediment Sump with Plug:	10'
Depth of Bottom of Borehole:	10'



## MONITORING WELL DIAGRAM

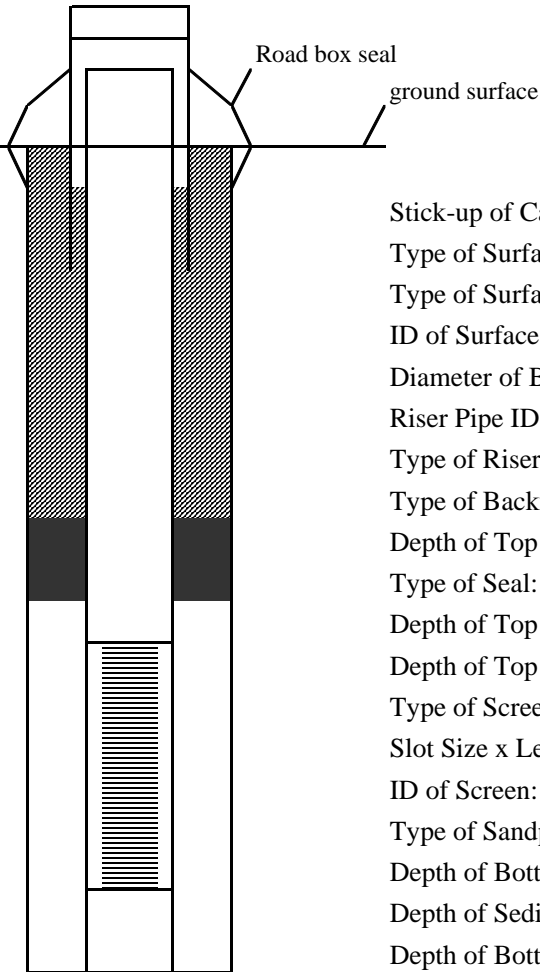
<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> EW-6
<b>Date Installed:</b> 10/8/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114	<b>Drilling Method:</b> HSE/Direct Push
<b>Field Geologist:</b> M.Maggiore	<b>Development Method:</b> None



Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum/steel
ID of Surface Casing:	12"
Diameter of Borehole:	6.5"
Riser Pipe ID:	2"
Type of Riser Pipe:	Sch 80 pvc
Type of Backfill:	Crushed stone
Depth of Top Seal:	1'
Type of Seal:	3/8" Bentonite chips
Depth of Top of Sand:	3'
Depth of Top of Screen:	4'
Type of Screen:	2" PVC
Slot Size x Length:	.010 x 5'
ID of Screen:	2"
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	9'
Depth of Sediment Sump with Plug:	10'
Depth of Bottom of Borehole:	10'

## MONITORING WELL DIAGRAM

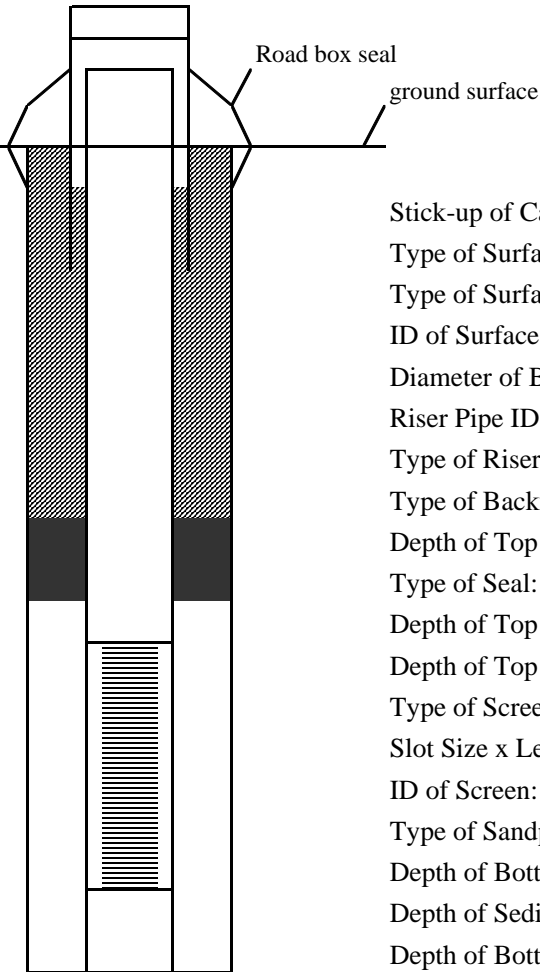
<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> EW-7
<b>Date Installed:</b> 10/9/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114	<b>Drilling Method:</b> HSE/Direct Push
<b>Field Geologist:</b> M.Maggiore	<b>Development Method:</b> None



Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum/steel
ID of Surface Casing:	12"
Diameter of Borehole:	6.5"
Riser Pipe ID:	2"
Type of Riser Pipe:	Sch 80 pvc
Type of Backfill:	Crushed stone
Depth of Top Seal:	1'
Type of Seal:	3/8" Bentonite chips
Depth of Top of Sand:	3'
Depth of Top of Screen:	4'
Type of Screen:	2" PVC
Slot Size x Length:	.010 x 5'
ID of Screen:	2"
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	9'
Depth of Sediment Sump with Plug:	10'
Depth of Bottom of Borehole:	10'

## MONITORING WELL DIAGRAM

<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> VMW-1
<b>Date Installed:</b> 10/10/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114.09	<b>Drilling Method:</b> Direct Push
<b>Field Geologist:</b> M. Maggiore	<b>Development Method:</b> N/A

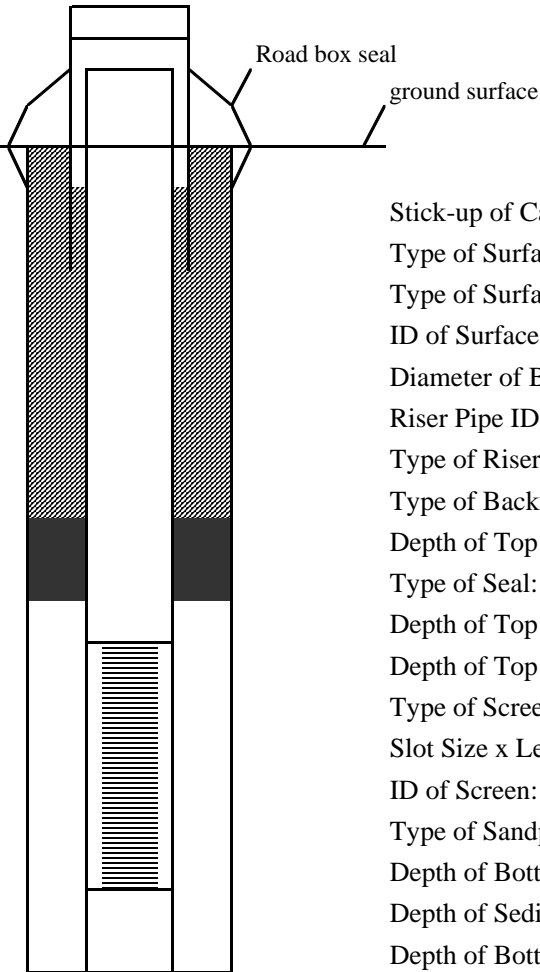


Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum
ID of Surface Casing:	4"
Diameter of Borehole:	3"
Riser Pipe ID:	N/A
Type of Riser Pipe:	N/A
Type of Backfill:	Approved excavated material
Depth of Top Seal:	1"
Type of Seal:	Hydrated bentonite slurry
Depth of Top of Sand:	8'
Depth of Top of Screen:	N/A
Type of Screen:	N/A
Slot Size x Length:	N/A
ID of Screen:	N/A
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	N/A
Depth of Sediment Sump with Plug:	N/A
Depth of Bottom of Borehole:	10'



## MONITORING WELL DIAGRAM

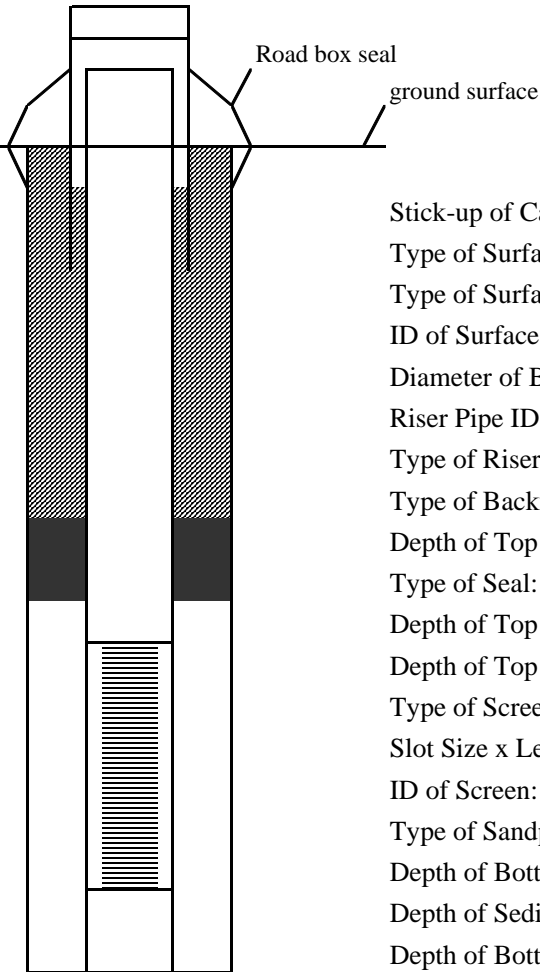
<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> VMW-2
<b>Date Installed:</b> 10/10/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114.09	<b>Drilling Method:</b> Direct Push
<b>Field Geologist:</b> M. Maggiore	<b>Development Method:</b> N/A



