



July 15, 2009

Mr. Tony Duque  
North Carolina Department of Environment and Natural Resources  
NC Brownfields Program  
401 Oberlin Road, Suite 150  
Raleigh, NC 27605

**RE: Surface Water Analytical Results  
Former Hamilton Beach Brands, Inc Facility  
234 Springs Road, Washington, NC**

Dear Mr. Duque:

On behalf of Hamilton Beach Brands, Inc (HBB), URS Corporation - North Carolina (URS) is submitting a summary of the analytical results for two surface water samples collected at the referenced facility. The purpose of the sampling was to evaluate the impact of groundwater discharging to a drainage ditch that borders the facility on the east and south. The results are being provided for your information in advance of an annual groundwater monitoring report to be prepared in the fourth quarter of the year.

On April 21, 2009, URS collected two surface water samples from a segment of the drainage ditch that adjoins approximately 600 feet of the facility's south side. The ditch is classified as Class C surface water. The locations of the two samples are shown on Figure 1 and are identified as W81 and W82. Sampling location W81 is located downstream of location W82.

The surface water samples were analyzed for volatile organic compounds (VOCs) by Method 8260B. Select physical and chemical properties were also measured in the field. The results are summarized in Table 1 and compared to the Class C Freshwater Quality Standards. The table shows that various VOCs, similar to those found in groundwater at the site, were detected in the surface water samples. The reported concentrations of 1,1,1-trichloroethane and vinyl chloride exceeded the standards in both samples. However, VOC concentrations detected in the downstream sample (W81) were less than half the concentrations found in the upstream sample (W82), suggesting that volatilization and dilution are isolating the impact to a relatively limited segment of the ditch.

URS Corporation - North Carolina  
1600 Perimeter Park Drive, Suite 400  
Morrisville, NC 27560  
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Lastly, the dissolved oxygen concentrations measured in both samples were below the standard. However, these measurements likely represent a natural stream condition that is unrelated to groundwater discharge from the site.

As these results represent the first detection of VOCs in surface water at concentrations that exceed standards, we plan to sample again in October 2009 and report the results in the annual groundwater monitoring report.

Please contact me at 919-461-1290 if you have any questions regarding the information in this letter.

Sincerely,

**URS Corporation – North Carolina**

A handwritten signature in black ink that reads 'A. Brett Berra'.

A. Brett Berra, PE  
Senior Project Manager

cc: Dana Sykes, HBB

Attachments

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**Table 1**  
**Summary of Surface Water Results**  
**Compared to NC 2B Class C Freshwater Quality Standards**  
**Hamilton Beach Brands, Inc.**  
**Washington, Washington County, NC**

Parameters	Sample ID:		W-81	W-82			
	Collection Date:		4/21/2009	4/21/2009			
	Standard	Units					

<b>VOC</b>							
Benzene	51 (HH)	ug/l	< 2	< 4			
Chloroethane	550 (HH)	ug/l	35.1	101			
1,1-Dichloroethane	20000 (AL)	ug/l	47	149			
1,2-Dichloroethane	37 (HH)	ug/l	< 1.7	< 3.4			
1,1-Dichloroethene	5400 (AL)	ug/l	8.8	22.5			
cis-1,2-Dichloroethene	4900 (HH)	ug/l	340	913			
trans-1,2-Dichloroethene	10000 (HH)	ug/l	2.3 j	< 4.5			
Ethylbenzene	97 (AL)	ug/l	< 2.2	< 4.3			
Naphthalene (VOA)	330 (AL)	ug/l	< 5	< 10			
n-Propylbenzene		ug/l	< 1.3	< 2.5			
Tetrachloroethene	3.3 (HH)	ug/l	< 1.1	2.3 j			
Toluene	11 (AL)	ug/l	< 1.8	< 3.5			
1,1,1-Trichloroethane	4.4 (HH)	ug/l	15	71.2			
Trichloroethene	30 (HH)	ug/l	9.8	26.9			
1,2,4-Trimethylbenzene	390 (AL)	ug/l	< 1.1	< 2.2			
Vinyl chloride	2.4 (HH)	ug/l	70.4	141			
Xylenes (Total)	670 (AL)	ug/l	< 5.8	< 11.5			

<b>Field Parameters</b>							
Dissolved oxygen	> 5 (AL)	mg/l	2.83	3.09			
Oxidation reduction potential		mV	47.8	-48.9			
pH		s.u.	6.83	7.15			
Specific Conductance		uS/cm	262	275			
Temperature		Deg C	17.08	17.63			

