

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<sup>TM</sup> brand Vent-Scrub<sup>TM</sup> 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 blow 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 (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.

Textron – Former Gorham Manufacturing Facility – Short Term Response Action Closure Report Au MACTEC Engineering and Consulting, Inc. Project Number 3650-08-0114.10

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Sincerely, MACTEC Engineering and Consulting, Inc.

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Philip J. Muller Project Engineer

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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**



THIS DRAWING IS THE PROPERTY OF MACTEC, INCLUDING ALL PATENTED AND PATENTABLE FEATURES, AND/OR CONFIDENTIAL INFORMATION AND ITS USE IS CONDITIONED UPON THE USERS 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

MACTEC Engineering & Consulting, Inc.				
	MONITOR	ING WELI	L <b>DI</b> A	AGRAM
Project Name:		Boring	g No:	EW-1
Date Installed:	xtron Gornam ASD Installat	on 0/8/2008 <b>Contr</b>	actor:	Geotech
Project No.:	365	0080114 <b>Drillin</b>	ng Meth	od: HSE/Direct Push
Field Geologist:	M.Maggiore	Develo	opment	Method: None
	Road box seal gro Sti Ty Ty Di Ri Ty Di Con Ty Di Di Ri Ty Di Silv Silv Silv Di Ri Silv Silv Di Ri Silv Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Di Silv Silv Di Silv Silv Di Silv	ck-up of Casin pe of Surface S pe of Surface Cas ameter of Bore ser Pipe ID: pe of Riser Pip pe of Riser Pip pe of Backfill: pth of Top Seal: pth of Top of S pe of Screen: pth of Screen: pe of Sandpack pth of Bottom pth of Bottom	g Abov Seal/Ot Casing: hole: 2" we: Cru l: 3/8' Sand: Screen: 2" p h: 2" p f Screen: 2" p f Screen: of Screen: of Screen: of Screen:	ve Ground Surface:       Flush         her Protection:       Concrete         Aluminum/steel       12"         12"       6.5"         Sch 80 pvc       sshed stone         2'       "Bentonite chips $\frac{4'}{5'}$ 5'         pvc       .010 x 5'         20/30 silica sand       een:         10       p with Plug:       10'         ehole:       11'

MACTEC Engineering & Consulting, Inc.				
	MONITOR	ING W	ELL DL	AGRAM
Project Name:	etres Cashara ACD Isstalla	В	oring No:	EW-2
Te: Date Installed:	xtron Gornam ASD Installa	$\frac{100}{0/9/2008}$	Contractor:	Geotech
Project No.:	365	50080114 D	Prilling Metl	thod: HSE/Direct Push
Field Geologist:	M.Maggiore	D	Development	t Method: None
	Road box seal	ick-up of C /pe of Surf /pe of Surf 0 of Surfact iameter of iser Pipe II /pe of Rise /pe of Bacl epth of Top /pe of Seal epth of Top /pe of Screen /pe of Screen	e Casing Abo Face Seal/Ot Face Casing e Casing: Borehole: D: <u>2"</u> er Pipe: kfill: <u>Cru</u> p Seal: l: <u>3/8</u> p of Sand: p of Sand: p of Screen: een: <u>PV</u> Length: .: <u>2"</u> dpack: ttom of Screent ttom of Screent ttom of Bor	ove Ground Surface: Flush   pther Protection: Concrete   g: Aluminum/steel   12" 6.5"     6.5"     Sch 80 pvc   ushed stone   2'   3" Bentonite chips   4'   a: 5'     7C   20/30 silica sand   reen: 10   np with Plug: 10'

MONITORING WELL DIAGRAM
Project Name: Boring No: FW-3
Textron Gorham ASD Installation
Date Installed:   10/8/2008   Contractor:   Geotech
Project No.: 3650080114 Drilling Method: HSE/Direct Push
Read Occupient       M.Maggiore       Development       Method:       None         Road box seal       ground surface       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 Sach       1'       Type of Sach       1'         Type of Sach       1'       Type of Sach       3'         Depth of Top Seal:       1'       Type 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 Bottom of Borehole:       9.5'

MACTEC Engineering & Consulting, Inc.			
	MONITORI	NG WELL DIAG	RAM
Project Name:	educer Contrary ACD Installati	Boring No: EW	V-4
Date Installed:	xtron Gornam ASD Installation	n 8/2008 Contractor: Ge	otech
Project No.:	3650	080114 Drilling Method:	HSE/Direct Push
Field Geologist:	M.Maggiore	Development Me	thod: None
	Road box seal grou Stic Typ Typ Dia Ris Typ Dep Typ Dep Typ Slo ID Typ Dep Dep Typ Dep Dep Dep Dep Dep Dep	nd surface k-up of Casing Above G e of Surface Seal/Other e of Surface Casing: 12 f Surface Casing: 12 neter of Borehole: 6.5 r Pipe ID: 2" e of Riser Pipe: Sci e of Backfill: Crushea th of Top Seal: 2' e of Seal: $3/8$ " Be th of Top of Sand: th of Top of Screen: e of Screen: 2" PVC Size x Length: .01 f Screen: 2" e of Sandpack: 20, th of Bottom of Screen: th of Sediment Sump with th of Bottom of Borehol	Fround Surface: Flush Protection: Concrete Aluminum/steel " 5" h 80 pvc d stone entonite chips $\frac{4'}{5'}$ 2 10 x 5' /30 silica sand 10 ith Plug: 10' le: 11'

MACTEC Engineering & Consulting, Inc.			
MONITO	DRING WELL DIAGRAM		
Project Nome	Powing Not EW 5		
Textron Gorham ASD Insta	allation		
Date Installed:	10/8/2008 Contractor: Geotech		
Project No.:	3650080114 Drilling Method: HSE/Direct Push		
Field Geologist: M.Maggiore Road box se Ro	IDevelopment Method:       None         al       ground surface         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'		

MACTEC Engineering & Consulting, Inc.					
	MONITO	ORING V	VELL DI	AGRAN	1
Project Name:			Boring No:	EW-6	
Т	extron Gorham ASD Insta	llation	-		
Date Installed:	,	10/8/2008	Contractor:	Geotech	Direct Duch
Field Geologist:	M.Maggiore	5050080114	Developmen	t Method:	None
	Road box sea	d ground surfa Stick-up of Type of Su Type of Su ID of Surfa Diameter o Riser Pipe Type of Ris Type of Ris Type of Ris Depth of To Depth of To Slot Size x ID of Scree Type of Sa Depth of B Depth of B Depth of B	Casing Aborrface Seal/O rface Seal/O rface Casing: f Borehole: ID: <u>2"</u> ser Pipe: ckfill: <u>Cr</u> op Seal: al: <u>3/8</u> op of Sand: op of Sand: op of Screen reen: <u>2"</u> Length: m: <u>2"</u> ndpack: ottom of Screen rediment Sun ottom of Bo	eve Ground ther Protect $\therefore Alur12"6.5"Sch 80 pvushed stone1'3" Bentonite3" Bentonite3' A'PVC.010 x 5'20/30 silireen:np with Plugrehole:$	Surface: <u>Flush</u> tion: <u>Concrete</u> ninum/steel vc e chips e chips g: <u>10'</u> 10'

MACTEC Engineering & Consulting, Inc.			
MONITORING V	WELL DIAGRAM		
	Boring No: EW-7		
Gorham ASD Installation			
10/9/2008	Contractor: Geotech		
3650080114	Drilling Method: HSE/Direct Push		
Road box seal ground surfa Stick-up of Type of Su Type of Su ID of Surfa Diameter of Riser Pipe Type of Ri Type of Ba Depth of T Type of Se Depth of T Type of Sc Slot Size x ID of Screa Type of Sa Depth of B Depth of B Depth of B	Development Method:       None         ace       f Casing Above Ground Surface:       Flush         inface Seal/Other Protection:       Concrete         inface Casing:       Aluminum/steel         ace Casing:       12"         of Borehole:       6.5"         ID:       2"         iser Pipe:       Sch 80 pvc         ackfill:       Crushed stone         Top Seal:       1'         eal:       3/8" Bentonite chips         Top of Sand:       3'         Cop of Screen:       4'         ereen:       2" PVC         ct Length:       .010 x 5'         en:       2"         andpack:       20/30 silica sand         Bottom of Screen:       9'         Sediment Sump with Plug:       10'		
	Gorham ASD Installation         10/9/2008         3650080114         .Maggiore         Road box seal         ground surf         Stick-up o         Type of State         Diameter of         Riser Pipe         Type of Rise         Diameter of         Diameter of         Stock-up of State         Depth of Tate         D		

MACTEC Engineerin	MACTEC Engineering & Consulting, Inc.				
	MONITORING	WELL DIAGRAM			
Project Name:	extron Gorham ASD Installation	Boring No: VMW-1			
Date Installed:	10/10/200	08 Contractor: Geotech			
Project No.:	3650080114.09	Drilling Method: Direct Push			
Field Geologist:	M. Maggiore	Development Method: N/A			
	Road box seal ground su Stick-up Type of 3 ID of Su Diameter Riser Pin Type of 3 Depth of Type of 3 Depth of Slot Size ID of Sca Type of 3 Depth of Depth of Depth of Depth of Depth of Depth of Depth of Depth of Depth of	rface of Casing Above Ground Surface: Flush Surface Seal/Other Protection: Concrete Surface Casing: Aluminum rface Casing: 4" r of Borehole: 3" be ID: N/A Riser Pipe: N/A Backfill: Approved excavated material Top Seal: 1" Seal: Hydrated bentonite slurry Top of Sand: 8' Top of Screen: N/A Screen: N/A Screen: N/A Sandpack: 20/30 silica sand Bottom of Screen: N/A Sediment Sump with Plug: N/A Bottom of Borehole: 10'			

MACTEC Engineerin	MACTEC Engineering & Consulting, Inc.			
	MONITORING	WELL DIAGRAM		
Project Name:	Cextron Gorham ASD Installation	Boring No: VMW-2		
Date Installed:	10/10/2008	Contractor: Geotech		
Project No.:	3650080114.09	Drilling Method: Direct Push		
Field Geologist:	M. Maggiore	Development Method: N/A		
	Road box seal ground sur- Stick-up of Type of S Type of S ID of Surf Diameter Riser Pipe Type of R Type of R Type of S Depth of 7 Type of S Depth of 7 Type of S Slot Size z ID of Scre Type of S Depth of 1 Depth of 1	face  of Casing Above Ground Surface: Flush  urface Seal/Other Protection: Concrete  urface Casing: Aluminum  face Casing: 4" of Borehole: 3" e ID: N/A  iser Pipe: N/A  ackfill: Approved excavated material  Fop Seal: 1" eal: Hydrated bentonite slurry  Fop of Sand: 6'  Fop of Screen: N/A  creen: N/A  x Length: N/A  een: N/A  andpack: 20/30 silica sand  Bottom of Screen: N/A  Sediment Sump with Plug: N/A  Bottom of Borehole: 8'		

MACTEC Engineering	MACTEC Engineering & Consulting, Inc.				
	MONITORING	G WELL DIAGRAM			
Project Name:	extron Gorham ASD Installation	Boring No: VMW-3			
Date Installed:	10/10/20	008 Contractor: Geotech			
Project No.:	3650080114.09	Drilling Method: Direct Push			
Field Geologist:	M. Maggiore	Development Method: N/A			
	Road box seal ground s Stick-up Type of Type of Diamete Riser Pi Type of Depth of Depth of Slot Siz ID of Se Slot Siz ID of Se Depth of Depth of Depth of De	auface p of Casing Above Ground Surface: Flush Surface Seal/Other Protection: Concrete Surface Casing: Aluminum urface Casing: 4" er of Borehole: 3" tipe ID: N/A Riser Pipe: N/A Backfill: Approved excavated material of Top Seal: 1" Seal: Hydrated bentonite slurry of Top of Sand: 8' of Top of Screen: N/A			

MACTEC Engineering	MACTEC Engineering & Consulting, Inc.			
	MONITORING	WELL DIAGRAM		
Project Name: Te	extron Gorham ASD Installation	Boring No: VMW-4		
Date Installed:	10/10/200	8 Contractor: Geotech		
Project No.:	3650080114.09	Drilling Method: Direct Push		
Field Geologist:	M. Maggiore	Development Method: N/A		
	Road box seal ground sur Stick-up of Type of S Type of S ID of Sur Diameter Riser Pipe Type of B Depth of 7 Type of S Depth of 7 Type of S Slot Size ID of Scra Type of S Slot Size ID of Scra Type of S Depth of 7 Depth of	face of Casing Above Ground Surface: Flush Gurface Seal/Other Protection: Concrete Gurface Casing: Aluminum face Casing: 4" of Borehole: 3" e ID: N/A Giser Pipe: N/A Backfill: Approved excavated material Top Seal: 1" Geal: Hydrated bentonite slurry Top of Sand: 6' Top of Screen: N/A Gicreen: N/A Gicreen: N/A Secter:		

