

November 11, 2013

CERTIFIED MAIL / RETURN RECEIPT REQUESTED

Mr. Qu Qi, Central Regional Supervisor
NC Department of Environment and Natural Resources
Superfund Section - Inactive Hazardous Sites Branch
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

**Re: Former Hanesbrands Industrial Facility, 700 South Stratford Road
Winston-Salem, Forsyth County, North Carolina**

Dear Mr. Qi:

We received a letter from Colin Day who we understand is no longer overseeing the above referenced property. As you know, NCDENR's Brownfields Program is currently regulating redevelopment of this property pursuant to a signed Brownfields Agreement. However, on behalf of my client, Hanesbrands Inc., I want to respond to several items in Mr. Day's enclosed October 9, 2013 letter to Christopher Fox, Associate General Counsel for Hanesbrands Inc. Further, we would certainly welcome continued conversations including a meeting if appropriate as you become familiar with this file.

Over the years a significant amount of environmental assessment has occurred at the subject site under the guidance and supervision of NCDENR resulting in NCDENR's closure of specific incidents. Currently, as I have already mentioned, the site is being redeveloped as a Brownfields Property in accordance with the terms and conditions of a Brownfields Agreement between the current property owner and the NCDENR Brownfields Program. Specific environmental assessment activities will be performed as part of that redevelopment. Those activities do not need to be duplicated by Hanesbrands Inc.

Mr. Day's October 9, 2013 letter states that "*Hanesbrands will be required to conduct a site assessment*"...*"to evaluate all receptors in the area including not only those for potential vapor intrusion, but also including active water supply wells and locations of downgradient streams."* The directive seems to be based on the conclusion that "*the Hanesbrands facility is located on a topographic high in relation to the surrounding properties.*" As indicated by the enclosed topographic map obtained from the Forsyth County GIS, that conclusion is clearly not accurate.

Mr. Qu Qi
November 11, 2013
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The surrounding properties east and west of the former Hanesbrands facility are located on topographic highs in relation to the former Hanesbrands facility. The dry-cleaner, automobile repair, and pharmaceutical businesses which occupy or have occupied properties east and west of the facility are plotted on an enclosed aerial photograph. This aerial photograph when compared to the enclosed topographic map, clearly demonstrates that these off-site businesses are on topographic highs in relation to the former Hanesbrands facility. This information further supports likely off-site sources for the perchloroethylene ("PCE") detected in the facility's groundwater as mentioned in my August 28, 2013 response to Mr. Day's July 29, 2013 letter. Copies of the July 29 and August 28, 2013 letters are also enclosed.

The October 9, 2013 letter repeatedly alludes to concerns initially expressed in the July 29, 2013 letter regarding PCE detected in groundwater beneath the subject site. That concern is stated as the basis for conducting additional environmental site assessment activities. However, absent from the October 9, 2013 letter is any mention of the incorrect Acceptable Groundwater Concentration Screening Level that was used for vapor intrusion screening at this site. It is important before conducting any further site assessment activities that the IHSB recalculate and inform us of the recalculated Acceptable Groundwater Screening Level for PCE to reflect the site specific conditions at this site where the IHSB had identified only one (1) chemical as a vapor intrusion concern.

Regarding the issues raised in Mr. Day's October 9, 2013 letter with respect to chloride detected in groundwater beneath the subject site, it is important to note that of the 10 sample levels reported by Withers and Ravenel in its 2009 report, only one (1) exceeds the 2L groundwater standard, and it is located closer to the center of the site than the others. The other 9 levels which are located at or closer to the site boundaries, are **far below** the 2L groundwater standard which demonstrates there is no off-site chloride migration above regulatory standard. There are no excessive levels of chloride emanating off-site from the former Hanesbrands facility which would justify the expansive off-site investigation mentioned in the October 9, 2013 letter.

Based on all of the above, it appears that the further environmental assessments of the subject Brownfields Property will be conducted by the current redeveloper under the guidance and supervision of NCDENR's Brownfields Program. These assessments will adequately address issues associated with this site such that additional environmental assessment activities by Hanesbrands Inc. are not indicated and should not be required.

I am available at your convenience to discuss or meet regarding this matter and would welcome the same.

Sincerely,



Stephen R. Berlin

Enclosures

cc: Chris Fox, Hanesbrands Inc.
Tommy Thompson, Hanesbrands Inc.



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

October 9, 2013

Christopher Cox
Associate General Counsel
Hanesbrands Inc.
1000 East Hanes Mill Road
Winston Salem, NC 27105

Re: **NOTICE OF REGULATORY REQUIREMENTS FOR CONTAMINANT ASSESSMENT AND CLEANUP**-Hanesbrands Industrial Facility, 700 South Stratford Road, Winston-Salem, Forsyth County, NC, IHSB Site Identification No. NONCD0002945

Dear Mr. Cox:

We are writing our letter to follow up from our September 16, 2013 meeting with you, Mr. Ewyn Thompson and Mr. Steve Berlin. The focus of this meeting was the discussion of the subject site's status and the new site letter, dated July 29, 2013, as sent to Hanesbrands regarding the assessment of groundwater contamination that has been detected. The remaining paragraphs of this letter will further summarize the topics that were discussed at this meeting as well as provide your company with guidance on the sequence of steps under which future assessment will likely need to occur.

As you are aware, the subject property is currently under new ownership with an upcoming commercial development to take place in the near future. The new property owner/developer is entering into a Brownfields Agreement (BFA) with the North Carolina Brownfields Section ("Section"). To this end, the Section is requiring a vapor intrusion (VI) evaluation to be conducted. It is our understanding that the Section has also required soil samples to be collected under the existing building foundations as well. The data obtained from both the VI evaluation as well as that from the foundation borings will not only satisfy requirements in the BFA that is being developed, but also assist the Inactive Hazardous Sites Branch ("Branch") as well. In the case of the Branch, the VI evaluation data, in particular, will help in determining whether the site ("Site") is one of a priority. VI data exceeding the Branch's screening values would likely warrant the requirement for additional soil gas testing away from the Site and onto adjacent residential properties. The Branch has concerns about the

close proximity of the private residences to the apparent source areas located on the Site. Furthermore, we have also noted a number of basements at these residences which increases the potential need for additional VI evaluations.

You should also be aware that if soil sample data collected from under the foundations indicates that the remediation goals established by the Branch have been exceeded, the Site could potentially be considered as one of a priority as well. Such would particularly be the case if the existing foundations are removed for new construction. Under such a removal, contaminated soil that is above the Health Based Remediation Goals would need to be addressed to minimize exposure to the public through various routes including inhalation, ingestion, and/or dermal contact.

The Branch considers Hanesbrands to be the responsible party (RP) for all contamination that has been reported to our office thus far. As the RP for the Site, Hanesbrands will be required to conduct a site assessment either under direct oversight with an assigned Branch project manager or else under the Registered Environmental Consultant (REC) Program. A priority site will include the Branch project manager directly overseeing all assessment and remediation that is to be performed at the Site.

As was also discussed in our meeting, the Branch is in receipt of the August 28, 2013 letter from Mr. Berlin in which he indicated that Hanesbrands is not the party responsible for the chlorinated hydrocarbons detected in groundwater under the Site. In reviewing the Phase II environmental site assessment (ESA) reports performed by Delta Environmental and by Withers and Ravenel, and as completed in 2007 and 2009, respectively, we note that Hanesbrands maintained a hazardous waste storage area on the property. Additionally, Site map drawings presented in the Delta ESA Report show the former location of an electroplating operation that was conducted in the main Site building. Chlorinated hydrocarbons such as tetrachloroethylene and trichloroethylene are common groundwater contaminants at sites where electroplating and textile processing operations were conducted.

Mr. Berlin also indicated in his letter that the current or past presence on surrounding properties of various other commercial entities including automobile servicing, drycleaning and pharmaceutical manufacturing facilities suggest that an offsite source exists for the subject groundwater contamination. While the Branch does not dispute that these types of industries are common sources for chlorinated hydrocarbon contamination, it is worth noting that the Hanesbrands facility is located on a topographic high in relation to the surrounding properties. Such a position strongly suggests that Hanesbrands is located on a groundwater recharge zone that will move contaminants away from the site rather than on to it. We would like to point out, therefore, that if Hanesbrands continues to maintain that it is not the RP for the subject contamination, it must adequately demonstrate as such through the appropriate field investigation techniques. To date, evidence for an offsite source has not been presented to the Branch.

Regardless of whether the Site is overseen by a Branch project manager or a Registered Site Manager under the REC Program, a Site Assessment (SA) must be performed. The SA will need to evaluate all receptors in the area including not only those for potential vapor intrusion, but also including active water supply wells and locations of downgradient

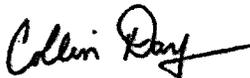
streams. Regarding the last receptor mentioned, downgradient streams, we do note that chloride in groundwater is above the State 2L groundwater standard of 250 milligrams per liter (mg/L). The source for the chloride is presumably from the area of the former salt tanks and/or brine pit. Additionally, you should be aware that the State 2B surface water standard for chloride is 230 mg/L. The concentration in one monitoring well onsite was at 2,700 mg/L. Given the close proximity of this well to surface water, there may be impacts to a stream such that the 2B standard is exceeded. Consequently, a future site assessment will warrant the collection of stream samples as well.