Stick-up of Casing Above Ground Surface:	<u>Flush</u>
Type of Surface Seal/Other Protection:	<u>Concrete</u>
Type of Surface Casing:	<u>Aluminum</u>
ID of Surface Casing:	<u>4"</u>
Diameter of Borehole:	<u>3"</u>
Riser Pipe ID:	<u>N/A</u>
Type of Riser Pipe:	<u>N/A</u>
Type of Backfill:	<u>Approved excavated material</u>
Depth of Top Seal:	<u>1"</u>
Type of Seal:	<u>Hydrated bentonite slurry</u>
Depth of Top of Sand:	<u>6'</u>
Depth of Top of Screen:	<u>N/A</u>
Type of Screen:	<u>N/A</u>
Slot Size x Length:	<u>N/A</u>
ID of Screen:	<u>N/A</u>
Type of Sandpack:	<u>20/30 silica sand</u>
Depth of Bottom of Screen:	<u>N/A</u>
Depth of Sediment Sump with Plug:	<u>N/A</u>
Depth of Bottom of Borehole:	<u>8'</u>

## MONITORING WELL DIAGRAM

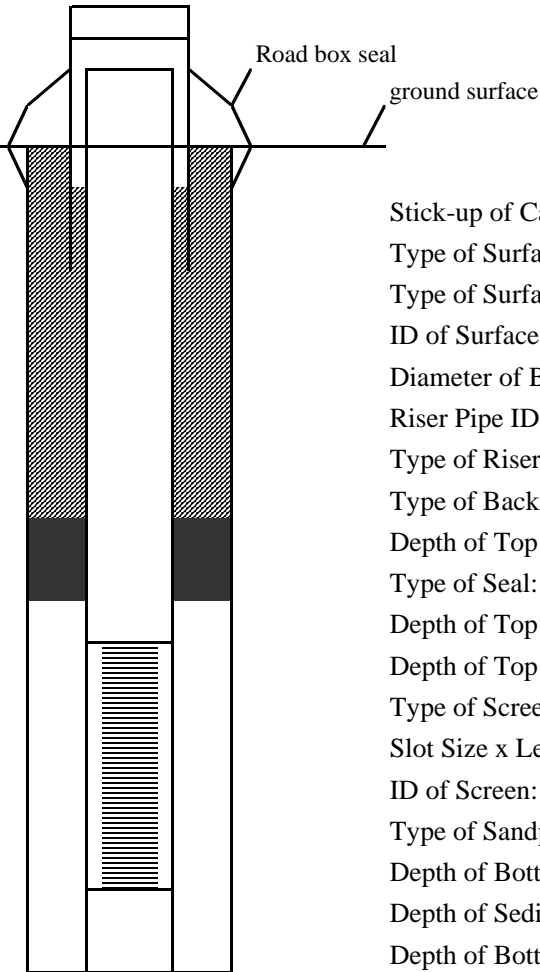
<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> VMW-3
<b>Date Installed:</b> 10/10/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114.09	<b>Drilling Method:</b> Direct Push
<b>Field Geologist:</b> M. Maggiore	<b>Development Method:</b> N/A



Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum
ID of Surface Casing:	4"
Diameter of Borehole:	3"
Riser Pipe ID:	N/A
Type of Riser Pipe:	N/A
Type of Backfill:	Approved excavated material
Depth of Top Seal:	1"
Type of Seal:	Hydrated bentonite slurry
Depth of Top of Sand:	8'
Depth of Top of Screen:	N/A
Type of Screen:	N/A
Slot Size x Length:	N/A
ID of Screen:	N/A
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	N/A
Depth of Sediment Sump with Plug:	N/A
Depth of Bottom of Borehole:	10'

## MONITORING WELL DIAGRAM

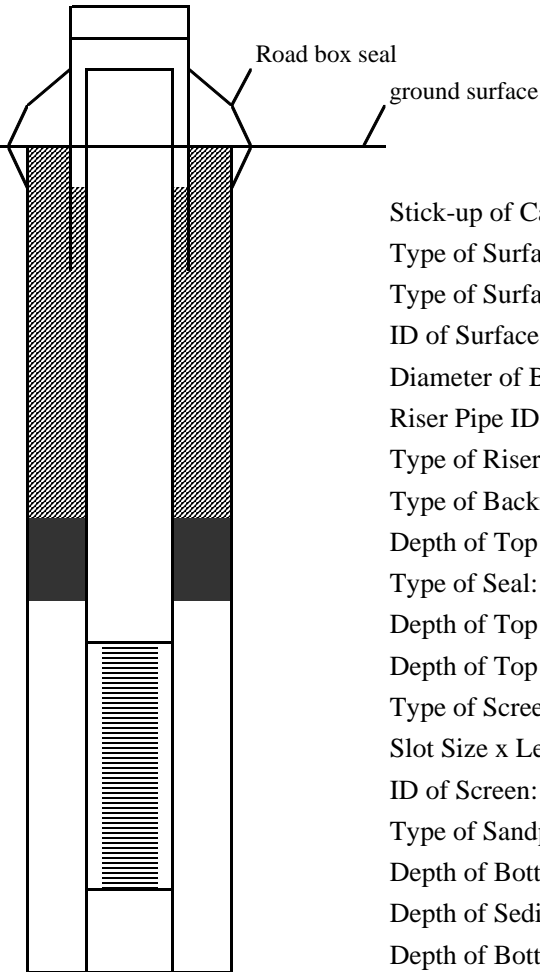
<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> VMW-4
<b>Date Installed:</b> 10/10/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114.09	<b>Drilling Method:</b> Direct Push
<b>Field Geologist:</b> M. Maggiore	<b>Development Method:</b> N/A



Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum
ID of Surface Casing:	4"
Diameter of Borehole:	3"
Riser Pipe ID:	N/A
Type of Riser Pipe:	N/A
Type of Backfill:	Approved excavated material
Depth of Top Seal:	1"
Type of Seal:	Hydrated bentonite slurry
Depth of Top of Sand:	6'
Depth of Top of Screen:	N/A
Type of Screen:	N/A
Slot Size x Length:	N/A
ID of Screen:	N/A
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	N/A
Depth of Sediment Sump with Plug:	N/A
Depth of Bottom of Borehole:	8'

## MONITORING WELL DIAGRAM

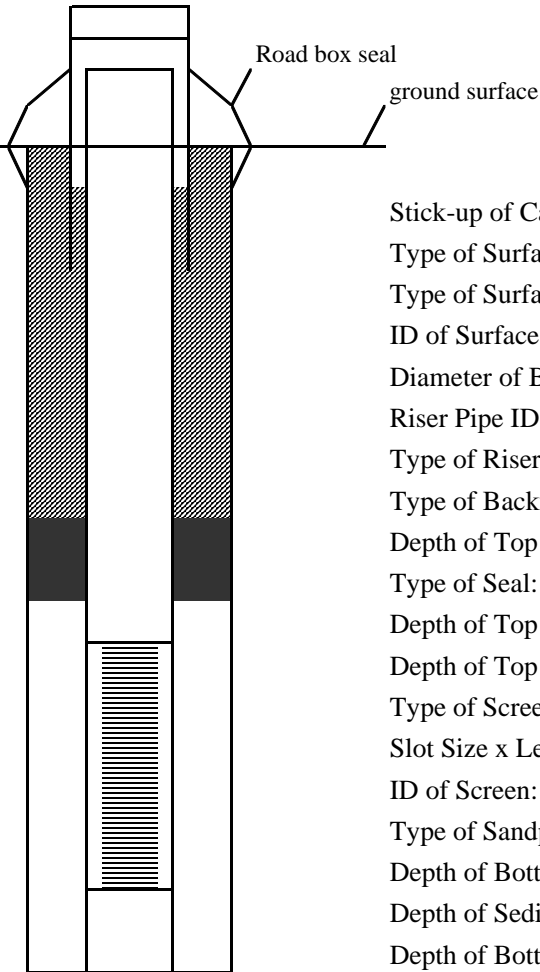
<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> VMW-5
<b>Date Installed:</b> 10/10/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114.09	<b>Drilling Method:</b> Direct Push
<b>Field Geologist:</b> M. Maggiore	<b>Development Method:</b> N/A



Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum
ID of Surface Casing:	4"
Diameter of Borehole:	3"
Riser Pipe ID:	N/A
Type of Riser Pipe:	N/A
Type of Backfill:	Approved excavated material
Depth of Top Seal:	1"
Type of Seal:	Hydrated bentonite slurry
Depth of Top of Sand:	8'
Depth of Top of Screen:	N/A
Type of Screen:	N/A
Slot Size x Length:	N/A
ID of Screen:	N/A
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	N/A
Depth of Sediment Sump with Plug:	N/A
Depth of Bottom of Borehole:	10'