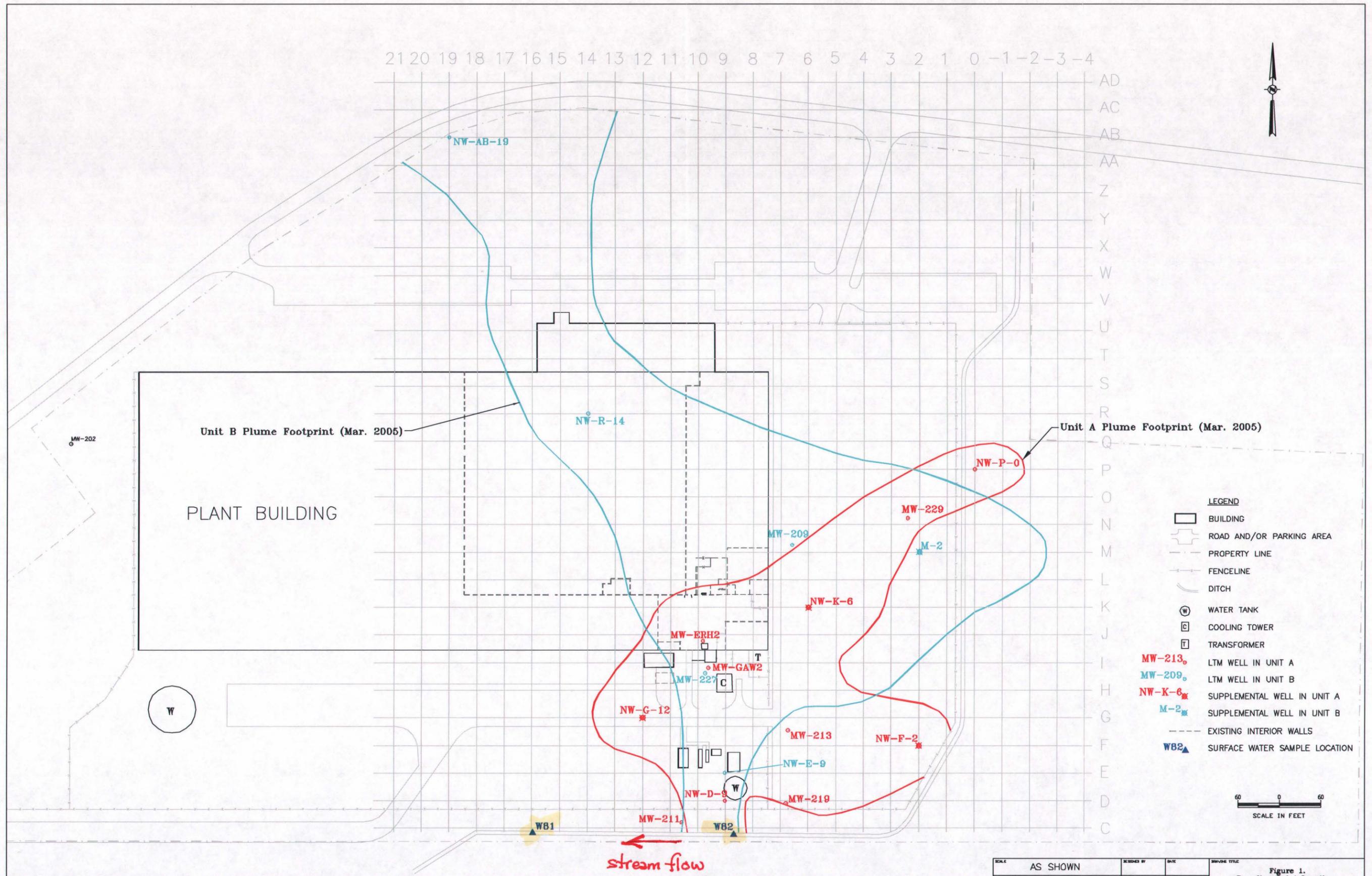
**Regulatory Limits:** AL - Aquatic Life      HH - Human Health

**Notes:**

< - Not detected at the specified detection limit      µg/L - Micrograms per Liter      j - Estimated value      VOA - Volatile organic analysis      VOC - Volatile organic compounds

This table presents the results of all analytes detected in groundwater and surface water in April 2009. Sample results have been qualified by URS based on the results of the data review process, which is modeled after the *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA, October 1999).

The NC 2B water quality standards for the protection of Class C freshwater were obtained from the "EPA and NC Criteria" table (September 30, 2008). A bold border indicates the concentration is greater than the standard, except for dissolved oxygen where a bold border indicates the concentration is less than the standard.



SCALE	AS SHOWN	DESIGNED BY	TSH	DATE	10DEC08	DRAWING TITLE	Figure 1. Sampling Point Locations Hamilton Beach Brands, Inc. Washington, NC		
	CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF	CHECKED BY	JN	DATE	10DEC08	APP. DRAWING FILE	31826447	DRAWING NO.	FIGURE-1
	<b>URS</b>	APPROVED BY	JN	DATE	10DEC08	PROJECT NO.	31826447	DRAWING NO.	FIGURE-1
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