



Babb & Associates, P.A.

November 24, 2015

Mr. Ming-Tai Chao, P.E., Environmental Engineer  
NC DWM, Solid Waste Section  
1646 Mail Service Center  
Raleigh, NC 27699-1646

Permit No.	Date	Document ID No.
98-09	November 24, 2015,	25324

Re: Test Pit Excavations  
Wilson County Compost Facility  
Wilson County, North Carolina

Received by an e-mail  
Date: November 24, 2015  
Solid Waste Section  
Raleigh Central Office

Dear Mr. Chao:

Babb & Associates, P.A. has completed the excavation of two test pits in the area of the compost operations of the Wilson County Solid Waste Facility. The approximate location of the two test pits (TP-1 and TP-2) is shown on the enclosed site map. Also, soil logs of the material encountered during excavation of the two test pits are enclosed with this correspondence. A description of test pit excavations is provided below:

**Test Pit -1**

This test pit was located on the western portion of the compost area. The upper portion of the soil profile consisted of clayey fine sands and silts which graded into a fine sandy clay at a depth of approximately 5'. This stiff clay extended to the bottom of the test pit, which was terminated at a depth of 12' below land surface. No groundwater or saturated soil was encountered in this test pit.

**Test Pit -2**

This test pit was located on the eastern portion of the compost area. The upper portion of the soil profile consisted of a fine sandy clayey silt which graded into a fine sandy clay at a depth of approximately 4'. A minor quantity of water accumulated in the bottom of this test pit at a depth of approximately 6.5'. This water is likely perched water as surface-ponded water from recent rains was noted in the area of the test pit and the soil encountered in the test pit was not saturated.

If there are any questions concerning this information, please contact me at (919) 325-0696,

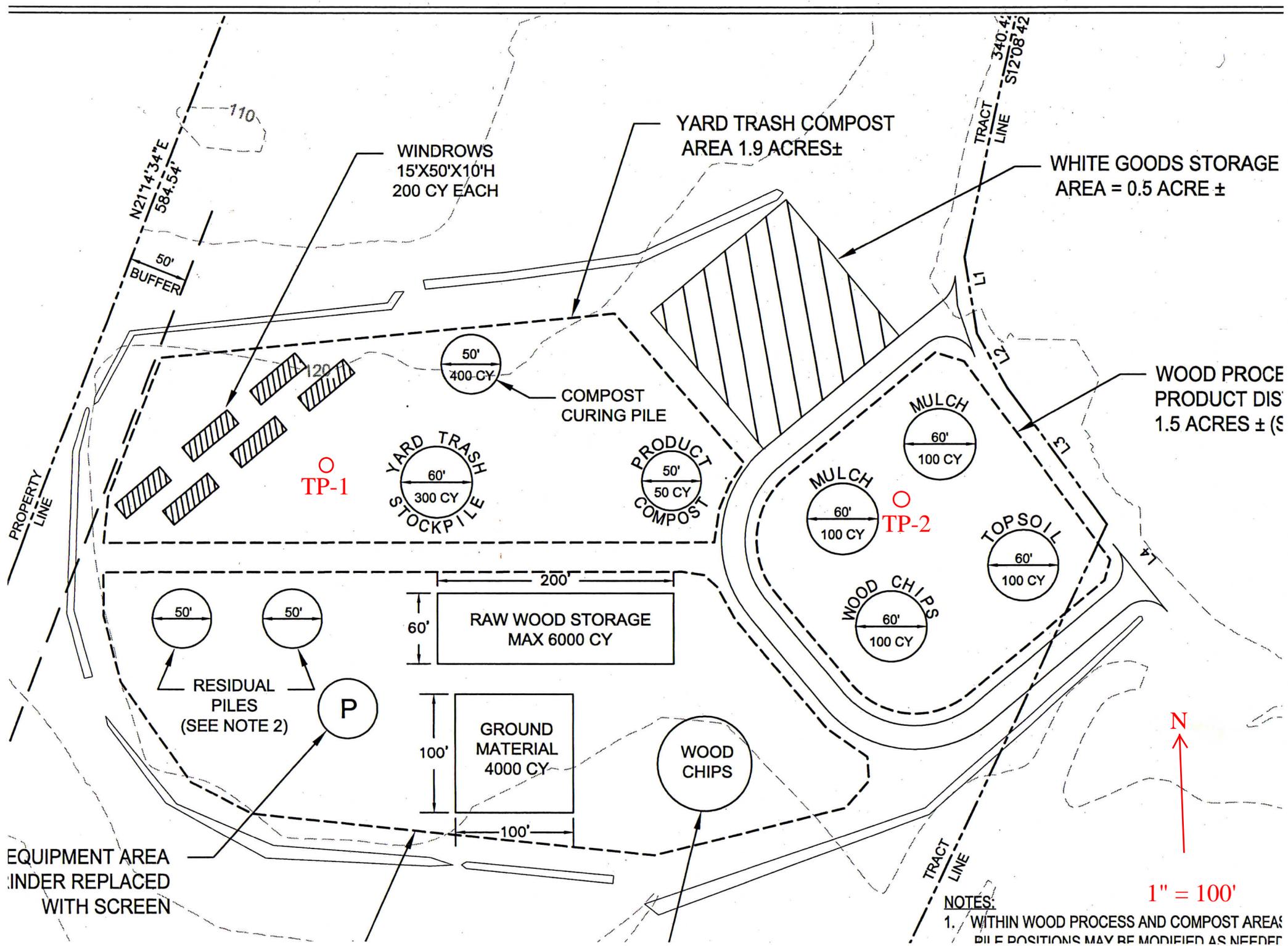
Respectfully,  
Babb & Associates, P.A.

