

From: [Daphne Jones](#)
To: ["Keith Huff"](#); [Qi, Ou](#); ["Jan McHargue"](#)
Cc: [Marks, Cheryl](#); [Jesneck, Charlotte](#); [Bateson, James](#); [Lorscheider, Ellen](#); ["Joan Smyth"](#); ["Ledezma, Rosalba A."](#); [Ghiold, Joe](#)
Subject: RE: Landfill Gas Detection - Action Required
Date: Friday, May 29, 2015 2:56:57 PM
Attachments: [2011-11-01 ESC Ph I ESA.pdf](#)

This paragraph is from ECS' 2011 Phase I conducted for WSSU; I have attached that document.

With regard to the landfill in question on the map with the elevated methane concentrations (area south of tree line on east die of MLK Drive across the Bowman Gray stadium):

The Standard Environmental Records search identified a landfill (Terry Cornett, 1400 Block of Stadium), located on Section 4 of the site. This facility was permitted as a Construction and Demolition Landfill in October of 1985. The facility has been sited for numerous violations associated with access and signage. The landfill reportedly accepted construction debris from the City of Winston-Salem including wood from storm damage, asphalt from street maintenance and soils from the street sweeper. A December 11, 1991 Memorandum from Mr. Cornett to Mr. Jim Bryan, Environmental Health Supervisor with Forsyth County, indicated that solid waste placed at the facility by others would be removed and disposed of. The memorandum indicated that the landfill should be closed by the following spring and graveled for additional parking for Bowman Gray Stadium. A June 5, 1996 letter from the Winston Salem Inspections Division indicated that the landfill would need to meet the current improvement standards or obtain a letter of closure by January 1, 1997. Further information regarding the status of the landfill was not available. The area is currently a gravel covered parking lot.

However, when ECS tried to dig test pits in this area in their 2012 Phase II, they hit refusal at 2' in this area. During Smith + Gardner's contractors electromagnetic survey recently conducted across the 92-acre property, this area did not indicate the presence of landfilled materials. They did locate a landfill area in the parking lot to the north, and the LFG soil survey to the north indicated most of the results from that area were much lower than the area to the south.

As far as the landfill in the SW parking lot of Bowman Gray Stadium across the street that the LFG survey was started, and will resume on Monday, the Phase I states:

We contacted Mr. David Saunders, Director of the Winston-Salem/Forsyth County Utilities Department. Mr. Saunders provided us with a map of the site with areas of known landfilling highlighted. The map depicts a construction and demolition landfill on Section 4 of the site, consistent with the Terry Cornett landfill. The map also depicts municipal solid waste landfill on the southwestern portion of Section 1. Mr. Saunders indicated that the landfill was privately owned and operated in the 1950s.

WSSU has been deemed eligible by the NCBP and is conducting the assessment work necessary to obtain a brownfields agreement. Because of Smith + Gardner's expertise in landfills, Duncklee & Dunham teamed with them to work with the LF aspects of the assessment work while Duncklee & Dunham is conducting the environmental media assessment work and other brownfields requirements. I copied Joan Smyth on this email, of Smith + Gardner, who is S+G's senior hydrogeologist working on the LF aspects of this project. Unfortunately I am going to have to leave

the office shortly, but Joan may be able to answer more of the LF-related questions. I copied my contact at WSSU on this email, Ms. Rosalba Ledezma, the Associate Vice-Chancellor of Facilities.

I have also copied Joe Ghiold, the NCBP project manager, whom I forwarded Joan's email/map to earlier today.

Thanks, Daphne

From: Keith Huff [mailto:keithh1@cityofws.org]
Sent: Friday, May 29, 2015 1:18 PM
To: Qi, Qu; Daphne Jones; Jan McHargue
Cc: Marks, Cheryl; Jesneck, Charlotte; Bateson, James; Lorscheider, Ellen
Subject: Re: Landfill Gas Detection - Action Required

Daphne or Jan,

Do you have any history on the site?