Finally, the regulatory administration for the subject site has previously been performed by Branch personnel in the NCDENR Winston-Salem Regional Office. Due to a recent internal reorganization within the Branch, the site now falls within the newly established Branch Central Region which has resulted in the assignment of a new regional supervisor, Mr. Qu Qi as well as new personnel who will serve as region project managers. Consequently, please direct all future correspondence, reporting and/or documentation to the attention of Mr. Qi at the following contact information:

Qu Qi
NC Division of Waste Management-Superfund Section
1646 Mail Service Center,
Raleigh, NC 27699
Phone: 919-707-8213
Email: Qu.Qi@ncdenr.gov

If you have additional questions regarding the above matters please contact me at 336-771-5281.

Sincerely,



Collin Day
Hydrogeologist

cc: Chan Bryant, Withers & Ravenel
Thomas Moore, WSRO-UST Section
Tony Duque, NCDENR Brownfields Section
Gary Roberts, City-County Planning Board
Qu Qi, Branch Central Region
Bruce Parris, Branch Western Region
WSRO-Branch Files



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

Pat McCrory
Governor

July 29, 2013

CERTIFIED MAIL 7005 1160 0004 7952 0568
RETURN RECEIPT REQUESTED

Joia M. Johnson
General Counsel
Hanesbrands Inc.
1000 East Hanes Mill Road
Winston Salem, NC 27105

Re: **NOTICE OF REGULATORY REQUIREMENTS FOR CONTAMINANT ASSESSMENT AND CLEANUP-Hanesbrands Industrial Facility, 700 South Stratford Road, Winston-Salem, Forsyth County, NC, Site Identification No. To Be Assigned.**

Dear Ms. Johnson:

We have received documentation from the North Carolina Division of Waste Management Brownfields Section reporting that the subject property has been contaminated by one or more hazardous substances. More specifically, the metals lead, mercury, and chromium, along with the volatile organic compound perchloroethylene ("PCE") are present in levels above their respective North Carolina 2L groundwater standards. Regulatory oversight for the assessment and cleanup under all applicable authorities will be provided by the Division of Waste Management through its Superfund Section, Inactive Hazardous Sites Branch ("Branch"). Please note, however, that this oversight extends only to all non-petroleum contaminants as the DWM Underground Storage Tank Section will continue to have jurisdiction over all petroleum related contamination regardless of the source.

Based on information provided to date, the Inactive Hazardous Sites Response Act ("IHSRA"), codified under N.C. Gen. Stat. § 130A-310, et seq., applies to your site. In addition, initial immediate actions may be required under 15A NCAC 2L, Groundwater Classifications and Standards.

I. ACTIONS REQUIRED AT THIS TIME:

Conduct a Vapor Intrusion Evaluation

Analytical data from the *Limited Phase II Assessment Report*, performed by Withers & Ravenel, indicates that PCE is present in an on-site monitoring well located 100 feet of structures. Additionally, the PCE concentration of 130 micrograms per liter ($\mu\text{g/L}$) exceeds the Branch's Acceptable Groundwater Concentration Screening Level of 49 $\mu\text{g/L}$ for vapor intrusion potential for commercial/industrial use structures. Consequently, an evaluation for vapor intrusion potential is required at the Site. The Branch's *Supplemental Guidelines for the Evaluation of Structural Vapor Intrusion Potential* ("Vapor Guidelines") should be used in conducting an evaluation of structural vapor intrusion potential. The Vapor Guidelines and updated Screening Levels can be accessed on the Branch's website:
<http://portal.ncdenr.org/web/wm/sf/ihs/home>.

585 Waightown Street, Winston-Salem, North Carolina 27107-2275
Phone: 336-771-5000 \ FAX: 336-771-4631 \ Internet: <http://portal.ncdenr.org/web/wm>

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We are requiring Hanesbrands to submit a work plan that addresses the evaluation for vapor intrusion required at the Site. This plan must be received in the Branch Winston-Salem Regional Office (WSRO) within thirty (30) days from the receipt date of our letter.

Complete the Site Cleanup Questionnaire.

To comply with the requirements of State law, a Site Cleanup Questionnaire, available on the website noted at the end of this letter, must be completed and returned to our office. The information your company provides will be reviewed along with other information to prioritize the site, so please make certain that the information provided is complete and accurate. Please note that the failure by your company to inform the Branch of any nearby potable wells or other high risk conditions may adversely affect its ability to identify this site as a higher-risk site.

Take Initial Abatement Actions Required Under 15A NCAC 2L.

If Hanesbrands has not already done so, it must take the initial abatement actions required under 15A NCAC 2L. Pursuant to 15A NCAC 2L .0106(b), any person conducting or controlling an activity which results in the discharge of a waste or hazardous substance to the groundwaters of the State, or in proximity thereto, shall take immediate action to terminate and control the discharge, and mitigate any hazards resulting from exposure to the pollutants. Pursuant to 15A NCAC 2L .0106(c), if groundwater standards have been exceeded, you must take immediate action to eliminate the source or sources of contamination. Beyond initial abatement actions, all assessment and remediation will be done through the IHSRA.

II. FUTURE ASSESSMENT AND CLEANUP ACTIVITIES:

All correspondence regarding this site should be sent to the Branch WSRO. Future assessment and cleanup activities (activities conducted after the initial abatement steps required in 15A NCAC 2L) may be conducted through the Voluntary Cleanup Program (discussed below) or pursuant to an Order issued under N.C. Gen. Stat. § 130A-310.3. In addition, if Hanesbrands chooses not to conduct a cleanup through the Voluntary Cleanup Program, the site may be referred to the United States Environmental Protection Agency ("EPA"). If so referred, EPA will screen the site for Federal enforcement action under the Federal Superfund Program, established under the Comprehensive Environmental Responsibility, Compensation, and Liability Act ("CERCLA").

III. VOLUNTARY CLEANUP PROGRAM:

Under the IHSRA, persons who move forward to assess and remediate contamination, without being compelled to do so through formal legal action filed against them, are called "volunteers." To participate in the voluntary cleanup program, Hanesbrands will be required to enter into an administrative agreement with the Branch. The voluntary cleanup will proceed through the Registered Environmental Consultant Program or under direct oversight by the Branch Staff, as discussed below:

Agreement to Conduct Assessment and Remediation Through the Registered Environmental Consultant Program.

The Branch has a privatized oversight arm of the voluntary cleanup program known as the Registered Environmental Consultant ("REC") program. Based on the responses provided on the questionnaire (degree of hazard and public interest in the site), the Branch will determine whether a staff person or an REC will perform the oversight and approval of your company's assessment and cleanup action. Please note that having one or more of the conditions identified on the questionnaire does not necessarily preclude the site for qualifying for an REC-directed cleanup action.

Under the REC program, the volunteer hires an environmental consulting firm, which the State has approved as having met certain qualifications, to implement a cleanup and certify that the work is being performed in compliance with regulations. In other words, the REC's certifications of compliance are in place of direct oversight by the Branch. Details of the REC program can be found at <http://portal.ncdenr.org/web/wm/st/ihs/recprogram>. If you have any questions specific to the REC Program, including how to participate, please contact the REC Program Manager, Kim Caulk, at 919-707-8350 or at kim.caulk@ncdenr.gov.

Agreement to Conduct Assessment and Remediation Under State Oversight.

If the Branch determines that the site should be assessed and remediated pursuant to direct State oversight, it will not be eligible for a REC-directed cleanup. In such instances, the remedial action will receive direct oversight by Branch staff.

IV. FAILURE TO RESPOND:

If we do not receive a completed questionnaire, the Branch will take further action to prioritize the site without input from your company. Failure to conduct the vapor intrusion evaluation or to take the initial abatement steps required in 15A NCAC 2L may result in the assessment of a civil penalty against Hanesbrands. In addition, the IHSB may seek an injunction compelling compliance with the initial abatement steps required in 15A NCAC 2L. For future work beyond the initial abatement steps required pursuant to 15A NCAC 2L, a unilateral Order may be issued pursuant to § 130A-310.3 to compel assessment and cleanup.

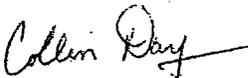
V. ADDITIONAL INFORMATION REGARDING THE IHSRA AND THE BRANCH:

People are often confused by the name of the Inactive Hazardous Sites Response Act and the Branch. By definition, "Inactive Hazardous Sites" are any areas where hazardous substances have come to be located and would include active and inactive facilities and a variety of property types. The term "inactive" simply refers to the fact that cleanup was inactive at large numbers of sites at the time of program enactment. Additional information about the Branch may be found at <http://portal.ncdenr.org/web/wm/sf/ihs/home>.