MACTEC Engineering	g & Consulting, Inc.	
	MONITORIN	IG WELL DIAGRAM
Project Name:	extron Gorham ASD Installation	Boring No: VMW-5
Date Installed:	10/10	/2008 Contractor: Geotech
Project No.:	3650080114.09	Drilling Method: Direct Push
Field Geologist:	M. Maggiore	Development Method: N/A
	Road box seal groun Stick Type ID of Diam Riser Type Depti Depti Depti Depti Depti Depti Depti Depti Depti Depti Depti Depti Depti	d surface -up of Casing Above Ground Surface: Flush of Surface Seal/Other Protection: Concrete of Surface Casing: Aluminum Surface Casing: 4" eter of Borehole: 3" Pipe ID: N/A of Riser Pipe: N/A of Backfill: Approved excavated material n of Top Seal: 1" of Seal: Hydrated bentonite slurry n of Top of Sand: 8' n of Top of Screen: N/A of Screen: N/A Size x Length: N/A of Sandpack: 20/30 silica sand n of Bottom of Screen: N/A n of Sediment Sump with Plug: N/A n of Bottom of Borehole: 10'

MACTEC Engineerin	g & Consulting, Inc.	
	MONITORING	G WELL DIAGRAM
Project Name: T	extron Gorham ASD Installation	Boring No: VMW-6
Date Installed:	10/9/2	008 Contractor: Geotech
Project No.:	3650080114.09	Drilling Method: Direct Push
Field Geologist:	M. Maggiore	Development Method: N/A
	Road box seal ground s Stick-u Type of Type of Diamet Riser P Type of Depth of Depth of Slot Siz ID of S Slot Siz ID of S Depth of Depth of Depth of Depth of Depth of Depth of Depth of Depth o	surface  p of Casing Above Ground Surface: Flush f Surface Seal/Other Protection: Concrete f Surface Casing: Aluminum urface Casing: 4" er of Borehole: 3" ipe ID: N/A f Riser Pipe: N/A f Backfill: Approved excavated material of Top Seal: 1" f Seal: Hydrated bentonite slurry of Top of Sand: 6' of Top of Screen: N/A f Screen: N/A f Screen: N/A f Screen: N/A f Sandpack: 20/30 silica sand of Bottom of Screen: N/A of Bottom of Borehole: 8'

MACTEC Engineering	g & Consulting, Inc.	
	MONITORING	WELL DIAGRAM
Project Name:	extron Gorham ASD Installation	Boring No: VMW-7
Date Installed:	10/10/200	8 Contractor: Geotech
Project No.:	3650080114.09	Drilling Method: Direct Push
Field Geologist:	M. Maggiore	Development Method: N/A
	Road box seal ground sur Stick-up of Type of S Type of S ID of Sur Diameter Riser Pip Type of B Type of S Depth of Type of S Depth of Type of S Slot Size ID of Scru Type of S Depth of Depth of Depth of Depth of Depth of Depth of	rface of Casing Above Ground Surface: <u>Flush</u> Surface Seal/Other Protection: <u>Concrete</u> Surface Casing: <u>Aluminum</u> face Casing: <u>4</u> " of Borehole: <u>3</u> " e ID: <u>N/A</u> Riser Pipe: <u>Riser Pipe: Pipe</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 1<sup>1</sup>/<sub>2</sub>" 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,

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

## **APPENDIX D**

## **Boring Logs**

MACTEC		Boring :	EW-1			Page 1 of 1
<u>—</u> т.	MOILO	Project Client:	Textron	Geologist:		M. Maggiore
		Date Started:	10/8/2009	Drilling Co	mpany:	Geotech
Sc	oil Boring Log	Date Completed:	Same	Drilling Me	thod:	HSE/Direct push
10	MACTEC 7 Audubon Road	Total Depth:	10'	Depth to W	ater:	Dry
	Wakefield, MA	Project Name: Retail	Complex Active	Soil Depres	surization §	System Install-3650080114
Depth (feet)	Stratigrap	Penetration/ Recovery (feet)	Headspace	Blows/ 6 inches	Sample ID	
0-5'	0-6":Brownish silt with 6"-8": Light brown wit 8"-1': Light brown coa 1'-3': Gray dry sand. 3.1'-4':Brown coarse s silt.	h fine sand. h some reddish. arse sand. sand, some gravel and	0-5' 4'			
5'-10'	5'-6': Coarse brown/g urban fill (brick) 6'-10': Brown medium	ray silty sand, trace n/coarse sand.	5-11' 4'			

<i>21</i> 11	ACTEC	Boring :	EW-2	1		Page 1 of 1
<u></u> ⊥•	moilo	Project Client:	Textron	Geologist:		M. Maggiore
		Date Started:	10/9/2009	Drilling Co	mpany:	Geotech
Sc	oil Boring Log	Date Completed:	Same	Drilling Me	thod:	HSE/Direct push
10	MACTEC 7 Audubon Road	Total Depth:	11'	Depth to W	/ater:	Dry
	Wakefield, MA	Project Name: Retail	Complex Active	Soil Depres	surization S	System Install-3650080114
Depth (feet)	Stratigrap	hy Description	Penetration/ Recovery (feet)	Headspace	Blows/ 6 inches	Sample ID
0-4'	0-3': Gray silt, some g 3'-4': Light gray/olive	gravel, dry. silt, dry.	0-5' 4'			
4'-11'	4'-5.9': Gray silt, som 6'-10': Loose sand, tr fragments.	5-10' 5'				

MACTEC		Boring :	oring : EW-3			Page 1 of 1		
<b>₩ Т</b>	MOILO	Project Client:	Textron	Geologist:		M. Maggiore		
		Date Started:	10/9/2009	Drilling Co	mpany:	Geotech		
Sc	il Boring Log	Date Completed:	Same	Drilling Me	thod:	HSE/Direct push		
10	MACTEC 7 Audubon Road	Total Depth:	10'	Depth to W	ater:	Dry		
	Wakefield, MA	Project Name: Reta	ail Complex Active	Soil Depres	surization	System Install-3650080114		
Depth (feet)	Stratigrap	Penetration/ Recovery (feet)	Headspace	Blows/ 6 inches	Sample ID			
0-3'	0-6": Brown/gray silt, some brick fragments 6"-2.9': Gray/olive fin	some silt and sand, s, dry e silty sand.	0-5' 4.5'					
3'-4'	3'-4': Gray/olive fine s							
4'-5'			5'-10' 4.5'					
5'-8'	5-6': Brown coarse sa 6'-8': Dark brown coa	and, some silt. Irse sand						
8'-10'	8'-9.5': Light brown d	ry fine sand.						

<i>21</i> 11	ACTEC	Boring :	EW-4	-		Page 1 of 1
<b>₩ 1</b>	MOILO	Project Client:	Textron	Geologist:		M. Maggiore
		Date Started:	10/8/2009	Drilling Co	mpany:	Geotech
So	oil Boring Log	Date Completed:	Same	Drilling Method:		HSE/Direct push
10	MACTEC 7 Audubon Road	Total Depth:	11'	Depth to W	/ater:	Dry
,	Wakefield, MA	Project Name: Retail	Complex Active	Soil Depres	ssurization s	System Install-3650080114
Depth (feet)	Stratigrap	+ hy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0-5'	0-1.5': Dark gray dry 1.5'-1.8': Same, with 1.8'-2.9': Light brown	silt, trace gravel. red fragments (brick). silt, some gravel.	0-5' 2.9'			
5'-11'	6'-7': Brown/lt. gray s 7'-7.5': Same. 7.5'-8.5': Same. 8.5'-11: Med./coarse	5-10' 4.9'				

<i>2</i> // r	ACTEC	Boring :	EW-5			Page 1 of 1
<u>—</u> т.	MOILO	Project Client:	Textron	Geologist:		M. Maggiore
		Date Started:	10/8/2009	Drilling Co	mpany:	Geotech
Sc	oil Boring Log	Date Completed:	Same	Drilling Me	thod:	HSE/Direct push
10	MACTEC 7 Audubon Road	Total Depth:	10'	Depth to W	ater:	Dry
,	Wakefield, MA	Project Name: Ref	ail Complex Active	Soil Depres	surization S	System Install-3650080114
Depth (feet)	Stratigrap	hy Description	Penetration/ Recovery (feet)	Headspace	Blows/ 6 inches	Sample ID
0-4'	0-3.2': Gray silt, som 3.2'-4': Very fine dry s	e vf sand. sand.	0-5' 4'			
4'-10'	4'-10': Tan fine to coa	5-10' 4.5'				

<i>2</i> // r.	ACTEC	Boring :	EW-6	1		Page 1 of 1
<u></u> ⊥•	moilo	Project Client:	Textron	Geologist:		M. Maggiore
		Date Started:	10/9/2009	Drilling Co	mpany:	Geotech
Sc	oil Boring Log	Date Completed:	Same	Drilling Me	thod:	HSE/Direct push
10	MACTEC 7 Audubon Road	Total Depth:	10'	Depth to W	ater:	Dry
	Wakefield, MA	Project Name: Retail	Complex Active	Soil Depres	surization S	System Install-3650080114
Depth (feet)	Stratigraphy Description		Penetration/ Recovery (feet)	Headspace	Blows/ 6 inches	Sample ID
0-4'	03': Gravel. 0.3-0.9': Dark brown f dry. 0.9'-3': Brown fine sa	fine sand, some gravel, nd.	0-5' 4'			
4'-5'	3'-4': Dark brown san					
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'			

<i>21</i> 11	ACTEC	Boring :	EW-7	-		Page 1 of 1
<b>₩ 1</b>	MOILO	Project Client:	Textron	Geologist:		M. Maggiore
		Date Started:	10/9/2009	Drilling Co	mpany:	Geotech
So	oil Boring Log	Date Completed:	Same	Drilling Me	thod:	HSE/Direct push
10	MACTEC 7 Audubon Road	Total Depth:	10'	Depth to W	/ater:	Dry
	Wakefield, MA	Project Name: Retail	Complex Active	Soil Depres	surization S	System Install-3650080114
Depth (feet)	Stratigrap	hy Description	Penetration/ Recovery (feet)	Headspace	Blows/ 6 inches	Sample ID
0-5'	0-2': Brown coarse sa 2.1'-2.8': Dark brown urban fill (wood fragn 2.9'-4': Dark brown fir	and, some gravel. to black sand, some nents). ne sand.	0-5' 4'			
5'-10':	5'-5.5': Red fragment 5.5'-10': Light brown/	5'-10'				

<i>21</i> 1	ACTEC	Boring Location	n:	VMW-1			F	Page 1 of 1
<u> </u>		Project Client:	Textro	n	Geologist:		M.Maggiore	
		Date Started:	10/10/	/2008	Drilling Co	mpany:	Geotech	
So	oil Boring Log	Date Completed:	Same		Drilling Me	thod:	Direct push	
10	MACTEC 7 Audubon Road	Total Depth:	10'		Depth to W	ater:	Dry	
	Wakefield, MA	Project:	Retail	Complex Active	Soil Depres	surization	System Instal	II-3650080114
Depth (feet)	Stratigrap	hy Description		Penetration/ Recovery (feet)	Headspace	Blows/ 6 inches		Sample ID
0-5'	0-1.9': Dark brown/ g 1.9'-3': Light brown fir dry gravel. 3'-3.2': Red fragment 3.2'-4': Gray olive silt 4'-4.9': Light brown si	ray silt, some san ne to med.sand, tr s. It, trace sand.	d, dry ace	0-5' 4.9				
5'-10'	5'-8': Light brown/gra 8'-10': Brown med. to gravel.	y silt, trace sand. coarse dry sand,	trace	5'-10' 4'				

<i>21</i> 1	ACTEC	Boring Location	:	VMW-2			F	Page 1 of 1
- 1		Project Client:	Textro	n	Geologist:		M.Maggiore	
		Date Started:	10/10	/2008	Drilling Co	mpany:	Geotech	
So	oil Boring Log	Date Completed:	Same		Drilling Me	thod:	Direct push	
10	MACTEC 7 Audubon Road	Total Depth:	8'		Depth to W	ater:	Dry	
	Wakefield, MA	Project:	Retai	Complex Active	Soil Depres	surization S	System Instal	I-3650080114
Depth (feet)	Stratigrap	hy Description		Penetration/ Recovery (feet)	Headspace	Blows/ 6 inches		Sample ID
0-5'	0-1': Brown/olive silt, 1'-1.1': Light brown fi dry gravel. 1.1'-3': Gray/olive fine 3'-3.8': Gray olive silt	some fine sand, d ne to med.sand, tr e sand, some silt.	ry ace	0-5' 4.9				
5'-8'	5'-8': Brown med to c gravel.	oarse dry sand, tra	ace	5'-10' 4'				

<i>21</i> 1	ACTEC	Boring Location	n:	VMW-3			Page	1 of 1
- 1		Project Client:	Textro	n	Geologist:		M.Maggiore	
		Date Started:	10/10	/2008	Drilling Co	mpany:	Geotech	
So	oil Boring Log	Date Completed:	Same		Drilling Me	thod:	Direct push	
10	MACTEC 7 Audubon Road	Total Depth:	10'		Depth to W	ater:	Dry	
	Wakefield, MA	Project:	Retai	Complex Active	Soil Depres	surization S	System Install-365	0080114
Depth (feet)	Stratigrap	hy Description		Penetration/ Recovery (feet)	Headspace	Blows/ 6 inches	Sam	ple ID
0-5'	0-1.5': Brown/olive sil 1.5'-3': Gray sand, so 3'-4.2': Gray olive silt	lt, some fine sand, ome silt	, dry	0-5' 4.2				
5'-10'	5'-8': Light brown/gra 8'-9.5': Brown med. to	y silt, trace fine sa o coarse sand.	ind.	5'-10' 4.5'				