## MONITORING WELL DIAGRAM

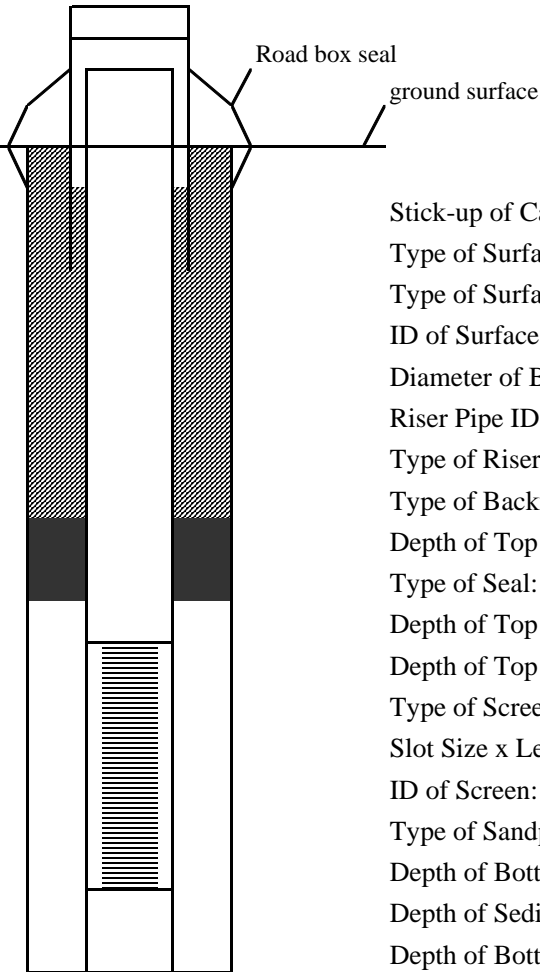
<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> VMW-6
<b>Date Installed:</b> 10/9/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114.09	<b>Drilling Method:</b> Direct Push
<b>Field Geologist:</b> M. Maggiore	<b>Development Method:</b> N/A



Stick-up of Casing Above Ground Surface:	Flush
Type of Surface Seal/Other Protection:	Concrete
Type of Surface Casing:	Aluminum
ID of Surface Casing:	4"
Diameter of Borehole:	3"
Riser Pipe ID:	N/A
Type of Riser Pipe:	N/A
Type of Backfill:	Approved excavated material
Depth of Top Seal:	1"
Type of Seal:	Hydrated bentonite slurry
Depth of Top of Sand:	6'
Depth of Top of Screen:	N/A
Type of Screen:	N/A
Slot Size x Length:	N/A
ID of Screen:	N/A
Type of Sandpack:	20/30 silica sand
Depth of Bottom of Screen:	N/A
Depth of Sediment Sump with Plug:	N/A
Depth of Bottom of Borehole:	8'

## MONITORING WELL DIAGRAM

<b>Project Name:</b> Textron Gorham ASD Installation	<b>Boring No:</b> VMW-7
<b>Date Installed:</b> 10/10/2008	<b>Contractor:</b> Geotech
<b>Project No.:</b> 3650080114.09	<b>Drilling Method:</b> Direct Push
<b>Field Geologist:</b> M. Maggiore	<b>Development Method:</b> N/A



Stick-up of Casing Above Ground Surface:	<u>Flush</u>
Type of Surface Seal/Other Protection:	<u>Concrete</u>
Type of Surface Casing:	<u>Aluminum</u>
ID of Surface Casing:	<u>4"</u>
Diameter of Borehole:	<u>3"</u>
Riser Pipe ID:	<u>N/A</u>
Type of Riser Pipe:	<u>N/A</u>
Type of Backfill:	<u>Approved excavated material</u>
Depth of Top Seal:	<u>1"</u>
Type of Seal:	<u>Hydrated bentonite slurry</u>
Depth of Top of Sand:	<u>6'</u>
Depth of Top of Screen:	<u>N/A</u>
Type of Screen:	<u>N/A</u>
Slot Size x Length:	<u>N/A</u>
ID of Screen:	<u>N/A</u>
Type of Sandpack:	<u>20/30 silica sand</u>
Depth of Bottom of Screen:	<u>N/A</u>
Depth of Sediment Sump with Plug:	<u>N/A</u>
Depth of Bottom of Borehole:	<u>8'</u>



## **APPENDIX C**

### **Clean Fill Certificate**



November 26, 2008

**Clean Harbors Environmental**  
42 Longwater Drive  
Norwell, MA 02061-9149

Contact: **John Irwin**

Fax: 781-792-5938

Dear John,

The purpose of this letter is to certify the 1½" Stone delivered to your project located at Stop & Shop, Adelaid Avenue in Providence, RI is free of any environmental contamination. The product is provided by our facility, Murby's Pit, in Raynham, MA.

John, please contact me directly with any questions you may have at 508-828-0209.

Sincerely,

A handwritten signature in black ink that reads "Tom Gralla". The signature is written in a cursive style with a large initial "T" and "G".

Tom Gralla, Sales Consultant  
G. Lopes Construction, Inc.

THE CHOICE OF EXPERIENCE

## **APPENDIX D**

### **Boring Logs**



**Soil Boring Log**

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring :</b> EW-1		<b>Page 1 of 1</b>	
<b>Project Client:</b>	Textron	<b>Geologist:</b>	M. Maggiore
<b>Date Started:</b>	10/8/2009	<b>Drilling Company:</b>	Geotech
<b>Date Completed:</b>	Same	<b>Drilling Method:</b>	HSE/Direct push
<b>Total Depth:</b>	10'	<b>Depth to Water:</b>	Dry
<b>Project Name:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-5'	0-6":Brownish silt with fine sand. 6"-8": Light brown with some reddish. 8"-1': Light brown coarse sand. 1'-3': Gray dry sand. 3.1'-4':Brown coarse sand, some gravel and silt.	0-5' 4'			
5'-10'	5'-6': Coarse brown/gray silty sand, trace urban fill (brick) 6'-10': Brown medium/coarse sand.	5-11' 4'			

Prepared by: MAM  
Checked by: TRH



### Soil Boring Log

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring :</b> EW-2		<b>Page 1 of 1</b>	
<b>Project Client:</b> Textron	<b>Geologist:</b> M. Maggiore		
<b>Date Started:</b> 10/9/2009	<b>Drilling Company:</b> Geotech		
<b>Date Completed:</b> Same	<b>Drilling Method:</b> HSE/Direct push		
<b>Total Depth:</b> 11'	<b>Depth to Water:</b> Dry		
<b>Project Name:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-4'	0-3': Gray silt, some gravel, dry. 3'-4': Light gray/olive silt, dry.	0-5' 4'			
4'-11'	4'-5.9': Gray silt, some f/c sand, some gravel. 6'-10': Loose sand, trace gravel, some brick fragments.	5-10' 5'			

Prepared by: MAM  
Checked by: TRH



**Soil Boring Log**

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring :</b> EW-3		<b>Page 1 of 1</b>	
<b>Project Client:</b>	Textron	<b>Geologist:</b>	M. Maggiore
<b>Date Started:</b>	10/9/2009	<b>Drilling Company:</b>	Geotech
<b>Date Completed:</b>	Same	<b>Drilling Method:</b>	HSE/Direct push
<b>Total Depth:</b>	10'	<b>Depth to Water:</b>	Dry
<b>Project Name: Retail Complex Active Soil Depressurization System Install-3650080114</b>			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-3'	0-6": Brown/gray silt, some silt and sand, some brick fragments, dry 6"-2.9': Gray/olive fine silty sand.	0-5' 4.5'			
3'-4'	3'-4': Gray/olive fine silty sand				
4'-5'	--	5'-10' 4.5'			
5'-8'	5-6': Brown coarse sand, some silt. 6'-8': Dark brown coarse sand				
8'-10'	8'-9.5': Light brown dry fine sand.				

Prepared by: MAM  
Checked by: TRH





### Soil Boring Log

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring :</b>	<b>EW-4</b>		<b>Page 1 of 1</b>	
<b>Project Client:</b>	Textron	<b>Geologist:</b>	M. Maggiore	
<b>Date Started:</b>	10/8/2009	<b>Drilling Company:</b>	Geotech	
<b>Date Completed:</b>	Same	<b>Drilling Method:</b>	HSE/Direct push	
<b>Total Depth:</b>	11'	<b>Depth to Water:</b>	Dry	
<b>Project Name: Retail Complex Active Soil Depressurization System Install-3650080114</b>				

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-5'	0-1.5': Dark gray dry silt, trace gravel. 1.5'-1.8': Same, with red fragments (brick). 1.8'-2.9': Light brown silt, some gravel.	0-5' 2.9'			
5'-11'	6'-7': Brown/lt. gray silt, some red fragments. 7'-7.5': Same. 7.5'-8.5': Same. 8.5'-11': Med./coarse dry sand, little gravel.	5-10' 4.9'			

Prepared by: MAM  
Checked by: TRH



### Soil Boring Log

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring :</b> EW-5		<b>Page 1 of 1</b>	
<b>Project Client:</b> Textron	<b>Geologist:</b> M. Maggiore		
<b>Date Started:</b> 10/8/2009	<b>Drilling Company:</b> Geotech		
<b>Date Completed:</b> Same	<b>Drilling Method:</b> HSE/Direct push		
<b>Total Depth:</b> 10'	<b>Depth to Water:</b> Dry		
<b>Project Name:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-4'	0-3.2': Gray silt, some vf sand. 3.2'-4': Very fine dry sand.	0-5' 4'			
4'-10'	4'-10': Tan fine to coarse dry sand.	5-10' 4.5'			