Submit completed questionnaire to my attention at the letterhead mailing address. You may also send the questionnaire to me in the form of an adobe acrobat ("PDF") file. Electronic submissions of PDF documents should be sent to collin.day@ncdenr.gov.

If you have additional questions about the requirements that apply to your site, please contact me at 336-771-5281.

Sincerely,



Collin Day
Hydrogeologist

cc: Chan Bryant, Withers & Ravenel
Thomas Moore, WSRO-UST Section
Tony Duque, NCDENR Brownfields Section
Gary Roberts, City-County Planning Board
WSRO-IHSB Files

1001 West Fourth Street
Winston-Salem, NC 27101-2400
t 336 607 7300 f 336 607 7500

direct dial 336 607 7304
direct fax 336 734 2614
sberlin@kilpatricktownsend.com

August 28, 2013

CERTIFIED MAIL / RETURN RECEIPT REQUESTED

Mr. Collin Day, Hydrogeologist
NC Department of Environment and Natural Resources
Superfund Section - Inactive Hazardous Sites Branch
585 Waughtown Street
Winston-Salem, North Carolina 27107-2275

Re: **NOTICE OF REGULATORY REQUIREMENTS FOR CONTAMINANT
ASSESSMENT AND CLEANUP**
Hanesbrands Industrial Facility, 700 South Stratford Road
Winston-Salem, Forsyth County, North Carolina

Dear Mr. Day:

On behalf of my client, Hanesbrands, Inc., I am responding to your July 29, 2013 letter regarding the company's former 700 South Stratford Road facility (the "Facility").

Your letter mentions documentation the Inactive Hazardous Sites Branch ("IHSB") received from the N.C. Brownfields Program reporting minute amounts of several hazardous substances that were detected in groundwater at the Facility, namely certain metals (lead, mercury, and chromium) and perchloroethylene ("PCE"). You specifically mention the *Limited Phase II Assessment Report* prepared by Withers & Ravenel of May 13, 2009. That report references earlier reports prepared in 2007 by Delta Environmental Consultants of North Carolina, PC ("Delta").

The low levels of lead, mercury and chromium detected in the groundwater by Delta during 2007 were not similarly detected by Withers & Ravenel in 2009 above the N.C. 2L groundwater standards. According to Delta, those metals were naturally occurring concentrations in the aquifer-containing geologic materials at the site for which no actions were recommended. Further, Withers & Ravenel reported that the level of contamination identified in groundwater does not appear to be representative of gross levels of contamination.

Regarding PCE, you state it is also present in the Facility's groundwater, and further,

Additionally, the PCE concentration of 130 micrograms per liter (ug/L) exceeds the Branch's Acceptable Groundwater Concentration Screening Level of 49 ug/L for vapor intrusion potential for commercial/industrial use structures. Consequently, an evaluation for vapor intrusion potential is required at the Site.

Mr. Collin Day
August 28, 2013
Page 2

There is no knowledge of PCE ever being used at the Facility nor has it been detected in the soil at the Facility. According to Withers & Ravenel's report, the Facility's soils revealed no indication of contamination. Surrounding properties, however, are or have been occupied by dry-cleaner, automobile repair, and pharmaceutical businesses that commonly use PCE or PCE containing products. Specifically, Winston Pharmaceuticals, Inc. manufactured pharmaceuticals at 105 Ricks Drive adjacent to the Facility from 1962 to 1968, and PCE is used as an extractant for pharmaceuticals. The levels of PCE detected in the Facility's groundwater are most likely from an off-site source.

We also have concerns regarding the screening level for vapor intrusion potential that you recite in your letter. As you may know, the IHSB's Acceptable Groundwater Concentration Screening Levels are extrapolated from the Acceptable Indoor Air Concentrations listed on the IHSB Industrial/Commercial Vapor Intrusion Screening Table ("IHSB Table"). Footnote 3 on the IHSB Table states that the IHSB Table is based on USEPA Regional Screening Levels for Air. According to the IHSB's Toxicologist, the method whereby the IHSB arrives at the Acceptable Indoor Air Concentrations for PCE on the IHSB Table is the result of a calculation whereby the USEPA Industrial Air Noncancer Regional Screening Level for PCE is divided by the number five (5). The Toxicologist explained that dividing by 5 assumes, as a default, that at any site there are about 5 chemicals that affect the target organ. When asked if this calculation would change if a site actually has less than 5 chemicals, the Toxicologist indicated that the calculation should be modified for division by the actual number of detected chemicals less than 5.

Based on the above, it appears that an inappropriate Acceptable Groundwater Concentration Screening Level for PCE was used for vapor intrusion screening at this site. We respectfully request that the IHSB recalculate and inform us of the recalculated Acceptable Groundwater Screening Level for PCE to reflect the site specific conditions at this site where the IHSB has identified only one (1) chemical as a vapor intrusion concern. We need to know this recalculated screening level.

Given all of the above, we would like to discuss this matter with you before proceeding with any actions and would welcome a meeting at your office for that purpose. Thank you for your time and consideration of these issues.

Sincerely,



Stephen R. Berlin

cc: Chris Fox, Hanesbrands, Inc.
Tommy Thompson, Hanesbrands, Inc.
Thomas Moore, NCDENR, WSRO-UST Section
Tony Duque, NCDENR Browfields Program
Gary Roberts, City County Planning Board

HAYNESBRANDS TOPOGRAPHY



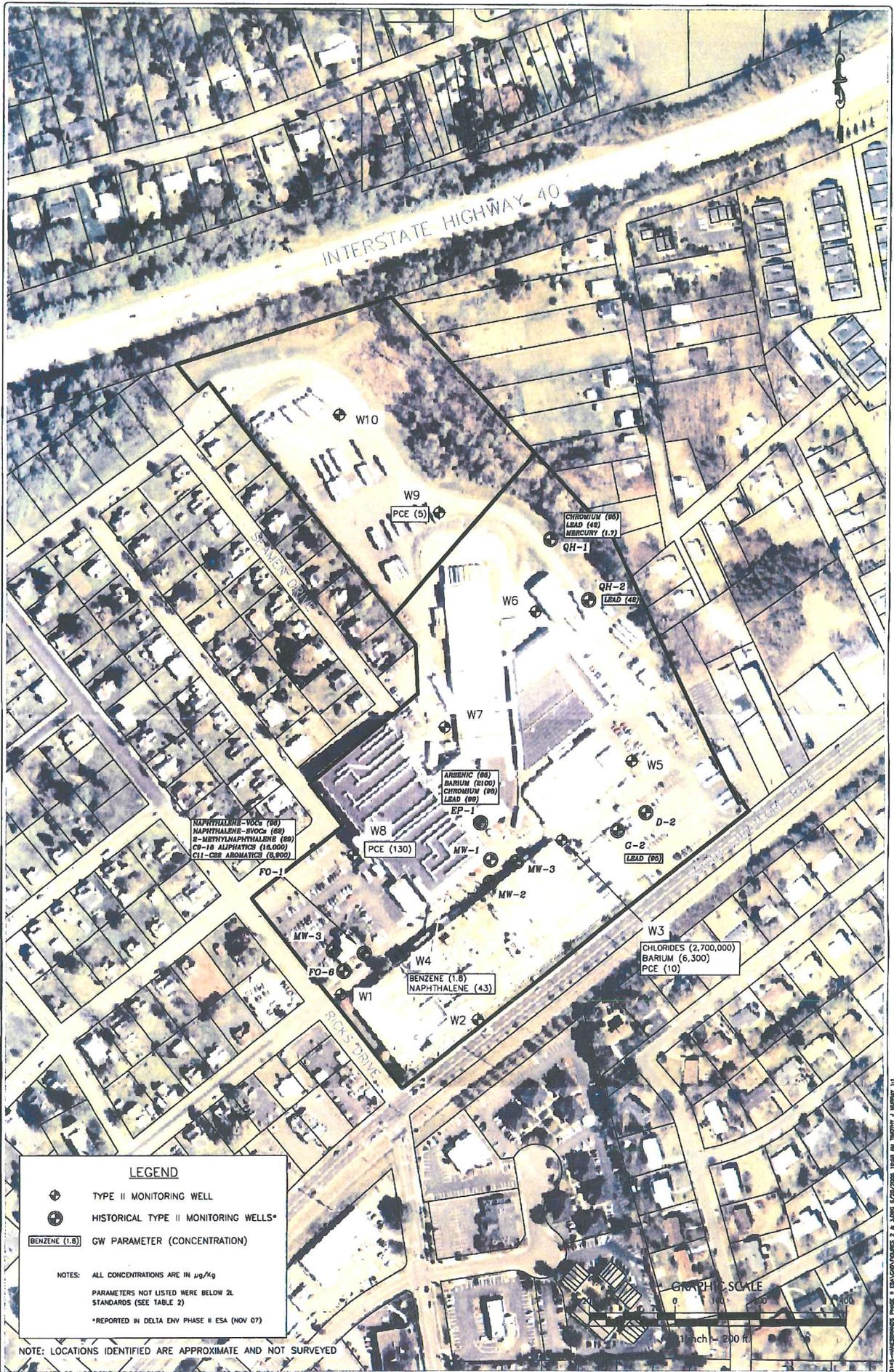


TABLE 1 - MW Construction Data

Limited Phase II Assessment - Hanesbrands Industrial Facility
 700 South Stratford Road
 Winston-Salem, Forsyth County, NC
 W&R Project #: 02090145.0