<i>21</i> 1	ACTEC	Boring Location	:	VMW-4			F	Page 1 of 1
<b>T</b>		Project Client:	Textro	n	Geologist:		M.Maggiore	
		Date Started:	10/10/	2008	Drilling Co	mpany:	Geotech	
So	oil Boring Log	Date Completed:	Same		Drilling Me	thod:	Direct push	
10	MACTEC 7 Audubon Road	Total Depth:	10'		Depth to W	later:	Dry	
	Wakefield, MA	Project:	Retail	Complex Active	Soil Depres	surization §	System Instal	II-3650080114
Depth (feet)	Stratigrap	hy Description		Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches		Sample ID
0-5'	0-3': Dark gray silt, so	ome gravel.		0-5' 3				
5'-10'	5'-6': Dark silt, some 6'-8': Tan fine to coar	gravel. se dry sand.		5'-10' 3'				

<i>21</i> 1	ACTEC	Boring Location	:	VMW-6			F	Page 1 of 1
×		Project Client:	Textro	n	Geologist:		M.Maggiore	
		Date Started:	10/9/2	2008	Drilling Co	mpany:	Geotech	
So	oil Boring Log	Date Completed:	Same		Drilling Me	thod:	Direct push	
10	MACTEC 7 Audubon Road	Total Depth:	8'		Depth to W	ater:	Dry	
	Wakefield, MA	Project:	Retai	Complex Active	Soil Depres	surization S	System Instal	II-3650080114
Depth (foot)	Stratigrap	hy Description		Penetration/	Headspace	Blows/		Sample ID
0-5'	0-1': Dark brown sand 1'-1.7': Tan/brown san sand. 1.7'-4.9': Light brown	d. nd, fine to very fine sand, coarse sand	e d.	0-5' 3				
5'-8'	5'-8': Dark brown san gravel.	d, fine sand, some	9	5'-10' 3'				

<i>21</i> 1	ACTEC	Boring Location:		VMW-7			Pa	age 1 of 1
TA TA	more	Project Client:	Fextror	ı	Geologist:		M.Maggiore	
		Date Started:	10/9/20	008	Drilling Co	mpany:	Geotech	
So	oil Boring Log	Date Completed:	Same		Drilling Me	thod:	Direct push	
10	MACTEC 7 Audubon Road	Total Depth: 8	3'		Depth to W	ater:	Dry	
	Wakefield, MA	Project: F	Retail	Complex Active	Soil Depres	surization S	System Install	-3650080114
Depth (feet)	Stratigrap	hy Description		Penetration/	Headspace	Blows/		Sample ID
0-5'	0-4': Brown sand, sor	ne gravel, dry.		0-5' 4				
5'-8'	5'-8': Dark coarse sar	nd, some gravel, dry	<i>י</i> .	5'-10' 3'				

## **APPENDIX E**

## **Soil Disposal Manifests**

. TK#	5117 81225364	3-001	SC PP	W 2/2	6/2009				
UNIFORM HAZARDOUS UNIFORM HAZARDOUS CONTROL OF A CONTROL	rriter.) 215 21	1 of 3. Eme	rgency Response 800) 483	Phone -3718	4. Masifest	Form Tracking Nu 189	Approved. OM 1928	F	150-0038 LE
5. Generator's Name and Meiling Address <b>Textron Incorporated</b> <b>40 Westminster Street</b> <b>Providence, RI 02903</b> Generator's Phone: (401) 457-2635		General 3	or's Site Address 3 <b>3 Adelai</b> t <b>'rovidence</b>	(it different lik <b>de Aven</b> .RI 029	an mailing addres UE 03	5)	- <sup>1</sup> 11		
6. Transporter 1 Company Name Clean Harbors Environmental Services	Inc				U.S. EPAID N	Lumber	93222	50	
7. Transporter 2 Company Name CLEAN HARDONS E.N.V	SERVICES	in	2			umber 039	32225	0	
Lesignated Facility Name and Site Address     Clean Harbors El Dorado LLC     309 American Circle     El Dorado, AR 71730     Facility's Phone:     (970) 863-7173					A R	DÖG	97481	92	
9a. 9b. U.S. DOT Description (including Proper Shipping Name, Haz	ard Class, ID Number,		10. Contair	iers	11. Total	12. Unit	13. Wasi	te Codes	
1. NA3077, HAZARDOUS WASTE, SOI	LID, N.O.S.,		No:	lype	Cruantity	WEINOL .	FOOL		
X TIRICHLOROETHENES, 9, PG III			006	Dri	2400	٢			
3.	<u></u>	<del>.</del>							
4.									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare in marked and labeled/placarded, and are in all respects in proper con Exporter, I certify that the contents of this consignment conform to the I certify that the waste minimization statement identified in 40 CFR 7 Generators/Offeror's Printed/Typed Name	hat the contents of this consignn eRich for transport according to a he terms of the attached EPA Act 262.27(a) (if I am a large quantity	nent are fully a applicable inte (nowledgment generator) or Signatur	nd accurately dee maticitat and natk of Consent. (b) (if I am a sma	cribed above onal governm Il quantity ge	by the proper shi ental regulations, nerator) is true.	pping name, If export ship	and are classifie ment and I am t :Month	d, peckaç he Primar Day	jed, Y Year
18. International Shipments				1			03	26	09
Transporter signature (for exports only): 17. Transporter signature (for exports only):		rom 0.8.	Data leave	nyvexii: xg U.S.:					
Transporter Printed Typed Name Adriana Brita	·	Signature	Adria	~~~ (	2.Jo		Manth 03	Day 26	   ປີ ¶
Transporter 2 Printed/Typed Name FRANCISCO BUTO		Signature			BTO		Month	Day 27	Year 109
18. Discrepancy 18a. Discrepancy Indication Space Quantity	Туре	[	Residue	Number	Partial Reje	sction		Full Rejec	žion
18b. Allemate Facility (or Generator)			anneath seichende	Indiandor.	U.S. EPAID N	umber			
raceiny s mone: 18c. Signature of Alternate Facility (or Generator)					<u> </u>		Month	Day	Year
19. Hazardous WesterReport Management Method Codes (i.e., codes for     1.     2     2     20. Optimized Excelling Optimized Optimized Excelling Optimized Optized Optimize	hazardous waste treatment, dis	ocsal, and rec 3.	yding systems)	-fa4	4.				
A come 2700 22 (Boy 2 AS) Downland and a series of the ser	rous materals covered by the r	nannest axce Signature		llof	<i>A</i>		04	Ó	10
Clean Harbors has the appropriate permits	for and will accept th	ie waste i	n DESIG	INATED H Br <b>isship</b>	ping.	DESTINAT	ION STATE	(IF REC	UIRED

## **APPENDIX F**

## ASD System Monitoring Form



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

Comp. ID	Component Name	Units	Site Arrival
) System - Operational	Parameters		
VI-201	EW-2 Vacuum	(in H20)	17
BFV-201	EW-2 Control Valve (Valve Position)	N/A	FULL DAEN
VI-202	EW-4 Vacuum	(in H20)	17
BFV-202	EW-4 Control Valve (Valve Position)	N/A	F.D.
VI-203	EW-3 Vacuum	(in H20)	17
BFV-203	EW-4 Control Valve (Valve Position)	N/A	F.D.
VI-204	EW-4 Vacuum	(in H20)	17
BFV-204	EW-4 Control Valve (Valve Position)	N/A	F.O
VI-205	Influent Vacuum	(in H20)	17
VI-206	Particulate Filter Inlet Vacuum	(in H20)	18
GV-201	Blower Makeup Air Control Valve Position	N/A	FULLY CLOSED
VI-207	Blower Inlet Vacuum	(in H20)	18
PI-201	Blower Discharge Presure	(PST) in 1/20	99 6.5
TI-201	Blower Discharge Temperature	(deg F)	99
FI-201	Blower Discharge Flow	(CFM)	NA
P-211	Lead VGAC Discharge Pressure	(PSI) **.1*20	3.0
P-212	Lag VGAC Discharge Pressure	(PSI)	D
d Screening			
Sample Port EW-1	EW-1 VOC Level (460 FPM)	(ppm)	8-3-1 975
SP EW-2	EW-2 VOC Level (815 FAM)	(ppm)	199
SP EW-3	EW-3 VOC Level (470 FPM)	(ppm)	-1 26
SP EW-4	EW-4 VOC Level (766 FMM)	(ppm)	296
SP-Inf	VGAC Influent VOC Level	(ppm)	87.9
SP-Mid	VGAC Midpoint VOC Level	(ppm)	NO
SP-Eff	VGAC Effluent VOC Level	(ppm)	ND
SP EW-5	EW-5 VOC Level	(ppm)	~
SP EW-6	EW-6 VOC Level	(ppm)	
SP EW-7	EW-7 VOC Level	(ppm)	·
er Activities/Observatio	ns		
Depth of water in Me	pisture Seperator Tank	(in)	_~~~~"
Condensate Tank Dr	ained?		YN
Was system in fault	ipon arrival?		YN
Describe panel alarm	conditions on arrival, if any:	RADON FANS 1	-3 IN ALARM
Weather conditions:		COLD C	LEAR
Comments/other acti	vities performed:	INITIAL A	ST START-UP
INVESTIGATE	PROBLEM W RADON FAN FL	DUSONSVRS	
CONAUCT VAC. NEERIOR VI	MEASUREMENT & Si MW'S	te check performed by	DM/JI
BLOWER H	RS 9.2		-

1/29/09

VMW-4	-0.33	in Hz D
VMW-1	-0.49	
VMW-2	-0,65	
VMW-3	- 0.56	
VMW-7	Ø	
VMW.6	-0,17	
VMW-5	-0.30	



Date: 2-2-09 Arrival Time: <u>/530</u> Dep. Time: <u>/760</u>

$\frown$	Comp. ID	Component Name	Units	Site Arrival
ASD	System - Operational	Parameters		
	VI-201	EW-2 Vacuum	(in H20)	17
	BFV-201	EW-2 Control Valve (Valve Position)	N/A	OPEN FUll
	VI-202	EW-4 Vacuum	(in H20)	17.5
	BFV-202	EW-4 Control Valve (Valve Position)	N/A	OPEN FUIL
	VI-203	EW-3 Vacuum	(in H20)	17.3
	BFV-203	EW-4 Control Valve (Valve Position)	N/A	OPEN FUL
	VI-204	EW- Vacuum	(in H20)	17
	BFV-204	EW-4 Control Valve (Valve Position)	N/A	OPKN FULL
	VI-205	Influent Vacuum	(in H20)	17.2
	VI-206	Particulate Filter Inlet Vacuum	(in H20)	18
	GV-201	Blower Makeup Air Control Valve Position	N/A	CLOSED
	VI-207	Blower Inlet Vacuum	(in H20)	18.5
	PI-201	Blower Discharge Presure	(PSI)	-6-5-
	TI-201	Blower Discharge Temperature	(deg F)	118
	FI-201	Blower Discharge Flow	(CFM)	6.5
	<b>P-211</b>	Lead VGAC Discharge Pressure	(PSI)	3
	P-212	Lag VGAC Discharge Pressure	(PSI)	12
Field !	Screening	Ĩ		
	Sample Port EW-1	EW-1 VOC Level	(ppm)	145.8
)	SP EW-2	EW-2 VOC Level	(ppm)	6.4
	SP EW-3	EW-3 VOC Level	(ppm)	4.2
	SP EW-4	EW-4 VOC Level	(ppm)	2.4
	SP-Inf	VGAC Influent VOC Level	(ppm)	11.2
	SP-Mid	VGAC Midpoint VOC Level	(ppm)	ND
	SP-Eff	VGAC Effluent VOC Level	(ppm)	ND
	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/Observation	DIIS		
(	Depth of water in M	oisture Seperator Tank	(in)	Below SiglTG/
	Condensate Tank Dr	ained?		YC
	Was system in fault	upon arrival?		YED
	Describe panel alarn	n conditions on arrival, if any:	NONE	
	Weather conditions:		CUAN + 00	21 35-4001
	Comments/other act	ivities performed:	System HAS	Been allik
	for ABOUT	1 Hrz	1	
Bi	NAPPED OUT	1/4 Der Suc Sin	te check performed by $\rho = \rho = \rho$	: 22. A.
) k i i h	non wi	TO AniAnh (		