Prepared by: MAM  
Checked by: TRH



**Soil Boring Log**

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring :</b> EW-6		<b>Page 1 of 1</b>	
<b>Project Client:</b>	Textron	<b>Geologist:</b>	M. Maggiore
<b>Date Started:</b>	10/9/2009	<b>Drilling Company:</b>	Geotech
<b>Date Completed:</b>	Same	<b>Drilling Method:</b>	HSE/Direct push
<b>Total Depth:</b>	10'	<b>Depth to Water:</b>	Dry
<b>Project Name:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-4'	0-.3': Gravel. 0.3-0.9': Dark brown fine sand, some gravel, dry. 0.9'-3': Brown fine sand.	0-5' 4'			
4'-5'	3'-4': Dark brown sand, some gravel.				
5'-10'	5'-6': Light brown/gray sand, some gravel, fine to v, fine sand 6'-7': Gray sand, trace red fragments. 8'-10': Tan coarse dry sand.	5-10' 5'			

Prepared by: MAM  
Checked by: TRH



### Soil Boring Log

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring :</b> EW-7		<b>Page 1 of 1</b>	
<b>Project Client:</b>	Textron	<b>Geologist:</b>	M. Maggiore
<b>Date Started:</b>	10/9/2009	<b>Drilling Company:</b>	Geotech
<b>Date Completed:</b>	Same	<b>Drilling Method:</b>	HSE/Direct push
<b>Total Depth:</b>	10'	<b>Depth to Water:</b>	Dry
<b>Project Name:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-5'	0-2': Brown coarse sand, some gravel. 2.1'-2.8': Dark brown to black sand, some urban fill (wood fragments). 2.9'-4': Dark brown fine sand.	0-5' 4'			
5'-10':	5'-5.5': Red fragments 5.5'-10': Light brown/gray coarse sand.	5'-10'			

Prepared by: MAM  
Checked by: TRH



**Soil Boring Log**

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring Location:</b> VMW-1		<b>Page 1 of 1</b>	
<b>Project Client:</b> Textron	<b>Geologist:</b> M.Maggiore		
<b>Date Started:</b> 10/10/2008	<b>Drilling Company:</b> Geotech		
<b>Date Completed:</b> Same	<b>Drilling Method:</b> Direct push		
<b>Total Depth:</b> 10'	<b>Depth to Water:</b> Dry		
<b>Project:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-5'	0-1.9': Dark brown/ gray silt, some sand, dry 1.9'-3': Light brown fine to med.sand, trace dry gravel. 3'-3.2': Red fragments. 3.2'-4': Gray olive silt. 4'-4.9': Light brown silt, trace sand.	0-5' 4.9			
5'-10'	5'-8': Light brown/gray silt, trace sand. 8'-10': Brown med. to coarse dry sand, trace gravel.	5'-10' 4'			

Prepared by:  
Checked by:



### Soil Boring Log

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring Location:</b> VMW-2		<b>Page 1 of 1</b>	
<b>Project Client:</b> Textron	<b>Geologist:</b> M.Maggiore		
<b>Date Started:</b> 10/10/2008	<b>Drilling Company:</b> Geotech		
<b>Date Completed:</b> Same	<b>Drilling Method:</b> Direct push		
<b>Total Depth:</b> 8'	<b>Depth to Water:</b> Dry		
<b>Project:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-5'	0-1': Brown/olive silt, some fine sand, dry 1'-1.1': Light brown fine to med.sand, trace dry gravel. 1.1'-3': Gray/olive fine sand, some silt. 3'-3.8': Gray olive silt.	0-5' 4.9			
5'-8'	5'-8': Brown med to coarse dry sand, trace gravel.	5'-10' 4'			

Prepared by:  
Checked by:





**Soil Boring Log**

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring Location:</b> VMW-3		<b>Page 1 of 1</b>	
<b>Project Client:</b> Textron	<b>Geologist:</b> M.Maggiore		
<b>Date Started:</b> 10/10/2008	<b>Drilling Company:</b> Geotech		
<b>Date Completed:</b> Same	<b>Drilling Method:</b> Direct push		
<b>Total Depth:</b> 10'	<b>Depth to Water:</b> Dry		
<b>Project:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-5'	0-1.5': Brown/olive silt, some fine sand, dry 1.5'-3': Gray sand, some silt 3'-4.2': Gray olive silt.	0-5' 4.2			
5'-10'	5'-8': Light brown/gray silt, trace fine sand. 8'-9.5': Brown med. to coarse sand.	5'-10' 4.5'			

Prepared by:  
Checked by:



### Soil Boring Log

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring Location:</b> VMW-4		<b>Page 1 of 1</b>	
<b>Project Client:</b> Textron	<b>Geologist:</b> M.Maggiore		
<b>Date Started:</b> 10/10/2008	<b>Drilling Company:</b> Geotech		
<b>Date Completed:</b> Same	<b>Drilling Method:</b> Direct push		
<b>Total Depth:</b> 10'	<b>Depth to Water:</b> Dry		
<b>Project:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-5'	0-3': Dark gray silt, some gravel.	0-5' 3			
5'-10'	5'-6': Dark silt, some gravel. 6'-8': Tan fine to coarse dry sand.	5'-10' 3'			

Prepared by:  
Checked by:



### Soil Boring Log

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring Location:</b> VMW-6		<b>Page 1 of 1</b>	
<b>Project Client:</b> Textron	<b>Geologist:</b> M.Maggiore		
<b>Date Started:</b> 10/9/2008	<b>Drilling Company:</b> Geotech		
<b>Date Completed:</b> Same	<b>Drilling Method:</b> Direct push		
<b>Total Depth:</b> 8'	<b>Depth to Water:</b> Dry		
<b>Project:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-5'	0-1': Dark brown sand. 1'-1.7': Tan/brown sand, fine to very fine sand. 1.7'-4.9': Light brown sand, coarse sand.	0-5' 3			
5'-8'	5'-8': Dark brown sand, fine sand, some gravel.	5'-10' 3'			

Prepared by:  
Checked by:



### Soil Boring Log

MACTEC  
107 Audubon Road  
Wakefield, MA

<b>Boring Location:</b> VMW-7		<b>Page 1 of 1</b>	
<b>Project Client:</b> Textron	<b>Geologist:</b> M.Maggiore		
<b>Date Started:</b> 10/9/2008	<b>Drilling Company:</b> Geotech		
<b>Date Completed:</b> Same	<b>Drilling Method:</b> Direct push		
<b>Total Depth:</b> 8'	<b>Depth to Water:</b> Dry		
<b>Project:</b> Retail Complex Active Soil Depressurization System Install-3650080114			

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-5'	0-4': Brown sand, some gravel, dry.	0-5' 4			
5'-8'	5'-8': Dark coarse sand, some gravel, dry.	5'-10' 3'			

Prepared by:  
Checked by:

## **APPENDIX E**

### **Soil Disposal Manifests**

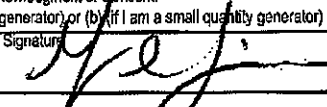
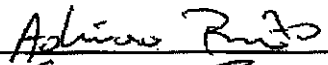
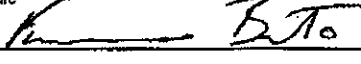
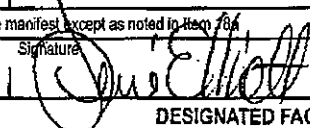
Tr # 5117

R12253643-001

SC PPW 2/26/2009

Form Approved, OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number <b>R1D001/95015</b>	2. Page 1 of <b>2X</b>	3. Emergency Response Phone <b>(800) 483-3718</b>	4. Manifest Tracking Number <b>001891928 FLE</b>	
5. Generator's Name and Mailing Address <b>Textron Incorporated 40 Westminster Street Providence, RI 02903</b>			Generator's Site Address (if different than mailing address) <b>333 Adelaide Avenue Providence, RI 02903</b>			
Generator's Phone: <b>(401) 457-2635</b>						
6. Transporter 1 Company Name <b>Clean Harbors Environmental Services Inc</b>				U.S. EPA ID Number <b>MAD039322250</b>		
7. Transporter 2 Company Name <b>CLEAN Harbors E.N.V SERVICES INC</b>				U.S. EPA ID Number <b>MAD039322250</b>		
8. Designated Facility Name and Site Address <b>Clean Harbors El Dorado LLC 309 American Circle El Dorado, AR 71730</b>				U.S. EPA ID Number <b>ARD069748192</b>		
Facility's Phone: <b>(870) 863-7173</b>						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity
				No.	Type	12. Unit Wt./Vol.
	1. <b>HA3077, HAZARDOUS WASTE, SOLID, N.O.S., TRICHLOROETHENE, 9. PG III</b>			<b>006</b>	<b>DM</b>	<b>2400 P</b>
	2.					
	3.					
4.						
13. Waste Codes <b>F001</b>						
14. Special Handling Instructions and Additional Information <b>1. CH353950      " ERG#17.1</b>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name <b>GREGORY L. SIMPSON</b>			Signature 		Month Day Year <b>03 26 09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.      Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <b>Adriano Brito</b>			Signature 		Month Day Year <b>03 26 09</b>	
Transporter 2 Printed/Typed Name <b>FRANCISCO BRITO</b>			Signature 		Month Day Year <b>03 27 09</b>	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)				Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. <b>U11</b>		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 7b						
Printed/Typed Name <b>Devi Elliott</b>			Signature 		Month Day Year <b>03 26 09</b>	