Well ID	Date Installed	Total Depth (approximate) ¹	Riser Interval ²	Screened Interval ³	Total Depth (actual) ⁴	DTW from TOC	Surface to TOC	DTW from Surface
W1	04/20/09	29.75	0.0 - 14.75	14.75 - 29.75	29.65	21.40	0.35	21.75
W2	04/21/09	39.0	0.0 - 24.0	24.0 - 39.0	39.50	30.74	0.30	31.04
W3	04/17/09	41.0	0.0 - 26.0	26.0 - 41.0	41.20	32.95	0.36	33.31
W4	04/20/09	35.5	0.0 - 20.5	20.5 - 35.5	35.56	25.75	0.36	26.11
W5	04/17/09	34.0	0.0 - 19.0	19.0 - 34.0	34.40	27.02	0.40	27.42
W6	04/17/09	28.0	0.0 - 13.0	13.0 - 28.0	28.00	20.65	0.35	21.00
W7	04/16/09	44.0	0.0 - 29.0	29.0 - 44.0	44.30	33.30	0.45	33.75
W8	04/21/09	27.0	0.0 - 12.0	12.0 - 27.0	27.10	19.07	0.32	19.39
W9	04/16/09	28.0	0.0 - 13.0	13.0 - 28.0	28.31	13.68	0.43	14.11
W10	04/16/09	28.0	0.0 - 13.0	13.0 - 28.0	27.70	14.82	0.35	15.17

Notes:

All measurements in feet.

All wells are Type II Monitoring Wells

TOC = Top of Casing

DTW = Depth to Water

¹ Measured immediately following well installation

² 2"-I.D. Sch. 40 PVC casing

³ 2"-I.D. Sch. 40 0.010" slotted PVC screen

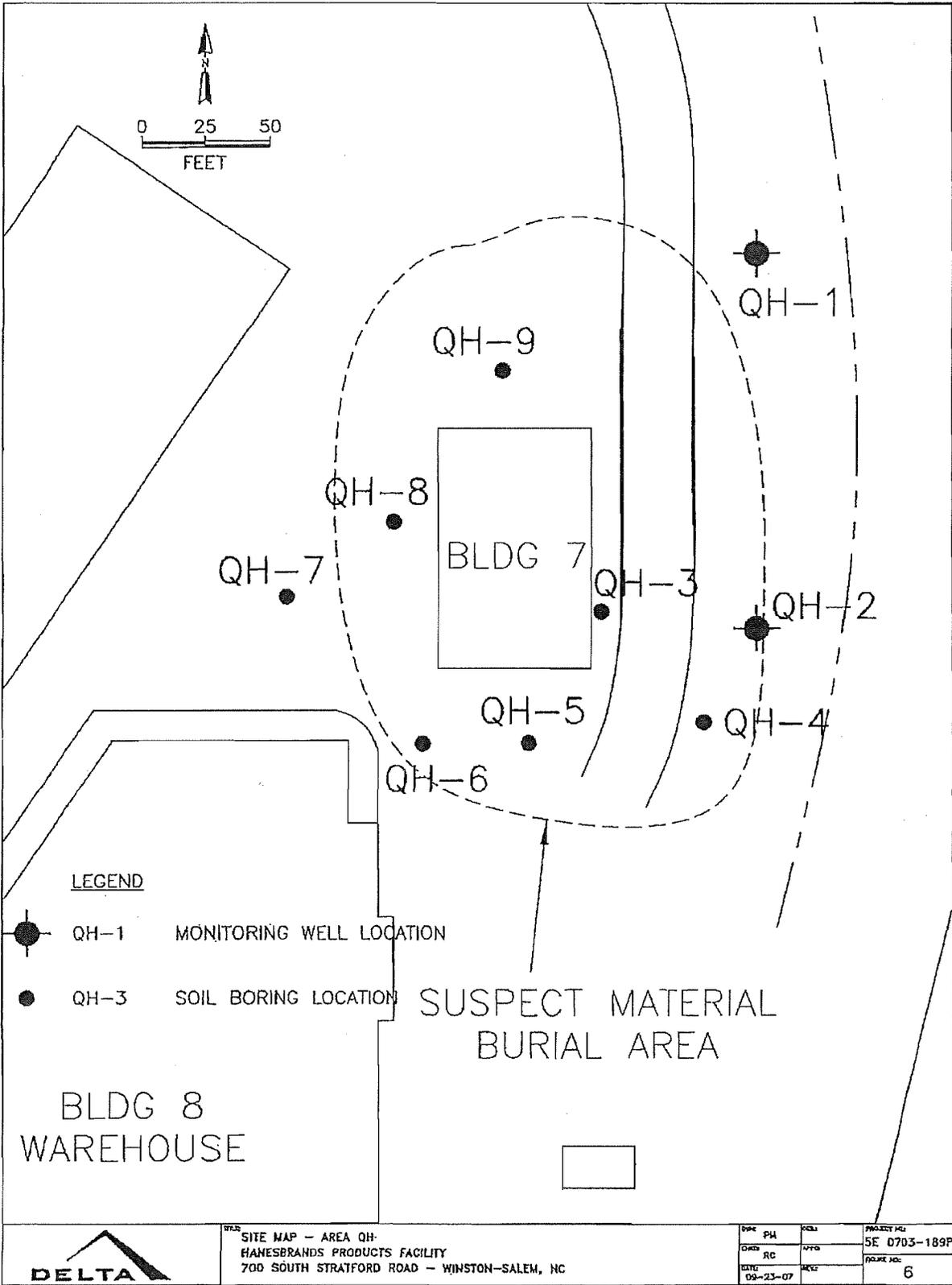
⁴ Measured during April 2009 groundwater sampling event

TABLE 2 - GW Monitoring Well Sampling Results
 Limited Phase II Assessment - Hanesbrands Industrial Facility
 700 South Stratford Road
 Winston-Salem, Forsyth County, NC
 W&R Project #: 02090145.0

Client Sample ID	W1		W2		W3		W4		W5		W6		W7		W8		W9		W10		2L Stds	GCL
	4/21/2009		4/22/2009		4/22/2009		4/21/2009		4/20/2009		4/20/2009		4/22/2009		4/22/2009		4/20/2009		4/20/2009			
	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q	Value	Q		
INORGANICS																						
Suspended Solids	2540D	µg/l	12.000		40.000		130.000		170.000		180.000		6.200	T4	140.000		87.000		36.000		NS	NS
Chloride	9056	µg/l	63.000		55.000		160.000		48.000		110.000		30.000		32.000		45.000		31.000		250.000	NL
PCRA METALS																						
Mercury	7470A	µg/l	BDL		BDL		BDL		BDL		BDL	1.05										
Arsenic	6010B	µg/l	BDL		BDL		BDL		BDL		BDL	NL										
Barium	6010B	µg/l	230		49		1,200		310		1,200		89		340		220		120		2,000,000	NL
Cadmium	6010B	µg/l	BDL		BDL		BDL		BDL		BDL	1.75										
Chromium	6010B	µg/l	BDL		BDL		BDL		BDL		BDL	50										
Lead	6010B	µg/l	BDL		BDL		7.60		BDL		BDL		BDL		BDL		BDL		BDL		BDL	15
Selenium	6010B	µg/l	BDL		BDL		BDL		BDL		BDL	50										
Silver	6010B	µg/l	BDL		BDL		BDL		BDL		BDL	17.5										
VOLATILE ORGANICS (VOCs)																						
Benzene	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	1										
Bromochloromethane	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	0.56										
Carbon tetrachloride	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	0.269										
Chlorobromomethane	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	0.41										
Chloroform	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	70										
1,2-Dibromo-3-Chloropropane	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	0.025										
1,2-Dichloroethane	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	50										
1,2-Dichloropropane	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	0.0004										
Hexachloro-1,3-butadiene	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	0.38										
Isopropylbenzene	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	0.51										
p-Isopropyltoluene	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	0.44										
Methylene Chloride	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	70										
Naphthalene	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	25,000										
1,1,2,2-Tetrachloroethane	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	NL										
Tetrachloroethene	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	4.6										
1,2,3-Trichloropropane	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	21										
1,2,4-Trichlorobenzene	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	0.17										
1,3,5-Trimethylbenzene	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	700										
Vinyl chloride	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	0.005										
Xylene, Total	6200B	µg/l	BDL		BDL		BDL		BDL		BDL	350										
SEMI-VOLATILE ORGANICS (SVOCs)																						
Benzo(a)anthracene	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	0.0479
Benzo(b)fluoranthene	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	0.6
Benzo(k)fluoranthene	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	0.479
Benzo(a)pyrene	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	0.00479
Chrysene	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	1.5
Dibenz(a,h)anthracene	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	4.79
Hexachlorobenzene	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	0.0047
Hexachloro-1,3-butadiene	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	0.25
Indeno(1,2,3-cd)pyrene	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	0.44
n-Nitrosodimethylamine	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	0.0479
Bis(2-ethylhexyl)phthalate	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	31
2-Chlorophenol	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	2.5
Perfluorophenol	8270C	µg/l	NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	0.36
			NT		BDL		NT		NT		NT		NT		NT		NT		NT		NT	290

Notes:
 Samples analyzed by Environmental Science Corporation
 2L STD - Groundwater Quality Standard (15A NCAC Subchapter 2L)
 GCL - Gross Contamination Levels per North Carolina Groundwater Quality Standards (GWQS)
 Samples in **Bold** and **Shaded** represents 2L Stds violation
 Samples in **Bold** and **Shaded** represents GCL violation
 BDL = Below Detection Limit
 BDL* = Reporting limit was above the 2L Stds and/or the GCL
 NL = Not Listed
 NS = No Standard

Q = Qualifier to lab analyses result (See below)
 T4 = (ESC) - Additional method/sample information: QNS - Quantity Not Sufficient
 J4 = The associated batch QC was outside the established quality control range for accuracy
 J5 = The associated batch QC was outside the established quality control range for precision.



