



Town of Pilot Mountain
Town Hall 124 West Main Street Pilot Mountain, NC 27041
Monday, January 13, 2020, 7:00 PM

BOARD OF COMMISSIONERS REGULAR MEETING AGENDA

Call to Order/Moment of Silence/Pledge of Allegiance

Adoption of Agenda

Enter Text Here

- [1.](#) Resolution Honoring East Surry High Cardinals

Public Comment

Anyone may speak on any issue. Before speaking, please state your name and address. Please limit comments to three minutes.

Consent Agenda

- [2.](#) Approval of Minutes

Board & Committee Reports

- [3.](#) ABC Board Monthly Report
- [4.](#) Surry County Tourism Partnership

Unfinished Business

- [5.](#) Main Street Maintenance
- [6.](#) Main Street Power Lines

New Business

- [7.](#) Landfill Rehabilitation Capital Project Ordinance Amendment
- [8.](#) FY 2020 Budget Amendment 3

Administrative Reports

- [9.](#) Town Manager and Staff Reports

Mayor and Commissioners Comments

Closed Session

Other Business

Adjourn

**RESOLUTION HONORING STATE CHAMPION EAST SURRY
HIGH SCHOOL CARDINALS**

WHEREAS, the East Surry High School Football team finished the regular season undefeated winning the Northwest 1A Conference Championship, and;

WHEREAS, the Team won three games to reach the NC High School Athletic Association 1AA State Championship Game, and;

WHEREAS, the Team won the 2019 NC High School Athletic Association 1AA State Championship by ending the long winning streak of the Tarboro Vikings with a 56-28 victory

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners that:

1. That the Town of Pilot Mountain recognizes the great accomplishments of the 2019 East Surry High School Cardinals and congratulates the team, its coaches, and the entire East Surry High School community on its State Championship Victory!

ADOPTED by the Board of Commissioners of the Town of Pilot Mountain this the 13th day of January 2020.

Attest:

Evan Cockerham, Mayor

Holly Utt, Town Clerk

**Town of Pilot Mountain
Board of Commissioners Meeting
Tuesday, December 3, 2019
Regular Meeting 7:00 PM**

Members Present: Mayor Evan Cockerham, Commissioner Kim Quinn, Commissioner Donna Kiger, Commissioner Hilda Willis and Commissioner Scott Needham.

Staff Present: Town Manager, Michael Boaz, Town Attorney, Ed Woltz and Town Clerk, Holly Utt

Call to order/Moment of Silence/Pledge of Allegiance – 7:00 PM

Mayor Cockerham called the meeting to order at 7:00 PM. All in attendance observed a moment of silence. Commissioner Quinn led the public in reciting the pledge of allegiance.

Adoption of Agenda

Commissioner Needham made a motion adopt the agenda as presented and it was unanimous.

Public Comment

No one present

Consent Agenda

- October 14, 2019 Regular Meeting Minutes
- October 17, 2019 Work Session Minutes

Commissioner Quinn made a motion to approve and adopt the consent agenda and the items there upon and it was unanimous.

ABC Board Report

Billy Pell stated that the ABC sales were up by 16.75% over October 2018. Total sales for the month was \$114,316 compared to \$96,511 in the previous year. He commended the customer service of store manager Paula Jones.

Unfinished Business

Personnel Policy Revision – Retiree Health Insurance

Mr. Boaz explained that the town eliminated the health insurance stipend for retirees in 2015. The proposed Personnel Policy amendment would provide a stipend of \$250/month to retirees who retire with full service, have been employed by the town for 28 years or longer, and the Town being their last employer. Commissioner Kiger made a motion to adopt the Personnel Policy Revision for Retiree Health Insurance and it was unanimous.

New Business

Resolution Honoring Service of Police Chief Darryl Bottoms

Mayor Cockerham read and presented a resolution to retired Police Chief Darryl Bottoms. Chief Bottoms retired with a total of 31 years in law enforcement. He was awarded his badge, service weapon and a key to the Town with his wife, Teresa Bottoms, and daughter, Macey Bottoms present.

Commissioner Willis made a motion to approve Resolution 2019/20-01, honoring the service of Police Chief Darryl Bottoms and it was unanimous.

Resolution Recognizing 10 Year Anniversary of ABC Store

A resolution was presented to recognize the 10 Year Anniversary of the ABC Store. The store opened in December 2009 and has steadily increased sales and turn a profit for the last several years. Commissioner Needham made a motion to adopt Resolution 201/20-3 and it was unanimous.

Landfill Rehabilitation Capital Project Ordinance Amendment

Mr. Boaz explained that this ordinance amendment would increase the authorized capital project budget by \$50K. He noted that this project is State funded and would not require any Town funds. Commissioner Needham made a motion to approve the Capital Project Ordinance Amendment 3 and it was unanimous.

Resolution Honoring the Service of Paula Jones

Paula Jones, manager of the ABC Store, was awarded a resolution recognizing her 10 years of outstanding service and customer service. Commissioner Needham made a motion to adopt Resolution 2019/20-2 and it was unanimous. Mayor Cockerham presented to Resolution to Paula Jones.

Resolution Declaring Property Surplus

Mr. Boaz stated that the Public Works Department had two vehicles that are not being used and he would like the Board to consider declaring them surplus. The 2014 F250 is no longer needed and if the need did arise they could purchase a smaller vehicle. The 2016 F750 dump truck is too big for the town's needs. Commissioner Kiger made a motion to adopt Resolution 2019/20-4 declaring surplus property and it was unanimous.

Administrative Reports

Town Manager's Report

- The Civic Club will have their 1st annual Chili Cook-off on Saturday, December 7th from 2-4 followed by the Christmas tree lighting and the Christmas parade at 6pm
- The Mistletoe Market will be held on Saturday, December 7th
- There has been a request for the Board to consider allowing chickens inside the city limits. Staff at the Pilot Center would like to add a class regarding chickens but it is not allowed by ordinance. Mr. Boaz stated that he could draft an ordinance but he wanted input from the Board. Commissioner Kiger stated that she would like to get public input because she has been approached from citizens wanting to have chickens and this it is currently allowed in some towns.

Commissioner Kiger asked about the status of the stream conservation easements. Attorney Woltz stated that the Board had approved 19 condemnations for those who did not respond. The 30 day notice letters have been sent. There has been one recorded and one needs to be executed by the Town. There are commitments from four others that they would sign for the offer and there are seven under negotiation. There are six complaints ready to file as soon as the 30 day time frame is up. Commissioner Kiger also asked about the water line easements for the inter-connect. Mr. Boaz stated that the town had at least half of them and are continuing to work with the property owners.

Mayor Cockerham asked about the noise ordinance: decibel levels and times enforced. Mr. Boaz stated that in residential zoning districts the limit from 7am-11pm is 55 decibels. In the general business districts it is 60 decibels and industrial districts it is 70. From 11pm-7am the decibel levels in residential are 45, business district 65 and in industrial districts 65. The town does have a decibel meter and can go out and measure if a complaint is called in.

Mayor and Commissioners Comments

Mayor Cockerham: Thanked Chief Bottoms for his service to the Town. It has been an honor being a part of his career and being able to work with him. It is very inspiring to the new and younger generation to see that kind of leadership.

Commissioner Quinn: Thanked Chief Bottoms and his department for their service. He has been an excellent leader for the Police Department for being approachable and community oriented.

Commissioner Needham: Congratulated the East Surry Volleyball team on their excellent season of 28-4 and also wished continued success to the East Surry High School football team.

Commissioner Kiger: Thanked Chief Bottoms for his service and for participating in the chili cook-off. She also mentioned that she has enjoyed serving on the Board for the past year. She wished everyone a Merry Christmas and peace and joy for the New Year.

Commissioner Willis: Thanked Chief Bottoms for his service. She has enjoyed being on the Board and looking forward to next year.

Other Business

No other business to discuss

Adjourn or Recess

Commissioner Willis made a motion to adjourn and it was unanimous.

Respectfully Submitted:

Attest:

Holly Utt
Town Clerk

Evan Cockerham
Mayor



TOWN OF PILOT MOUNTAIN
BOARD OF COMMISSIONERS MEETING

ABC Board Report	
<u>Background Information:</u>	
ABC Board Chairman Billy Pell will give the monthly ABC report.	
<u>Staff Recommendation:</u>	Information only
<u>Possible Board of Commissioner Actions</u>	
• Take no action	
<u>Attachments</u>	
• None	



TOWN OF PILOT MOUNTAIN
BOARD OF COMMISSIONERS MEETING

Surry County Tourism Partnership	
<u>Background Information:</u>	
Jessica Roberts will give a report on the Tourism Partnership	
<u>Staff Recommendation:</u>	Information only
<u>Possible Board of Commissioner Actions</u>	
• Take no action	
<u>Attachments</u>	
• None	



TOWN OF PILOT MOUNTAIN
BOARD OF COMMISSIONERS MEETING

Main Street Maintenance

Background Information:

As we reported at the special session in December, the Town will need to make a decision about the continuing maintenance of Main Street before the streetscape designs can be finalized. The Stormwater solution that WR has proposed is not acceptable to the NC DOT. Therefore if the Town would like to move forward with this solution, which will have lower construction costs than a more traditional solution, we will have to assume maintenance of some portion of Main Street.

The Board asked that staff conduct an evaluation of the storm drain facilities on Main Street that are outside of the project area. On the portion of Main Street from Academy east towards old US 52 there are 3 catch basins. Two are in the vicinity of the Presbyterian Church and these are in reasonably good condition. The cover at the Presbyterian Church needs some work, but otherwise seems to function properly. The other catch basin is in front of the Pilot Center. This is also in good condition. NC DOT has agreed that they will make any repairs that are necessary as a part of the resurfacing project.

We have worked out the scheduling of the resurfacing with NC DOT. Currently, the plan is to resurface the portion of Main Street from Academy to 52 Bypass this summer. The portion of Main Street from Key Street to 52 Bypass will be resurfaced in FY 2021. The NC DOT will agree to set aside funding for the paving of the portion of Main Street from Key Street to Academy and we can use this to complete the paving of this area once construction is completed.

At this point, I would recommend that the Board adopt the attached resolution that will give the Town's intent to take on ownership/maintenance of Main Street once resurfacing and any necessary repairs have been completed.

Staff Recommendation: Adopt attached resolution

Possible Board of Commissioner Actions

- Adopt Resolution of Intent to Assume Maintenance Responsibilities
- Make changes to resolution and adopt
- Deny approval of resolution
- Take no action

Attachments

- Resolution of Intent to Assume Maintenance Responsibilities
- Petition for Deletion

**RESOLUTION INDICATING INTENT TO TAKE OVER
OWNERSHIP/MAINTENANCE OF MAIN STREET**

WHEREAS, the Town of Pilot Mountain has filed the attached petition requesting that a 2.3 mile section of S.R. 1857 (E and W Main Street) be removed from the Secondary Road System, and;

WHEREAS, the Town intends to take over ownership and maintenance of this section of S.R. 1857 once the upcoming resurfacing projects have been completed, and;

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners that:

1. That the Town of Pilot Mountain asks that the Department of Transportation review the above described petition and abandon the 2.3 mile section of S.R. 1857 if it meets established standards and criteria.
2. That the Town of Pilot Mountain will assume ownership and maintenance of S.R. 1857 once the upcoming resurfacing projects have been completed.

ADOPTED by the Board of Commissioners of the Town of Pilot Mountain this the 13th day of January 2020.

Attest:

Evan Cockerham, Mayor

Holly Utt, Town Clerk



TOWN OF PILOT MOUNTAIN
BOARD OF COMMISSIONERS MEETING

Main Street Power Lines

Background Information:

As we reported at the special session in December, the Town will need to make a decision about what to do with the power lines on Main Street once the streetscape project gets underway. The two options that we have are to leave the transmission mains, those on the very top of the existing poles, on Main Street but to place them on 35 ft metal poles that match the other decorative poles. All other cables, lines, etc. would be buried. The other option would be to move the existing power lines on Main Street, Depot, and part of Marion Street to Pine Street. This option costs about \$500,000 more than the other option but would get all above ground lines off of Main Street. We would have to pay for the engineering for this up front, and this cost will approximately \$17,000-\$18,000.

We have about \$6,000 of designated fund balance, the amount generated by last year's Dinner on Main Street, available to help pay for this project. The remainder of this amount would be from general fund balance. We have about \$400,000 available in the general fund balance and this type of non-recurring expense is generally acceptable for the use of fund balance.

<u>Staff Recommendation:</u>	Approve authorizing power line design project
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Possible Board of Commissioner Actions

- Authorize Town Manager to approve power line design project
- Deny authorization
- Take no action

Attachments

- Duke Power Letter

Michael Boaz

From: Flythe, Jimmy <Jimmy.Flythe@duke-energy.com>
Sent: Thursday, January 9, 2020 4:09 PM
To: Michael Boaz
Cc: Warner, Gary
Subject: RE: Town of Pilot Mtn-Main Street Power Lines

Be advised: This email originated from outside of the Town of Pilot Mountain, NC.

Hi Michael,

Duke Energy, as requested by the Town of Pilot Mountain, can provide a proposed design of a project to relocate the existing 3-phase overhead primary electrical facilities along Main St. from Key St. to Academy St. to other locations. The current Duke Energy policy requires Duke Energy to be reimbursed for the anticipated engineering time to provide that cost. Last May our engineering team estimated it would take 272 hours of time to provide a design and detailed cost estimate. The amount as calculated for this proposed design cost is \$17,680. Here are the next steps to proceed. First, the Town will need to agree to the amount of \$17,680---notification to Duke Energy by email is acceptable. The Town would need to include the name of a contact person (the person who the bill should be sent to) including mailing address, phone number and email address. Duke Energy will then create a bill that will be sent to that contact person. Upon receipt of the payment, Duke Energy will then proceed with the design portion of the request. I cannot advise when the proposal will be available as we do not know at this time which group or person will be handling this project. Please note that the amount of \$17,680 is non-refundable if the Town decides not to pursue the project once the design is completed. (NOTE: Duke Energy cost quotes are only good for 90 days once quoted.) If the Town decides to pursue the project, in a timely manner, the engineering cost amount collected would be credited to the entire project's cost. The cost information provided above does not include any cost for the design of any decorative street or pedestrian lighting. The design for the relocation of the facilities along Main St to other areas will not include any cost of design proposals for the decorative street or pedestrian lighting either. Also, as we discussed last year, you will need to discuss relocation of non-Duke Energy facilities such as telephone and cable with those companies.