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

## **APPENDIX F**

### **ASD System Monitoring Form**



**Textron, Inc**  
**Former Gorham Manufacturing Facility - ASD System**  
**333 Adelaide Avenue, Providence, RI**

Date: 1/29/09  
 Arrival Time: 0730  
 Dep. Time: 1640

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	<u>17</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>FULL OPEN</u>
VI-202	EW-4 Vacuum	(in H2O)	<u>17</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>F.O.</u>
VI-203	EW-3 Vacuum	(in H2O)	<u>17</u>
BFV-203	EW-4 Control Valve (Valve Position)	N/A	<u>F.O.</u>
VI-204	EW-4 Vacuum	(in H2O)	<u>17</u>
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u>F.O.</u>
VI-205	Influent Vacuum	(in H2O)	<u>17</u>
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	<u>18</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>FULLY CLOSED</u>
VI-207	Blower Inlet Vacuum	(in H2O)	<u>18</u>
PI-201	Blower Discharge Pressure	(PSI) in H <sub>2</sub> O	<u>99 6.5</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>99</u>
FI-201	Blower Discharge Flow	(CFM)	<u>N/A</u>
P-211	Lead VGAC Discharge Pressure	(PSI) in H <sub>2</sub> O	<u>3.0</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>0</u>

<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	<u>(460 FPM)</u>	<u><del>231</del> 975</u>
SP EW-2	EW-2 VOC Level	<u>(815 FPM)</u>	<u>199</u>
SP EW-3	EW-3 VOC Level	<u>(470 FPM)</u>	<u>126</u>
SP EW-4	EW-4 VOC Level	<u>(766 FPM)</u>	<u>296</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>87.9</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>ND</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>ND</u>
SP EW-5	EW-5 VOC Level	(ppm)	<u>-</u>
SP EW-6	EW-6 VOC Level	(ppm)	<u>-</u>
SP EW-7	EW-7 VOC Level	(ppm)	<u>-</u>

**Other Activities/Observations**

Depth of water in Moisture Separator Tank (in) 2 1/2"

Condensate Tank Drained? Y

Was system in fault upon arrival? Y

Describe panel alarm conditions on arrival, if any: RADON FANS 1-3 IN ALARM (FANS ARE RUNNING, ISAD FLOW SENSORS)

Weather conditions: COLD, CLEAR

Comments/other activities performed: INITIAL ASD START-UP

INVESTIGATE PROBLEM W/ RADON FAN FLOW SENSORS

CONDUCT VAC. MEASUREMENT @ SUPERIOR VMW'S

BLOWER HRS. 9.2

X-FER PUMP HAS 0.15

Site check performed by: DM/JJ



1/29/09

VMW-4	-0.33	in H <sub>2</sub> O
VMW-1	-0.49	
VMW-2	-0.65	
VMW-3	-0.56	
VMW-7	∅	
VMW-6	-0.17	
VMW-5	-0.30	

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	<u>17</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-202	EW-4 Vacuum	(in H2O)	<u>17.5</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-203	EW-3 Vacuum	(in H2O)	<u>17.3</u>
BFV-203	EW-4 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-204	EW-4 Vacuum	(in H2O)	<u>17</u>
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-205	Influent Vacuum	(in H2O)	<u>17.2</u>
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	<u>18</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>CLOSED</u>
VI-207	Blower Inlet Vacuum	(in H2O)	<u>18.5</u>
PI-201	Blower Discharge Pressure	(PSI)	<u>6.5</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>118</u>
FI-201	Blower Discharge Flow	(CFM)	<u>6.5</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>3</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>2</u>

<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>145.8</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>6.4</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>4.2</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>2.4</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>11.2</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>ND</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>ND</u>
SP EW-5	EW-5 VOC Level	(ppm)	
SP EW-6	EW-6 VOC Level	(ppm)	
SP EW-7	EW-7 VOC Level	(ppm)	

<b>Other Activities/Observations</b>			
Depth of water in Moisture Separator Tank	(in)		<u>Below Sight Glass</u>
Condensate Tank Drained?			<u>Y</u>
Was system in fault upon arrival?			<u>Y</u>
Describe panel alarm conditions on arrival, if any:		<u>NONE</u>	
Weather conditions:			<u>Clear + cold 35-40°</u>
Comments/other activities performed:			<u>System has been online for about 1 hr</u>

Site check performed by: [Signature]

SWAPPED OUT 1/4" DIRT SUE  
DRAINS W/ 1/4" PLUGS - WATER IN PFD  
WHEN CONNECTED TO DRAINS.



**Textron, Inc**  
**Former Gorham Manufacturing Facility - ASD System**  
**333 Adelaide Avenue, Providence, RI**

Date: 2-3-09  
 Arrival Time: \_\_\_\_\_  
 Dep. Time: \_\_\_\_\_

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	<u>17.5</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>      </u>
VI-202	EW-4 Vacuum	(in H2O)	<u>18</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>      </u>
VI-203	EW-3 Vacuum	(in H2O)	<u>18</u>
BFV-203	EW-4 Control Valve (Valve Position)	N/A	<u>      </u>
VI-204	EW- <del>2</del> Vacuum <u>EW-1</u>	(in H2O)	<u>17.5</u>
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u>EW - OPEN</u>
VI-205	Influent Vacuum	(in H2O)	<u>17.5</u>
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	<u>18</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>      </u>
VI-207	Blower Inlet Vacuum	(in H2O)	<u>18.5</u>
PI-201	Blower Discharge Pressure	<del>(PSI)</del>	<u>6.5" H<sub>2</sub>O</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>114</u>
FI-201	Blower Discharge Flow	(CFM)	<u>      </u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>3</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>0.5</u>
<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>468</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>5.6</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>330</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>202</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>ND</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>ND</u>
SP EW-5	EW-5 VOC Level	(ppm)	<u>N/A</u>
SP EW-6	EW-6 VOC Level	(ppm)	<u>N/A</u>
SP EW-7	EW-7 VOC Level	(ppm)	<u>N/A</u>
<b>Other Activities/Observations</b>			
Depth of water in Moisture Separator Tank		(in)	<u>BELOW SITE GRASS</u>
Condensate Tank Drained?			<u>Y</u>
Was system in fault upon arrival?			<u>Y</u>
Describe panel alarm conditions on arrival, if any:			<u>NONE</u>
Weather conditions:			<u>SNOWING 30°</u>
Comments/other activities performed:			<u>SITE CHECK</u>

Site check performed by: DOUG MURPHY



**Textron, Inc**  
**Former Gorham Manufacturing Facility - ASD System**  
**333 Adelaide Avenue, Providence, RI**

Date: 2-4-09  
 Arrival Time: 0700  
 Dep. Time: 1500

Comp. ID	Component Name	Units	Site Arrival
<b>SD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	<u>18</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>—</u>
VI-202	EW-4 Vacuum	(in H2O)	<u>18</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>—</u>
VI-203	EW-3 Vacuum	(in H2O)	<u>18</u>
BFV-203	EW-4 Control Valve (Valve Position)	N/A	<u>—</u>
VI-204	EW Vacuum <u>EW-1</u>	(in H2O)	<u>17.5</u>
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u>—</u>
VI-205	Influent Vacuum	(in H2O)	<u>18</u>
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	<u>19</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>—</u>
VI-207	Blower Inlet Vacuum	(in H2O)	<u>19</u>
PI-201	Blower Discharge Pressure	<del>(PSI)</del> " H2O	<u>6.5</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>112</u>
FI-201	Blower Discharge Flow	(CFM)	<u>●</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u><del>0.5</del> 3</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>0.5</u>

<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>16</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>4.5</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>0.8</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>1.4</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>ND</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>ND</u>
SP EW-5	EW-5 VOC Level	(ppm)	<u>—</u>
SP EW-6	EW-6 VOC Level	(ppm)	<u>—</u>
SP EW-7	EW-7 VOC Level	(ppm)	<u>—</u>

**Other Activities/Observations**

Depth of water in Moisture Separator Tank (in) Below set glass

Condensate Tank Drained? Y/N

Was system in fault upon arrival? Y/N

Describe panel alarm conditions on arrival, if any: NDSC

Weather conditions: COLD 18°

Comments/other activities performed: \_\_\_\_\_

Site check performed by: Rooney Gou



Textron, Inc  
Former Gorham Manufacturing Facility - ASD System  
333 Adelaide Avenue, Providence, RI

Date: 2-5-09  
Arrival Time: 15:30  
Dep. Time: 17:00

Comp. ID	Component Name	Units	Site Arrival
<b>System Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	<u>18</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>FULL OPEN</u>
VI-202	EW-4 Vacuum	(in H2O)	<u>18</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>FULL OPEN</u>
VI-203	EW-3 Vacuum	(in H2O)	<u>18.5</u>
BFV-203	EW-4 Control Valve (Valve Position)	N/A	<u>FULL OPEN</u>
VI-204	EW-4 Vacuum <sup>EW-1</sup>	(in H2O)	<u>18</u>
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u>FULL OPEN</u>
VI-205	Influent Vacuum	(in H2O)	<u>18</u>
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	<u>19</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>CLOSED</u>
VI-207	Blower Inlet Vacuum	(in H2O)	<u>19</u>
PI-201	Blower Discharge Pressure	(PSI)	<u>6.5</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>114</u>
FI-201	Blower Discharge Flow	(CFM)	<u>3</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>0.5</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>0.5</u>
<b>System VOC Levels</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>15</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>4</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>0.9</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>1.4</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>ND</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>ND</u>
SP EW-5	EW-5 VOC Level	(ppm)	<u>---</u>
SP EW-6	EW-6 VOC Level	(ppm)	<u>---</u>
SP EW-7	EW-7 VOC Level	(ppm)	<u>---</u>
<b>Other System Observations</b>			
Depth of water in Moisture Separator Tank		(in)	<u>Below 5.00 level</u>
Condensate Tank Drained?			<u>Y</u>
Was system in fault upon arrival?			<u>Y</u>
Describe panel alarm conditions on arrival, if any:			<u>RADON FANS</u>
Weather conditions:			<u>60-65 °</u>
Comments/other activities performed:			