Gary D. Babb, P.G.  
President



Enclosures

Cc: Mr. Andy Davis, Wilson County



N21°14'34"E  
584.54'

50'  
BUFFER

PROPERTY LINE

110

WINDROWS  
15'X50'X10'H  
200 CY EACH

YARD TRASH COMPOST  
AREA 1.9 ACRES±

WHITE GOODS STORAGE  
AREA = 0.5 ACRE ±

TRACT LINE  
340.42'  
S72°08'42"

WOOD PROCE  
PRODUCT DIS  
1.5 ACRES ± (S

50'  
400-CY

COMPOST  
CURING PILE

YARD TRASH  
STOCKPILE  
60'  
300 CY

PRODUCT  
COMPOST  
50'  
50 CY

TP-1

MULCH  
60'  
100 CY

MULCH  
60'  
100 CY

TP-2

TOP SOIL  
60'  
100 CY

WOOD CHIPS  
60'  
100 CY

50'

50'

RESIDUAL  
PILES  
(SEE NOTE 2)

P

200'  
60'  
RAW WOOD STORAGE  
MAX 6000 CY

100'  
100'  
GROUND  
MATERIAL  
4000 CY

WOOD  
CHIPS

N

1" = 100'

NOTES:

1. WITHIN WOOD PROCESS AND COMPOST AREAS  
PILE POSITIONS MAY BE MODIFIED AS NEEDED

EQUIPMENT AREA  
UNDER REPLACED  
WITH SCREEN

**BABB AND ASSOCIATES, P.A.**  
**Raleigh, North Carolina**

**SOIL BORING LOG**

**PROJECT:** Wilson County  
**PROJECT #:** Compost Area  
**BORING ID:** Test Pit 1  
 Date: 11/20/15  
 Method: Track Hoe  
 Contractor: Wilson County Personnel

Page: 1 of 1  
 Total Depth: 12 Feet  
 Boring Dia: NA  
 Field Rep: G. Babb

Sample Number	Depth	Description	Blow Count	Field Screen	Notes
A	1'	tan silty fine SAND	NA	NA	
B	2'	brown silty clayey fine SAND			
C	4'	orange sandy clayey SILT			
D	5'	orange sandy clayey SILT			
E	6'	grey fine sandy silty CLAY			
F	8'	grey fine sandy CLAY			
G	10'	grey/orange silty fine sandy CLAY			
H	12'	grey/orange silty fine sandy CLAY			

Comments: No free water or saturated soil encountered in test pit 1.



**BABB AND ASSOCIATES, P.A.**  
**Raleigh, North Carolina**

**SOIL BORING LOG**

**PROJECT:** Wilson County  
**PROJECT #:** Compost Area  
**BORING ID:** Test Pit 2  
 Date: 11/20/15  
 Method: Track Hoe  
 Contractor: Wilson County Personnel

Page: 1 of 1  
 Total Depth: 6.5 Feet  
 Boring Dia: NA  
 Field Rep: G. Babb

Sample Number	Depth	Description	Blow Count	Field Screen	Notes
A	1'	tan fine sandy clayey SILT	NA	NA	
B	2'	tan fine sandy clayey SILT			
C	4'	tan/orange silty fine sandy CLAY			
D	6'	tan/orange silty fine sandy CLAY			
	6.5'				water

Comments: Free water observed at 6.5'. May be perched water due to recent rains and lack of saturated soil encountered in test pit 2.



## Chao, Ming-tai

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**From:** Gary Babb <gbabb@nc.rr.com>  
**Sent:** Tuesday, November 24, 2015 10:34 AM  
**To:** Chao, Ming-tai; Andy Davis; Ritter, Christine; 'Robert Bartlett'  
**Subject:** Wilson County Compost Area Test Pits  
**Attachments:** Wilson Compost Test Pits.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Ming,

Please find attached correspondence, site map, and soil logs for two test pits excavated at the compost area for the Wilson County Solid Waste Facility last week. Please let me know if there are any questions regarding this information.

Also, we installed the three gas monitoring probes at the Westside C&D facility last week. I'm waiting for the Well Construction Records from the driller, you should see that information next week.

Thanks,  
Gary Babb

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Gary D. Babb, P.G.  
Babb & Associates, P.A.  
P.O. Box 37697  
Raleigh, NC 27627



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(919) 605-4719 mobile

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*Babb & Associates, P.A.*  
Environmental Compliance and Remediation

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