Please let me know if you need additional information.

Thanks,
Jimmy

Jimmy Flythe
Director - West Region
Government and Community Relations
Duke Energy Carolinas
500 Utility Dr/Clemmons, NC 27012
336-917-2580
Jimmy.Flythe@duke-energy.com

From: Michael Boaz <mboaz@pilotmountainnc.org>
Sent: Tuesday, January 7, 2020 9:58 AM
To: Flythe, Jimmy <Jimmy.Flythe@duke-energy.com>
Subject: Town of Pilot Mtn-Main Street Power Lines



TOWN OF PILOT MOUNTAIN
BOARD OF COMMISSIONERS MEETING

Landfill Rehabilitation Capital Project Ordinance Amendment	
<u>Background Information:</u>	
The Town has received grant funding to investigate and rehab the old Town landfill. The investigation phase of this project has been completed. This final budget amendment will balance this CP. I have attached the final report from the investigations that were done. From here, the NC DEQ will review the report and will add this site into the que for remediation work. This will be also be paid for by DEQ, but we don't yet know when that work will be completed.	
<u>Staff Recommendation:</u>	Staff recommends that the Board adopt this capital project amendment.
<u>Possible Board of Commissioner Actions</u>	
• Adopt capital project ordinance amendment • Deny approval of capital project ordinance amendment • Take no action	
<u>Attachments</u>	
• Capital Project Ordinance Amendment	

Town of Pilot Mountain, North Carolina

Landfill Rehabilitation Capital Project Ordinance

Amendment No. 4

BE IT ORDAINED by the Pilot Mountain Board of Commissioners that the Landfill Rehabilitation Capital Project Ordinance be amended as follows:

Revenues	-
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Increase	34-3000-1000 – DEQ-Division of Waste Management	\$17,261.48
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Total Increase	\$17,261.48
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EXPENDITURES	-
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Increase	34-7700-0100 – Engineering/Construction	\$17,261.48
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Total Increase	\$17,261.48
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Adopted this 13th day of January, 2020

Evan J Cockerham, Mayor

Holly Utt, Town Clerk

Explanation of Amendment:

1. To account for additional expenditures and grant revenue for landfill project.

REMEDIAL INVESTIGATION – FINAL SUMMARY

Pilot Mountain Refuse Disposal
NONCD0000583
Indigo Lane
Surry County
Task Order: 583SUM

December 17, 2019



Susan M. Buchanan, PG
Project Geologist/Report Author

A handwritten signature in blue ink that reads "Susan M. Buchanan".

Signature

Gregory B. Kuntz, LG
Senior Associate Scientist/QA/QC

A handwritten signature in blue ink that reads "Gregory B. Kuntz".

Signature



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LIST OF ACRONYMS

EPA:	Environmental Protection Agency
IHSB:	Inactive Hazardous Sites Branch
IMAC:	Interim Maximum Allowable Concentrations
MCL:	Maximum Contaminant Level
NC 2B:	North Carolina Title 15A NCAC Subchapter 2B Surface Water Quality Standards
NC 2L:	North Carolina Title 15A NCAC Subchapter 2L Groundwater Quality Standards
PSRG:	Preliminary Soil Remediation Goal
SRG:	Soil Remediation Goal
SVOC:	Semi-Volatile Organic Compound
VOC:	Volatile Organic Compound

1.0 INTRODUCTION

Schnabel Engineering South, P.C. (Schnabel) is pleased to present our Remedial Investigation – Final Summary report for Pilot Mountain Refuse Disposal (NONCD0000583) located on Indigo Lane in Pilot Mountain, North Carolina. This report was prepared in accordance with our Work Plan dated September 12, 2019, as authorized by the Town of Pilot Mountain Task Number 583SUM on November 19, 2019.

This summary report briefly describes the results of the remedial investigations that were required to delineate areas of concern at Pilot Mountain Refuse Disposal and their relevance to the implementation of a potential site remedy. This summary includes information from the Remedial Investigation – First Phase Report (December 13, 2017), Remedial Investigation – Contaminant Delineation (September 7, 2018), Remedial Investigation – Soil/Waste Sampling and Analysis of Subsurface Gas (June 12, 2019), and Wetland Delineation and Survey (September 12, 2019). Based on review by the North Carolina Department of Environmental Quality (NCDEQ) toxicologist, the soil remediation goals (SRG) will be the Inactive Hazardous Sites Branch's (IHSB) most recent preliminary soil remediation goals (PSRGs).

The remedial investigation estimated waste disposal perimeter is shown on Figure 1.

2.0 HISTORIC OPERATIONS AND DATA

The site is owned by the Town of Pilot Mountain and is located in Pilot Mountain, Surry County, North Carolina, and defined as the Tax Parcels 5966-00-94-3336 and 5966-16-94-0400. The landfill was operated by the Town of Pilot Mountain from about 1960 to 1973. The eastern portion of the disposal site is no longer in use, but the western portion (Tax Parcel 5966-16-94-0400) is used by the Pilot Mountain Rescue & EMS for a rescue squad training area.

3.0 GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

Pilot Mountain Refuse Disposal is located in the Piedmont physiographic province within the Inner Piedmont, Chauga Belt, Smith River Allochthon, and Sauratown Mountains Anticlinorium, characterized by metamorphic rock suites. According to the Geologic Map of North Carolina (NCDNRCD, 1985) the Pilot Mountain Refuse Disposal is underlain by Middle Proterozoic (1,192 million year old) megacrystic granitic gneiss (Yg) containing amphibolite. More specifically the rock types are quartz-feldspar gneiss, muscovite-feldspar gneiss, and minor muscovite schist (Dunn and Weigand, 1969).

The hydrogeologic unit underlying the property is the gneiss-schist hydrogeologic terrane. Typical median, nondomestic well yields for this classification is 12 to 40 gallons per minute (gpm) (Mesko et al., 1999). Precipitation infiltrates into the subsurface forming the water table typically within the saprolite overlying the bedrock. The groundwater typically migrates from areas of higher elevation and discharges to nearby streams.

According to the Soil Survey of Surry County (USDA-NRCS, 2007), the Pilot Mountain Refuse Disposal is comprised primarily of Fairview sandy clay loam (FeD2), Fairview-Stott Knob sandy loam (FsE), and

Fairview cobbly sandy clay loam (FnC2) originating from weathered gneiss. Fairview soils are considered well drained and are present along hillslope ridges and interfluves.

4.0 SENSITIVE ENVIRONMENTS

The following agencies were contacted per the North Carolina Department of Environmental Quality (NCDEQ) Guidelines for Addressing Old Landfills and Dumps by letter or email regarding the presence of sensitive environments within 500 feet of the Waste Disposal Areas. The response received by the agency is in parentheses.

- NC Division of Parks and Recreation – Natural Heritage Program (no response)
- National Park Service – Public Affairs Office (no response)
- NC Forest Service (No sensitive environments documented.)
- NC Division of Water Resources (no response)
- NC Division of Forest Resources (no response)
- US Fish & Wildlife Service (No sensitive environments documented.)
- NC Department of Natural and Cultural Resources (No sensitive environments documented.)
- NC Division of Coastal Management (No sensitive environments documented.)
- NC Wildlife Resources Commission (No sensitive environments documented.)
- US Army Corps of Engineers (No sensitive environments documented.)

A wetland delineation and survey task involved documenting and surveying wetlands within the disposal area. A wetland company located and delineated wetland areas in preparation of a Jurisdictional Determination (JD) and plat of jurisdictional waters as needed for subsequent 404-401 permitting of the landfill remediation plan. During the study, four wetland areas, four non-wetland areas, one perennial stream, and one ephemeral drainage channel were flagged.

The US Army Corps of Engineers (USACE) met with the wetland company at Pilot Mountain Refuse Disposal site on June 19, 2019, to verify whether the flagged wetland and non-wetland water areas are jurisdictional and to adjust the wetland boundaries as needed. The USACE provided the Notification of Jurisdictional Determination on July 3, 2019, noting a preliminary determination of the waters, including wetlands, as jurisdictional based on the site visit and desktop study. All areas flagged by the wetland company were surveyed by a professional surveyor. (Figure 2).

5.0 WASTE DISPOSAL AREA

5.1 Waste Disposal Boundary

5.1.1 Geophysical Survey

An electromagnetic (EM) induction survey was performed using a Geonics EM31-MK2 (EM31) instrument to evaluate the lateral extent of the buried waste. The interpretation of the lateral extent of waste within the geophysical survey area is based on both visual observations and geophysical data. Over much of

the disposal area, the terrain conductivity data shows very little variation (pink and orange colors, Figure 3), which is indicative of background conditions. The higher-conductivity (yellow, green, and blue colors, Figure 3) anomalies throughout the site are likely attributable to buried waste. The very low-conductivity anomalies (red color, negative values, Figure 3) are likely attributable to metal objects at the surface or buried below the ground surface.

Geophysical results indicated that metallic waste is present in the northern and southern sections of the disposal area.

5.1.2 Waste Boundary Soil Borings

Borings were advanced along the geophysical estimated waste disposal area boundary. Because the geophysical survey did not indicate waste in the central portion of the site, borings were not advanced in this location.

Twenty-two delineation borings (B-1 through B-22) were advanced near the approximate boundary of the waste disposal area. Few waste extent borings were advanced because the majority of both landfill cells had clear boundaries. On the northern cell, a steep natural slope was observed on the southern boundary, a scarp was observed on the eastern boundary, a pond was located on the western boundary, and a farm road was located along the northern boundary. Two additional borings B-10a and B-14a were advanced on the northern cell to better define the boundary of the waste disposal area. On the southern cell, very steep topography and difficult moving conditions prevented drill rig access, so the borings along the southwestern boundary were advanced using a hand auger. Visual observations of waste limits were also relied upon for determining boundaries. Visible waste mounds and natural ground boundaries were observed on the northern, southern, and eastern boundaries of the southern cell allowing borings and wells to be placed on the boundaries for confirmation.

Observation and description of the waste from the borings during the remedial investigations primarily consist of hard and soft plastic, fabric, clothing, wood, twine, and metal. The northern part of the disposal area varied in waste thickness from 4 to 13 feet, and the southern area varied in waste thickness from 2 to 7 feet. The soils are classified as brown to light brown moist Silt.

5.1.3 Waste Disposal Area Acreage Determination

Based on the waste extent soil borings, the disposal area was generally smaller than the area shown by the geophysical survey. Borings showed that waste extends onto Tax Parcel 5966-00-95-2592 to the north and Tax Parcel 5966-00-93-3683 on the southeastern part of the site. The geophysical survey indicated that waste is not present in the central area of the disposal site.

The estimated waste disposal area based on the geophysical investigation encompassed an area approximately 5.2 acres (black outlined areas in Figure 1). The final waste disposal acreage based on the soil boring investigation is approximately 4.0 acres in size (red outlined areas in Figure 1).

5.2 Soil Cover

Soil borings were used to determine thickness and composition of the existing cover soils. Three areas across the waste disposal area, two in the upper portion and one in the lower portion, had less than 18 inches of soil cover. The other parts of the disposal areas had cover soil ranging from about 2 to 5 feet below ground surface.

The cover soils were classified as orangish brown, brown, grayish brown and gray, moist to wet, Silt with Clay. The residual soils were classified as brown to light brownish gray, moist, Silt.

5.3 Physical Waste Hazards

Physical hazards such as hot spots, seeps, staining, and odors were not observed on the waste disposal area. Uneven terrain, hummocky topography, and steep slopes are present throughout the site.

Traversing through the site is difficult with dense vegetation (i.e. vines) in the north part of the site and fallen trees to heights of four to five feet in the southern part.

6.0 MEDIA CHARACTERIZATION

6.1 Soil

6.1.1 Borings

Soil borings were advanced to analyze constituents present in the soil cover, waste, and below the waste, and to determine the vertical extent of waste. The soil sampling results (cover soil and soil borings) are included in Table 1 and Figures 4 and 5 through 5C.

6.1.2 Sampling

Three areas, two in the upper portion and one in the lower portion of the disposal area, had less than 18 inches of soil cover (Figure 4). At borings where cover soil was greater than or equal to 6 inches, a soil sample was collected at 6 inches below ground surface (bgs). Where cover soil was greater than or equal to 2 feet, a soil sample was collected at 6 inches and 18 inches bgs. Cover soil samples were not collected if there was less than 6 inches of cover. Inorganics of arsenic, cadmium, hexavalent chromium, iron, manganese, selenium, and thallium, and semi-volatile organic compound (SVOC) benzo(a)pyrene exceeded SRGs (Figure 4) in the cover soil. The cover soil could contribute additional inorganics, VOCs, SVOCs, ammonia, nitrate, or sulfate to the buried waste.

Soil samples in borings were collected at various depths to determine concentrations within the waste and to determine the vertical extent of waste across the site. Borings were advanced to a maximum depth of 18 feet. The northern section varied in waste thickness from 4 to 13 feet, and the southern section varied in waste thickness from 2 to 7 feet. Laboratory results of the soil collected in soil borings indicated inorganics of antimony, arsenic, cadmium, hexavalent chromium, iron, lead, manganese,

mercury, selenium, and thallium; VOC benzene; and, SVOCs benzo(a)pyrene, pentachlorophenol, naphthalene, and n-Nitrosodimethylamine exceeded the SRGs (Figures 5 through 5C).

6.1.3 Sediments

Sediment samples were collected from the unnamed intermittent stream located along the eastern part of the site and the drainage ditch located along the north-central part of the waste disposal area (Table 2, Figure 6). Inorganics of arsenic, iron, manganese, selenium, and thallium exceeded the SRGs in the sediment samples.

The following TICs were detected in the sediment samples:

- 8260C: acetaldehyde, butanal, hexanal, pentanal, pentane, propanal, propene, Unknown 1 through 7.
- 8270D: cyclohexadane, eicosane, nonacosane, sitosterol, tetracosanal, tricosane, Unknown 1 through 3, Unknown aliphatic 1, and Vitamin e.

6.2 Waste

6.2.1 Types and Description

Waste types placed during the operational period included white goods, auto parts, tires, scrap metal debris, glass and plastic containers, concrete building materials, empty 55-gallon drums, and household appliances. Waste observed from the borings included hard and soft plastic, fabric, clothing, wood, twine, and metal.