Date: 2-3-09

Arrival Time: \_\_\_\_\_ Dep. Time: \_\_\_\_\_

	Comp. ID	Component Name	Units	Site Arrival
Den 19	System - Operational	Parameters	_	
	VI-201	EW-2 Vacuum	(in H20)	17.5
	BFV-201	EW-2 Control Valve (Valve Position)	N/A	
	VI-202	EW-4 Vacuum	(in H20)	18
	BFV-202	EW-4 Control Valve (Valve Position)	N/A	
	VI-203	EW-3 Vacuum	(in H20)	18
	BFV-203	EW-4 Control Valve (Valve Position)	N/A	
	VI-204	EW-OVacuum 🕑 – 1	(in H20)	17.5
	BFV-204	EW-4 Control Valve (Valve Position)	N/A	w-0102
	VI-205	Influent Vacuum	(in H20)	17.5
	VI-206	Particulate Filter Inlet Vacuum	(in H20)	18
	GV-201	Blower Makeup Air Control Valve Position	N/A	
	VI-207	Blower Inlet Vacuum	(in H20)	18.5
	PI-201	Blower Discharge Presure	(1963)	6.5 " Hao
	TI-201	Blower Discharge Temperature	(deg F)	114
	FI-201	Blower Discharge Flow	(CFM)	
	P-211	Lead VGAC Discharge Pressure	(PSI)	3
	P-212	Lag VGAC Discharge Pressure	(PSI)	0.5
Field	Screening			
	Sample Port EW-1	EW-1 VOC Level	(ppm)	468
( i	SP EW-2	EW-2 VOC Level	(ppm)	5.6
	SP EW-3	EW-3 VOC Level	(ppm)	330
	SP EW-4	EW-4 VOC Level	(ppm)	Ø Ø
	SP-Inf	VGAC Influent VOC Level	(ppm)	202
	SP-Mid	VGAC Midpoint VOC Level	(ppm)	AL
	SP-Eff	VGAC Effluent VOC Level	(ppm)	20
	SP EW-5	EW-5 VOC Level	(ppm)	<u> </u>
	SP EW-6	EW-6 VOC Level	(ppm)	~/~
	SP EW-7	EW-7 VOC Level	(ppm)	~/~
Othe	r Activities/Observati	ons		
	Depth of water in M	loisture Seperator Tank	(in) Bezod siz	V GLASS
	Condensate Tank D	rained?		₽ <b>©</b> ₽
	Was system in fault	upon arrival?		Y <b>/</b>
	Describe panel alarr	n conditions on arrival, if any:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	Weather conditions:		SNOUME	30
	Comments/other act	tivities performed:	SITT C	Vetik

Site check performed by: Dove munny

<b>CleanHar</b>	hore	*

()

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

Date: Z~4	1-09
Arrival Time:	00700
Dep. Time:	1000

Comp. 1D	Component Name	Units	Site Arrival
SD System - Operationa	l Parameters		
VI-201	EW-2 Vacuum	(in H20)	18
BFV-201	EW-2 Control Valve (Valve Position)	N/A	
VI-202	EW-4 Vacuum	(in H20)	18
BFV-202	EW-4 Control Valve (Valve Position)	N/A	
VI-203	EW-3 Vacuum	(in H20)	18
BFV-203	EW-4 Control Valve (Valve Position)	N/A	
VI-204	EW-SVacuum Ew-1	(in H20)	17.5
BFV-204	EW-4 Control Valve (Valve Position)	N/A	
VI-205	Influent Vacuum	(in H20)	18
VI-206	Particulate Filter Inlet Vacuum	(in H20)	19
GV-201	Blower Makeup Air Control Valve Position	N/A	
VI-207	Blower Inlet Vacuum	(in H20)	19
<b>PI-201</b>	Blower Discharge Presure	( <del>PSI)</del> " H20	6.5
TI-201	Blower Discharge Temperature	(deg F)	112
FI-201	Blower Discharge Flow	(CFM)	<b>?</b>
P-211	Lead VGAC Discharge Pressure	(PSI)	<b>e 18</b>
P-212	Lag VGAC Discharge Pressure	(PSI)	0.5
Field Screening		14 C	
Sample Port EW-1	EW-1 VOC Level	(ppm)	16
SP EW-2	EW-2 VOC Level	(ppm)	4.5
SP EW-3	EW-3 VOC Level	(ppm)	0.8
SP EW-4	EW-4 VOC Level	(ppm)	20
SP-Inf	VGAC Influent VOC Level	(ppm)	1.4
SP-Mid	VGAC Midpoint VOC Level	(ppm)	ND
SP-Eff	VGAC Effluent VOC Level	(ppm)	20
SP EW-5	EW-5 VOC Level	(ppm)	
SP EW-6	EW-6 VOC Level	(ppm)	
SP EW-7	EW-7 VOC Level	(ppm)	<u> </u>
Other Activities/Observat	ions		
Depth of water in M	Moisture Seperator Tank	(in)	BOROW SATE GO
Condensate Tank I	Drained?		Y <b>ND</b>
Was system in faul	t upon arrival?		Y/O
Describe panel alar	m conditions on arrival, if any:	<u> </u>	
Weather conditions	x	Coip	180

Site check performed by: Roover Gov

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<b>CleanHarbors</b>	
PROFESSION AND A STRATES AND	

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4	0	Q	4
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Textron, Inc Former Gorham Manufacturing Facility - ASD System 333 Adelaide Avenue, Providence, RI Date: 2-5-09 Amival Time: 15:30 Dep. Time: 17:53

Comp. ID	Component Name	Units	Site Arrival
Some Operational	Partendert		
VI-201	EW-2 Vacuum	(in H20)	- 18
BFV-201	EW-2 Control Valve (Valve Position)	N/A	
VI-202	EW-4 Vacuum	(in H20)	18
BFV-202	EW-4 Control Valve (Valve Position)	N/A	FULL VAE
<b>VI-203</b>	EW-3 Vacuum	(in H20)	18-5
BFV-203	EW-4 Control Valve (Valve Position)	Ň/A	_FVIL VP
VI-204	EW-4 Vacuum - 1	(in <b>H2</b> 0)	18
BFV-204	EW-4 Control Valve (Valve Position)	N/A.	FULL VP
<b>VI-205</b>	Influent Vacnum	(in H20)	
VI-206	Particulate Filter Inlet Vacuum	(in H20)	
GV-201	Blower Makeup Air Control Valve Position	N/A	
VI-207	Blower Inlet Vacuuto	(in H20)	19
PI-201	Blower Discharge Presure	(PSI)	6.5
TI-201	Blower Discharge Temperature	(deg F)	114
FI-201	Blower Discharge Flow	(CFM)	
P-211	Lead VGAC Discharge Pressure	(PSI)	3
P-212	Lag VGAC Discharge Pressure	(PSI)	0.5
ad Schemins			
Sample Port EW-1	EW-1 VOC Level	(ppm)	15
SP EW-2	EW-2 VOC Level	(ppm)	4
SP EW-3	EW-3 VOC Level	(ppm)	0.9
SP EW-4	EW-4 VOC Level	(ppm)	<u> </u>
SP-Inf	VGAC Influent VOC Level	(ppm)	1.4
SP-Mid	VGAC Midpoint VOC Level	(ppm)	_ م د
SP-Eff	VGAC Effluent VOC Level	(ppm)	<u></u> 0 W
SP EW-5	EW-5 VOC Level	(ppm)	
SP EW-6	EW-6 VOC Level	(ppm)	
SP EW-7	EW-7 VQC Level	(ppm)	· · · · · · · · · · · · · · · · · · ·
het Activities Observer	enc -		
Depth of water in M	loisture Seperator Tank	(in)	Berew Sirr Or
Condensate Tank Dr	rained?		Y/ <b>Ø</b>
Was system in fault	upon arrival?		YØ
Describe panel alarr	n conditions on arrival, if any:		RADSN FAN
			0-940
Weather conditions:			

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Site check performed by: Roprey bit

MOTE: RADON FAWS OPERATIONAL



Date: 26-09 Arrival Time: /620 Dep. Time: 730

AH2

	Comp. ID	Component Name	Units	Site Arrival
) Sy	stem - Operational	Parameters		
	VI-201	EW-2 Vacuum	(in H20)	
	BFV-201	EW-2 Control Valve (Valve Position)	N/A	OPEN Full
	VI-202	EW-4 Vacuum	(in H20)	
	BFV-202	EW-4 Control Valve (Valve Position)	N/A	open hil
	VI-203	EW-3 Vacuum	(in H20)	
	BFV-203	EW-4 Control Valve (Valve Position)	N/A	open full
	VI-204	EW-4Vacuum	(in H20)	18.2
	BFV-204	EW-Control Valve (Valve Position)	N/A	- OPEN Full_
	VI-205	Influent Vacuum	(in H20)	18.5
	VI-206	Particulate Filter Inlet Vacuum	(in H20)	
	GV-201	Blower Makeup Air Control Valve Position	N/A	Closed
	VI-207	Blower Inlet Vacuum	(in H20)	
	PI-201	Blower Discharge Presure	(PSI)	6.5
	TI-201	Blower Discharge Temperature	(deg F)	120
	FI-201	Blower Discharge Flow	(CFM)	
	P-211	Lead VGAC Discharge Pressure	(PSI)	
	P-212	Lag VGAC Discharge Pressure	(PSI)	<u> &lt; /.8</u>
ld S	Screening			
	Sample Port EW-1	EW-1 VOC Level	(ppm)	23.2
	SP EW-2	EW-2 VOC Level	(ppm)	7.8
	SP EW-3	EW-3 VOC Level	(ppm)	3.2
	SP EW-4	EW-4 VOC Level	(ppm)	ND
	SP-Inf	VGAC Influent VOC Level	(ppm)	2.2
	SP-Mid	VGAC Midpoint VOC Level	(ppm)	ND
	SP-Eff	VGAC Effluent VOC Level	(ppm)	ND
	SP EW-5	EW-5 VOC Level	(ppm)	
	SP EW-6	EW-6 VOC Level	(ppm)	
	SP EW-7	EW-7 VOC Level	(ppm)	
her	Activities/Observati	ons		2
	Depth of water in M	Ioisture Seperator Tank	(in)	Delow Jight Con
	Condensate Tank D	rained?		YAS
	Was system in fault	upon arrival?		RAGIN A
	Describe panel alar	n conditions on arrival, if any:	No	NE LIGHTS AN
	Weather conditions	:	Chan+	COLD Zes?
	Comments/other activities performed:		Blower is A	many a 11 storp
	Bloven HRS	- 108.8		
	CORD. PUND HE	2. = 0.2	Site check performe	ed by:
7	Bloven HRS Cond. Pump He Couch plen	= 108.8 1 = 0.2 R AIR Berry Pulles In T		Site check performe

781-380-1403

T-441 P.007/007 F-733



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

Date: 2-1209 Arrival Time: Dep. Time: 184

Comp. ID	Component Name	Units	Site Arrival
ASD System=Operation	OBI PARAMETERS		
VI-201	EW-2 Vacuum	(in H20)	
BFV-201	EW-2 Control Valve (Valve Position)	N/A	OPEN FUL
VI-202	ÉW-4 Vacuum	(in H20)	
BFV-202	EW-4 Control Valve (Valve Position)	N/A	OPEN FULL
VI-203	EW-3 Vacuum	(in H20)	21
BFV-203	EW Control Valve (Valve Position)	N/A	OPEN FUL
VI-204	EW- Vacuum	(in H20)	21
BFV-204	EW-4 Control Valve (Valve Position)	N/A	OPENS FULL
VI-205	Influent Vacuum	(in H20)	
VI-206	Particulate Filter Inlet Vacuum	(in H20)	22
GV <b>-</b> 201	Blower Makeup Air Control Valve Position	N/A	CIOSED
VI-207	Blower Inlet Vacuum	(in H20)	22
<b>PI-201</b>	Blower Discharge Presure	(in H20)	<u> </u>
TI-201	Blower Discharge Temperature	(deg F)	130
P-211	Lead VGAC Discharge Pressure	(PSI)	
<b>P-212</b>	Lag VGAC Discharge Pressure	(PSI)	
N/A	SVE Blower Amperage	(Amps)	
HM-105	SVE Blower Hour Meter	(Hours)	
HM-119	Condensate Pump Hour Meter	(Hours)	
hield Sereening			
Sample Port E		(ppm)	
SPEW-2	EW-2 VOC Level	(ppill) (ppill)	
SPEW-3	EW-3 VOC Level	(ppni)	
SP L W-4	EW-4 VOC LEVEL VGAC Influent VOC I eval	(ppra)	
of-iiii Sd Mia	VGAC Midnoint VOC Level	(ppm)	
ST -IVILU SD D#	VGAC Effluent VOC Level	(ppm)	
	FW 5 VOC Level	(ppm)	
SPEW-J SPEW 6	EW-5 VOC Level	(ppm)	
SPEW-U SDEW 7	EW-7 VOC Level	(ppm)	
Other Activities/Obse			
Dooth of water	in Moisture Severator Tank	(in)	7.5
Depth of water		(iii)	
Condensate 1a	nk Drainen?		
Was system in		Room	FARS 1 2+3 40. No.
			AVN FULZ OFFICE 12 VIN Z
Individual ASI	O System Status: Ew-5 Operational? Y/N Ew-6	Operational?	Y N EW-7 Operational? Y/N
Wcather condr	tions:	Windy	ILORA 35
Comments/oth	er activities performed:	ADDED	10 GAllers of Cleven
Justen to	The K.O TANK. RADON FAN	Alman/1	Low Flow Lights ARK
ON - E	E COULD ONly HOMA FAN # 2	Rinne	7 - Veer Winny/ADDiSEN
OUTSINE,	BUE is Still Pulling 18	ite cheçk perf	ormed by: <u>DM</u>
Les n	month + Aisch. MAILLE	10C/X	Maroups The Cono. puny
		1070-12.	