LEGEND

- 
QH-1 MONITORING WELL LOCATION
- 
QH-3 SOIL BORING LOCATION

SUSPECT MATERIAL
BURIAL AREA

BLDG 8
WAREHOUSE



SITE MAP - AREA QH
HANESBRANDS PRODUCTS FACILITY
 700 SOUTH STRATFORD ROAD - WINSTON-SALEM, NC

DATE	PH	SCALE	PROJECT NO.
09-23-07	RC	1/2" = 1'	5E 0703-189P
			SHEET NO.
			6

APPENDIX D HISTORICAL SOIL & GROUNDWATER TABLES – PHASE II ESA (NOVEMBER 2007)

Table 1
Analytical Data Summary Table
Hanesbrand Products Facility - Winston-Salem, North Carolina

Area	Soil Samples			Ground Water Samples				Cross Reference for Tables of Analytical Results
	Sample ID	Date Collected	Laboratory Analysis	Permanent Well	Sample ID Temporary Well	Date Collected	Laboratory Analysis	
A: Former 550 gal. Fuel Oil UST	A-1 (0-4)	07/26/07	VOCs, SVOCs, VPH, EPH	FO-1	N/A	06/05/07	VOCs SVOCs, VPH, EPH	Table 2
	A-1 (4-8)							
	A-1 (8-12)							
B: Former 20,000 gal. Fuel Oil UST	B-1 (0-4)	07/26/07	VOCs, SVOCs, EPH, VPH	MW-1	N/A	06/05/07	VOCs SVOCs, VPH, EPH	Table 3
	B-1 (4-8)							
	B-1 (8-12)							
C: 10,000 gal. Fuel Oil UST - Abandoned in Place	C-1 (8-12)	07/26/07	VOCs, SVOCs, EPH, VPH			N/A		Table 4
	C-2 (8-12)							
	C-3 (8-12)							
	C-4 (8-12)							
	C-5 (8-12)							
D: Former 8,000 gal. Diesel UST	D-1	07/26/07	VOCs, SVOCs, VPH, EPH	N/A	D-2	07/26/07	VOCs, SVOCs, EPH, VPH	Table 5
	D-2							
G: Former 3,000 gal. Gasoline UST	G-1	07/26/07	VOCs, VPH	N/A	G-2	07/26/07	VOCs, VPH, Total Lead	Table 6
	G-2							
QH: Suspect Buried Materials	QH-1	07/25/07	VOCs, SVOCs, PCBs, Metals	N/A	QH-1 QH-2	07/25/07	VOCs, SVOCs, PCBs, Metals	Table 7
	QH-2							
	QH-3							
	QH-4							
	QH-5							
	QH-6							
	QH-7							
	QH-8							
	QH-9							
EP: Reported Former Electroplating Area	EP-1	07/26/07	VOCs, SVOCs, Metals	N/A	EP-1	07/26/07	VOCs, SVOCs, Metals	Table 8
	EP-1 (4-8)							
BK: Background Metals	BK-1 (4-8)	07/25/07	Metals			N/A		Table 8
	BK-1 (12-16)							

** Only compounds/analytes detected in one or more samples are shown on this table

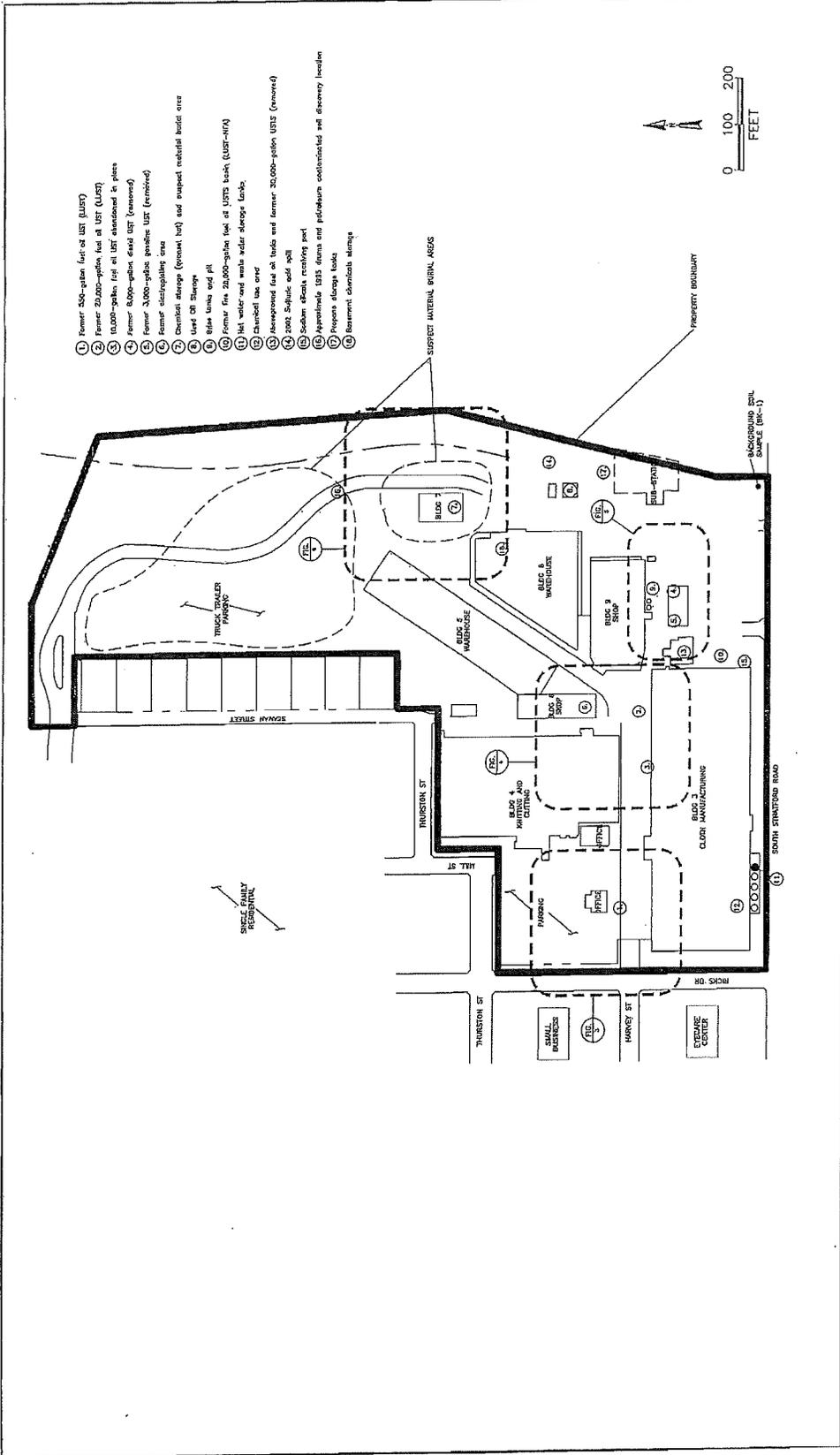
Legend:
gal) Gallon
N/A Not Applicable

TABLE 2
 Analytical Results- Area A
 Former 550 Gallon Fuel Oil UST
 Hanesbrand Products Facility- Winston-Salem, North Carolina