6.2.2 Sampling

Waste visually observed in the ground surface and encountered in borings was not suspected to be asbestos-type waste material. Laboratory sampling for suspected asbestos waste material was not performed.

6.2.3 Water Supply Wells

Two private water supply wells are located within 500 feet and two private water supply wells are located within 1,000 feet of the waste disposal area. Two wells are located in an up-gradient direction to the east of the waste disposal area along Carson Road and one well is located in an up-gradient direction to the east of the waste disposal area on Indigo Lane. A fourth well is located along Carson Road to the northeast of the waste disposal area in an apparent cross-to up-gradient direction. The Water Source Survey Concentration Map shown on Figure 7 identifies residential properties within 1,000 feet of the Waste Disposal Area, which are also on private water supply wells.

The two water supply wells located within 500 feet of the waste disposal area perimeter were sampled. The following inorganics exceeded the NC2L Standards in Well #2 (149 Indigo Lane): chromium, iron, lead, and manganese (Table 3). Iron was below background concentrations. The USEPA MCL for iron is

a Secondary Standard for drinking water, which includes cosmetic and aesthetic effects in drinking water. As discussed further in Section 6.2.7, Shacklette and Boerngen (1984) notes that the median range of chromium in soils in the eastern United States is 1-1,000 mg/Kg, iron is 10-10,000 mg/Kg, lead is 10-300 mg/Kg, and manganese is 2-7,000 mg/Kg, suggesting it is possible that these inorganics detected in up-gradient Well #2 are natural occurring metals from soil dissolved in the groundwater.

6.2.4 Surface Water

An unnamed intermittent stream flows in a northwestward direction through the site (Figure 8) and is about five to ten feet in width. An unnamed drainage ditch, starting north of Indigo Lane, flows into the unnamed intermittent stream from the east. The unnamed drainage ditch is about five feet in width and was observed with flowing water during a field investigation. In addition, three ponds are located within 1,000 feet of the waste disposal area. The largest pond, which is about 1.6 acres in size, abuts the northwestern part of the northern waste disposal area. The second pond, which is about 0.3 acres in size, abuts the eastern boundary of the northern waste disposal area. The third pond, which is about 1.1 acres in size, is located to the southeast of the southern portion of the waste disposal area.

Surface water samples collected from the unnamed intermittent stream and the drainage ditch indicate iron exceeded the NC 2B standard (Table 4, Figure 9). However, the iron detected down gradient of the waste disposal area in the drainage ditch was similar in concentration to the iron detected up-gradient of the waste disposal area in the intermittent stream.

6.2.5 Groundwater Monitoring Wells

Seven temporary groundwater monitoring wells were installed from approximately 6 to 36 feet bgs (below ground surface) in the southern portion and 5 to 30 feet bgs in the northern portion of the disposal area. Groundwater analysis indicated inorganics of iron and manganese, the VOC toluene, and ammonia were above the NC 2L and/or EPA MCLs standards (Table 5, Figure 10).

6.2.6 Groundwater Flow Direction

Groundwater elevations in the Piedmont Province typically mimic the surface topography and flows from areas of higher topographic elevation to areas of lower elevation. Groundwater depth measured from the temporary groundwater monitoring wells ranges from about 3.0 to 17.05 feet bgs in the southern part, and about 2.7 to 18.05 feet bgs in the northern part of the site. Based on these observations, the groundwater is expected to flow to the northeast on the west side of the intermittent stream and to the northwest on the east side of the intermittent stream.

6.2.7 Naturally Occurring Inorganics

The inorganics detected within the disposal area soil and sediment that exceeded SRG's include antimony, arsenic, cadmium, hexavalent chromium, iron, lead, manganese, mercury, selenium, and thallium. Hexavalent chromium is not a naturally occurring metal.

The following references document the average concentrations of antimony, arsenic, cadmium, iron, lead, manganese, mercury, selenium, and thallium in soils within North Carolina and the conterminous United States.

- Shacklette and Boerngen (1984) document the concentration of antimony ranges from <1 to 8.8 mg/Kg with an average of 0.66 mg/Kg in the conterminous United States.
 - Five soil samples have antimony from 0.95 to 2.21 mg/Kg; which is above the SRG and the average concentration of antimony observed throughout the United States.
- Hardy and others (2008) note the average concentration of arsenic is 4.5 mg/Kg in North Carolina Soils.
 - Two soil samples, SB-10 (9 feet) and SB-11 (11 feet) have arsenic concentrations of 5.5 and 4.62 mg/Kg, respectively. These concentrations are above the SRG and slightly higher than the average concentration of arsenic in North Carolina soils.
- Concentrations of naturally occurring cadmium within the Mooresville Region of North Carolina (Alexander, Cabarrus, Cleveland, Catawba, Gaston, Iredell, Lincoln, Mecklenburg, Rowan, Stanly, and Union counties) is documented to be 0.54 to 5.8 mg/Kg (Connell, 1999). Hardy and others (2008) state that there is no notable occurrence of cadmium-bearing minerals in North Carolina and note the average concentrations of cadmium is 0.1 mg/Kg.
 - Soil samples contain cadmium (3.25 to 9.32 mg/Kg) that exceed the SRG and naturally occurring concentrations.
- Shacklette and Boerngen (1984) document the concentration of iron ranges from 10 to 10,000 mg/Kg, and Smith and others (2013) note the average concentration of iron is 21,900 mg/Kg in the conterminous United States.
 - Iron detected in all of the soil samples, and all, but two sediment samples, exceed the average concentration of iron in soils.
- Shacklette and Boerngen (1984) document the concentration of lead ranges from <10 to 700 mg/Kg with an average of 19 mg/Kg in the conterminous United States. Connell (1999) notes the range of lead in the Mooresville Region of North Carolina to be 7.2 to 52 mg/Kg, and Hardy and others (2008) state the average concentration of lead in North Carolina soils is 4.2 mg/Kg.
 - One soil sample, SB-11 (11 feet) has lead at 517 mg/Kg, above the SRG and naturally occurring background concentrations.
- Shacklette and Boerngen (1984) document the concentration of manganese ranges from 2 to 7,000 mg/Kg, and Smith and others (2013) indicate the average manganese concentration is 622 mg/Kg in the conterminous United States.
 - Eight soil samples and one sediment sample exceed the average manganese concentration of 622 mg/Kg. The highest concentration of manganese in the disposal area soils is 887 mg/Kg and in sediments is 650 mg/Kg.
- Shacklette and Boerngen (1984) document the concentration of mercury ranges from <0.01 to 4.6 mg/Kg with an average of 0.09 mg/Kg in the conterminous United States. Connell (1999) notes the range of mercury in the Mooresville Region of North Carolina to be <0.2 to 0.09 mg/Kg.

- One soil sample, SB-5 (10 feet) has mercury at 4.34 mg/Kg, above the SRG and naturally occurring concentrations.
- Hardy and others (2008) and Shacklette and Boerngen (1984) documented the background concentration of selenium in sediment to range from 0.2 to 3.9 mg/Kg, respectively.
 - The highest concentration of selenium in soils is 2.62 mg/Kg, which does not exceed the background concentration of selenium in sediment.
 - However, two sediment samples contain 7.2 to 8.9 mg/Kg of selenium that does exceed background.
- Smith and others (2013) indicate the range of concentration of thallium is 4.3 to 11.5 mg/Kg within the conterminous United States.
 - The highest concentration of thallium in soils is 2.23 mg/Kg at the site; thus, thallium is within naturally occurring concentrations.

6.3 Landfill Gas

6.3.1 Above Ground Survey

Above ground air screening conducted over the landfill did not identify concerns. There were no readings above zero for methane percent by volume and hydrogen sulfide. Methane by percent LEL was 0%, except for one hole location that was 3%. Carbon dioxide ranged from 0% to 1.7% by volume and oxygen readings ranged from 16.8% to 21.2%. VOCs were 0.0 ppm, except for one exposed soil location was 9.0 ppm.

6.3.2 Subsurface Vapors

Three gas probes were installed to a depth ranging from 12 to 15 feet bgs (Table 6, Figure 11). Two rounds of gas monitoring was performed: the first round provided methane percent by volume from 0% to 0.3%, methane LEL from 0% to 6%; carbon dioxide from 4.3% to 7.4% by volume; hydrogen sulfide was 0% by volume; oxygen readings from 7.3% to 19.4%; and, VOCs from 0.0 to 0.2 ppm. The second round of readings included methane percent by volume ranged from 0% to 1.3%; methane LEL ranged from 0% to greater than 25%; carbon dioxide ranged from 6.4% to 9.4% by volume; hydrogen sulfide was 0%; oxygen readings ranged from 3.8% to 15.5%; and, VOCs ranged from 0.0 to 0.1 ppm.

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This report was prepared specifically for the use of the Town of Pilot Mountain and the NCDEQ Inactive Hazardous Sites Branch under our contract dated July 21, 2016, as defined in the scope of work for Task Order 583SUM. Use of this document for other purposes or by other parties is at the sole risk of the user.

Table 1
Soil Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	PSRG	PSRG	SB-1 (0.5 ft)	SB-1 (1.5 ft)	SB-1 (4 ft)	SB-1 (8 ft)	SB-1 (11 ft)	SB-2 (0.5 ft)	Duplicate-2	SB-2 (1.5 ft)	SB-2 (5 ft)	SB-2 (8-9 ft)
Matrix:	Residential Limit	Groundwater Limit	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Note:			Cover	Cover	Top of Waste	Bottom of Waste	Native	Cover	-	Cover	Top of Waste	Bottom of Waste
Sample Date:			3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019
EPA 3060A/7196A												
Hexavalent Chromium	0.31	3.8	ND	4.70	ND	ND	ND	1.43 J	ND	ND	ND	ND
Metals 7471B												
Mercury	2.3	1.0	0.0798	0.0452	0.0705	0.0737	0.0775	0.113	0.136	0.0450 J	0.0901	0.0742
Metals 6020B												
Antimony	6.3	0.9	ND	ND	ND	ND	ND	0.492 J	ND	ND	0.252 B, J	0.257 B, J
Arsenic	0.68	5.8	1.03	2.61	2.44	2.08	1.10	2.63	2.47	2.19	2.25	1.79
Cadmium	14	3.0	ND	ND	ND	0.177 J	0.370 J	5.45	3.25	0.766	1.01	0.486 J
Iron	11,000	150	45,700	61,000	56,000	52,200	36,800	42,200	36,500	47,800	43,500	41,600
Lead	NA	270	16.6	16.4	18.1	20.1	12.3	102	124	40.5	62.6	23.1
Manganese	380	65	454	361	331	379	437	887	668	630	611	474
Selenium	78	2.1	0.618 J	1.92	1.67	1.24	0.677 J	1.36	1.14	1.17	1.64	1.09
Thallium	0.16	0.28	0.311 J	0.339 J	0.354 J	0.356 J	0.298 J	0.619 J	0.426 J	0.571 J	0.396 J	0.399 J
Volatile Organic Compounds 8260D												
Benzene	1.2	0.01	0.000776 J	ND	ND	ND	ND	ND	ND	0.000752 J	ND	0.000690 J
Semi-volatile Organic Compounds 8270E												
Benzo(a)pyrene	0.11	0.12	ND	ND	ND	ND	ND	ND	0.226 J	0.0105 J	ND	ND
Naphthalene	4.1	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	0.002	0.0000034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.0	0.0083	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Units in mg/Kg Dry

Preliminary Soil Remediation Goals (PSRGs), February 2018.

Bold Font: Sample concentration greater than the limit.

B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable; the reported value is an estimate.

J3: The associated batch QC was outside the established quality control range for precision.

J4: The associated batch QC was outside the established quality control range for accuracy.

J5: The sample matrix interfered with the ability to make any accurate determination; spike value is high.

J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low.

O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix

P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

V: The sample concentration is too high to evaluate accurate spike recoveries.

Table 1
Soil Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	PSRG	PSRG	SB-2 (10 ft)	SB-3 (0.5 ft)	SB-3 (1.5 ft)	SB-3 (6 ft)	SB-3 (9-10 ft)	SB-4 (0-1 ft)	SB-4 (4-5 ft)	SB-4 (9-10 ft)	SB-5 (0.5 ft)	SB-5 (1.5 ft)	SB-5 (5 ft)
Matrix:	Residential Limit	Groundwater Limit	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Note:			Native	Cover	Top of Waste	Bottom of Waste	Native	Top of Waste	Bottom of Waste	Native	Cover	Cover	Top of Waste
Sample Date:			3/6/2019	3/7/2019	3/7/2019	3/7/2019	3/7/2019	3/7/2019	3/7/2019	3/7/2019	3/5/2019	3/5/2019	3/5/2019
EPA 3060A/7196A													
Hexavalent Chromium	0.31	3.8	ND	1.23 J	0.954 J	ND	ND	ND	4.29	ND	1.23 J	ND	ND
Metals 7471B													
Mercury	2.3	1.0	0.0678	0.0401	0.0597	ND	ND	0.166	0.139	ND	0.565	0.0372	0.288
Metals 6020B													
Antimony	6.3	0.9	0.676 B, J	ND	ND	ND	ND	0.406 B, J	ND	ND	ND	ND	ND
Arsenic	0.68	5.8	3.14	1.68	2.46	1.35	1.72	3.21	4.01	2.57	1.79	2.05	1.77
Cadmium	14	3.0	0.296 J	0.334 J	0.595 J	0.330 J	ND	0.303 J	ND	ND	0.392 J	ND	1.74
Iron	11,000	150	45,200	50,000	37,100	23,000	20,900	35,100	64,700	43,500	60,100	51,800	53,000
Lead	NA	270	48.8	23.5	24.7	21.4	13.8	238	24.3	6.86	22.1	11.8	35.5
Manganese	380	65	426	698	415	229	322	467	268	727	613	601	728
Selenium	78	2.1	1.84	1.38	1.82	0.994	0.939	0.769	1.43	1.89	1.02	2.30	0.900
Thallium	0.16	0.28	0.490 J	0.541 J	0.325 J	0.271	0.325 J	0.261 J	0.433 J	0.745	0.358 J	0.343 J	0.356 J
Volatile Organic Compounds 8260D													
Benzene	1.2	0.01	0.00101 J	ND	0.000750 J	ND	ND	ND	0.000598 J	ND	0.00309	0.00401	0.00358
Semi-volatile Organic Compounds 8270E													
Benzo(a)pyrene	0.11	0.12	ND	ND	ND	ND	ND	ND	0.229	ND	ND	ND	0.0112 J
Naphthalene	4.1	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.111
n-Nitrosodimethylamine	0.002	0.0000034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.0	0.0083	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Units in mg/Kg Dry

Preliminary Soil Remediation Goals (PSRGs), February 2018.