Date: Z 18-09 Arrival Time: 0830 Dep. Time: 1003

SD System - 0           VI-201           BFV-202           BFV-203           BFV-204           BFV-204           BFV-205           VI-204           BFV-201           VI-205           VI-206           GV-201           VI-205           VI-206           GV-201           VI-207           PI-201           TI-201           FI-201           P-211           P-212           Vield Screenin           Sample           SP EW           SP EW           SP-Inf           SP-Mic           SP-Eff	Operational P 01 02 03 04	arameters EW-2 Vacuum EW-2 Control Valve (Valve Position) EW-4 Vacuum EW-4 Control Valve (Valve Position) EW-3 Vacuum EW-4 Control Valve (Valve Position) EW-4 Vacuum EW-4 Control Valve (Valve Position) Influent Vacuum Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	(in H20) N/A (in H20) N/A (in H20) N/A (in H20) N/A (in H20) (in H20) N/A (in H20) N/A (in H20) (PSI)	21.5 51 5 51 6 Full 21.5 0 Fin Full 21.5 21.5 21.5 Dlea Guil 21.5 22.5 22.5 22.5 22.5 22.2
VI-201 BFV-20 VI-202 BFV-20 VI-203 BFV-20 VI-204 BFV-20 VI-204 BFV-20 VI-205 VI-206 GV-201 VI-207 PI-201 TI-201 FI-201 FI-201 FI-201 FI-201 SP-211 P-212 <b>Field Screenin</b> Sample SP EW SP EW SP EW SP EW SP-Inf SP-Mid SP-Eff SP EW	)1 )2 )3 )4	EW-2 Vacuum EW-2 Control Valve (Valve Position) EW-4 Vacuum EW-4 Control Valve (Valve Position) EW-3 Vacuum EW-4 Control Valve (Valve Position) EW-4 Vacuum EW-4 Control Valve (Valve Position) Influent Vacuum Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	(in H20) N/A (in H20) N/A (in H20) N/A (in H20) N/A (in H20) (in H20) N/A (in H20) N/A (in H20) (PSI)	21.5 open Full 21.5 open full 21.5 21.5 21.5 Dlea Guil 21.5 22.5 22.5 22.5 22.5 22.2
BFV-20 VI-202 BFV-20 VI-203 BFV-20 VI-204 BFV-20 VI-204 BFV-20 VI-205 VI-206 GV-201 VI-207 PI-201 TI-201 FI-201 P-211 P-212 Vield Screenin Sample SP EW SP EW SP EW SP-Inf SP-Mid SP-Eff SP-EW	)1 )2 )3 )4	EW-2 Control Valve (Valve Position) EW-4 Vacuum EW-4 Control Valve (Valve Position) EW-3 Vacuum EW-4 Control Valve (Valve Position) EW-4 Vacuum EW-4 Control Valve (Valve Position) Influent Vacuum Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	N/A (in H20) N/A (in H20) N/A (in H20) (in H20) (in H20) N/A (in H20) (in H20) (PSI)	076n Full 21.5 0Rin Full 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.2 22.2
VI-202 BFV-20 VI-203 BFV-20 VI-204 BFV-20 VI-205 VI-206 GV-201 VI-207 PI-201 TI-201 FI-201 P-211 P-212 VI-207 Sample SP EW SP EW SP EW SP EW SP-Inf SP-Mic SP-Eff	)2 )3 )4	EW-4 Vacuum EW-4 Control Valve (Valve Position) EW-3 Vacuum EW-4 Control Valve (Valve Position) EW-4 Vacuum EW-4 Control Valve (Valve Position) Influent Vacuum Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	(in H20) N/A (in H20) N/A (in H20) N/A (in H20) N/A (in H20) N/A (in H20) (PSI)	21.5 OKIL FUII 21.5 21.5 Dlea Guil 21.5 22.5 22.5 22.5 22.5 22.5 22.5
BFV-20 VI-203 BFV-20 VI-204 BFV-20 VI-205 VI-205 VI-206 GV-201 VI-207 PI-201 TI-201 FI-201 P-211 P-212 Field Screenin Sample SP EW SP EW SP EW SP EW SP-Inf SP-Mid SP-Eff	)2 )3 )4 !	EW-4 Control Valve (Valve Position) EW-3 Vacuum EW-4 Control Valve (Valve Position) EW-4 Vacuum EW-4 Control Valve (Valve Position) Influent Vacuum Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	N/A (in H20) N/A (in H20) N/A (in H20) N/A (in H20) N/A (in H20) (PSI)	0 Kin full 21.5 22 21.5 Dlea Guil 21.5 22.5 22.5 22.5 22.5 22.5 22.5
VI-203 BFV-20 VI-204 BFV-20 VI-205 VI-206 GV-201 VI-207 PI-201 TI-201 FI-201 P-211 P-212 Vield Screenin Sample SP EW SP EW SP EW SP EW SP-Inf SP-Mic SP-Eff	)3 )4 l	EW-3 Vacuum EW-4 Control Valve (Valve Position) EW-4 Vacuum EW-4 Control Valve (Valve Position) Influent Vacuum Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	(in H20) N/A (in H20) N/A (in H20) (in H20) N/A (in H20) (PSI)	21.5 22 08en full 21.5 06en Gull 21.5 22.5 22.5 22.5 22.5 22.5
BFV-20 VI-204 BFV-20 VI-205 VI-206 GV-201 VI-207 PI-201 TI-201 FI-201 P-211 P-212 Field Screenin Sample SP EW SP EW SP EW SP EW SP-Inf SP-Mic SP-Eff	)3 )4 I	EW-4 Control Valve (Valve Position) EW-4 Vacuum EW-4 Control Valve (Valve Position) Influent Vacuum Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	N/A (in H20) N/A (in H20) (in H20) N/A (in H20) (PSI)	<u>aren full</u> 21.5 Dlea Guil 21.5 22.5 <u>22.5</u> <u>22.5</u> <u>22.5</u> <u>22.5</u>
VI-204 BFV-20 VI-205 VI-206 GV-201 VI-207 PI-201 TI-201 FI-201 P-211 P-212 Vield Screenin Sample SP EW SP EW SP EW SP EW SP-Inf SP-Mic SP-Eff	)4 I	EW- <b>4</b> Vacuum EW- <b>4</b> Control Valve (Valve Position) Influent Vacuum Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	(in H20) N/A (in H20) (in H20) N/A (in H20) (PSI)	21.5 Olea Gil 21.5 22.5 <u>22.5</u> <u>22.5</u> <u>22.5</u> <u>22.5</u>
BFV-20 VI-205 VI-206 GV-201 VI-207 PI-201 TI-201 FI-201 P-211 P-212 Cield Screenin Sample SP EW SP EW SP EW SP EW SP-Inf SP-Inf SP-Mic SP-Eff	)4 I	EW-#Control Valve (Valve Position) Influent Vacuum Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	N/A (in H20) (in H20) N/A (in H20) (PSI)	08ea G11 21.5 22.5 22.5 22.8 C1 22.9
VI-205 VI-206 GV-201 VI-207 PI-201 TI-201 FI-201 P-211 P-212 <b>Field Screenin</b> Sample SP EW SP EW SP EW SP EW SP EW SP-Inf SP-Inf SP-Eff	l	Influent Vacuum Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	(in H20) (in H20) N/A (in H20) (PSI)	21,5 22.5 <u>22.5</u> <u>22.8</u> <u>2</u> 2.9
VI-206 GV-201 VI-207 PI-201 TI-201 FI-201 P-211 P-212 Field Screenin Sample SP EW SP EW SP EW SP EW SP EW SP-Inf SP-Mic SP-Eff	l	Particulate Filter Inlet Vacuum Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	(in H20) N/A (in H20) (PSI)	22.5 <u>22-8 Cl</u> 22.2
GV-201 VI-207 PI-201 TI-201 FI-201 P-211 P-212 Field Screenin Sample SP EW SP EW SP EW SP EW SP EW SP-Inf SP-Inf SP-Mic SP-Eff	l	Blower Makeup Air Control Valve Position Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	N/A (in H20) (PSI)	<u>22.8 Cl</u> <u>22.9</u>
VI-207 PI-201 TI-201 FI-201 P-211 P-212 Vield Screenin Sample SP EW SP EW SP EW SP EW SP EW SP-Inf SP-Inf SP-Mic SP-Eff		Blower Inlet Vacuum Blower Discharge Presure Blower Discharge Temperature	(in H20) (PSI)	22.2
PI-201 TI-201 FI-201 P-211 P-212 Cield Screenin Sample SP EW SP EW SP EW SP EW SP EW SP-Inf SP-Inf SP-Mic SP-Eff		Blower Discharge Presure Blower Discharge Temperature	(PSI)	
TI-201 FI-201 P-211 P-212 Vield Screenin Sample SP EW SP EW SP EW SP EW SP EW SP-Inf SP-Mic SP-Eff SP EW		Blower Discharge Temperature		6.3
FI-201 P-211 P-212 Field Screenin Sample SP EW SP EW SP EW SP EW SP-Inf SP-Inf SP-Eff SP EW			(deg F)	118
P-211 P-212 Field Screenin Sample SP EW SP EW SP EW SP EW SP-Inf SP-Inf SP-Eff SP EW		Blower Discharge Flow	(CFM)	<u> </u>
P-212 Field Screenin Sample SP EW SP EW SP EW SP-Inf SP-Inf SP-Mic SP-Eff		Lead VGAC Discharge Pressure	(PSI)	3
Field Screenin Sample SP EW SP EW SP EW SP-Inf SP-Inf SP-Mic SP-Eff		Lag VGAC Discharge Pressure	(PSI)	<2
Sample SP EW SP EW SP EW SP-Inf SP-Mic SP-Eff SP EW	σ	Ing , one promotion generation		*
SP EW SP EW SP EW SP-Inf SP-Mic SP-Eff SP EW	B Port EW-1	FW-1 VOC Level	(ppm)	29.1
SP EW SP EW SP-Inf SP-Mic SP-Eff SP EW	-2	EW-2 VOC Level	(ppm)	· NOS
SP EW SP-Inf SP-Mic SP-Eff SP EW	-3	EW-3 VOC Level	(ppm)	NIK
SP-Inf SP-Mic SP-Eff SP EW	-4	EW-4 VOC Level	(ppm)	Aris
SP-Mic SP-Eff SP EW		VGAC Influent VOC Level	(ppm)	ND
SP-Eff	1 *	VGAC Midpoint VOC Level	(ppm)	<u>NN</u>
SP FW	1	VGAC Effluent VOC Level	(ppm)	
	-5	FW-5 VOC Level	(ppm)	· · · · · · · · · · · · · · · · · · ·
SDEW	-5	EW-6 VOC Level	(ppm)	
SF EW	-0	EW 7 VOC Level	(ppm)	······································
Jr EW Mar Activiti	-/ ss/Observatio	EW-7 VOC LEVEI	ФЪщ	(Sulface (Second Constants
Denth	of water in Mc	nisture Senerator Tank	(in)	4"
Conder	or water In Mic	ained?		YAS
Was su	etem in fault u	inou.		Y/N
Was sy Denomi		conditions on arrival if any	A 300 CL	
Descri	be paner alarm	conditions on arrival, it any.	5 160	n Zas
Weathe	er conditions:		arroug + coc	-0 00-
Comm	ents/other activ	vities performed:	• • • • • • •	
		•		
,		S	Site check performed by	: DMurp
10.8 M	mp5	Prosan from Light	hts Are on	
		es and a second s	Sund + Nish	PININ
	339.1 M	Remais purp	over i pirti	

**`leanHarbo** 

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

Date: 22609 Arrival Time: 1320 Dep. Time: 14/20

-)	Comp. ID	<b>Component Name</b>	Units	Site Arrival
ASD S	System - Operational	Parameters		
*222074388242424	VI-201	EW-2 Vacuum	(in H20)	21.6
	BFV-201	EW-2 Control Valve (Valve Position)	N/A	Open Erli
	VI-202	EW-4 Vacuum	(in H20)	21.8
	BFV-202	EW-4 Control Valve (Valve Position)	N/A	open Fill
	VI-203	EW-3 Vacuum	(in H20)	2.2.
	BFV-203	EW Control Valve (Valve Position)	N/A	open fill
	VI-204	EW- <b>4</b> Vacuum	(in H20)	21
	BFV-204	EW-4 Control Valve (Valve Position)	N/A	openful
	VI-205	Influent Vacuum	(in H20)	213
	VI-206	Particulate Filter Inlet Vacuum	(in H20)	22.5
	GV-201	Blower Makeup Air Control Valve Position	N/A	Closes
	VI-207	Blower Inlet Vacuum	(in H20)	22.5
	PI-201	Blower Discharge Presure	(PSI)	6.5
	TI-201	Blower Discharge Temperature	(deg F)	122
	FI-201	Blower Discharge Flow	(CFM)	
	P-211	Lead VGAC Discharge Pressure	(PSI)	い
	P-212	Lag VGAC Discharge Pressure	(PSI)	62
ield S	Screening			
	Sample Port EW-1	EW-1 VOC Level	(ppm)	26.9
1	SP EW-2	EW-2 VOC Level	(ppm)	1.4
	SP EW-3	EW-3 VOC Level	(ppm)	16.4
	SP EW-4	EW-4 VOC Level	(ppm)	ND
	SP-Inf	VGAC Influent VOC Level	(ppm)	4.4
	SP-Mid	VGAC Midpoint VOC Level	(ppm)	11.7-6.9
	SP-Eff	VGAC Effluent VOC Level	(ppm)	NS
	SP EW-5	EW-5 VOC Level	(ppm)	
	SP EW-6	EW-6 VOC Level	(ppm)	
	SP EW-7	EW-7 VOC Level	(ppm)	
Ither	Activities/Observati	ons		
	Depth of water in M	loisture Seperator Tank	(in)	Below Clear F
	Condensate Tank Dr	rained?		, AMA
	Was system in fault	upon arrival?		YC
	Describe panel alarr	n conditions on arrival, if any:	Ranson form	1,2,+3
	Weather conditions:		Sung + Ce	eg 35-405
	Comments/other act	ivities performed:	RAJON FAN	2. Yuts And a