Site check performed by: Rodney Gill

NOTE: RADON FANS OPERATIONAL



Textron, Inc  
Former Gorham Manufacturing Facility - ASD System  
333 Adelaide Avenue, Providence, RI

Date: 2-6-09  
Arrival Time: 1620  
Dep. Time: 1730

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	<u>18.7</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-202	EW-4 Vacuum	(in H2O)	<u>19</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-203	EW-3 Vacuum	(in H2O)	<u>19</u>
BFV-203	EW-4 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-204	EW-4 Vacuum	(in H2O)	<u>18.2</u>
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-205	Influent Vacuum	(in H2O)	<u>18.5</u>
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	<u>19.5</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>CLOSED</u>
VI-207	Blower Inlet Vacuum	(in H2O)	<u>19.5</u>
PI-201	Blower Discharge Pressure	(PSI)	<u>6.5</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>120</u>
FI-201	Blower Discharge Flow	(CFM)	<u>-</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>3</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>&lt; 1.0</u>

**Field Screening**

Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>23.2</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>7.8</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>3.2</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>2.2</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>ND</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>ND</u>
SP EW-5	EW-5 VOC Level	(ppm)	<u>-</u>
SP EW-6	EW-6 VOC Level	(ppm)	<u>-</u>
SP EW-7	EW-7 VOC Level	(ppm)	<u>-</u>

**Other Activities/Observations**

Depth of water in Moisture Separator Tank (in) Below sight glass  
 Condensate Tank Drained? YKD  
 Was system in fault upon arrival? YKD  
 Describe panel alarm conditions on arrival, if any: NONE Rabon from lights alarm  
 Weather conditions: Clear + cold 30°  
 Comments/other activities performed: Blower is running @ 11 amps  
Blower HRS. = 108.8  
Cond. Pump Hrs = 0.2

Site check performed by: Doug M

I could hear air being pulled in through cond pump disch. piping. Check valves MUST BE stuck open.  
 I shut off pump + closed disch. valve inlet vac is now @ 22 inHg



**Textron, Inc**  
**Former Gorham Manufacturing Facility - ASD System**  
**333 Adelaide Avenue, Providence, RI**

Date: 2-12-09  
 Arrival Time: 1745  
 Dep. Time: 1845

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H20)	<u>21</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-202	EW-4 Vacuum	(in H20)	<u>21</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-203	EW-3 Vacuum	(in H20)	<u>21</u>
BFV-203	EW-3 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-204	EW-4 Vacuum	(in H20)	<u>21</u>
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u>OPEN FULL</u>
VI-205	Influent Vacuum	(in H20)	<u>21</u>
VI-206	Particulate Filter Inlet Vacuum	(in H20)	<u>22</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>CLOSED</u>
VI-207	Blower Inlet Vacuum	(in H20)	<u>22</u>
PI-201	Blower Discharge Pressure	(in H20)	<u>0</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>130</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>3</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>&lt; 2</u>
N/A	SVE Blower Amperage	(Amps)	<u>10.3</u>
HM-105	SVE Blower Hour Meter	(Hours)	<u>2</u>
HM-119	Condensate Pump Hour Meter	(Hours)	<u>0.2</u>

<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>1.8</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>ND</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>ND</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>ND</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>ND</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>ND</u>
SP EW-5	EW-5 VOC Level	(ppm)	<u>✓</u>
SP EW-6	EW-6 VOC Level	(ppm)	<u>✓</u>
SP EW-7	EW-7 VOC Level	(ppm)	<u>✓</u>

**Other Activities/Observations**

Depth of water in Moisture Separator Tank (in) 7.8

Condensate Tank Drained? Y/Ⓢ

Was system in fault upon arrival? Y/Ⓢ

Describe panel alarm conditions on arrival, if any: 3 RAOON FANS 1, 2 + 3 ARE ON

Individual ASD System Status: EW-5 Operational? Y/N EW-6 Operational? Ⓢ/N EW-7 Operational? Y/N ?

Weather conditions: WINDY + LOW 35°

Comments/other activities performed: ADDED 10 GALLONS OF CLEAN WATER TO THE K.O TANK. RAOON FAN ALARM/LOW FLOW LIGHTS ARE ON - I COULD ONLY HEAR FAN # 2 RUNNING - VERY WINDY/ADISEY OUTSIDE, BVE IS STILL PULLING IN AIR THROUGH THE COND. PUMP LEFT PUMP OFF + DISCH. VALVE CLOSED.

Site check performed by: DM



Textron, Inc  
 Former Gorham Manufacturing Facility - ASD System  
 333 Adelaide Avenue, Providence, RI

Date: 2-18-09  
 Arrival Time: 0830  
 Dep. Time: 1000

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	<u>21.5</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>open full</u>
VI-202	EW-4 Vacuum	(in H2O)	<u>21.5</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>open full</u>
VI-203	EW-3 Vacuum	(in H2O)	<u>21.5 22</u>
BFV-203	EW-4 Control Valve (Valve Position)	N/A	<u>open full</u>
VI-204	EW- <del>4</del> Vacuum	(in H2O)	<u>21.5</u>
BFV-204	EW- <del>4</del> Control Valve (Valve Position)	N/A	<u>open full</u>
VI-205	Influent Vacuum	(in H2O)	<u>21.8</u>
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	<u>22.5</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>22.8 Closed</u>
VI-207	Blower Inlet Vacuum	(in H2O)	<u>22.9</u>
PI-201	Blower Discharge Pressure	(PSI)	<u>6.3</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>118</u>
FI-201	Blower Discharge Flow	(CFM)	<u>-</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>3</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>&lt; 2</u>
<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>29.1</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>ND</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>ND</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>ND</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>ND</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>ND</u>
SP EW-5	EW-5 VOC Level	(ppm)	
SP EW-6	EW-6 VOC Level	(ppm)	
SP EW-7	EW-7 VOC Level	(ppm)	
<b>Other Activities/Observations</b>			
Depth of water in Moisture Separator Tank		(in)	<u>4"</u>
Condensate Tank Drained?			<u>YES</u>
Was system in fault upon arrival?			<u>YES</u>
Describe panel alarm conditions on arrival, if any:			<u>None</u>
Weather conditions:			<u>Sunny + cold 30s</u>
Comments/other activities performed:			

Site check performed by: B. Murphy

10.8 mps  
 Que - 339.1 hrs  
 C. pump 0.2 hrs

Reason from lights are on  
 Demand pump sucl. + Disch piping  
 faeco stuck open check valve



Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	<u>21.6</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>open full</u>
VI-202	EW-4 Vacuum	(in H2O)	<u>21.8</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>open full</u>
VI-203	EW-3 Vacuum	(in H2O)	<u>22</u>
BFV-203	EW-3 Control Valve (Valve Position)	N/A	<u>open full</u>
VI-204	EW-4 Vacuum	(in H2O)	<u>21</u>
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u>open full</u>
VI-205	Influent Vacuum	(in H2O)	<u>21.8</u>
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	<u>22.5</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>closed</u>
VI-207	Blower Inlet Vacuum	(in H2O)	<u>22.5</u>
PI-201	Blower Discharge Pressure	(PSI)	<u>6.5</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>122</u>
FI-201	Blower Discharge Flow	(CFM)	<u>/</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>3</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>22</u>
<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>26.9</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>1.4</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>16.4</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>4.6</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>11.4 - 6.9</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>ND</u>
SP EW-5	EW-5 VOC Level	(ppm)	
SP EW-6	EW-6 VOC Level	(ppm)	
SP EW-7	EW-7 VOC Level	(ppm)	
<b>Other Activities/Observations</b>			
Depth of water in Moisture Separator Tank		(in)	<u>Below Clear Pex</u>
Condensate Tank Drained?			<u>Y/N</u>
Was system in fault upon arrival?			<u>Y/N</u>
Describe panel alarm conditions on arrival, if any:			<u>Reason Fan 1, 2, + 3</u>
Weather conditions:			<u>Sunny + Clear 35-40°</u>
Comments/other activities performed:			<u>Reason Fan - Lights are on</u>

Site check performed by: DM

10.7 Amps

Sue HES 505.5

Cond. Pump 0.2



**Textron, Inc**  
**Former Gorham Manufacturing Facility - ASD System**  
**333 Adelaide Avenue, Providence, RI**

Date: 3-6-09  
 Arrival Time: 1900  
 Dep. Time: 2000

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H20)	<u>6</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u># 15% 0</u>
VI-202	EW-4 Vacuum	(in H20)	<u>6</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>15% 0</u>
VI-203	EW-3 Vacuum	(in H20)	<u>7</u>
BFV-203	EW-3 Control Valve (Valve Position)	N/A	<u>15% 0</u>
VI-204	EW-4 Vacuum	(in H20)	<u>6.5</u>
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u>15% 0</u>
VI-205	Influent Vacuum	(in H20)	<u>8.5</u>
VI-206	Particulate Filter Inlet Vacuum	(in H20)	<u>9</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>open 100%</u>
VI-207	Blower Inlet Vacuum	(in H20)	<u>8.5</u>
PI-201	Blower Discharge Pressure	(in H20)	<u>8</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>110</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>4</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>0-2</u>
N/A	SVE Blower Amperage	(Amps)	<u>10</u>
HM-105	SVE Blower Hour Meter	(Hours)	<u>787.6</u>
HM-119	Condensate Pump Hour Meter	(Hours)	<u>0.2</u>