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J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low.

O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix

P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

V: The sample concentration is too high to evaluate accurate spike recoveries.

Table 1
Soil Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	PSRG	PSRG	SB-5 (10 ft)	SB-6 (0.5 ft)	SB-6 (1.5 ft)	SB-6 (4-5 ft)	SB-6 (9 ft)	SB-6 (14-17 ft)	SB-7 (0.5 ft)	SB-7 (1.5 ft)	SB-7 (3-4 ft)	SB-7 (8 ft)	SB-7 (10 ft)
Matrix:	Residential Limit	Groundwater Limit	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Note:			Waste	Cover	Cover	Top of Waste	Waste	Bottom of Waste	Cover	Cover	Top of Waste	Bottom of Waste	Native
Sample Date:			3/5/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019
EPA 3060A/7196A													
Hexavalent Chromium	0.31	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.91 J	ND
Metals 7471B													
Mercury	2.3	1.0	4.34	0.0849	0.131	0.0792	0.143	0.380	0.107	0.0279	0.0748	0.0972	0.168
Metals 6020B													
Antimony	6.3	0.9	ND	0.271 B, J, J6	0.248 B, J	0.322 B, J	0.450 B, J	0.520 B, J	ND	ND	ND	0.522 J, J6	ND
Arsenic	0.68	5.8	2.56	2.27 O1	4.35	2.47	3.13	3.39	1.22	1.18	1.22	2.54 O1	2.68
Cadmium	14	3.0	1.02	0.194 J	ND	1.80	3.46	1.10	0.260 J	0.109 J	0.414 J	0.931	1.06
Iron	11,000	150	51,700	55,100 O1, V	92,700	63,500	42,700	44,400	21,200	24,400	25,400	38,900 J3, O1, V	50,700
Lead	NA	270	30.1	18.7	26.7	27.7	102	104	18.6	15.3	21.6	86.7 J3, J6	66.2
Manganese	380	65	461	297 J5	364	509	349	246	304	268	278	304 J6	357
Selenium	78	2.1	1.20	1.30	2.46	1.17	0.648 J	0.482 J	0.931	0.515 J	0.763	1.32 J3	0.766
Thallium	0.16	0.28	0.356 J	1.10	0.422 J	0.453 J	0.295 J	0.247 J	0.241 J	0.315 J	0.244 J	1.30 O1	0.350 J
Volatile Organic Compounds 8260D													
Benzene	1.2	0.01	0.00527	ND	ND	0.00760	0.0936	0.613	0.000800 J	0.00143	0.00122 J	0.00187	0.00184
Semi-volatile Organic Compounds 8270E													
Benzo(a)pyrene	0.11	0.12	0.0273 J	ND	ND	ND	0.0137 J	0.104	ND	ND	ND	ND	0.0110 J
Naphthalene	4.1	0.39	0.125	ND	ND	ND	0.0484	0.0943	ND	ND	ND	ND	0.0131 J
n-Nitrosodimethylamine	0.002	0.0000034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.0	0.0083	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.243 J

Notes:

Units in mg/Kg Dry

Preliminary Soil Remediation Goals (PSRGs), February 2018.

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J: The identification of the analyte is acceptable; the reported value is an estimate.

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J4: The associated batch QC was outside the established quality control range for accuracy.

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J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low.

O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix

P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

V: The sample concentration is too high to evaluate accurate spike recoveries.

Table 1
Soil Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	PSRG	PSRG	SB-8 (0.5 ft)	Duplicate-3	SB-8 (1.5 ft)	SB-8 (4 ft)	SB-8 (8 ft)	SB-8 (11-12 ft)	SB-9 (0.5 ft)	SB-9 (1.5 ft)	SB-9 (4-5 ft)	SB-10 (0.5 ft)	SB-10 (1.5 ft)
Matrix:	Residential Limit	Groundwater Limit	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Note:			Cover	-	Cover	Top of Waste	Bottom of Waste	Native	Cover	Cover	Top of Waste	Cover	Cover
Sample Date:			3/7/2019	3/7/2019	3/7/2019	3/7/2019	3/7/2019	3/7/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019
EPA 3060A/7196A													
Hexavalent Chromium	0.31	3.8	1.45 J	ND	2.19 J	5.83 J6, O1	7.95	2.19 J	ND	ND	ND	ND	ND
Metals 7471B													
Mercury	2.3	1.0	0.0616	0.0777	0.0750	0.0570	0.0572	0.0257 J	0.101	0.0761	0.0623	0.100	0.121
Metals 6020B													
Antimony	6.3	0.9	ND	ND	ND	0.398 B, J	0.642 B, J, J6	ND	ND	0.430 B, J	1.11 B	ND	ND
Arsenic	0.68	5.8	1.83	1.63	2.43	3.27	2.89	1.91	1.82	3.02	2.27	2.59	2.89
Cadmium	14	3.0	0.198 J	0.347 J	0.449 J	1.79	1.18 O1	0.202 J	0.207 J	0.824	1.32	0.375 J	0.377 J
Iron	11,000	150	36,400	30,800	38,100	50,300	42,400	59,200	46,800	60,000	51,600	61,000 B	64,400 B
Lead	NA	270	27.4	23.1	23.5	35.6	30.0	13.7	77.3	24.1	33.7	30.1	23.1
Manganese	380	65	395	591	185	215	201 J5	673	553	335	423	549	412
Selenium	78	2.1	0.968	1.08	0.851	1.10	1.28	1.70	1.18	2.62	1.70	2.33	1.85
Thallium	0.16	0.28	0.344 J	0.347 J	0.331 J	0.372 J	1.55 O1	0.687	0.279 J	2.23	0.881	0.466 J	0.503 J
Volatile Organic Compounds 8260D													
Benzene	1.2	0.01	ND	ND	ND	ND	ND	ND	ND	ND	0.00207	0.00165 J	ND
Semi-volatile Organic Compounds 8270E													
Benzo(a)pyrene	0.11	0.12	ND	ND	ND	ND	ND	ND	0.206	0.0414 J	0.00851 J	ND	ND
Naphthalene	4.1	0.39	ND	ND	ND	ND	ND	ND	ND	0.0132 J	ND	ND	ND
n-Nitrosodimethylamine	0.002	0.0000034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.0	0.0083	ND	ND	ND	ND	ND	ND	ND	ND	0.0853 J	ND	ND

Notes:

Units in mg/Kg Dry

Preliminary Soil Remediation Goals (PSRGs), February 2018.

Bold Font: Sample concentration greater than the limit.

B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable; the reported value is an estimate.

J3: The associated batch QC was outside the established quality control range for precision.

J4: The associated batch QC was outside the established quality control range for accuracy.

J5: The sample matrix interfered with the ability to make any accurate determination; spike value is high.

J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low.

O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix

P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

V: The sample concentration is too high to evaluate accurate spike recoveries.

Table 1
Soil Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	PSRG	PSRG	SB-10 (4 ft)	SB-10 (9 ft)	SB-10 (14 ft)	SB-10 (15 ft)	SB-10 (17 ft)	SB-11 (0.5 ft)	SB-11 (1.5 ft)	SB-11 (6 ft)	SB-11 (11 ft)	SB-11 (13-14 ft)	SB-12 (0.5 ft)
Matrix:	Residential Limit	Groundwater Limit	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Note:			Top of Waste	Waste	Waste	Bottom of Waste	Native	Cover	Top of Waste	Waste	Bottom of Waste	Native	Cover
Sample Date:			3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/7/2019
EPA 3060A/7196A													
Hexavalent Chromium	0.31	3.8	ND	3.13	3.94	ND	ND	ND	ND	ND	ND	ND	1.06 J
Metals 7471B													
Mercury	2.3	1.0	0.154	0.176	0.0992	0.0606	0.104	0.106	0.0946	0.259	0.243	0.0205 J	0.0655
Metals 6020B													
Antimony	6.3	0.9	1.03 B	2.21 B	0.319 B, J	0.260 B, J	0.570 B, J	ND	0.234 B, J	0.364 B, J	1.15 B	ND	ND
Arsenic	0.68	5.8	3.23	5.50	3.13	1.40	2.33	2.70	3.77	3.75	4.62	1.34	1.94
Cadmium	14	3.0	1.39	9.32	0.316 J	0.320 J	1.62	0.174 J	0.351 J	0.491 J	3.36	0.434 J	0.248 J
Iron	11,000	150	43,700	68,700	27,300	19,700	23,600	64,500	67,800	59,500	77,500	16,000	43,700
Lead	NA	270	110	246	37.3	13.2	62.3	27.4	65.4	67.7	517	24.4	24.7
Manganese	380	65	446	495	114	150	137	552	479	368	476	103	686
Selenium	78	2.1	1.11	0.850	0.571 J	1.35	ND	2.21	1.64	1.35	1.20	0.785	1.74
Thallium	0.16	0.28	0.330 J	0.296 J	0.227 J	0.544 J	0.169 J	0.482 J	0.485 J	0.429 J	0.457 J	0.183 J	0.433 J
Volatile Organic Compounds 8260D													
Benzene	1.2	0.01	0.00195	0.0174	0.00168	ND	0.00371	ND	ND	0.00891	0.0203	0.00124	ND
Semi-volatile Organic Compounds 8270E													
Benzo(a)pyrene	0.11	0.12	ND	ND	ND	ND	0.00969 J	ND	ND	ND	ND	ND	ND
Naphthalene	4.1	0.39	ND	ND	0.0281 J	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	0.002	0.0000034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.0	0.0083	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Units in mg/Kg Dry

Preliminary Soil Remediation Goals (PSRGs), February 2018.

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O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix

P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

V: The sample concentration is too high to evaluate accurate spike recoveries.

Table 1
Soil Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	PSRG	PSRG	SB-12 (1.5 ft)	SB-12 (4 ft)	SB-12 (9 ft)	SB-13 (0.5 ft)	SB-13 (1.5 ft)	SB-13 (2-3 ft)	SB-13 (6 ft)	Duplicate-1	SB-14 (0.5 ft)	SB-14 (1-2 ft)	SB-14 (5 ft)
Matrix:	Residential Limit	Groundwater Limit	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Note:			Cover	Top of Waste	Waste	Cover	Cover	Top of Waste	Waste	-	Cover	Top of Waste	Waste
Sample Date:			3/7/2019	3/7/2019	3/7/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019
EPA 3060A/7196A													
Hexavalent Chromium	0.31	3.8	3.07	5.10	3.77	ND	ND	4.83	ND	ND	0.895 J	ND	ND
Metals 7471B													
Mercury	2.3	1.0	0.0528	0.0771	0.125	0.200	0.0951 B	0.318	0.0405 B	0.235	0.178	0.350	0.268
Metals 6020B													
Antimony	6.3	0.9	ND	0.248 B, J	0.950 B	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	0.68	5.8	2.05	2.66	2.70	1.54	1.87	2.38	1.41	2.00	2.88	2.31	1.67
Cadmium	14	3.0	0.143 J	0.478 J	1.39	0.160 J	0.132 J	0.288 J	ND	ND	0.173 J	0.678	ND
Iron	11,000	150	43,500	48,400	51,200	33,400	37,100	45,600	53,500	30,200	57,600	51,200	23,700
Lead	NA	270	28.6	21.1	58.3	20.7	18.3	84.5	9.75	16.4	17.5	98.8	23.4
Manganese	380	65	522	409	424	410	372	436	297	257	294	455	275
Selenium	78	2.1	2.05	1.53	0.911	1.70	2.33	2.10	1.08	1.55	1.14	1.36	1.52
Thallium	0.16	0.28	0.445 J	0.431 J	0.385 J	0.281 J	0.307 J	0.366 J	0.326 J	0.230 J	0.367 J	0.317 J	0.297 J
Volatile Organic Compounds 8260D													
Benzene	1.2	0.01	ND	ND	0.000939 J	0.00137 J	0.000965 J	0.00109 J	0.00105 J	0.000803 J	0.00105 J	0.000613 J	0.00129 J
Semi-volatile Organic Compounds 8270E													
Benzo(a)pyrene	0.11	0.12	ND	ND	ND	ND	0.00793 J	0.0167 J	0.0130 J	0.00756 J	ND	ND	ND
Naphthalene	4.1	0.39	ND	ND	ND	ND	ND	ND	ND	0.0122 J	ND	ND	0.0288 J
n-Nitrosodimethylamine	0.002	0.0000034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.130 J
Pentachlorophenol	1.0	0.0083	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Units in mg/Kg Dry

Preliminary Soil Remediation Goals (PSRGs), February 2018.

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O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix

P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

V: The sample concentration is too high to evaluate accurate spike recoveries.

Table 1
Soil Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	PSRG	PSRG	SB-14 (8 ft)	SB-14 (10 ft)	SB-15 (0.5 ft)	SB-15 (1-2 ft)	SB-15 (4-5 ft)	SB-16 (0.5 ft)	SB-16 (1.5 ft)	SB-16 (2-3 ft)	SB-16 (5 ft)	SB-16 (6-7 ft)	SB-16 (9 ft)
Matrix:	Residential Limit	Groundwater Limit	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Note:			Bottom of Waste	Native	Top of Waste	Bottom of Waste	Native	Cover	Cover	Top of Waste	Waste	Bottom of Waste	Native
Sample Date:			3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019	3/5/2019
EPA 3060A/7196A													
Hexavalent Chromium	0.31	3.8	1.88 J	ND	ND	ND	ND	1.02 J	ND	ND	ND	ND	ND
Metals 7471B													
Mercury	2.3	1.0	0.262	0.0951	0.0728	0.0755	0.0434	0.113 B	0.275	0.361	0.0841 B	0.0612 B	0.0628 B
Metals 6020B													
Antimony	6.3	0.9	0.484 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	0.68	5.8	3.44	2.26	1.07	2.39	1.36	1.97	2.00	1.87 O1	0.787	1.66	1.99
Cadmium	14	3.0	0.713	0.328 J	0.110 J	0.198 J	ND	ND	0.156 J	0.351 J	0.119 J	ND	ND
Iron	11,000	150	39,600	43,500	35,800	33,400	29,700	47,200	47,400	53,900	22,500	27,300	32,900
Lead	NA	270	44.2	17.9	14.0	29.1	10.7	18.4	25.9	46.0	13.4	12.6	11.3
Manganese	380	65	355	541	334	433	565	504	471	501	299	281	287
Selenium	78	2.1	1.41	0.738 J	0.702	0.981	0.476 J	1.33	1.52	1.16 J6	0.632 J	0.868	1.63
Thallium	0.16	0.28	1.62	1.14	0.265 J	0.298 J	0.262 J	0.432 J	0.436 J	0.391 J	0.191 J	0.233 J	0.419 J
Volatile Organic Compounds 8260D													
Benzene	1.2	0.01	0.00365	0.00118 J	0.00185	0.00173	0.00164	0.000819 J	0.00111 J	0.00118 J	0.00144 J	0.000632 J	0.000710 J
Semi-volatile Organic Compounds 8270E													
Benzo(a)pyrene	0.11	0.12	ND	ND	ND	0.00731 J	ND	0.0108 J	0.00811 J	ND	ND	ND	ND
Naphthalene	4.1	0.39	0.101	0.486 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	0.002	0.0000034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.0	0.0083	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Units in mg/Kg Dry

Preliminary Soil Remediation Goals (PSRGs), February 2018.