Volatile Organic Compounds Maximum Contaminant Concentrations (mg/kg)	ANALYTICAL RESULTS										North Carolina 2L Standards* for Ground Water (mg/l)
	Soils (mg/kg)			Ground Water (mg/l)							
	A-1 (0-4)	A-1 (4-8)	A-1 (8-12)	FO-1 7/26/07	FO-6 7/26/07	MW-3 7/24/2007					
Isocropybenzene (Cumene)	ND	ND	ND	0.0048	ND	ND					0.07
p-Isopropyltoluene	NE	ND	ND	0.015	ND	ND					NE
Naphthalene	0.58	ND	ND	0.086	ND	ND					0.021
1,2,4-Trimethylbenzene	7.5	ND	ND	0.057	ND	ND					0.35
1,3,5-Trimethylbenzene	7.3	ND	ND	0.042	ND	ND					0.35
Total Xylene	5	ND	ND	0.033	ND	ND					0.33
Semi-volatile Organic Compounds											
Di-(2-ethylhexyl)phthalate	5.6	ND	ND	0.012	ND	ND					NE
Fluorene	44	ND	ND	0.023	ND	ND					0.28
1-methylnaphthalene	NE	ND	ND	0.22	ND	ND					NE
2-methylnaphthalene	1.7	ND	ND	0.029	ND	ND					0.014
Naphthalene	0.58	ND	ND	0.082	ND	ND					0.021
Phenanthrene	60	ND	ND	0.031	ND	ND					0.21
ETHYLENE GLYCOL											
Aliphatic (C9-C18)	3300	ND	ND	1.4	ND	ND					4.2
Aliphatic (C19-C36)	##	ND	ND	1.4	ND	ND					4.2
Aromatic (C11-C22)	34	ND	ND	1.9	ND	ND					0.210
Aliphatic (C9-12)	3300	ND	ND	3.1	ND	ND					4.2

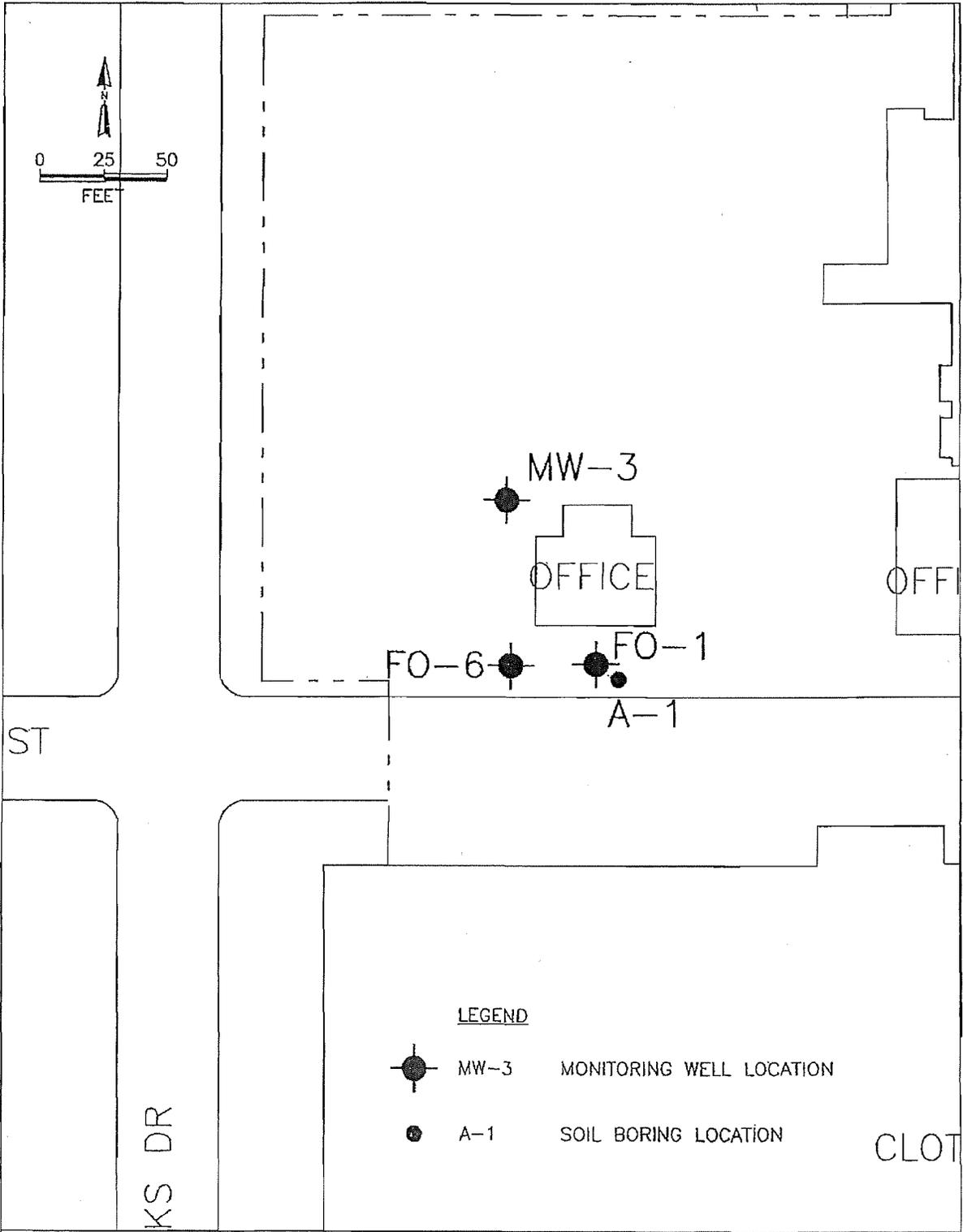
- Only compounds/analytes detected in one or more samples are shown on this table

- Legend:
 mg/kg Milligrams per Kilogram
 mg/l Milligrams per Liter
 ## Considered Inmobile
Bold Concentration Above Applicable NCDEMR Standard
 * Taken from Guidelines for Assessment and Corrective Action - North Carolina Underground Storage Tank Section, April 2001
 ** Standard 15A NCAC 2L.0202
 ND Compound or analytes not detected
 NE Not Established



TITLE: SITE MAP HANESBRANDS PRODUCTS FACILITY 700 SOUTH STRATFORD ROAD - WINSTON-SALEM, NC	DATE: 09-23-07	PROJECT NO.: SE 0703-189P
	APP'D:	FIGURE NO.: 2
	CHG'D: RC	REV.:





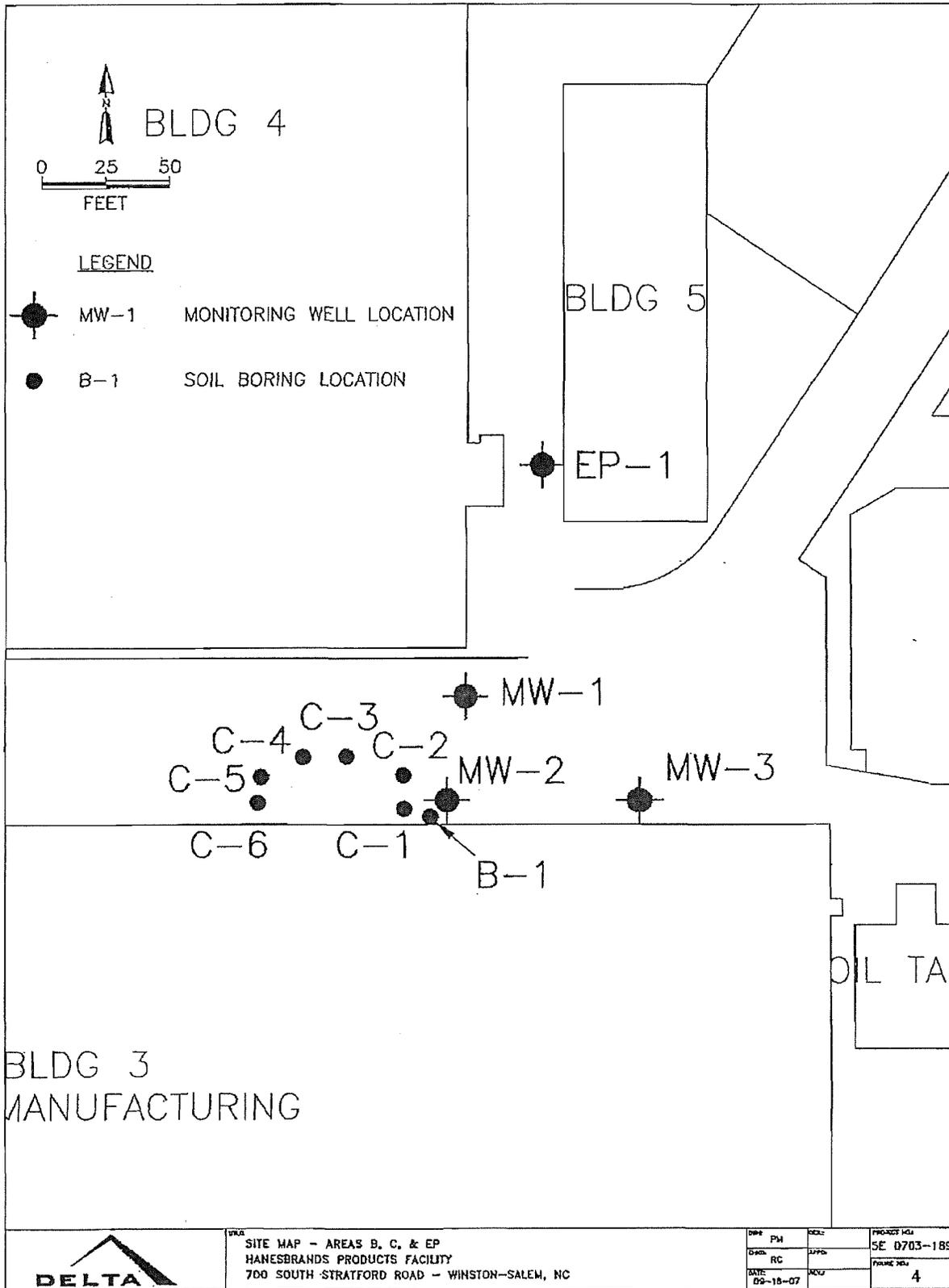
LEGEND

-  MW-3 MONITORING WELL LOCATION
-  A-1 SOIL BORING LOCATION



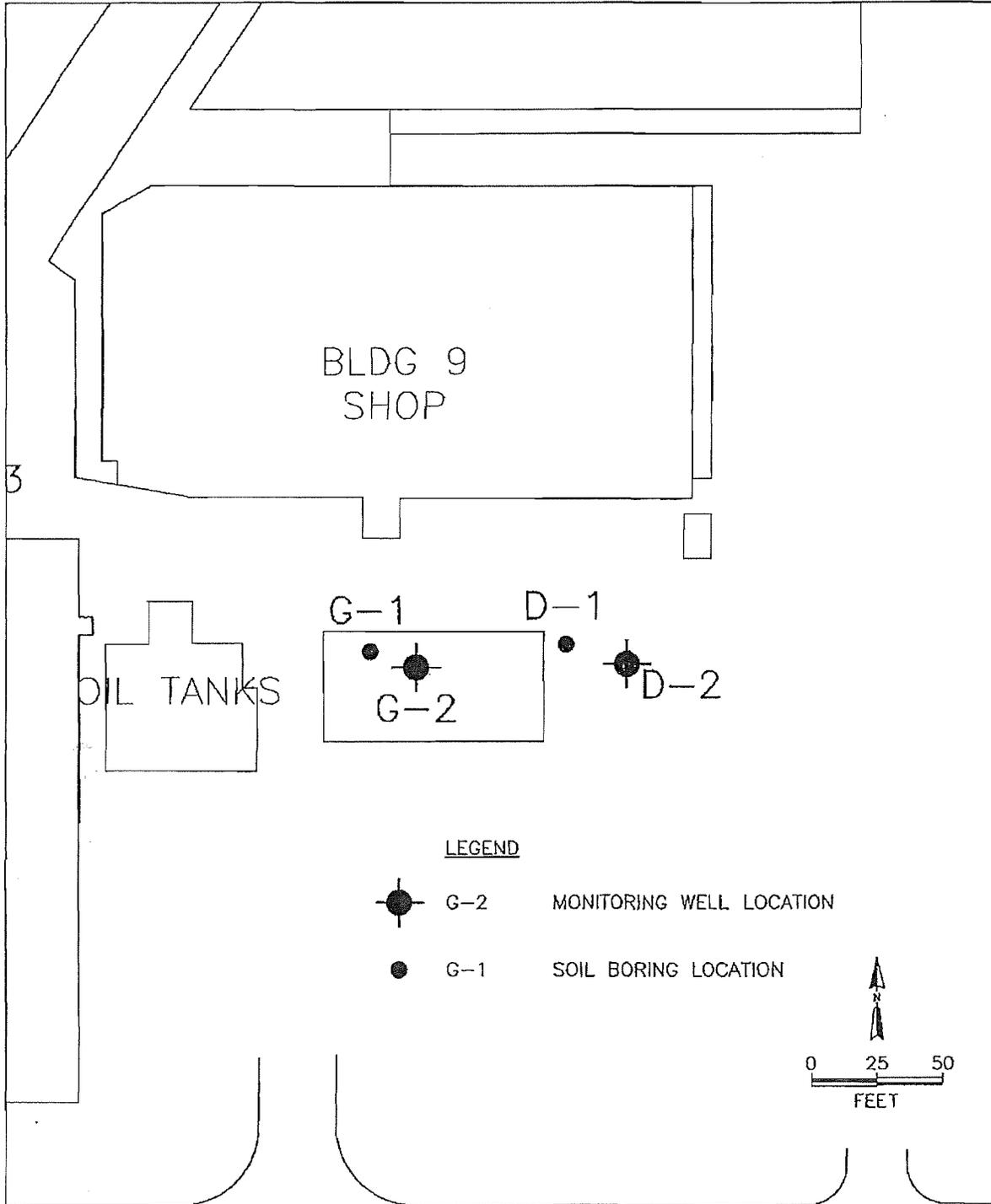
SITE MAP - AREA A
 HANESBRANDS PRODUCTS FACILITY
 700 SOUTH STRATFORD ROAD - WINSTON-SALEM, NC

DATE	PM	SCALE	PROJECT NO.
02-23-07	RC	ASYS	SE 0703-189P
			FRAME NO.
			3



TITLE: SITE MAP - AREAS B, C, & EP
 HANESBRANDS PRODUCTS FACILITY
 700 SOUTH STRATFORD ROAD - WINSTON-SALEM, NC

DATE	PH	SCALE	PROJECT IGA
DATE	RC	APPD	SE 0703-189P
DATE	RCU	FRAME NO.	4
09-18-07			



TITLE SITE MAP - AREAS D & G
 HANESBRANDS PRODUCTS FACILITY
 700 SOUTH STRATFORD ROAD - WINSTON-SALEM, NC

DATE	PM	DRAWN	PROJECT NO.
09-23-07	RC	APP'D	SE 0703-189P
		DATE	FRAME NO.
			5

TABLE 3
 Analytical Results - Area B
 Former 20,000-Gallon Fuel Oil UST
 Hanesbrand Products Facility- Winston-Salem, North Carolina

	Soil-to-Groundwater Maximum Contaminant Concentrations ^a (mg/kg)	ANALYTICAL RESULTS							North Carolina 2L Standards ^b for Ground Water (mg/l)
		Soils (mg/kg)		Ground Water (mg/l)					
		B-1 (0-4) 7/26/07	B-1 (4-8) 7/26/07	B-1 (8-12) 7/26/07	MW-1 6/5/07	MW-2 6/5/07	MW-3 6/5/2007		
Volatiles Organic Compounds	Various	ND	ND	ND	ND	ND	ND	ND	Various
Semi-Volatile Organic Compounds	Various	ND	ND	ND	ND	ND	ND	ND	Various
All SVOCs									
EPH									
Aliphatic (C9-C18)	3300	ND	ND	100	ND	ND	ND	ND	4.2
Aliphatic (C19-C36)	##	ND	ND	16	ND	ND	ND	ND	42
Aromatic (C11-C22)	34	ND	ND	43	ND	ND	ND	ND	0.21
VPH									
Aliphatic (C9-12)	3300	ND	ND	ND	ND	ND	ND	ND	4.2

-- Only compounds/analytes detected in one or more samples are shown on this table

Legend:

- mg/kg Milligrams per Kilogram
- mg/l Milligrams per Liter
- ## Considered Immoblie
- ND Concentration Above Applicable NCDENR Standard
- Taken from *Guidelines for Assessment and Corrective Action - North Carolina Underground Storage Tank Section, April 2001*
- Standard 15A NCAC 2L.0202

TABLE 4
 Analytical Results - Area C
 10,000-Gallon Fuel Oil UST
 Hanesbrand Products Facility- Winston-Salem, North Carolina

	Soil-to-Groundwater Maximum Contaminant Concentrations* (mg/kg)	ANALYTICAL RESULTS							
		Soils (mg/kg)							
		C-1(8-12) 7/26/07	C-2(8-12) 7/26/07	C-3(8-12) 7/26/07	C-4(8-12) 7/26/07	C-5(8-12) 7/26/07	C-6(8-12) 7/26/2007		
Volatiles Organic Compounds									
Acetone	2.8	0.15	ND	0.1	ND	ND	ND	0.16	
Semi-Volatile Organic Compounds									
All SVOCs	Various	ND	ND	ND	ND	ND	ND	ND	
EPH									
ALL EPH	Various	ND	ND	ND	ND	ND	ND	ND	
VPH									
Aliphatic (C9-12)	3300	ND	ND	ND	ND	ND	ND	ND	

** Only compounds/analytes detected in one or more samples are shown on this table

Legend:
 mg/kg Milligrams per Kilogram
 Bold Concentration Above Applicable NCDENR Standard
 * Taken from *Guidelines for Assessment and Corrective Action - North Carolina Underground Storage Tank Section, April 2001*
 ND Compound or analytes not detected

TABLE 5
 Analytical Results - Area D
 Former 8,000-Gallon Diesel UST
 Hanesbrand Products Facility - Wirston-Salem, North Carolina