<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>3.6</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>2.6</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>2.0</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>4.6-0</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>0.7</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>3.2</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>1.8</u>
SP EW-5	EW-5 VOC Level	(ppm)	
SP EW-6	EW-6 VOC Level	(ppm)	
SP EW-7	EW-7 VOC Level	(ppm)	

**Other Activities/Observations**

Depth of water in Moisture Separator Tank (in) 0

Condensate Tank Drained? Y/N

Was system in fault upon arrival? Y/N *low flow*

Describe panel alarm conditions on arrival, if any: Reason for 1,2,3

Individual ASD System Status: EW-5 Operational? Y/N EW-6 Operational? Y/N EW-7 Operational? Y/N

Weather conditions: clear, mild 50

Comments/other activities performed:  
4 - -0.14      2 - -0.32

Site check performed by: D. Murphy



**Textron, Inc**  
**Former Gorham Manufacturing Facility - ASD System**  
**333 Adelaide Avenue, Providence, RI**

Date: 3-13-09  
 Arrival Time: 1815  
 Dep. Time: 1945

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	6
BFV-201	EW-2 Control Valve (Valve Position)	N/A	# 1
VI-202	EW-4 Vacuum	(in H2O)	6
BFV-202	EW-4 Control Valve (Valve Position)	N/A	# 1
VI-203	EW-3 Vacuum	(in H2O)	6
BFV-203	EW-3 Control Valve (Valve Position)	N/A	# 1
VI-204	EW-4 Vacuum	(in H2O)	6.5
BFV-204	EW-4 Control Valve (Valve Position)	N/A	# 1
VI-205	Influent Vacuum	(in H2O)	8
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	8.5
GV-201	Blower Makeup Air Control Valve Position	N/A	open 100%
VI-207	Blower Inlet Vacuum	(in H2O)	8
PI-201	Blower Discharge Pressure	(PSI)	8
TI-201	Blower Discharge Temperature	(deg F)	110
FI-201	Blower Discharge Flow	(CFM)	-
P-211	Lead VGAC Discharge Pressure	(PSI)	4
P-212	Lag VGAC Discharge Pressure	(PSI)	< 2
<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	7.8
SP EW-2	EW-2 VOC Level	(ppm)	ND
SP EW-3	EW-3 VOC Level	(ppm)	3.4
SP EW-4	EW-4 VOC Level	(ppm)	ND
SP-Inf	VGAC Influent VOC Level	(ppm)	0.4
SP-Mid	VGAC Midpoint VOC Level	(ppm)	3.2
SP-Eff	VGAC Effluent VOC Level	(ppm)	1.9
SP EW-5	EW-5 VOC Level	(ppm)	-
SP EW-6	EW-6 VOC Level	(ppm)	-
SP EW-7	EW-7 VOC Level	(ppm)	-
<b>Other Activities/Observations</b>			
Depth of water in Moisture Separator Tank		(in)	0
Condensate Tank Drained?			Y/N
Was system in fault upon arrival?			Y/N
Describe panel alarm conditions on arrival, if any:			Radon fans 1, 2+3 low flow
Weather conditions:			Clear + cold
Comments/other activities performed:			Radon fans 1, 2+3 ARE

Running

Site check performed by: [Signature]

TOOK A CARBON SAMPLE OUT OF THE  
 LEAD VGAC - 2 1L BOTTLES



**Textron, Inc**  
**Former Gorham Manufacturing Facility - ASD System**  
**333 Adelaide Avenue, Providence, RI**

Date: 3-19-07  
 Arrival Time: 0830  
 Dep. Time: 0900

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H20)	<u>5</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>/</u>
VI-202	EW-4 Vacuum	(in H20)	<u>6</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>/</u>
VI-203	EW-3 Vacuum	(in H20)	<u>6</u>
BFV-203	EW-3 Control Valve (Valve Position)	N/A	<u>/</u>
VI-204	EW-1 Vacuum	(in H20)	<u>6</u>
BFV-204	EW-1 Control Valve (Valve Position)	N/A	<u>/</u>
VI-205	Influent Vacuum	(in H20)	<u>8</u>
VI-206	Particulate Filter Inlet Vacuum	(in H20)	<u>8.5</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>/</u>
VI-207	Blower Inlet Vacuum	(in H20)	<u>8</u>
PI-201	Blower Discharge Pressure	(in H20)	<u>8</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>108</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>3</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>0</u>
N/A	SVE Blower Amperage	(Amps)	<u>N/A</u>
HM-105	SVE Blower Hour Meter	(Hours)	<u>N/A</u>
HM-119	Condensate Pump Hour Meter	(Hours)	<u>N/A</u>
<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>21</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>8</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>11</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>3</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>2</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>2</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>1.4</u>
SP EW-5	EW-5 VOC Level	(ppm)	<u>/</u>
SP EW-6	EW-6 VOC Level	(ppm)	<u>/</u>
SP EW-7	EW-7 VOC Level	(ppm)	<u>/</u>

**Other Activities/Observations**

Depth of water in Moisture Separator Tank (in) 0

Condensate Tank Drained? Y/N

Was system in fault upon arrival? Y/N

Describe panel alarm conditions on arrival, if any: ASW HI LEVEL (LOOSE WIRE IN PANEL)

Individual ASD System Status: EW-5 Operational? Y/N EW-6 Operational? Y/N EW-7 Operational? Y/N

Weather conditions: SUNNY

Comments/other activities performed: TROUBLE-SHOOT THE LEVEL ALARM

UMW-1 → 0.17 | FOUND WIRE FROM LEVEL SWITCH #301 LOOSE

UMW-2 → 0.22 | RECONNECT TURN SYSTEM BACK ON-LINE.

UMW-3 → 0.20 | Site check performed by: [Signature]

UMW-4 → 0.10



**Textron, Inc**  
**Former Gorham Manufacturing Facility - ASD System**  
**333 Adelaide Avenue, Providence, RI**

Date: 3-26-09  
 Arrival Time: 1200  
 Dep. Time: 1430

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	<u>5.5</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u># 1</u>
VI-202	EW-4 Vacuum	(in H2O)	<u>6</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u># 1</u>
VI-203	EW-3 Vacuum	(in H2O)	<u>6</u>
BFV-203	EW-3 Control Valve (Valve Position)	N/A	<u># 1</u>
VI-204	EW-1 Vacuum	(in H2O)	<u>6</u>
BFV-204	EW-1 Control Valve (Valve Position)	N/A	<u># 1</u>
VI-205	Influent Vacuum	(in H2O)	<u>8</u>
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	<u>8.5</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>OPEN FULL</u>
VI-207	Blower Inlet Vacuum	(in H2O)	<u>8</u>
PI-201	Blower Discharge Pressure	(PSI)	<u>8</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>105</u>
FI-201	Blower Discharge Flow	(CFM)	<u>-</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>7</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>&lt; 2</u>

**Field Screening**

Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>11.6</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>ND</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>6.0</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>0.3</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>2.7</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>2.5</u>
SP EW-5	EW-5 VOC Level	(ppm)	<u>-</u>
SP EW-6	EW-6 VOC Level	(ppm)	<u>-</u>
SP EW-7	EW-7 VOC Level	(ppm)	<u>-</u>

**Other Activities/Observations**

Depth of water in Moisture Separator Tank (in) 0

Condensate Tank Drained? Y

Was system in fault upon arrival? Y

Describe panel alarm conditions on arrival, if any: Radon Fans 1, 2+3 Low Flow

Weather conditions: Cloudy + Cool 40°

Comments/other activities performed: opened shop + shop door

for drum pick up.

I CAN HEAR THE RADON FANS RUNNING Site check performed by: Jay M

IVE HES - 1143.9  
 COND. PUMP - 0.2  
 SVE AMPS - 10

TALKED WITH ESD + TESTED  
 ALARM PAGING



Textron, Inc  
 Former Gorham Manufacturing Facility - ASD System  
 333 Adelaide Avenue, Providence, RI

Date: 4-3-09  
 Arrival Time: 0830  
 Dep. Time: 1030

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	5
BFV-201	EW-2 Control Valve (Valve Position)	N/A	# 1
VI-202	EW-4 Vacuum	(in H2O)	6
BFV-202	EW-4 Control Valve (Valve Position)	N/A	# 1
VI-203	EW-3 Vacuum	(in H2O)	6
BFV-203	EW-3 Control Valve (Valve Position)	N/A	# 1
VI-204	EW-4 Vacuum	(in H2O)	6
BFV-204	EW-4 Control Valve (Valve Position)	N/A	# 1
VI-205	Influent Vacuum	(in H2O)	8
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	8.5
GV-201	Blower Makeup Air Control Valve Position	N/A	open 100%
VI-207	Blower Inlet Vacuum	(in H2O)	8
PI-201	Blower Discharge Pressure	(PSI)	8
TI-201	Blower Discharge Temperature	(deg F)	110
FI-201	Blower Discharge Flow	(CFM)	-
P-211	Lead VGAC Discharge Pressure	(PSI)	4
P-212	Lag VGAC Discharge Pressure	(PSI)	< 2

<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	9.2
SP EW-2	EW-2 VOC Level	(ppm)	ND
SP EW-3	EW-3 VOC Level	(ppm)	4.8
SP EW-4	EW-4 VOC Level	(ppm)	ND
SP-Inf	VGAC Influent VOC Level	(ppm)	0.2
SP-Mid	VGAC Midpoint VOC Level	(ppm)	2.6
SP-Eff	VGAC Effluent VOC Level	(ppm)	2.6
SP EW-5	EW-5 VOC Level	(ppm)	-
SP EW-6	EW-6 VOC Level	(ppm)	-
SP EW-7	EW-7 VOC Level	(ppm)	-

**Other Activities/Observations**

Depth of water in Moisture Separator Tank (in) 0

Condensate Tank Drained? Y/N

Was system in fault upon arrival? Y/N

Describe panel alarm conditions on arrival, if any: Radon fans 1, 2, 3 low flow

Weather conditions: Rain + CO2 450<sup>s</sup>

Comments/other activities performed: Radon fans are running.