Bold Font: Sample concentration greater than the limit.

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P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

V: The sample concentration is too high to evaluate accurate spike recoveries.

Table 2
Sediment Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	PSRG Residential Limit	PSRG Groundwater Limit	SD-1	Duplicate-2 (Duplicate of SD-1)	SD-2	SD-3 ⁽¹⁾	SD-4	SD-5	SD-6
Matrix:			Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Sampled Date:			3/22/2018	3/22/2018	3/22/2018	3/22/2018	3/22/2018	3/22/2018	3/22/2018
Metals 6020B/7471B									
Arsenic	0.68	5.8	0.39 J	0.63 J	0.83 J	0.95 J	3.1 J	1.4 J	0.62 J
Iron	11,000	150	7,600 B	8,200 B	15,000 B	20,000 B	79,000 B	40,000 B	17,000 B
Manganese	380	65	87	140	240	230	650	560	230
Selenium	78	2.1	1.4	1.6	2.6	2.9	8.9	7.2	2.8
Thallium	0.16	0.28	0.060 J	0.063 J	0.12 J	0.17 J	0.38 J	0.37 J	0.18 J
8260B TICS									
Acetaldehyde	12	NA	ND	ND	ND	ND	ND	0.033	ND
Butanal	NA	NA	ND	0.014	0.038	0.048	0.057	0.059	ND
Hexanal	NA	NA	0.031	0.039	0.067	0.10	0.40	0.32	0.11
Pentanal	NA	NA	ND	0.0079	ND	0.022	ND	0.13	0.035
Pentane	NA	NA	ND	ND	ND	ND	0.13	0.047	ND
Propanal	NA	NA	ND	ND	ND	ND	ND	0.044	ND
Propene	NA	NA	ND	ND	ND	ND	ND	0.038	ND
Unknown 1	NA	NA	0.011	0.012	0.0080	0.019	0.11	ND	0.0080
Unknown 2	NA	NA	0.013	ND	0.018	ND	0.055	ND	0.010
Unknown 3	NA	NA	ND	ND	0.016	ND	0.046	ND	ND
Unknown 4	NA	NA	ND	ND	ND	ND	0.058	ND	ND
Unknown 5	NA	NA	ND	ND	ND	ND	0.099	ND	ND
Unknown 6	NA	NA	ND	ND	ND	ND	0.048	ND	ND
Unknown 7	NA	NA	ND	ND	ND	ND	0.030	ND	ND
8270D TICS									
Cyclohexadane	NA	NA	ND	ND	ND	ND	ND	0.63	ND
Eicosane	NA	NA	0.72	0.83	0.62	ND	ND	ND	0.79
Nonacosane	NA	NA	ND	0.46	ND	ND	1.8	0.58	0.78
Sitosterol	NA	NA	ND	0.64	ND	0.92	ND	2.1	1.5
Tetracosanal	NA	NA	ND	ND	ND	ND	ND	ND	0.77
Tricosane	NA	NA	ND	ND	ND	ND	ND	0.75	ND
Unknown 1	NA	NA	ND	0.47	ND	ND	5.3	0.59	1.1
Unknown 2	NA	NA	ND	ND	ND	ND	2.4	0.55	0.84
Unknown 3	NA	NA	ND	ND	ND	ND	ND	ND	0.58
Unknown aliphatic 1	NA	NA	ND	ND	ND	ND	ND	0.68	ND
Vitamin e	NA	NA	ND	ND	ND	ND	ND	0.88	0.59

Notes:

Units in mg/Kg Dry

¹: Background

J: Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

B: Analyte is found in the associated blank at a concentration >1/2 RL.

NA: Not Available, ND: Not Detected

Preliminary Soil Remediation Goals (PSRGs), February 2018

Bold Font: Sample concentration greater than the limit.

Table 3
Water Supply Well Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	NC 2L / IMAC	EPA MCL	Well #2, 149 Indigo Lane
Matrix:			Groundwater
Sampled Date:			4/20/2018
Metals 6020B/7470A			
Chromium	10	100	21
Iron	300	NA	4,800
Lead	15	15	15
Manganese	50	NA	81

Notes:

Units in µg/L

J: Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

NA: Not Available, ND: Not Detected

Title 15A NCAC Subchapter 2L Groundwater Quality Standards, Amended April 1, 2013.

NC 2L Interim Maximum Allowable Concentrations (IMAC) Amended as of April 1, 2013.

Environmental Protection Agency (EPA) National Primary Drinking Water Regulations Maximum
Contaminant Levels (MCL), May 2009

Bold Font: Sample concentration greater than the limit.

Table 4
Surface Water Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	NC 2L / IMAC	NC 2B	SW-3 ⁽¹⁾	SW-4
Matrix:			Surface Water	Surface Water
Sampled Date:			3/22/2018	3/22/2018
Metals 6020B/7470A				
Iron	300	1,000	1,000	1,100

Notes:

Units in µg/L

¹: Background

J: Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag)

NA: Not Available, ND: Not Detected

Title 15A NCAC Subchapter 2L Groundwater Quality Standards, Amended April 1, 2013.

NC 2L Interim Maximum Allowable Concentrations (IMAC) Amended as of April 1, 2013.

NC 2B: Title 15A NCAC Subchapter 2B Surface Water Quality Standards, June 30, 2016

*: For Class C, the most stringent column for Human Health or Freshwater Aquatic Life was used.

Bold Font: Sample concentration greater than the limit.

Table 5
Groundwater Constituents
Pilot Mountain Refuse Disposal
NONCD0000583

Sample ID:	NC 2L / IMAC	EPA MCL	TW-1	TW-2	TW-4	TW-10	TW-12	Duplicate-2 (Duplicate of TW-12)	TW-15	TW-18
Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sampled Date:			4/18/2018	4/18/2018	4/18/2018	4/19/2018	4/19/2018	4/19/2018	4/19/2018	4/20/2018
Volatile Organic Compounds										
Toluene	600	1.0	ND	ND	ND	0.61 J	ND	0.54 J	0.50 J	3.6
Metals 6020A-B										
Iron	300	NA	11,000	490	760	100	4,000	4,100	120	310
Manganese	50	NA	580	41	170	1,100	880	900	160	54
SM19-22 4500 NH3 C										
Ammonia	1,500	NA	17 J	15 J	25 J	10 J	2,500	2,200	11 J	9.0 J

Notes:

Units in µg/L

J: Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

HT: Lab exceeded hold time on Nitrate

NA: Not Available, ND: Not Detected

Title 15A NCAC Subchapter 2L Groundwater Quality Standards, Amended April 1, 2013.

NC 2L Interim Maximum Allowable Concentrations (IMAC) Amended as of April 1, 2013.

Environmental Protection Agency (EPA) National Primary Drinking Water Regulations Maximum Contaminant Levels (MCL), May 2009.

Bold Font: Sample concentration greater than the limit.

Table 6
Landfill Gas Results
Pilot Mountain Refuse Disposal
NONCD0000583

Gas Probe ID	Date Collected	Oxygen, O ₂ (%)	Carbon Dioxide, CO ₂ (% by Volume)	Methane, CH ₄ (% by Volume)	Methane, CH ₄ (% LEL)	Hydrogen Sulfide, H ₂ S (% by Volume)	VOCs (ppm)
GP-1	3/7/2019	19.4	2.3	0.3	6.0	0.0	0.0
GP-7	3/7/2019	7.3	7.4	0.0	0.0	0.0	0.0
GP-16	3/7/2019	15.8	4.3	0.0	0.0	0.0	0.2

Notes:

Methane, carbon dioxide, oxygen, and barometric pressure measured with a Landtec Gem 2000+

VOC: Total Volatile Organic Compounds measured with a Mini RAE 2000

LEL: Lower Explosive Limit

PPM: Parts Per Million

Gas Probes with 2% Change in Reading

Gas Probe ID	Time Collected	Oxygen, O ₂ (%)	Carbon Dioxide, CO ₂ (% by Volume)	Methane, CH ₄ (% by Volume)	Methane, CH ₄ (% LEL)	Hydrogen Sulfide, H ₂ S (% by Volume)	VOCs (ppm)
GP-1	2:24	15.5	6.6	1.3	25.0	0.0	0.0
GP-7	2:30	3.8	9.4	0.0	0.0	0.0	0.0
GP-16	2:15	12.7	6.4	0.0	0.0	0.0	0.0
Background	2:35	21.7	0.0	0.0	0.0	0.0	0.1

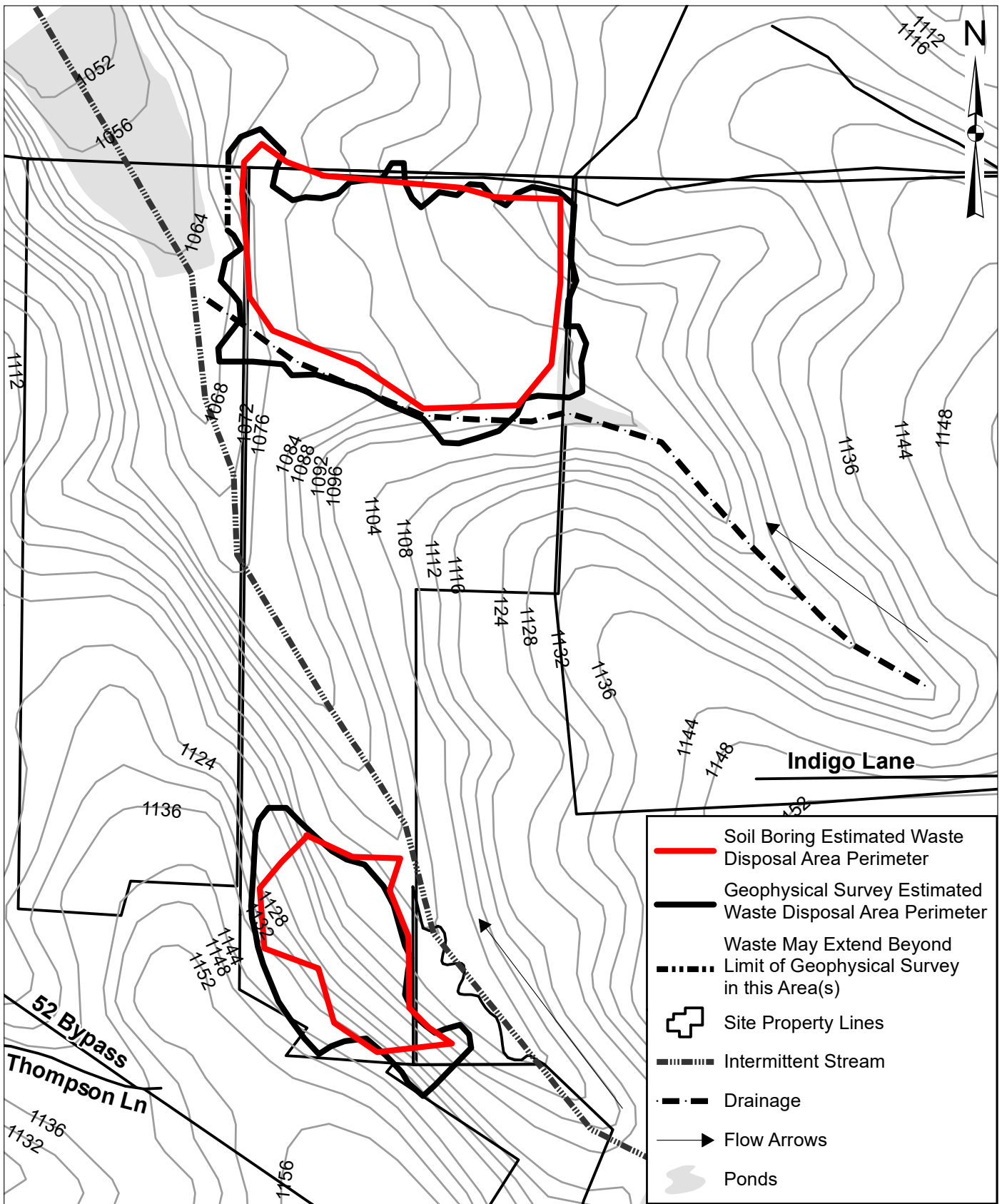
Notes:

Methane, carbon dioxide, oxygen, and barometric pressure measured with a Landtec Gem 2000+

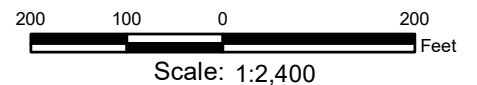
VOC: Total Volatile Organic Compounds measured with a Mini RAE 2000