() 10.7 Amps 54e tres 585,5 Cono. P.M. 0.2

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#### CANON

# CleanHarbors

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

Date: 3-6-09 Arrival Time: 1900 Dep. Time: 2003

Comp. ID	Component Name	Units	Site Arrival
9-System=0h	in the second large decision of the second		
VI-201	EW-2 Vacuum	(in H20)	
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>A</u> = 15 M
VI-202	EW-4 Vacuum	(in H20)	
BFV-202	EW-4 Control Valve (Valve Position)	N/A	1570 0
VI-203	EW-3 Vacuum	(in H20)	
BFV-203	EW-3 Control Valve (Valve Position)	N/A	<u></u>
VI-204	EW-4 Vacuum	(in H20)	
BFV-204	EW-4 Control Valve (Valve Position)	N/A	<u> </u>
VI-205	Influent Vacuum	(in H20)	
VI-206	Particulate Filter Inlet Vacuum	(in H20)	
GY-201	Blower Makeup Air Control Valve Position	N/A	<u>open 1001</u>
<b>VI-207</b>	Blower Inlet Vacuum	(in H20)	<u> </u>
PI-201	Blower Discharge Presure	(in H20)	ð
TI-201	Blower Discharge Temperature	(deg F)	110
P-211	Lead VGAC Discharge Pressure	(PSI)	
P-212	Lag VGAC Discharge Pressure	(PSI)	0-2
N/A	SVE Blower Amperage	(Amps)	10
HM-105	SVE Blower Hour Meter	(Hours)	
HM-119	Condensate Pump Hour Meter	(Hours)	
eld Sciecalle			
Sample I	Port EW-1 BW-1 VOC Level	(ppm)	
SP EW-2	EW-2 VOC Level	(ppm)	7.0
SP EW-3	BW-3 VOC Level	(ppm)	44-0
SP E₩-4	EW-4 VOC Level	(ppm)	0.7
SP-Inf	VGAC Influent VOC Level	(ppm)	3.7
SP-Mid	VGAC Midpoint VOC Level	(ppm)	and 1.
SP-Eff	VGAC Effluent VOC Level	(ppm)	
SP EW-	5 EW-5 VOC Level	(ppm)	
SP EW-	6 EW-6 VOC Level	(ppm)	
SP EW-	7 EW-7 VOC Level	(ppm)	
Ther Activitie	s/Qbservations:		
Depth o	f water in Moisture Seperator Tank	(in)	
Conden	eate Tank Drained?		
	Condensate Tank Diamed:		YOS
was sy	Was system in fault upon arrival?		- RADON FARS 1
Describ	be panel alarm conditions on arrival, it any.	-6 Operational?	Y/N EW-7 Operational?
Individ	ual ASD System Status: EW-5 Operational Trite and	cla	of third 50
Weathe	r conditions:		
Comm	ents/other activities performed: 1D.14 $2D.32$		
		Site check per	formed by: D. Muge

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🖉 006/012



Date: <u>3-13-09</u> Arrivat Time: <u>1815</u> Dep. Time: <u>1945</u>

Comp. ID	Component Name	Units	Site Arrival
ASD System - Operational	Firaneters		
VI-201	EW-2 Vacuum	(in H20)	6
BFV-201	EW-2 Control Valve (Valve Position)	N/A	HF
VI-202	EW-4 Vacuum	(in H20)	6
BFV-202	EW-4 Control Valve (Valve Position)	N/A	*** 1
VI-203	EW-3 Vacuum	(in H20)	Le le
BFV-203	EW-Control Valve (Valve Position)	N/A	
VI-204	EW- Vacnum	(in H20)	4.5
<b>BFV-204</b>	EW- Control Valve (Valve Position)	N/A	¥
VI-205	Influent Vacuum	(in H20)	්
VI-206	Particulate Filter Inlet Vacuum	(in H20)	8 പ്
GV-201	Blower Makeup Air Control Valve Position	N/A	OPEN 100%0
<b>VI-207</b>	Blower Inlet Vacuum	(in H20)	8
<b>PI-201</b>	Blower Discharge Presure	(PSI)	8
<b>TI-201</b>	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
Field Screening		n na shirich an ann an bha th' ann. An ann an ann an ann an ann an ann an ann an a	
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)	r
Other Activities/Observatio	<b>NS</b> and the second s	the standard states of	
Depth of water in M	oisture Seperator Tank	(in) .	<u> </u>
Condensate Tank Dr	ained?		Y/ <b>&amp;</b>
Was system in fault i	upon arrival?		YNB
Describe panel alarm	conditions on arrival, if any:	ProDon Francis 1, 7	1+3 low Flow
Weather conditions:		Clerc + Por	6
Comments/other acti	vities performed:	RAPON Forms	1,2+3 ARE
Runn			
	Q24.	e check performed have	
TOOK A C	ARBON Sperph OUT OF	The	
LeAD V-1	GAR- 211 BOTT	-1.ES	



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#### 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
D System - Operation:	al Parameters		
VI-201	EW-2 Vacuum	(in H20)	5
BFV-201	EW-2 Control Valve (Valve Position)	N/A	
VI-202	EW-4 Vacuum	(in H20)	<u> </u>
BFV-202	EW-4 Control Valve (Valve Position)	N/A	
VI-203	EW-3 Vacuum	(in H20)	6
BFV-203	EW-3 Control Valve (Valve Position)	N/A	
VI-204	EW-1 Vacuum	(in H20)	6
BFV-204	EW-1 Control Valve (Valve Position)	N/A	
VI-205	Influent Vacuum	(in H20)	8
VI-206	Particulate Filter Inlet Vacuum	(in H20)	8.5
GV-201	Blower Makeup Air Control Valve Position	N/A	
VI-207	Blower Inlet Vacuum	(in H20)	8
PI-201	Blower Discharge Presure	(in H20)	8
TI-201	Blower Discharge Temperature	(deg F)	/08
P-211	Lead VGAC Discharge Pressure	(PSI)	3
P-212	Lag VGAC Discharge Pressure	(PSI)	0
N/A	SVE Blower Amperage	(Amps)	NA
HM-105	SVE Blower Hour Meter	(Hours)	NIA
HM-119	Condensate Pump Hour Meter	(Hours)	A/2
ld Screening			
Sample Port EW-1	EW-1 VOC Level	(ppm)	21
SP EW-2	EW-2 VOC Level	(ppm)	8
SP EW-3	EW-3 VOC Level	(ppm)	//
SP EW-4	EW-4 VOC Level	(ppm)	3
SP-Inf	VGAC Influent VOC Level	(ppm)	2
SP-Mid	VGAC Midpoint VOC Level	(ppm)	2
SP-Eff	VGAC Effluent VOC Level	(ppm)	1.4
SP EW-5	EW-5 VOC Level	(ppm)	
SP EW-6	EW-6 VOC Level	(ppm)	
SP EW-7	EW-7 VOC Level	(ppm)	
ner Activities/Observa	lions		
Depth of water in I	Moisture Seperator Tank	(in)	0
Condensate Tank I	Drained?		Y IN
Was system in faul	tupon arrival?		(2) (N
			( ) IN
Describe panel alai	m conditions on arrival, if any:	ASW HI	E LEVEL (LODGE WIRE IN
Individual ASD Sy	stem Status: EW-5 Operational? (Y)/N EW-6 (	Operational? (	⑦/ N EW-7 Operational? ⑦/ N
Weather conditions	S:	5 บ.ศ	A'Y
Comments/other ac	ctivities performed:	TROUBLE	-SHOOT HE LEVEL ALAN
UMW-1 ->	0.17 Found WIRE FLOM	LEVEZ	SWITCH #301 2009 5
Umw-2 >	0.22 RECONSOLT THRN	SYSTEM	BACK ON-LINE.
Un a v	0.20	1 1 6	AS C.
VMW-S ->		P COPCV NOTION	med hv M. IN Y



Date: 326-09 Arrival Time: 12.00 Dep. Time: 1430

Co	mp. ID	Component Name	Units	Site Arrival
SD Syste	m - Operatio	nal Parameters		
Ví	-201	EW-2 Vacuum	(in H20)	
BF	V-201	EW-2 Control Valve (Valve Position)	N/A	
VI	-202	EW-4 Vacuum	(in H20)	<u> </u>
BF	V-202	EW-4 Control Valve (Valve Position)	N/A	
VI	-203	EW-3 Vacuum	(in H20)	<u> </u>
BF	V-203	EW J Control Valve (Valve Position)	N/A	
VÍ	-204	EW-4 Vacuum	(in II20)	<u>(e</u>
BE	₹ <b>V-2</b> 04	EW- Control Valve (Valve Position)	N/A	
VI	-205	Influent Vacuum	(in H20)	
V	1-206	Particulate Filter Inlet Vacuum	(in H20)	<u> </u>
G	<b>V-201</b>	Blower Makeup Air Control Valve Position	N/A	open ful
V	[-207	Blower Inlet Vacuum	(in H20)	
PI	-201	Blower Discharge Presure	(PSI)	8
T	[-20]	Blower Discharge Temperature	(deg F)	105
F	-201	Blower Discharge Flow	(CFM)	
P-	-211	Lead VGAC Discharge Pressure	(PSI)	
P	-212	Lag VGAC Discharge Pressure	(PSI)	
Held Ser	eening		San	
S	ample Port EV	W-1 EW-1 VOC Level	(ppm)	
S	P FW-2	EW-2 VOC Level	(ppm)	<u>No</u>
S	PEW-3	EW-3 VOC Level	(ppm)	<u></u>
S	PEW-4	EW-4 VOC Level	(ppm)	<u></u>
S	P-Inf	VGAC Influent VOC Level	(ppm)	0.3
S	P-Mid	VGAC Midpoint VOC Level	(ppm)	
S	P-Eff	VGAC Effluent VOC Level	(ppm)	2,5
S	P EW-5	EW-5 VOC Level	(ppm)	
5	SP EW-6	EW-6 VOC Level	(ppm)	
Ş	SP EW-7	EW-7 VOC Level	(ppm)	n a second a second de la companya d
Other A	ctivities/Obse	rvations		
, ∼rt÷re (¢n I	Coth of water	in Moisture Seperator Tank	(in)	
(	Condensate Ta	ank Drained?		YO
	Was system in	fault upon arrival?		Y
]	Describe pane	l alarm conditions on arrival, if any:	RADON F	Ans 1, Z+3 Low F
,	Weather cond	itions:	Classy +	cool 403
	Comments/oth	her activities performed:	OPENDERS S	Hopt shop Doon>
	for Du	un frek up.		
-	F CAN A	ense The RADON FORTS MUNUIN	Site check perfor	med by: M
-				/ (
IVE H	KS - 1141	3.9 TACKAS W. The C		
mb. P	mp - 0.2			
C . C . A	mps - 10	)		



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

Comp. ID	Component Name	Units	Site Arrival
ASD System - Operational	Parameters	A PERSONAL AL	
<b>VI-20</b> 1	EW-2 Vacuum	(in H20)	5
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u> </u>
VI-202	EW-4 Vacuum	(in H20)	6
BFV-202	EW-4 Control Valve (Valve Position)	N/A	# (
<b>VI-203</b>	EW-3 Vacuum	(in H20)	6
BFV-203	EW-3 Control Valve (Valve Position)	N/A	## /
<b>VI-204</b>	EW-4 Vacuum	(in H20)	le
BFV-204	EW-4 Control Valve (Valve Position)	N/A	年(
<b>VI-205</b>	Influent Vacuum	(in H20)	B
<b>VI-206</b>	Particulate Filter Inlet Vacuum	(in H20)	Bis
GV-201	Blower Makeup Air Control Valve Position	N/A	0 Pen 100 %
<b>VI-207</b>	Blower Inlet Vacuum	(in H20)	00
PI-201	Blower Discharge Presure	(PSI)	×
<b>TI-2</b> 01	Blower Discharge Temperature	(deg F)	(10
FI-201	Blower Discharge Flow	(CFM)	<u> </u>
P-211	Lead VGAC Discharge Pressure	(PSI)	4
P-212	Lag VGAC Discharge Pressure	(PSI)	<2
Field Screening			Sector and the sector of the
Sample Port EW-1	EW-1 VOC Level	(ppm)	9.2
SP EW-2	EW-2 VOC Level	(ppm)	<u></u> ND
SP EW-3	EW-3 VOC Level	(ppm)	4,8
SP EW-4	EW-4 VOC Level	(ppm)	NO
SP-Inf	VGAC Influent VOC Level	(ppm)	0.2
SP-Mid	VGAC Midpoint VOC Level	(ppm)	Z.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/Observat	ions		
Depth of water in M	Ioisture Seperator Tank	(in)	Ð
Condensate Tank D	trained?		Y/
Was system in fault	t upon arrival?		(CAN)
Describe panel alar	m conditions on arrival, if any:	RASON FAR	5 1, 2, 3 Low flow
Weather conditions	:	RAN + CO	21 40 5
Comments/other ac	tivities performed:	RADON FA	ns And Acharal.
Installes A	DRATH in RADOM Fith 2 BID	<u>1111</u>	
RI	Sit	te check performed	by: B. Murpy
Blower & 10	Maryos / 1396.7 Hars		11 (
young it is = 1	0.2		

