



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Pat McCrory

Governor

Dexter R. Matthews

Director

John E. Skvarla, III

Secretary

September 23, 2013

Mr. Marvin G. Williams, Director
Public Works Department
City of Durham
101 City Hall Plaza
Durham, NC 27701

Re: Contaminated Well at 1726 Hamlin Rd
Parcel ID 169131, Pin # 0843-01-39-0324
Durham, North Carolina

Dear Mr. Williams:

The purpose of this letter is to request a waiver of annexation for the above referenced property due to contamination of the drinking water well. The contamination poses a serious health risk and recommendation from the state toxicologist is not to use the well water for any household purposes. The residence is currently receiving bottled water supplied by the NCDENR Inactive Hazardous Sites Branch (Branch). The well has been periodically tested by the Branch and the July 2013 sampling results indicate the well exceeds the Maximum Contamination Level (MCL) for drinking water. See the attached water supply well sampling results and the Health Risk Evaluation.

In situations where similar circumstances have occurred, a waiver of annexation was required from local government for properties so that they could connect to City water service. To comply with City of Durham Public Works Department requirements, enclosed is a Utility Extension Agreement (UEA) Application for Single- Family Residence along with an application fee and plot plan. Please contact me when the review process for the waiver is complete so we can submit the application for Connection to City Water with the appropriate water meter, water service, facility and road frontage fees.

If you have any questions, concerning this issue, please contact me at (919) 707-8355.

Sincerely,

Keith Snavelly, Hydrogeologist
Inactive Hazardous Sites Branch
Superfund Section

cc: Justin Weist, City of Durham Public Works
Nathan McHenry, City of Durham Public Works
1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-707-8200 \ Internet: <http://portal.ncdenr.org/web/wm>



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June 25, 2013

Donald Aiken
2019 Meadow Rd
Durham, NC 27705

RE: Water Supply Well Sampling Results -- Beckmann Sandefur Site (NCN000410370)
1726 Hamlin Rd -- Well ID H-3
Durham, NC 27704

Dear Mr. Aiken:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on April 29, 2013. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). VOCs were detected in the water sample as shown on the attached sheets.

Because VOCs were detected in the water sample, a Health Risk Evaluation (HRE) of the water supply was performed by our toxicologist. The HRE, which is enclosed, compares the concentration of detected contaminants to acceptable concentrations and provides a recommendation for acceptable uses of the water.

In accordance with the residential property disclosure act, it is your responsibility to disclose this contamination as part of the property sale. You should also notify all current and future tenants of your property of the contamination detected in your well.

If you have any questions regarding the Health Risk Evaluation, please contact Hanna Assefa at (919) 707-8351 or me at (919) 707-8353.

Sincerely,

Vincent Antrilli, Jr.

Vincent Antrilli, Jr.
Environmental Specialist
Inactive Hazardous Sites Branch
Superfund Section

Enclosure

CC: Durham County Health Department
Yvonne Sanchez, 1726 Hamlin Rd, NC 27704

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-707-8200 \ Internet: <http://portal.ncdenr.org/web/wm>

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June 24, 2013

MEMORANDUM

TO: Vince Antrilli
Inactive Hazardous Sites Branch
Superfund Section

FROM: Hanna Assefa, Industrial Hygiene Consultant *HA*
Inactive Hazardous Sites Branch
Superfund Section

RE: Health Risk Evaluation
Beckmann-Sandefur Site
1726 Hamlin Road
Durham, Durham County
NCN 000 410 370

A water sample was collected from the subject well on April 29, 2013. 1,4-Dioxane and 1,1-Dichloroethene were detected in the water sample above applicable standards. The standards used to determine if the water is suitable for drinking and cooking are the federal drinking water standards (USEPA MCL), or where there is no MCL, the North Carolina Groundwater Quality Standard (NC 2L). If there is no USEPA MCL or health-based North Carolina 2L available a health-based concentration is calculated.

If contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. **Therefore, based on this evaluation, the water from this should not be used for drinking and cooking. The water from this well can be used for all other purposes listed above.** The table below compares the detected contaminant concentrations with the applicable standards:

Sample #	Contaminant	Concentration (mg/L)	US EPA MCL (mg/L)	NC 2L (mg/L)	Calculated Health-based Concentration(mg/L)
OD30002-004	1,4-Dioxane	3.1	*	3	**
	1,1-Dichloroethene	25	7	**	**

** Not Applicable

ug/L= Micrograms of contaminant per liter of water.

Shaded area indicates exceedance

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: NCDENR - DWM - DSCA	Laboratory ID: OD30002-004
Description: H-3	Matrix: Aqueous
Date Sampled: 04/29/2013 1310	
Date Received: 04/30/2013	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM Iso.)	1	04/30/2013 1541	AAC		19425

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM)	3.1		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time Q = Surrogate failure
 ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria I = LCS/LCSD failure
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA	Laboratory ID: OD30002-004
Description: H-3	Matrix: Aqueous
Date Sampled: 04/29/2013 1310	
Date Received: 04/30/2013	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/10/2013 1525	RGB		20212

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	25		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-6	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time Q = Surrogate failure
 ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria L = LCS/LCSD failure
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" S = MS/MSD failure

Volatile Organic Compounds by GC/MS

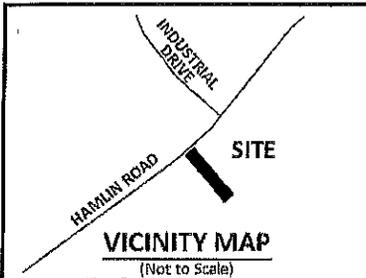
Client: NCDENR - DWM - DSCA	Laboratory ID: OD30002-004
Description: H-3	Matrix: Aqueous
Date Sampled: 04/29/2013 1310	
Date Received: 04/30/2013	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/10/2013 1525	RGB		20212

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

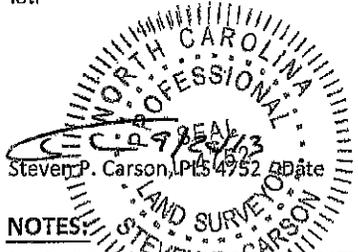
Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time Q = Surrogate failure
 ND = Not detected at or above the PQL J = Estimated result < PQL and \geq MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria L = LCS/LCSD failure
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" S = MS/MSD failure

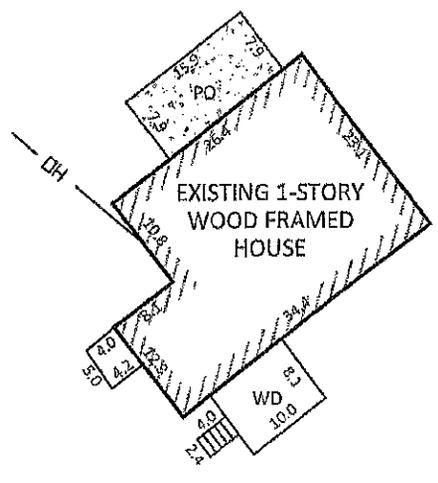


- LEGEND**
- PO = PORCH
 - SP = SCREENED PORCH
 - CP = COVERED PORCH
 - WD = WOOD DECK
 - SW = SIDEWALK
 - DW = CONC DRIVEWAY
 - ⊙ = CONTROL POINT
 - ⊙ = IRON PIPE FOUND
 - ⊙ = IRON PIPE SET
 - = DRILL HOLE FOUND
 - WM = WATER METER
 - CO = CLEAN OUT
 - AC = AIR CONDITIONER
 - ⊙ = SEWER MANHOLE
 - ⊙ = ELECTRIC BOX
 - ⊙ = CABLE BOX
 - ⊙ = TELEPHONE PEDESTAL
 - CI = CURB INLET
 - TUA = TRANSITIONAL USE AREA
 - ⊙ = LIGHT POLE