LEL: Lower Explosive Limit

PPM: Parts Per Million

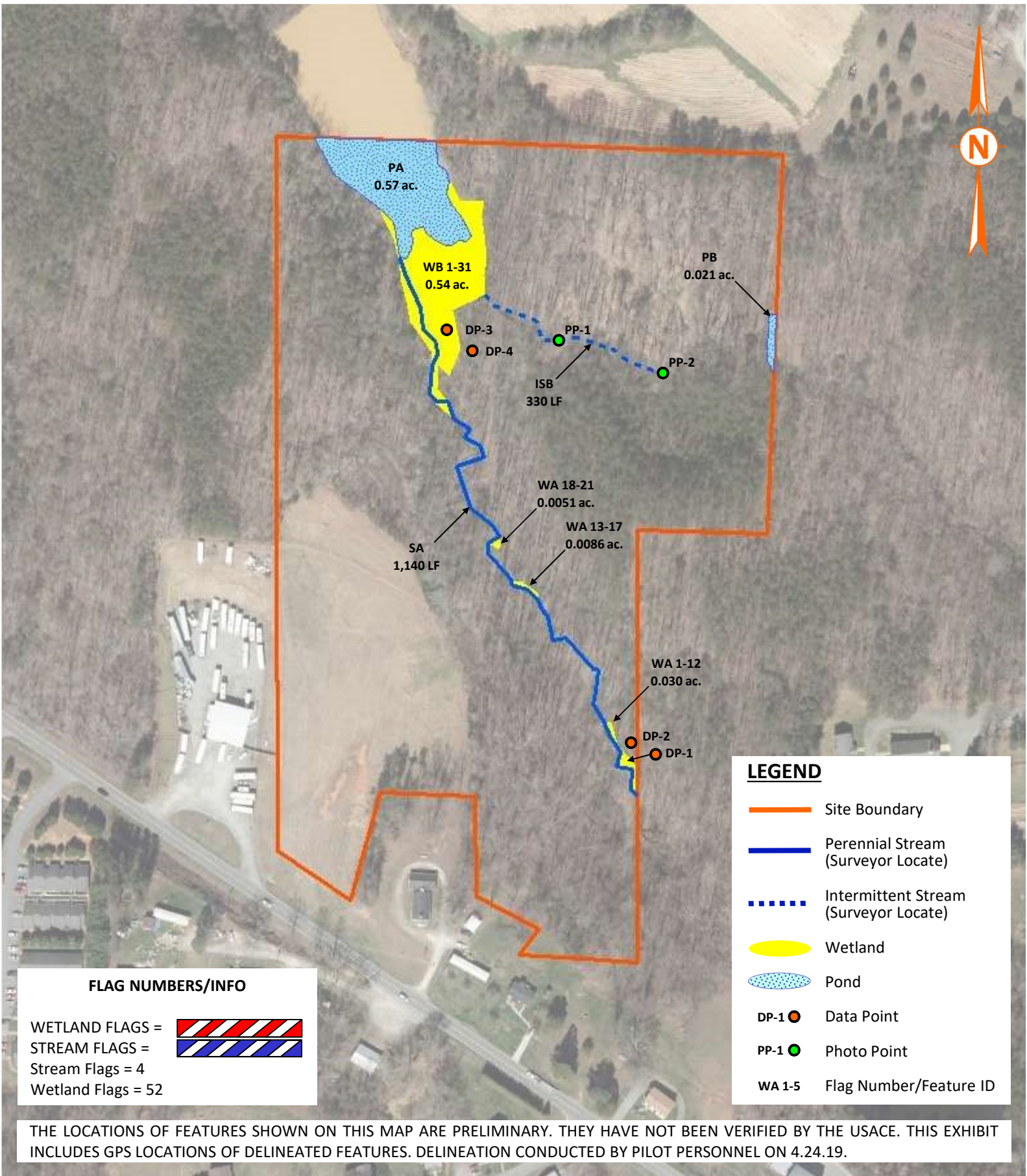


Source: Surry County GIS
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet
 Contour interval: 4 ft



PILOT MOUNTAIN REFUSE DISPOSAL
 NONCD0000583
 SURRY COUNTY, NORTH CAROLINA
 TASK ORDER: 583SUM

SITE MAP



Drawing 5

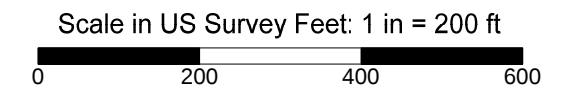
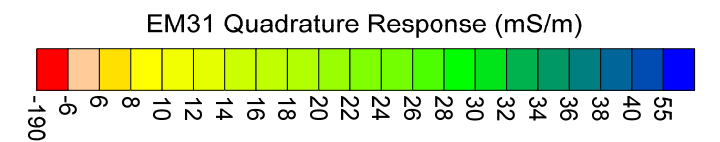
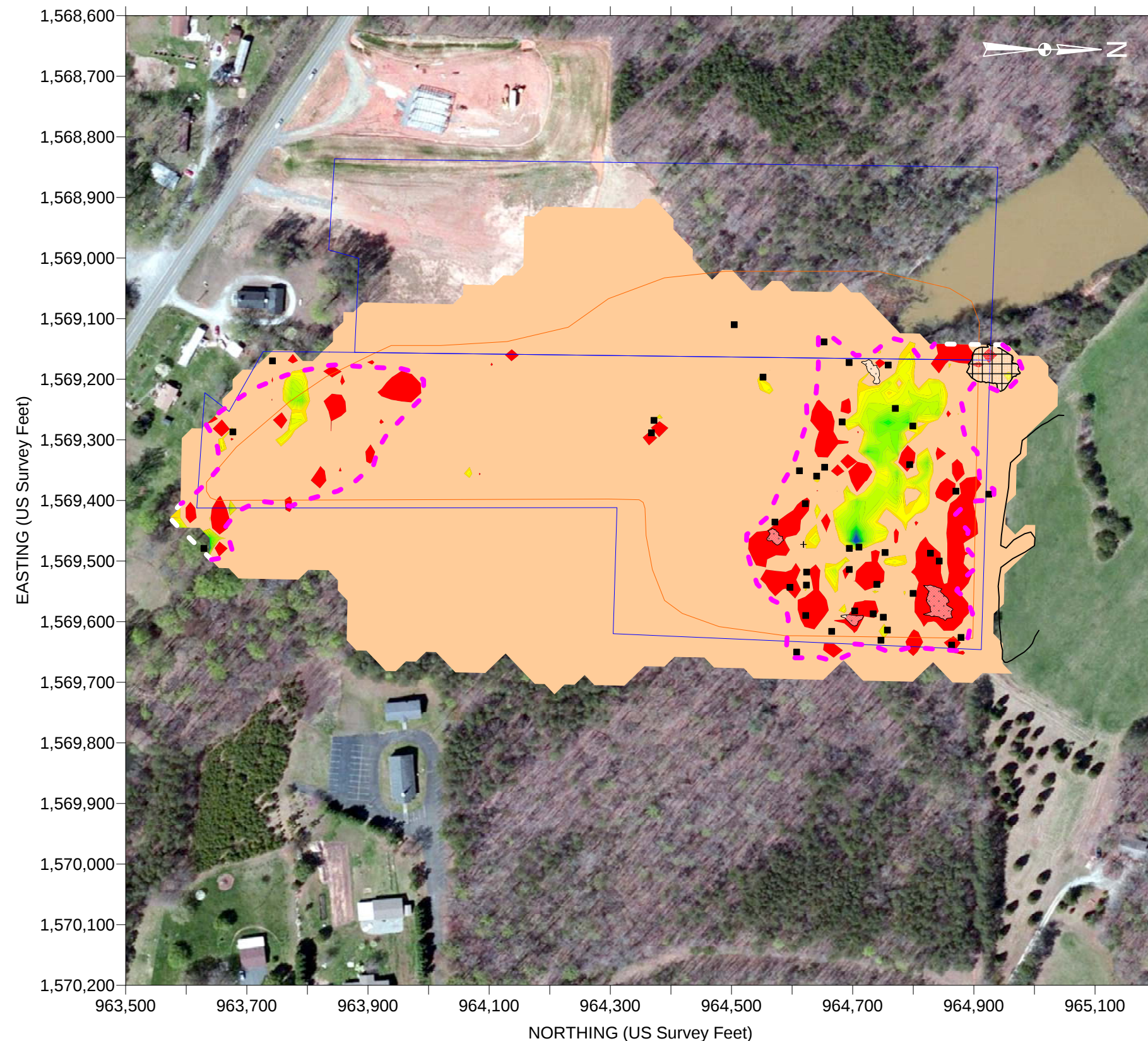
2018 Aerial Imagery from ESRI
 and Pilot GPS Data
 Scale: 1" = 200'
 Date: 4.25.19
 Revised: 6.19.19



Wetland Map

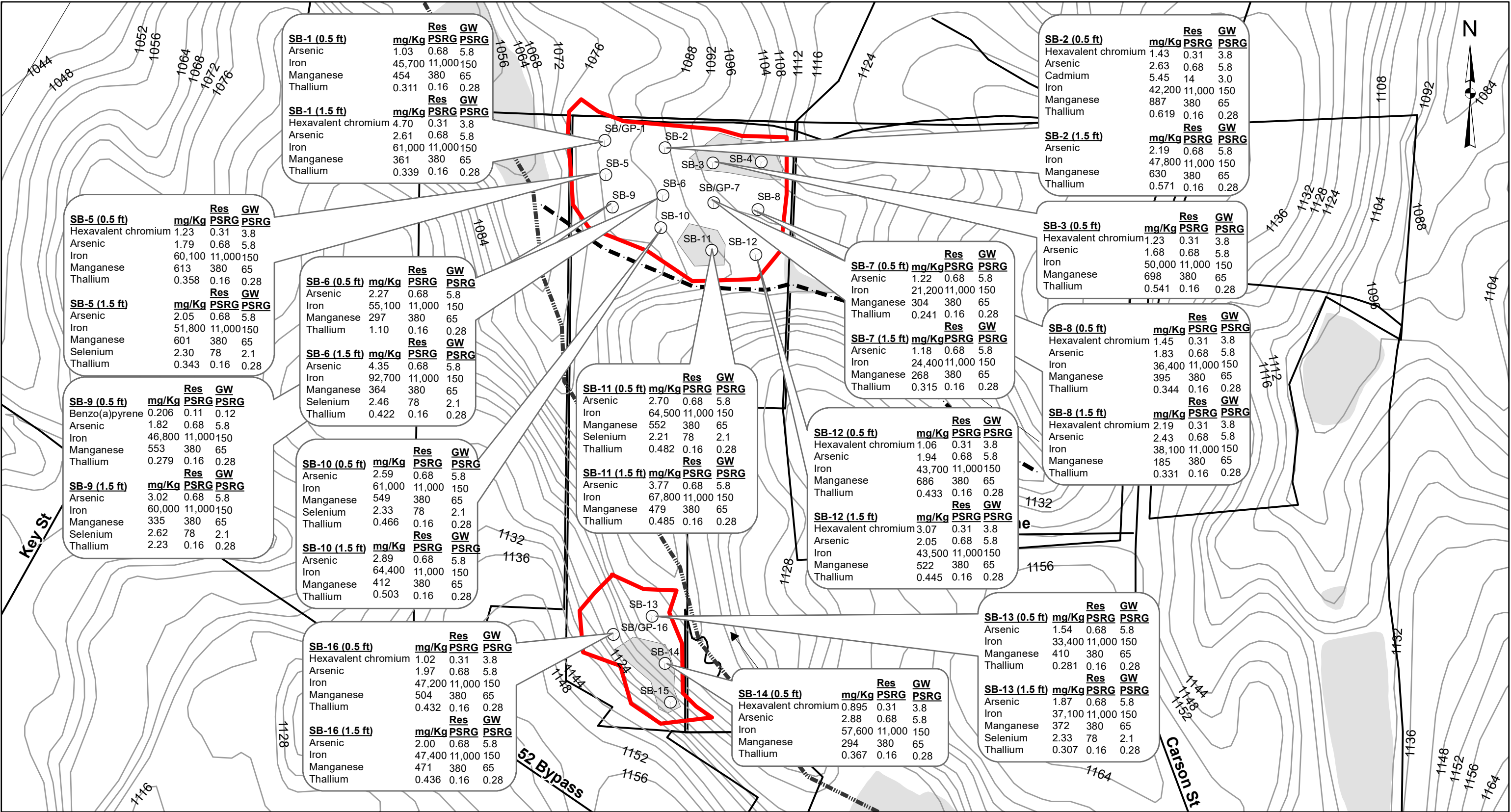
Pilot Mountain Refuse Dump
 Approximate 19-Acre
 Pilot Mountain, Surry Co, NC
 Pilot Project 4418

Figure 2



EXPLANATION	
	PROPERTY LINES
	GEOPHYSICAL SURVEY ESTIMATED WASTE DISPOSAL AREA PERIMETER
	INITIAL SUSPECTED WASTE BOUNDARY
	METALLIC OBJECT
	AREA CONTAINING METALLIC OBJECTS
	AREA CONTAINING METALLIC OBJECTS AND CONCRETE

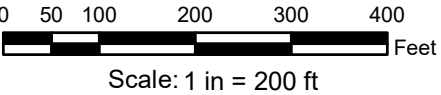
Note: The contour plot shows the EM-31 conductivity data (in milliSiemens/meter) that were acquired in the vertical dipole mode. The EM data were collected between October 19 and November 1, 2017, using a Geonics EM-31 Terrain Conductivity Meter. Positioning for the EM survey was provided using a submeter Trimble ProXRT DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina 3800 Zone, using the NAD 1983 datum.