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Date:	4-10.09
Arrival Time	: 0730
Dep. Time:	0800

Comp. ID	Component Name	Units	Site Arrival
SD System - Operationa	l Parameters		
VI-201	EW-2 Vacuum	(in H20)	5.5
BFV-201	EW-2 Control Valve (Valve Position)	N/A	
VI-202	EW-4 Vacuum	(in H20)	5.5
BFV-202	EW-4 Control Valve (Valve Position)	N/A	
VI-203	EW-3 Vacuum	(in H20)	5.5
BFV-203	EW-3 Control Valve (Valve Position)	N/A	
VI-204	EW-1 Vacuum	(in H20)	5.5
BFV-204	EW-1 Control Valve (Valve Position)	N/A	
VI-205	Influent Vacuum	(in H20)	8
VI-206	Particulate Filter Inlet Vacuum	(in H20)	8.5
GV-201	Blower Makeup Air Control Valve Position	N/A	
VI-207	Blower Inlet Vacuum	(in H20)	8
PI-201	Blower Discharge Presure	(in H20)	7.5
TI-201	Blower Discharge Temperature	(deg F)	106
<b>P-211</b>	Lead VGAC Discharge Pressure	(PSI)	2
P-212	Lag VGAC Discharge Pressure	(PSI)	()
N/A	SVE Blower Amperage	(Amps)	
HM-105	SVE Blower Hour Meter	(Hours)	01508.7
HM-119	Condensate Pump Hour Meter	(Hours)	0
ld Screening			
Sample Port EW-1	EW-1 VOC Level	(ppm)	5.8
SP EW-2	EW-2 VOC Level	(ppm)	NN
SP EW-3	EW-3 VOC Level	(ppm)	2.4
SP EW-4	EW-4 VOC Level	(ppm)	~ 1
SP-Inf	VGAC Influent VOC Level	(ppm)	1.4
SP-Mid	VGAC Midpoint VOC Level	(ppm)	0.8
SP-Eff	VGAC Effluent VOC Level	(ppm)	2.0
SP EW-5	EW-5 VOC Level	(ppm)	
SP EW-6	EW-6 VOC Level	(ppm)	A
SP EW-7	EW-7 VOC Level	(ppm)	AA
er Activities/Observatio	ns		
Depth of water in Mo	Disture Seperator Tank	(in)	
Condensate Tank Drained?			<u> </u>
Was system in fault upon arrival?			Y/ <b>X7</b>
Describe panel alarm	conditions on arrival, if any:	الدبي دير	er er
Individual ASD System	em Status: EW-5 Operational? 🖉/ N EW-6 O	perational? 🖉 N	EW-7 Operational?
Weather conditions:			42°
Comments/other activities performed:			
	1	·	

Site check performed by: Rosnoy Gree



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



ASD: System - Operational Parameters       (in H20)         BFV-201       EW-2 Vacuum       (in H20)         BFV-201       EW-2 Control Valve (Valve Position)       N/A <u>H</u> VI-202       EW-4 Vacuum       (in H20) <u>E</u> BFV-202       EW-4 Vacuum       (in H20) <u>E</u> BFV-203       EW-3 Vacuum       (in H20) <u>E</u> BFV-204       EW-4 Control Valve (Valve Position)       N/A <u>H</u> VI-204       EW-4 Control Valve (Valve Position)       N/A <u>H</u> VI-204       EW-4 Control Valve (Valve Position)       N/A <u>H</u> VI-204       EW-4 Control Valve (Valve Position)       N/A <u>H</u> VI-205       Influent Vacuum       (in H20)       [In H20)         VI-206       Particulate Filter Indel Vacuum       (in H20)       [In H20)         VI-207       Blower Makeup Air Control Valve Position       N/A <u>Z</u> VI-201       Blower Discharge Tenperature       (deg F)       [I         FI-201       Blower Discharge Tenperature       (deg F)       [I         P-212       Lag VGAC Discharge Pressure       (PSI)       [PSI]         SP EW-3       EW-1 VOC Level       (ppm) <t< th=""><th>Comp.</th><th>Component Name</th><th>Units</th><th>Site Arrival</th></t<>	Comp.	Component Name	Units	Site Arrival
VI-201       EW-2 Vacuum       (in H20)         BFV-201       EW-2 Control Valve (Valve Position)       N/A       #         VI-202       EW-4 Vacuum       (in H20)       2         BFV-202       EW-4 Control Valve (Valve Position)       N/A       #         VI-203       EW-3 Vacuum       (in H20)       5         BFV-203       EW-3 Control Valve (Valve Position)       N/A       #         VI-204       EW-4 Vacuum       (in H20)       5         BFV-205       Influent Vacuum       (in H20)       5         VI-206       Particulate Filter Inlet Vacuum       (in H20)       1         VI-205       Influent Vacuum       (in H20)       1         VI-206       Particulate Filter Inlet Vacuum       (in H20)       1         VI-207       Blower Inlet Vacuum       (in H20)       1         VI-207       Blower Discharge Presure       (PSI)       1         FI-201       Blower Discharge Presure       (PSI)       1         P-211       Lead VGAC Discharge Pressure       (PSI)       1         P-212       Lag VGAC Level       (ppm)       1         SP EW-3       EW-3 VOC Level       (ppm)       1         SP EW-3       EW-4 V	ASD System -	perational Parameters	an a	
BFV-201       EW-2 Control Valve (Valve Position)       N/A	VI-201	EW-2 Vacuum	(in H20)	5
VI-202       EW-4 Vacuum       (in H20)	BFV-2	EW-2 Control Valve (Valve Position)	N/A	<u> </u>
BFV-202       EW-4 Control Valve (Valve Position)       N/A       #         VI-203       EW-3 Vacuum       (in H20)       \$         BFV-203       EW-3 Control Valve (Valve Position)       N/A       #         VI-204       EW-4 Control Valve (Valve Position)       N/A       #         VI-204       EW-4 Control Valve (Valve Position)       N/A       #         VI-205       Influent Vacuum       (in H20)	<b>√1-202</b>	EW-4 Vacuum	(in H20)	5.5
$VI-203$ EW-3 Vacuum(in H20) $\leq$ BFV-203EW-3 Control Valve (Valve Position)NA $\leq$ VI-204EW-4 Vacuum(in H20)	BFV-2	EW-4 Control Valve (Valve Position)	N/A	4 [
BFV-203       EW-3 Control Valve (Valve Position)       N/A       42         VI-204       EW-4 Vacuum       (in H20)       1         BFV-204       EW-4 Control Valve (Valve Position)       N/A       42         VI-205       Influent Vacuum       (in H20)       4         VI-206       Particulate Filter Inlet Vacuum       (in H20)       1         GV-201       Blower Makeup Air Control Valve Position       N/A       22pe         VI-207       Blower Discharge Tensure       (PSI)       1         TI-201       Blower Discharge Tensure       (deg F)       1         FI-201       Blower Discharge Tensure       (PSI)       1         P-211       Lead VGAC Discharge Pressure       (PSI)       1         P-212       Lag VGAC Discharge Pressure       (PSI)       1         SP EW-2       EW-3 VOC Level       (ppm)       1         SP EW-3       EW-3 VOC Level       (ppm)       1         SP EW-4       EW-4 VOC Level       (ppm)       1         SP EW-3       EW-3 VOC Level       (ppm)       1         SP EW-4       EW-4 VOC Level       (ppm)       1         SP EW-5       EW-5 VOC Level       (ppm)       1         SP EW-	<b>VI-20</b> 3	EW-3 Vacuum	(in H20)	5.8
VI-204       EW-4 Vacuum       (in H20)         BFV-204       EW-4 Control Valve (Valve Position)       N/A       4         VI-205       Influent Vacuum       (in H20)       4         VI-206       Particulate Filter Inlet Vacuum       (in H20)       4         GV-201       Blower Makeup Air Control Valve Position       N/A       2         GV-201       Blower Inlet Vacuum       (in H20)       4         VI-207       Blower Discharge Presure       (PSI)       4         TI-201       Blower Discharge Tensperature       (deg F)       1         FI-201       Blower Discharge Pressure       (PSI)       4         P-211       Lead VGAC Discharge Pressure       (PSI)       4         P-212       Lag VGAC Discharge Pressure       (PSI)       4         Sample Port EW-1       EW-1 VOC Level       (ppm)       5         SP EW-3       EW-3 VOC Level       (ppm)       5       5         SP EW-4       EW-4 VOC Level       (ppm)       5       5       5         SP EW-5       EW-5 VOC Level       (ppm)       5       5       5       5         SP EW-5       EW-5 VOC Level       (ppm)       5       5       5       5       6	BFV-2	EW-3 Control Valve (Valve Position)	N/A	<u>++  </u>
BFV-204       EW-4 Control Valve (Valve Position)       N/A       4         VI-205       Influent Vacuum       (in H20)       (in H20)         VI-206       Particulate Filter Inlet Vacuum       (in H20)       (in H20)         GV-201       Blower Makeup Air Control Valve Position       N/A       22pe         VI-207       Blower Discharge Presure       (PSI)       (in H20)         PI-201       Blower Discharge Presure       (PSI)       (CFM)         FI-201       Blower Discharge Pressure       (PSI)       (CFM)         P-211       Lead VGAC Discharge Pressure       (PSI)       (PSI)         P-212       Lag VGAC Discharge Pressure       (PSI)       (PSI)         Sample Port EW-1       EW-1 VOC Level       (ppm)       (ppm)         SP EW-2       EW-2 VOC Level       (ppm)       (ppm)         SP EW-3       EW-3 VOC Level       (ppm)       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)       (ppm)         SP-fif       VGAC Effluent VOC Level       (ppm)       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)       (ppm)       (ppm)         SP EW-5       EW-6 VOC Le	VI-204	EW-4 Vacuum	(in H20)	5.5
VI-205       Influent Vacuum       (in H20)         VI-206       Particulate Filter Inlet Vacuum       (in H20)         GV-201       Blower Makeup Air Control Valve Position       N/A       ZPe         VI-207       Blower Discharge Presure       (PSI)	BFV-2	EW- Control Valve (Valve Position)	N/A.	#
VI-206       Particulate Filter Inlet Vacuum       (in H20)         GV-201       Blower Makeup Air Control Valve Position       N/A       22 particulate         VI-207       Blower Discharge Pressure       (in H20)	<b>VI-205</b>	Influent Vacuum	(in H20)	
GV-201       Blower Makeup Air Control Valve Position       N/A       22pa         VI-207       Blower Inlet Vacuum       (in H20)	<b>VI-20</b> 6	Particulate Filter Inlet Vacuum	(in H20)	8.5
VI-207       Blower Inlet Vacuum       (in H20)         PI-201       Blower Discharge Presure       (PSI)         TI-201       Blower Discharge Temperature       (deg F)       //         FI-201       Blower Discharge Temperature       (deg F)       //         P-201       Blower Discharge Flow       (CFM)         P-211       Lead VGAC Discharge Pressure       (PSI)         P-212       Lag VGAC Discharge Pressure       (PSI)         Sample Port EW-1       EW-1 VOC Level       (ppm)         SP EW-2       EW-2 VOC Level       (ppm)         SP EW-3       EW-3 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP EW-3       EW-3 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP-Inf       VGAC Influent VOC Level       (ppm)         SP-Mid       VGAC Effluent VOC Level       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)         SP EW-6       EW-6 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         SP EW-6       EW-7 VOC Level       (ppm)         Depth of water in Mo	GV-20	Blower Makeup Air Control Valve Position	ı N/A	open 100%
PI-201Blower Discharge Presure(PSI)TI-201Blower Discharge Temperature(deg F)1FI-201Blower Discharge Flow(CFM)P-211Lead VGAC Discharge Pressure(PSI)P-212Lag VGAC Discharge Pressure(PSI)P-213Ead VGAC Discharge Pressure(PSI)P-214EW-1 VOC Level(ppm)Sample Port EW-1EW-1 VOC Level(ppm)SP EW-2EW-2 VOC Level(ppm)SP EW-3EW-3 VOC Level(ppm)SP EW-4EW-4 VOC Level(ppm)SP-InfVGAC Influent VOC Level(ppm)SP-MidVGAC Effluent VOC Level(ppm)SP EW-5EW-5 VOC Level(ppm)SP EW-6EW-6 VOC Level(ppm)SP EW-7EW-7 VOC Level(ppm)SP EW-6EW-6 VOC Level(ppm)SP EW-7EW-7 VOC Level(ppm)SP EW-6EW-6 VOC Level(ppm)SP EW-7EW-7 VOC Level(ppm)Other Activities/Observations(in)Depth of water in Moisture Seperator Tank(in)Condensate Tank Drained?Soven + waaaWas system in fault upon arrival?Describe panel alarm conditions on arrival, if any:Weather conditions:Soven + waaaComments/other activities performed:Luanched base activities desceE dW i ddw Mason Mass ManungMassite check performed by: Desce	<b>VI-207</b>	Blower Inlet Vacuum	(in H20)	
TI-201       Blower Discharge Temperature       (deg F)      /         FI-201       Blower Discharge Flow       (CFM)      /         P-211       Lead VGAC Discharge Pressure       (PSI)      /         P-212       Lag VGAC Discharge Pressure       (PSI)      /         P-212       Lag VGAC Discharge Pressure       (PSI)      /         Sample Port EW-1       EW-1 VOC Level       (ppm)      /         SP EW-2       EW-2 VOC Level       (ppm)      /         SP EW-3       EW-3 VOC Level       (ppm)      /         SP EW-3       EW-4 VOC Level       (ppm)      /         SP-Inf       VGAC Influent VOC Level       (ppm)      /         SP-Mid       VGAC Effluent VOC Level       (ppm)      /         SP-Eff       VGAC Effluent VOC Level       (ppm)      /         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	PI-201	Blower Discharge Presure	(PSI)	7.5
FI-201       Blower Discharge Flow       (CFM)         P-211       Lead VGAC Discharge Pressure       (PSI)         P-212       Lag VGAC Discharge Pressure       (PSI)         Field Screening       Sample Port EW-1       EW-1 VOC Level       (ppm)         SP EW-2       EW-2 VOC Level       (ppm)	<b>TI-2</b> 01	Blower Discharge Temperature	(deg F)	
P-211       Lead VGAC Discharge Pressure       (PSI)         P-212       Lag VGAC Discharge Pressure       (PSI)         Field Screening       Sample Port EW-1       EW-1 VOC Level       (ppm)         SP EW-2       EW-2 VOC Level       (ppm)	<b>FI-20</b> 1	Blower Discharge Flow	(CFM)	
P-212       Lag VGAC Discharge Pressure       (PSI)         Field Screening       Sample Port EW-1       EW-1 VOC Level       (ppm)         SP EW-2       EW-2 VOC Level       (ppm)         SP EW-3       EW-3 VOC Level       (ppm)         SP EW-3       EW-3 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP-Inf       VGAC Influent VOC Level       (ppm)         SP-Mid       VGAC Midpoint VOC Level       (ppm)         SP-Eff       VGAC Effluent VOC Level       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)         SP EW-6       EW-6 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         Other Activities/Observations       (m)	P-211	Lead VGAC Discharge Pressure	(PSI)	4
Field Screening         Sample Port EW-1       BW-1 VOC Level       (ppm)         SP EW-2       EW-2 VOC Level       (ppm)         SP EW-3       EW-3 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP-Inf       VGAC Influent VOC Level       (ppm)         SP-Mid       VGAC Effluent VOC Level       (ppm)         SP-6ff       VGAC Effluent VOC Level       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)         SP EW-6       EW-6 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         Other Activities/Observations       (in)	P-212	Lag VGAC Discharge Pressure	(PSI)	<u> </u>
Sample Port EW-1       EW-1 VOC Level       (ppm)         SP EW-2       EW-2 VOC Level       (ppm)         SP EW-3       EW-3 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP-Inf       VGAC Influent VOC Level       (ppm)         SP-Mid       VGAC Midpoint VOC Level       (ppm)         SP-Mid       VGAC Effluent VOC Level       (ppm)         SP-6ff       VGAC Effluent VOC Level       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)         SP EW-6       EW-6 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         Other Activities/Observations       (m)	Field Screenin			그 바람이 좋는 것이 좋는 것을
SP EW-2       EW-2 VOC Level       (ppm)         SP EW-3       EW-3 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP-Inf       VGAC Influent VOC Level       (ppm)         SP-Mid       VGAC Midpoint VOC Level       (ppm)         SP-Mid       VGAC Effluent VOC Level       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)         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	Sampl	ort EW-1 EW-1 VOC Level	(ppm)	<u>8.4</u>
SP EW-3       EW-3 VOC Level       (ppm)         SP EW-4       EW-4 VOC Level       (ppm)         SP-Inf       VGAC Influent VOC Level       (ppm)         SP-Mid       VGAC Midpoint VOC Level       (ppm)         SP-Eff       VGAC Effluent VOC Level       (ppm)         SP-Eff       VGAC Effluent VOC Level       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)         SP EW-6       EW-6 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         Offier Activities/Observations       Depth of water in Moisture Seperator Tank       (in)         Condensate Tank Drained?       Was system in fault upon arrival?       Sum futures         Weather conditions:       Sum futures       Sum futures         Comments/other activitics performed:       Lvsardes door         Image: Comments/other activitics performed:       Sum futures         Image: Conditions:       Sum futures         Image: Comments/other activitics performed:       Sum futures         Image: Conditions:       Sum futures	SP EW	EW-2 VOC Level	(ppm)	ND
SP EW-4       EW-4 VOC Level       (ppm)         SP-Inf       VGAC Influent VOC Level       (ppm)         SP-Mid       VGAC Midpoint VOC Level       (ppm)         SP-Eff       VGAC Effluent VOC Level       (ppm)         SP EW-5       EW-5 VOC Level       (ppm)         SP EW-6       EW-6 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         Other Activities/Observations       Depth of water in Moisture Seperator Tank       (in)         Condensate Tank Drained?       Was system in fault upon arrival?       Exercise panel alarm conditions on arrival, if any:         Weather conditions:       Som Fruss 1/2         Comments/other activitics performed:       Lusanubb Aman         Town Hum Amoun Mass Manany       Site check performed by: be	SP EW	EW-3 VOC Level	(ppm)	3.6
SP-Inf       VGAC Influent VOC Level       (ppm)         SP-Mid       VGAC Midpoint VOC Level       (ppm)         SP-Eff       VGAC Effluent VOC Level       (ppm)         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       Observations       (in)         Depth of water in Moisture Seperator Tank       (in)	SP EW	EW-4 VOC Level	(ppm)	<u>ND</u>
SP-Mid       VGAC Midpoint VOC Level       (ppm)         SP-Eff       VGAC Effluent VOC Level       (ppm)         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	SP-Inf	VGAC Influent VOC Level	(ppm)	0.2
SP-Eff       VGAC Effluent VOC Level       (ppm)         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 Seperator Tank       (in)         Other Activities/Observations       Image: Condensate Tank Drained?       (in)         Was system in fault upon arrival?       Describe panel alarm conditions on arrival, if any:       Image: Comments/other activities performed:         Weather conditions:       Sourd + wased       Sourd + wased         Image: Comments/other activities performed:       Image: Luss Amount         Image: Comments/other activities performed:       Sourd + wased         Image: Comments/other activities       Sourd + wased	SP-Mi	VGAC Midpoint VOC Level	(ppm)	
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 Seperator Tank       (in)         Depth of water in Moisture Seperator Tank       (in)	SP-Ef	VGAC Effluent VOC Level	(ppm)	2.7
SP EW-6       EW-6 VOC Level       (ppm)         SP EW-7       EW-7 VOC Level       (ppm)         Other Activities/Observations       Depth of water in Moisture Seperator Tank       (in)         Depth of water in Moisture Seperator Tank       (in)	SP EV	5 EW-5 VOC Level	(ppm)	
SP EW-7       EW-7 VOC Level       (ppm)         Other Activities/Observations       Depth of water in Moisture Seperator Tank       (in)         Depth of water in Moisture Seperator Tank       (in)	. SP EV	5 EW-6 VOC Level	(ppm)	
Other Activities/Observations         Depth of water in Moisture Seperator Tank         Condensate Tank Drained?         Was system in fault upon arrival?         Describe panel alarm conditions on arrival, if any:         Weather conditions:         Comments/other activitics performed:         Image: Comments/other activities performed: </td <td>SP EV</td> <td>7 EW-7 VOC Level</td> <td>(ррш)</td> <td></td>	SP EV	7 EW-7 VOC Level	(ррш)	
Depth of water in Moisture Seperator Tank (in) Condensate Tank Drained? Was system in fault upon arrival? Describe panel alarm conditions on arrival, if any: Weather conditions: Comments/other activitics performed: <i>Lubricalus dooc</i> Site check performed by:	Other Activit	<b>Observations</b>		공연한 관망 승규는 것이라. 한
Condensate Tank Drained? Was system in fault upon arrival? Describe panel alarm conditions on arrival, if any: Weather conditions: Comments/other activitics performed: <i>Lubaitabo door</i> Site check performed by:	Depth	water in Moisture Seperator Tank	(in)	
Was system in fault upon arrival?         Describe panel alarm conditions on arrival, if any:         Weather conditions:         Comments/other activitics performed: <i>Lubaritudus Assoc</i> Site check performed by:	Conde	ate Tank Drained?		Y
Describe panel alarm conditions on arrival, if any: Weather conditions: Comments/other activitics performed: <i>Lubriculus description</i> <i>Lubriculus description</i> <i>Site check performed by:</i>	Was s	tem in fault upon arrival?		×0
Weather conditions: Comments/other activitics performed: <i>Lubritation langer litters Ministry</i> <i>Site check performed by:</i>	Descri	panel alarm conditions on arrival, if any:	KADON FAUS	1,2+3
Comments/other activities performed: <u>LUBRICULOS 10000</u> <u>LUBRICULOS 10000</u> <u>LUBRICULOS 10000</u> Site check performed by:	Weather conditions:		Song +w.	and 62th
weith itean Aussin hours Annain Site check performed by:	Comments/other activitics performed:		EVERICULES 10	por base.
Site check performed by:		Sitcian annous brans anim		
3 00 11 1 1 1	3		Site check performed	by: Dog M
510mm 7-8 Mayos / 1676, 6 HRS	Slowen 9	3 Myos / 167C, 6 HRS		
Pinen this - 12.2	Pinn itric	- 12 2		