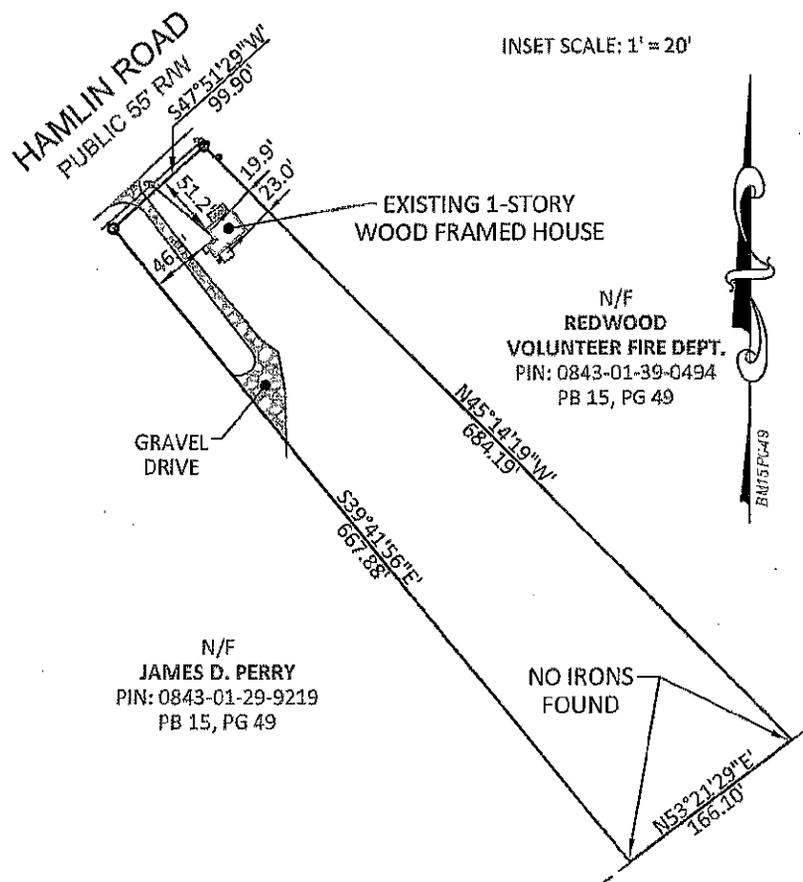
I hereby certify that this map is correct and that the building lies wholly on the lot and that there are no visible encroachments on said lot.



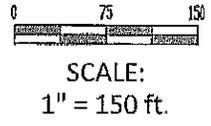
- NOTES:**
1. THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF STEVEN P. CARSON, PLS.
 2. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
 3. THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT.
 4. VERTICAL DATUM IS ASSUMED. THE LATITUDE, LONGITUDE AND STATE PLANE COORDINATES, IF SHOWN, ARE GIVEN IN NORTH AMERICAN DATUM OF 1983 (NAD83).
 5. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
 6. THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.
 7. THE PROPERTY LIES IN ZONE "X" PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBER 3720084300J, DATED MAY 2, 2006.
 8. ZONING IS RES-1-FAMILY
 10. PROPERTY OWNER: DONALD A. AIKEN
2019 MEADOW ROAD
DURHAM, NC 27705-9243



INSET SCALE: 1" = 20'



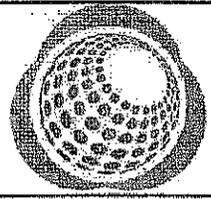
This map is of an existing parcel of land and is only intended for the parties and purposes shown. This map not for recardation. No title report provided.



LOT INFORMATION:

DB 1814, PG 159
 PARCEL ID: 169131
 PIN: 0843-01-39-0324
 ADDRESS: 1726 HAMLIN ROAD
 TOTAL LOT AREA = 2.05 AC = 89,516 SF
 EXISTING IMPERVIOUS = 855 SF
 PERCENT IMPERVIOUS = 0.96 %

BUILDING SETBACKS:
N/A



Bateman Civil Survey Company, PC
 Engineers • Surveyors • Planners
 200 N. Main Street, Holly Springs, NC 27540
 (919) 577-1080
 NCBELS C 2378

FINAL SURVEY
 EXCLUSIVELY FOR: S&ME
 BRAGTOWN HEIGHTS
 1726 HAMLIN ROAD, NC
 DURHAM COUNTY
 DATE: 9/20/13 DRAWN BY: JFK CHECKED BY: SPC
 REFERENCE: BM 15, PG 49 SCALE: 1"=150'