Installed a drain in radon fan 2 piping

Blower = 10 Amps / 1332.4 hrs  
 Pump hrs = 0.2

Site check performed by: [Signature]



**Textron, Inc**  
**Former Gorham Manufacturing Facility - ASD System**  
**333 Adelaide Avenue, Providence, RI**

Date: 4-10-09  
 Arrival Time: 0730  
 Dep. Time: 0800

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H20)	<u>5.5</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>—</u>
VI-202	EW-4 Vacuum	(in H20)	<u>5.5</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>—</u>
VI-203	EW-3 Vacuum	(in H20)	<u>5.5</u>
BFV-203	EW-3 Control Valve (Valve Position)	N/A	<u>—</u>
VI-204	EW-1 Vacuum	(in H20)	<u>5.5</u>
BFV-204	EW-1 Control Valve (Valve Position)	N/A	<u>—</u>
VI-205	Influent Vacuum	(in H20)	<u>8</u>
VI-206	Particulate Filter Inlet Vacuum	(in H20)	<u>8.5</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>—</u>
VI-207	Blower Inlet Vacuum	(in H20)	<u>8</u>
PI-201	Blower Discharge Pressure	(in H20)	<u>7.5</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>106</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>2</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>0</u>
N/A	SVE Blower Amperage	(Amps)	<u>—</u>
HM-105	SVE Blower Hour Meter	(Hours)	<u>01503.7</u>
HM-119	Condensate Pump Hour Meter	(Hours)	<u>0</u>

**Field Screening**

Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>5.8</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>ND</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>2.4</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>1.4</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>0.8</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>2.0</u>
SP EW-5	EW-5 VOC Level	(ppm)	<u>NA</u>
SP EW-6	EW-6 VOC Level	(ppm)	<u>NA</u>
SP EW-7	EW-7 VOC Level	(ppm)	<u>NA</u>

**Other Activities/Observations**

Depth of water in Moisture Separator Tank (in) 0

Condensate Tank Drained? Y/☑

Was system in fault upon arrival? Y/☑

Describe panel alarm conditions on arrival, if any: NONE

Individual ASD System Status: EW-5 Operational? ☑ / N EW-6 Operational? ☑ / N EW-7 Operational? ☑ / N

Weather conditions: SUNNY 42°

Comments/other activities performed: \_\_\_\_\_

Site check performed by: Rosney Gull



**Textron, Inc**  
**Former Gorham Manufacturing Facility - ASD System**  
**333 Adelaide Avenue, Providence, RI**

Date: 4-17-09  
 Arrival Time: 1445  
 Dep. Time: \_\_\_\_\_

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	<u>5</u>
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>#1</u>
VI-202	EW-4 Vacuum	(in H2O)	<u>5.5</u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	<u>#1</u>
VI-203	EW-3 Vacuum	(in H2O)	<u>5.8</u>
BFV-203	EW-3 Control Valve (Valve Position)	N/A	<u>#1</u>
VI-204	EW-4 Vacuum	(in H2O)	<u>5.5</u>
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u>#1</u>
VI-205	Influent Vacuum	(in H2O)	<u>8</u>
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	<u>8.5</u>
GV-201	Blower Makeup Air Control Valve Position	N/A	<u>open 100%</u>
VI-207	Blower Inlet Vacuum	(in H2O)	<u>8</u>
PI-201	Blower Discharge Pressure	(PSI)	<u>7.5</u>
TI-201	Blower Discharge Temperature	(deg F)	<u>110</u>
FI-201	Blower Discharge Flow	(CFM)	<u>-</u>
P-211	Lead VGAC Discharge Pressure	(PSI)	<u>4</u>
P-212	Lag VGAC Discharge Pressure	(PSI)	<u>&lt; 2</u>
<b>Field Screening</b>			
Sample Port EW-1	EW-1 VOC Level	(ppm)	<u>8.4</u>
SP EW-2	EW-2 VOC Level	(ppm)	<u>ND</u>
SP EW-3	EW-3 VOC Level	(ppm)	<u>3.6</u>
SP EW-4	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Inf	VGAC Influent VOC Level	(ppm)	<u>0.2</u>
SP-Mid	VGAC Midpoint VOC Level	(ppm)	<u>2.4</u>
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u>2.4</u>
SP EW-5	EW-5 VOC Level	(ppm)	<u>---</u>
SP EW-6	EW-6 VOC Level	(ppm)	<u>---</u>
SP EW-7	EW-7 VOC Level	(ppm)	<u>---</u>
<b>Other Activities/Observations</b>			
Depth of water in Moisture Separator Tank		(in)	<u>0</u>
Condensate Tank Drained?			<u>Y</u>
Was system in fault upon arrival?			<u>Y</u>
Describe panel alarm conditions on arrival, if any:			<u>Panel Faults 1, 2 + 3</u>
Weather conditions:			<u>Sunny + warm 62°</u>
Comments/other activities performed:			<u>Lubricated door ball.</u>
<u>I even heard another pump running</u>			

Site check performed by: Doug M

Blower 9.8 mgps / 1672.6 hrs  
Pump 1103 - 0.2





Textron, Inc  
Former Gorham Manufacturing Facility - ASD System  
333 Adelaide Avenue, Providence, RI

Date: 4.23.09  
Arrival Time: 0745  
Dep. Time: 0830

Comp. ID	Component Name	Units	Site Arrival
<b>ASD System - Operational Parameters</b>			
VI-201	EW-2 Vacuum	(in H2O)	5.5
BFV-201	EW-2 Control Valve (Valve Position)	N/A	#1
VI-202	EW-4 Vacuum	(in H2O)	5.5
BFV-202	EW-4 Control Valve (Valve Position)	N/A	#1
VI-203	EW-3 Vacuum	(in H2O)	5.5
BFV-203	EW-3 Control Valve (Valve Position)	N/A	#1
VI-204	EW-4 Vacuum	(in H2O)	6
BFV-204	EW-4 Control Valve (Valve Position)	N/A	#1
VI-205	Influent Vacuum	(in H2O)	8
VI-206	Particulate Filter Inlet Vacuum	(in H2O)	8.5
GV-201	Blower Makeup Air Control Valve Position	N/A	100% open
VI-207	Blower Inlet Vacuum	(in H2O)	8
PI-201	Blower Discharge Pressure	(PSI)	7.5
TI-201	Blower Discharge Temperature	(deg F)	100
FI-201	Blower Discharge Flow	(CFM)	4
P-211	Lead VGAC Discharge Pressure	(PSI)	< 2
P-212	Lag VGAC Discharge Pressure	(PSI)	< 2

**Field Screening**

Sample Port EW-1	EW-1 VOC Level	(ppm)	6.8
SP EW-2	EW-2 VOC Level	(ppm)	ND
SP EW-3	EW-3 VOC Level	(ppm)	2.6
SP EW-4	EW-4 VOC Level	(ppm)	ND
SP-Inf	VGAC Influent VOC Level	(ppm)	0.3
SP-Mid	VGAC Midpoint VOC Level	(ppm)	2.6
SP-Eff	VGAC Effluent VOC Level	(ppm)	2.6
SP EW-5	EW-5 VOC Level	(ppm)	-
SP EW-6	EW-6 VOC Level	(ppm)	-
SP EW-7	EW-7 VOC Level	(ppm)	-

**Other Activities/Observations**

Depth of water in Moisture Separator Tank (in) 0

Condensate Tank Drained? YES

Was system in fault upon arrival? YES

Describe panel alarm conditions on arrival, if any: RADON FANS 1, 2 + 3

Weather conditions: CLOUDY + COOL 48° F

Comments/other activities performed: THERE IS ABOUT 1/4" OF WATER

IN THE K-O TANK CONTAINMENT (RAIN WATER FROM EXHAUST VENT)

Site check performed by: T. Murphy

RADON FANS ARE RUNNING

SUR PRESS - 1809.5

PUMP PRESS - 0.2

SUR AMPS 10.2

## **APPENDIX G**

### **Select Photos**



EW-1 and EW-3



EW-5 Vault



EW-2 and EW-4





EW-7 Blower and Exhaust



ASD System Enclosure Delivery



EW-7 Installation on Column



EW-6 Above Drop Ceiling



Extraction Well Vault Pre-pour



Drop Ceiling Penetration





ASD Enclosure Inside 8 ft Chain Link Fence



Extraction Well Piping at Manifold Inside ASD Enclosure