Thanks,
Keith

Sent from my iPhone

On May 29, 2015, at 1:01 PM, Qi, Qu <qu.qi@ncdenr.gov> wrote:

Keith:

Cheryl and I checked our database and this site is not listed on our inventory. Do you know any history of the site? Is this a closed landfill?

Ellen: Could you have someone to check if Solid Waste Section has any records on this site? I'll forward the draft report to you in a separated e-mail.

Thanks!

 PG

Inactive Hazardous Sites Branch
Superfund Section
Division of Waste Management

qu.qi@ncdenr.gov

INTERACTIVE MAPS WITH DWM SITES AND PERMITTED FACILITIES:

<http://portal.ncdenr.org/web/wm/gis/maps>

ONLINE ACCESS TO SUPERFUND SECTION DOCUMENTS:

<http://portal.ncdenr.org/web/wm/sf-file-records>

My phone/fax number is (919) 707-8213

Street address: Green Square Complex DENR Office Building 217 W Jones Street, Raleigh, NC 27603

Mailing address: 1646 Mail Service Center, Raleigh, NC 27699

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From: Keith Huff [<mailto:keithh1@cityofws.org>]

Sent: Friday, May 29, 2015 12:38 PM

To: Qi, Qu; Marks, Cheryl

Cc: Daphne Jones; Ben Rowe; Greg Turner; Ron Hargrove; James T. Mitchell; ledezmar@wssu.edu; joan@smithgardnerinc.com; Charles Norton

Subject: Fwd: Landfill Gas Detection - Action Required

Good afternoon Qu Qi and Cheryl,

The City is partnering with Winston Salem State University to conduct an environmental study at Bowman Gray Stadium. Please see the forwarded information regarding a recently discovered methane gas detections at this location.

The purpose of this email is notify IHSB of this discovery and seek guidance as to next steps to address these methane gas concentrations (I notified both of you because I didn't know who would take the lead).

When possible, please advise of next steps needed to move forward.

Thank you,

Keith Huff
City of Winston-Salem
336-747-6962

Sent from my iPhone

Begin forwarded message:

From: Daphne Jones <daphne@dunckleedunham.com>

Date: May 29, 2015 at 11:43:56 AM EDT

To: <keithh1@cityofws.org>

Cc: 'Joan Smyth' <joan@smithgardnerinc.com>, 'Ben Rowe'

<benr@cityofws.org>, "'James T. Mitchell"

<jamestm@cityofws.org>, "'Ledezma, Rosalba A."

<ledezmar@wssu.edu>, 'Keith Hamby' <keithh@cityofws.org>

Subject: FW:

From: Joan Smyth [<mailto:joan@smithgardnerinc.com>]
Sent: Friday, May 29, 2015 11:15 AM
To: Keith Hamby; Ben Rowe; James T. Mitchell; Ledezma, Rosalba A.
Cc: Daphne Jones
Subject: Landfill Gas Detection - Action Required
Importance: High

All –

Attached is a draft map depicting the landfill gas (specifically methane) readings we took yesterday during our soil gas survey at the Bowman Gray Stadium property. Please note the probe location to the south of the field that is east of MLK Jr. Blvd. This probe location exhibited 40% methane and is located near the property line. You can see a building located just south of this location on the aerial photo.

The reading of 40% methane is well above the regulatory limit of 100% of the lower explosive limit (LEL) at the property line (5% methane is equal to 100% of the LEL). I suggest this information be reported to the Inactive Hazardous Sites branch today, and that steps be taken to evaluate potential landfill gas concentrations in the building immediately to the south. Additionally, any storm sewers in this area should also be investigated for potential landfill gas.

Our crew will be back at the site on Monday to complete the remaining locations for the soil gas survey, and can assist with this as needed. Please let us know how you would like to proceed.

Thank you.

Joan A. Smyth, P.G.
Senior Hydrogeologist

SMITH + GARDNER

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