	Soil-to-Groundwater Maximum Contaminant Concentrations* (mg/kg)	ANALYTICAL RESULTS				North Carolina 2L Standards** for Ground Water (mg/l)
		Soils (mg/kg)		Ground Water (mg/l)		
		D-1 7/25/07	D-2 7/25/07	D-2 7/25/07	D-2 7/25/07	
Volatile Organic Compounds						
Acetone	2.8	ND	0.13	ND	ND	0.7
Chloroform	0.4	ND	ND	0.0032	0.0032	0.07
Semi-Volatile Organic Compounds						
All SVOCs	Various	ND	ND	ND	ND	Various
EPH						
ALL EPH	Various	ND	ND	ND	ND	Various
YPH						
Aliphatic (C9-12)	3300	ND	ND	ND	ND	4.2

-- Only compounds/analytes detected in one or more samples are shown on this table

Legend:
 mg/kg Milligrams per Kilogram
 Bold Concentration Above Applicable NCDENR Standard
 * Taken from *Guidelines for Assessment and Corrective Action - North Carolina Underground Storage Tank Section, April 2001*
 ** Standard 15A NCAC 2L.0202
 ND Compound or analytes not detected
 NE Not Established

TABLE 6
 Analytical Results - Area G
 Former 3,000-Gallon Gasoline UST
 Hanesbrand Products Facility, Winston-Salem, North Carolina

	Soil-to-Groundwater Maximum Contaminant Concentrations* (mg/kg)	ANALYTICAL RESULTS			North Carolina 2L Standards** for Ground Water (mg/l)
		Soils (mg/kg)		Ground Water (mg/l)	
		G-1	G-2	G-2	
Total Lead	270	Not Analyzed	Not Analyzed	0.095	0.015
Lead					
Volatile Organic Compounds	0.4	ND	ND	0.0052	0.07
Chloroform					
WPH:					
Aliphatic (C9-12)	3300	ND	ND	ND	4.2

-- Only compounds/analyses detected in one or more samples are shown On this table

- Legend:
- mg/kg Milligrams per Kilogram
 - mg/l Milligrams per Liter
 - Bold** Concentration Above Applicable NCDENR Standard
 - * Taken from *Guidelines for Assessment and Corrective Action - North Carolina Underground Storage Tank Section, April 2001*
 - ** Standard 15A NCAC 2L.0202
 - ND Compound or analyses not detected

	North Carolina 2L Standards* for Ground Water (mg/l)
Metals	
Arsenic	0.05
Barium	2
Cadmium	0.00175
Chromium	0.05
Lead	0.015
Mercury	0.00105
Selenium	0.05
Silver	0.0175
Volatile Organic Compounds	
Acetone	0.7
cis-1,2-Dichloroethene	0.07
Naphthalene	0.021
Tetrachloroethene	0.0007
1,2,4-Trimethylbenzene	0.35
Semi-Volatile Organic Comp	
Benzo(b)fluoranthene	4.79×10^{-5}
Fluoranthene	0.28
Pyrene	0.21
PCBs	
ALL PCBs	Various

-- Only compounds/analyte

Legend:

mg/kg Milligrams per Kilogram
mg/l Milligrams per Liter
Bold Concentration Above
* Standard 15A NCAC
ND Compound or analyte
NE Not Established

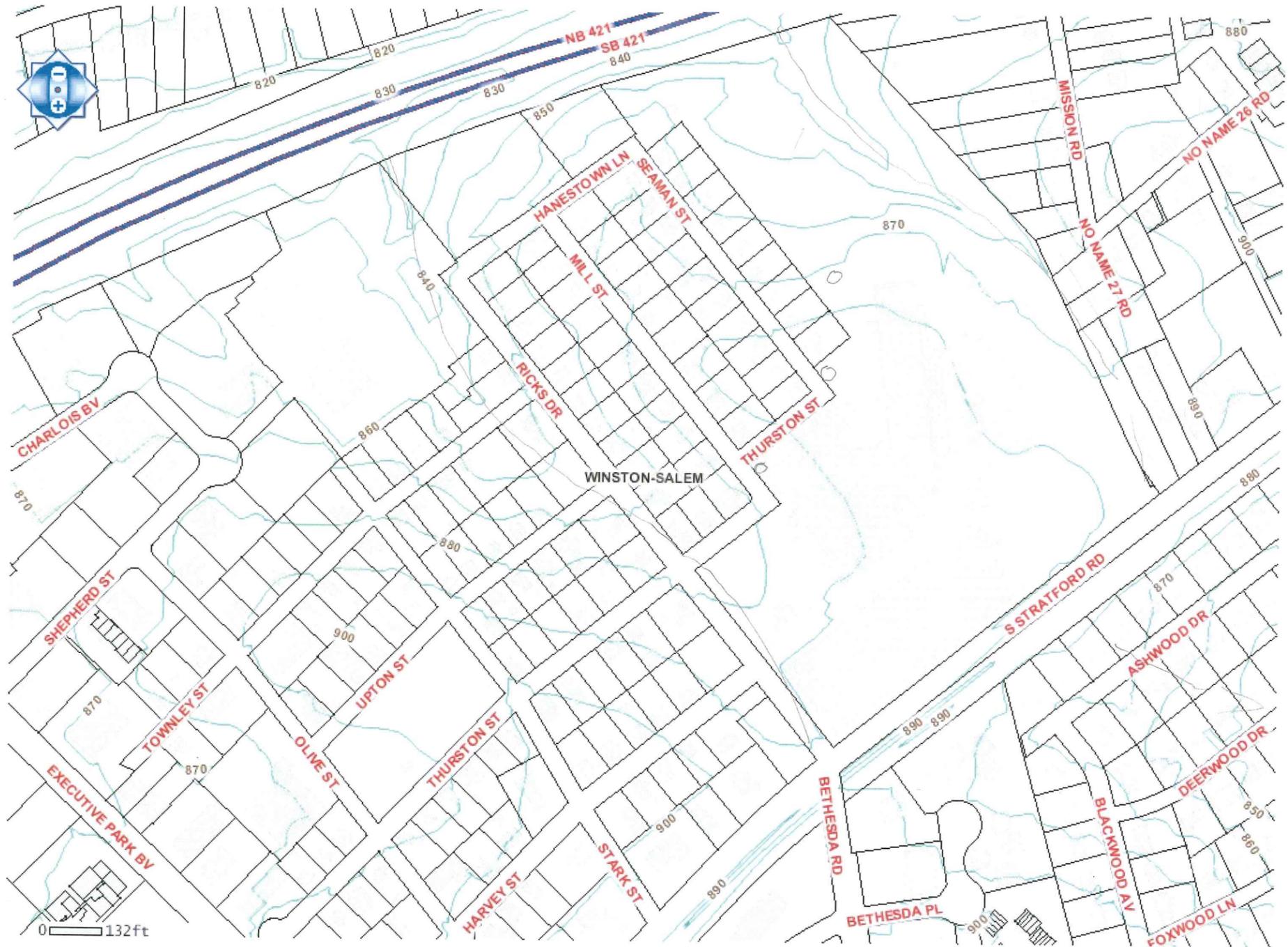
TABLE 8
 Analytical Results - Areas EP and BK
 Reported Former Electroplating Area Background Metals
 Haneshrand Products Facility- Winston-Salem, North Carolina

Reported Former Electroplating Area	NCDENR Inactive Hazardous Sites Branch Soil Remediation Goals ppm (mg/kg)	ANALYTICAL RESULTS		North Carolina 2L Standards* for Ground Water (mg/l)
		Soils (mg/kg)	Ground Water (mg/l)	
		EP-1 7/26/07	EP-1 7/26/07	
Metals				
Arsenic	4.4	ND	0.086	0.06
Barium	NE	41	2.1	2
Cadmium	NE	ND	ND	0.00175
Chromium	44	25	0.098	0.05
Lead	400	22	0.099	0.015
Mercury	4.6	0.033	ND	0.00105
Selenium	78	ND	0.018	0.05
Silver	78	ND	ND	0.0175
Volatile Organic Compounds				
Chloroform	0.22	ND	0.0024	0.07
Semi-Volatile Organic Compounds				
All SVOCs	Various	ND	ND	Various

Background Metals	ANALYTICAL RESULTS	
	Soils (mg/kg)	
	BK-1 (4-8) 7/26/07	BK-1 (12-16) 7/26/07
Metals		
Arsenic	2.3	0.81
Barium	370	280
Cadmium	0.59	0.33
Chromium	52	38
Lead	15	11
Mercury	ND	ND
Selenium	ND	ND
Silver	ND	ND

-- Only compounds/analytes detected in one or more samples are shown on this table

Legend:
 mg/kg Milligrams per Kilogram
 mg/l Milligrams per Liter
 Bold Concentration Above Applicable NCDENR Standard
 * Standard 15A NCAC 2L.0202



SOURCE: FORSYTH COUNTY GIS



Tommy's Auto Repair

Mock Tire & Automotive

K & G Ardmore Brake

Winston Pharmaceuticals, Inc.

150 Cleaners