T-471 P.011/013 F-802



Date: 4-23-09 Arrival Time: 0745 Dep. Time: 6830

Comp. ID	Component Name	Units	Sile Arrivai
D System - Operational	Parameters	an an tha an that an t	
VI-201	EW-2 Vacuum	(in H20)	5,5
BFV-201	EW-2 Control Valve (Valve Position)	N/A	<u>++ /</u>
VI-202	EW-4 Vacuum	(in H20)	5.5
BFV-202	EW-4 Control Valve (Valve Position)	N/A	× /
VI-203	EW-3 Vacuum	(in H20)	5.5
BFV-203	EW-Control Valve (Valve Position)	N/A	71
VI-204	EW-4 Vacuum	(in H20)	6
BFV-204	EW- Control Valve (Valve Position)	N/A	H /
VI-205	Influent Vacuum	(in H20)	<u> </u>
VI-206	Particulate Filter Inlet Vacuum	(in H20)	8.5
GV-201	Blower Makeup Air Control Valve Position	N/A	100% open
<b>VI-20</b> 7	Blower Inlet Vacuum	(in H20)	B
PI-201	Blower Discharge Presure	(PSI)	7,5
TI-201	Blower Discharge Temperature	(deg F)	100
FI-201	Blower Discharge Flow	(CFM)	4
<b>P-2</b> 11	Lead VGAC Discharge Pressure	(PSI)	<del>22</del> 4
P-212	Lag VGAC Discharge Pressure	(PSI)	<2
eld Screening			
Sample Port EW-1	EW-1 VOC Level	(ppm)	6.8
SP EW-2	EW-2 VOC Level	(ppm)	NB
SP EW-3	EW-3 VOC Level	(ppm)	2.6
SP EW-4	EW-4 VOC Level	(ppm)	NO
SP-Inf	VGAC Influent VOC Level	(ppm)	0,3
SP-Mid	VGAC Midpoint VOC Level	(ppm)	Z.6
SP-Eff	VGAC Effluent VOC Level	(ppm)	I. 60
SPEW-5	EW-5 VOC Level	(ppm)	
SP EW-6	EW-6 VOC Level	(ppm)	<u> </u>
SP EW-7	EW-7 VOC Level	(ppm)	· · · · · · · · · · · · · · · · · · ·
her Activities/Observatio	XAS		
Depth of water in Mo	oisture Seperator Tank	(in)	<i>\beta</i>
Condensate Tank Dr	ained?		Y/to
Was system in fault	upon arrival?		YD
Describe panel alarm	conditions on arrival, if any:	RADON FAN	5 1, 2+3
Weather conditions:		CIBUDY + CUTLIS 400th	
Comments/other activities performed:		There is ABout "14" at We	
in nu K-O	TANK Contarinnent / RAIN	macin From	m Exhaust vent
	<u> </u>	ite check performed	Iby: D. MUMD
SUE HES - 1809, 5			
Pup pare - 0.2		CHON HANS	Are winny
Pump pare - 0.	Z		

### **APPENDIX G**

## **Select Photos**

Textron – Former Gorham Manufacturing Facility – Short Term Response Action Closure ReportAugust 10, 2009MACTEC Engineering and Consulting, Inc. Project Number 3650-08-0114.10Page 1



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

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Extraction Well Vault Pre-pour



Drop Ceiling Penetration

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ASD Enclosure Inside 8 ft Chain Link Fence



Extraction Well Piping at Manifold Inside ASD Enclosure