Legend

- Borings/Gas Probes
- Soil Boring Estimated Waste Disposal Area Perimeter
- Flow Arrows
- Intermittent Stream
- Drainage
- Roads
- Cover Thickness Less Than 18"
- Ponds
- Site Property Lines

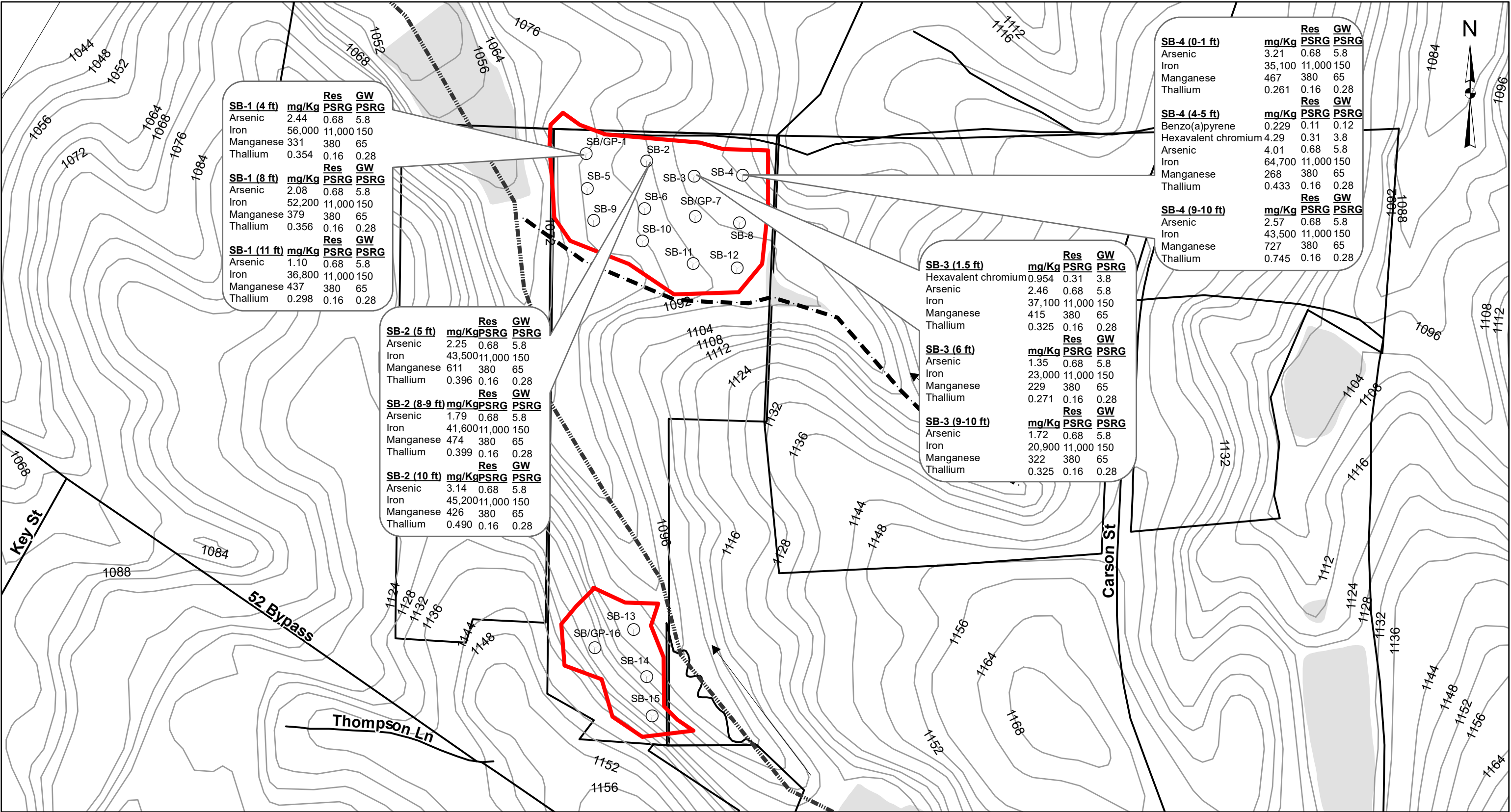
Source:
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet



PILOT MOUNTAIN REFUSE DISPOSAL
NONCD0000583
SURRY COUNTY, NORTH CAROLINA

TASK ORDER: 583SUM

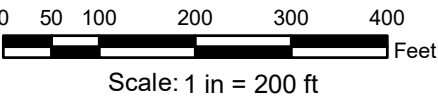
COVER SOILS THICKNESS
AND CONCENTRATION



Legend

- Borings/Gas Probes
- Intermittent Stream
- Soil Boring Estimated Waste Disposal Area Perimeter
- Drainage
- Flow Arrows
- Roads
- Ponds

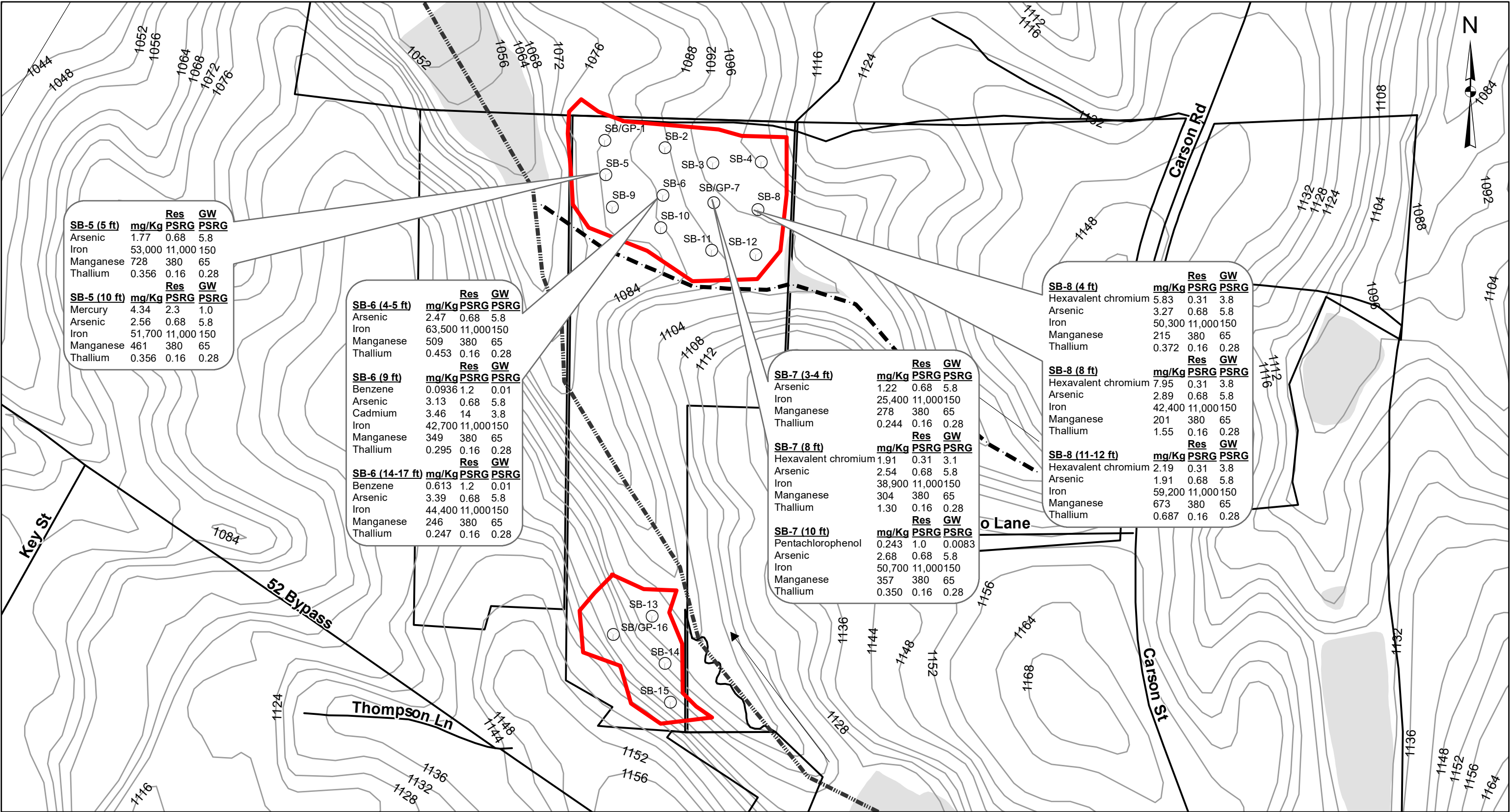
Source:
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet



PILOT MOUNTAIN REFUSE DISPOSAL
NONCD0000583
SURRY COUNTY, NORTH CAROLINA

TASK ORDER: 583SUM

SOIL/WASTE
CONCENTRATION



Legend

- Borings/Gas Probes
- Soil Boring Estimated Waste Disposal Area Perimeter
- Flow Arrows
- Intermittent Stream
- Drainage
- Roads
- Ponds

Source:
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet

0 50 100 200 300 400 Feet

Scale: 1 in = 200 ft

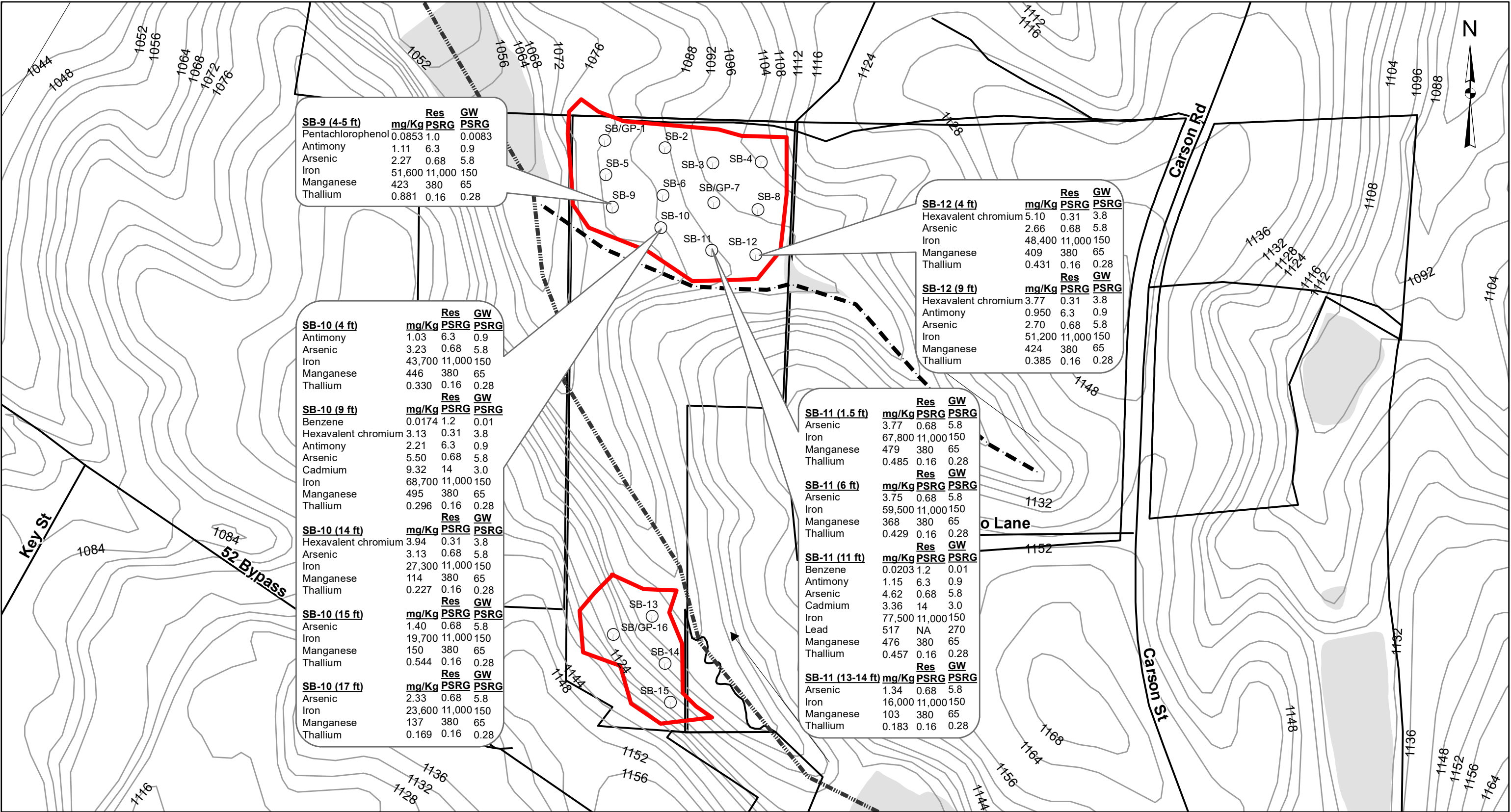
PILOT MOUNTAIN REFUSE DISPOSAL
NONCD0000583
SURRY COUNTY, NORTH CAROLINA

TASK ORDER: 583SUM

SOIL/WASTE CONCENTRATION

45

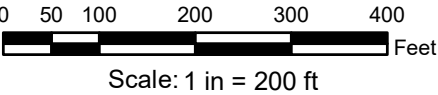
FIGURE 5A



Legend

- Borings/Gas Probes
- Intermittent Stream
- Soil Boring Estimated Waste Disposal Area Perimeter
- Drainage
- Flow Arrows
- Roads
- Ponds

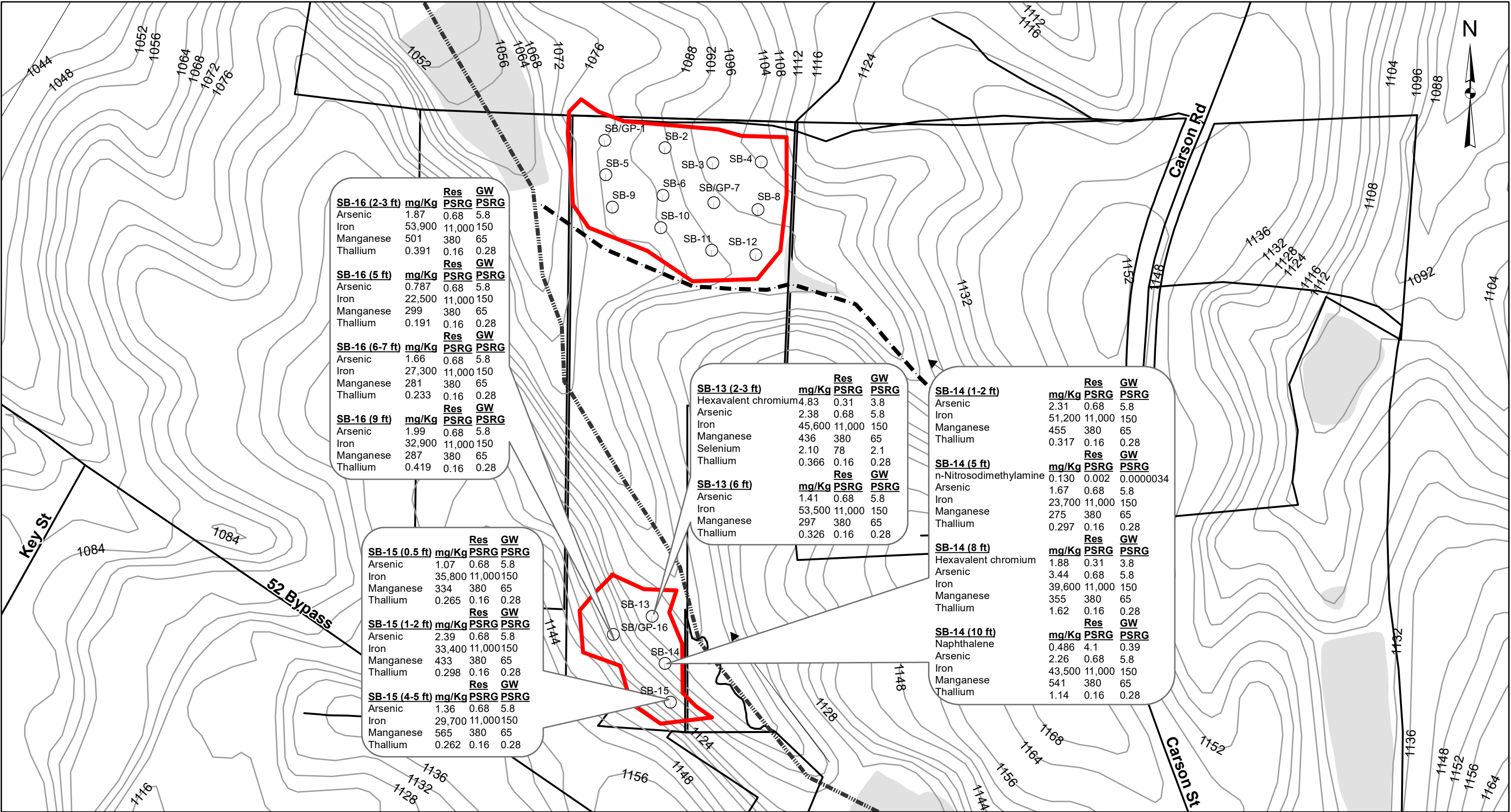
Source:
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet



PILOT MOUNTAIN REFUSE DISPOSAL
NONCD0000583
SURRY COUNTY, NORTH CAROLINA

TASK ORDER: 583SUM

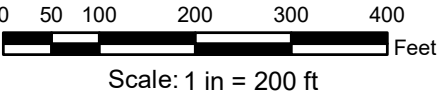
SOIL/WASTE
CONCENTRATION



Legend

- Borings/Gas Probes
- Intermittent Stream
- Soil Boring Estimated Waste Disposal Area Perimeter
- Drainage
- Flow Arrows
- Roads
- Ponds

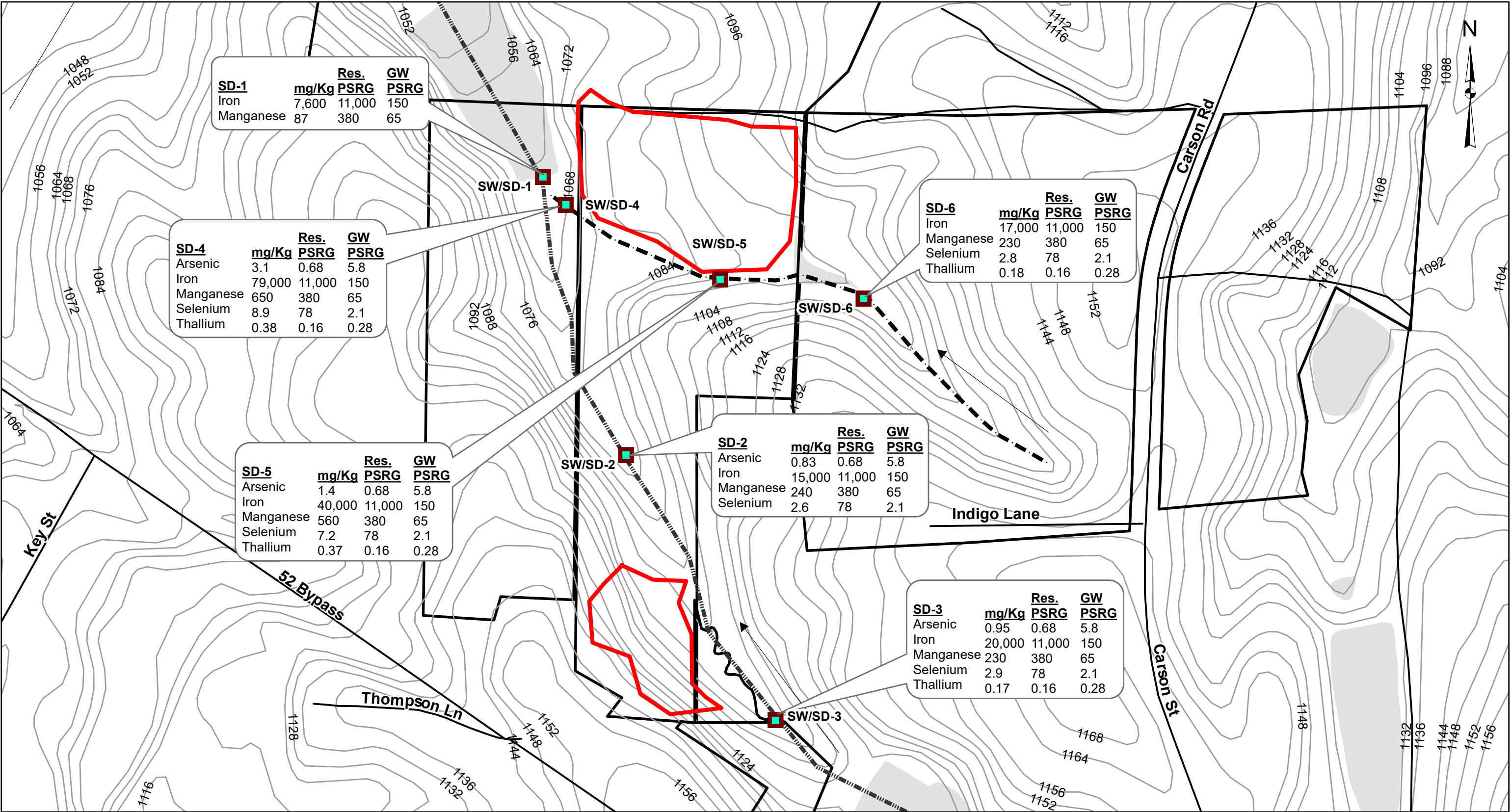
Source:
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet



PILOT MOUNTAIN REFUSE DISPOSAL
NONCD0000583
SURRY COUNTY, NORTH CAROLINA

TASK ORDER: 583SUM

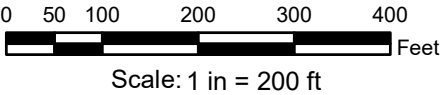
SOIL/WASTE
CONCENTRATION



Legend

- Surface Water and Sediment Locations
- Soil Boring Estimated Waste Disposal Area Perimeter
- Flow Arrows
- Intermittent Stream
- Drainage
- Ponds
- Site Property Lines

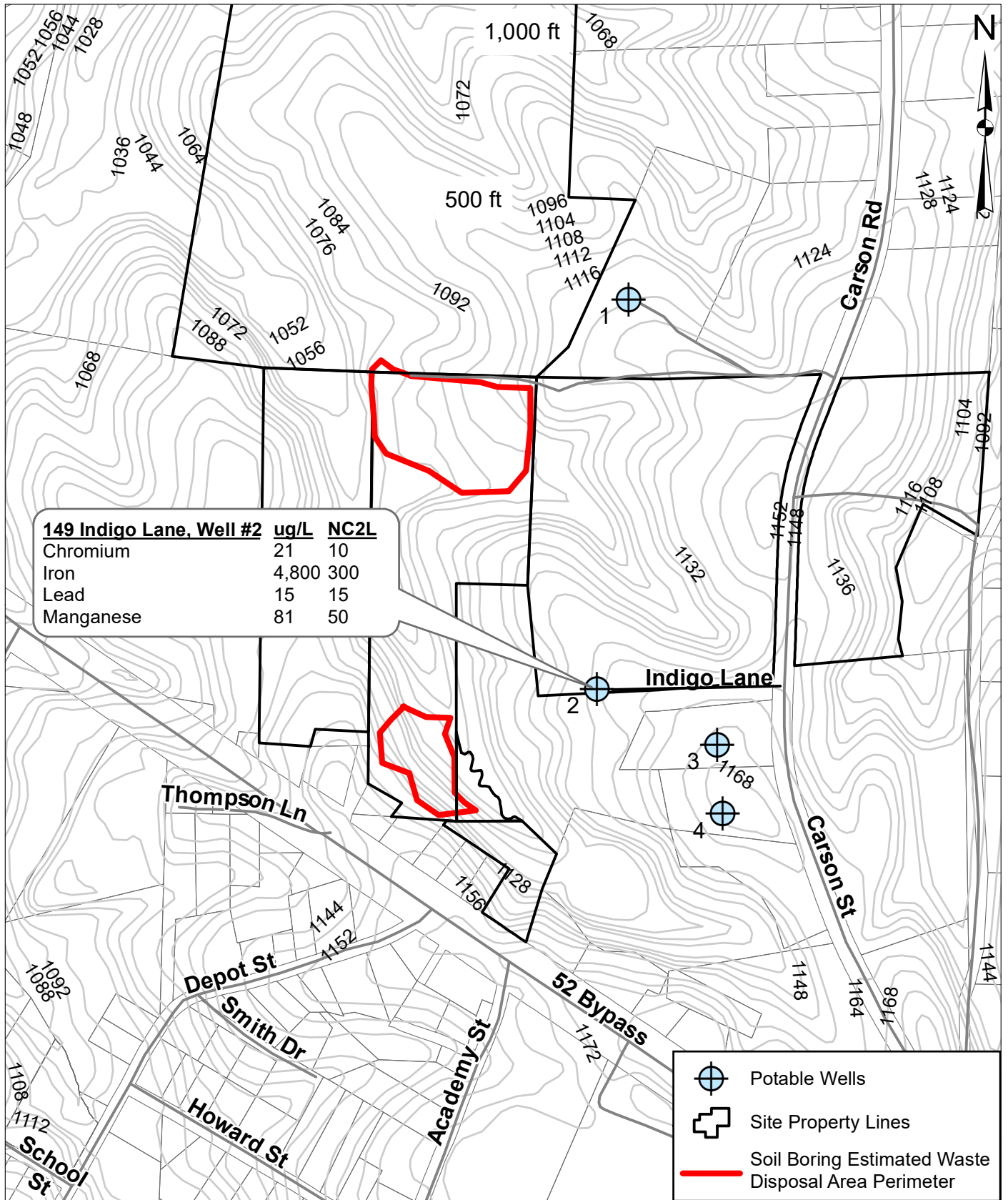
Source: Surry County GIS
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet



PILOT MOUNTAIN REFUSE DISPOSAL
NONCD0000583
SURRY COUNTY, NORTH CAROLINA

TASK ORDER: 583SUM

SEDIMENT
CONCENTRATION

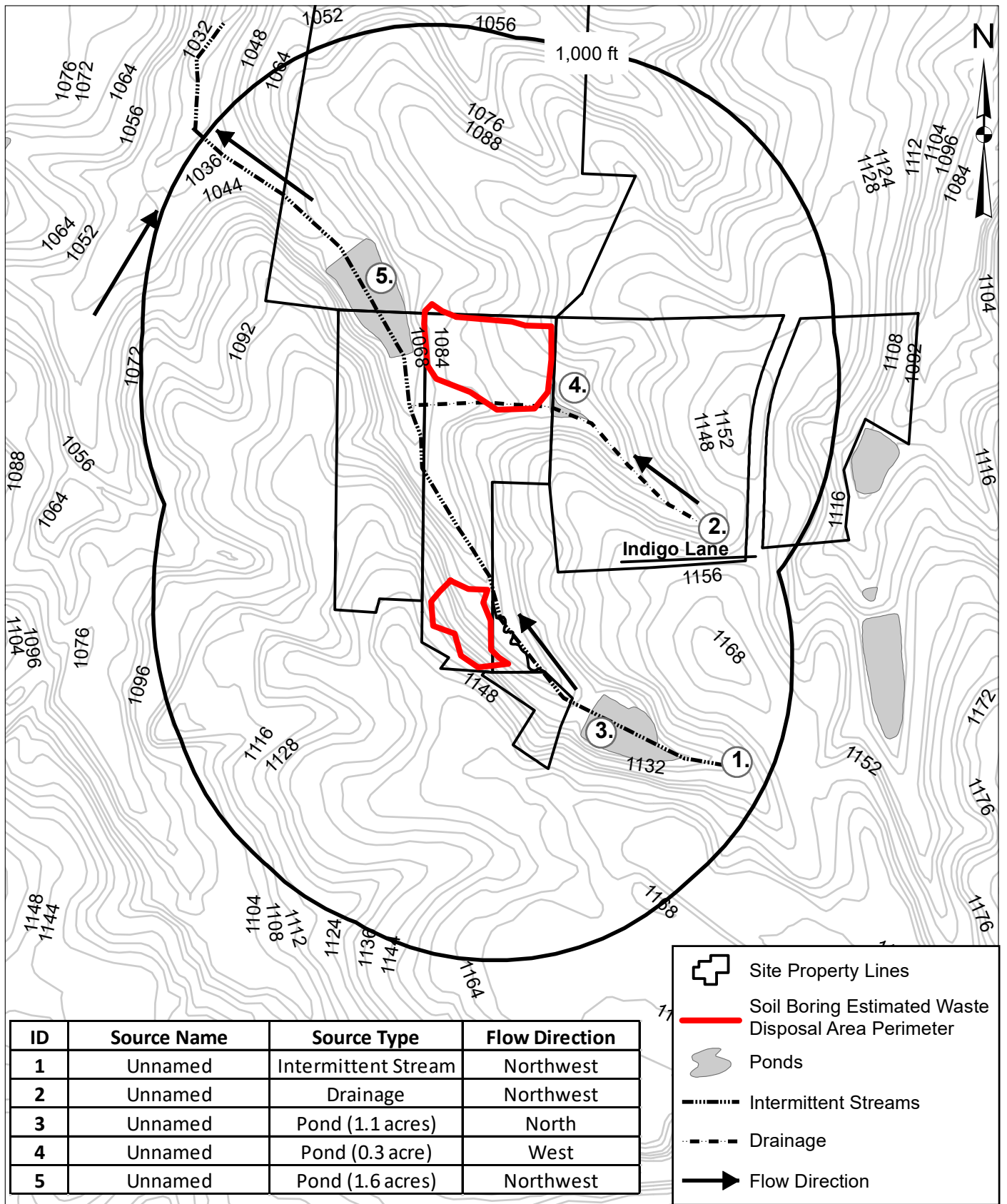


Source: Surry County GIS
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet
 Contour interval: 4-feet



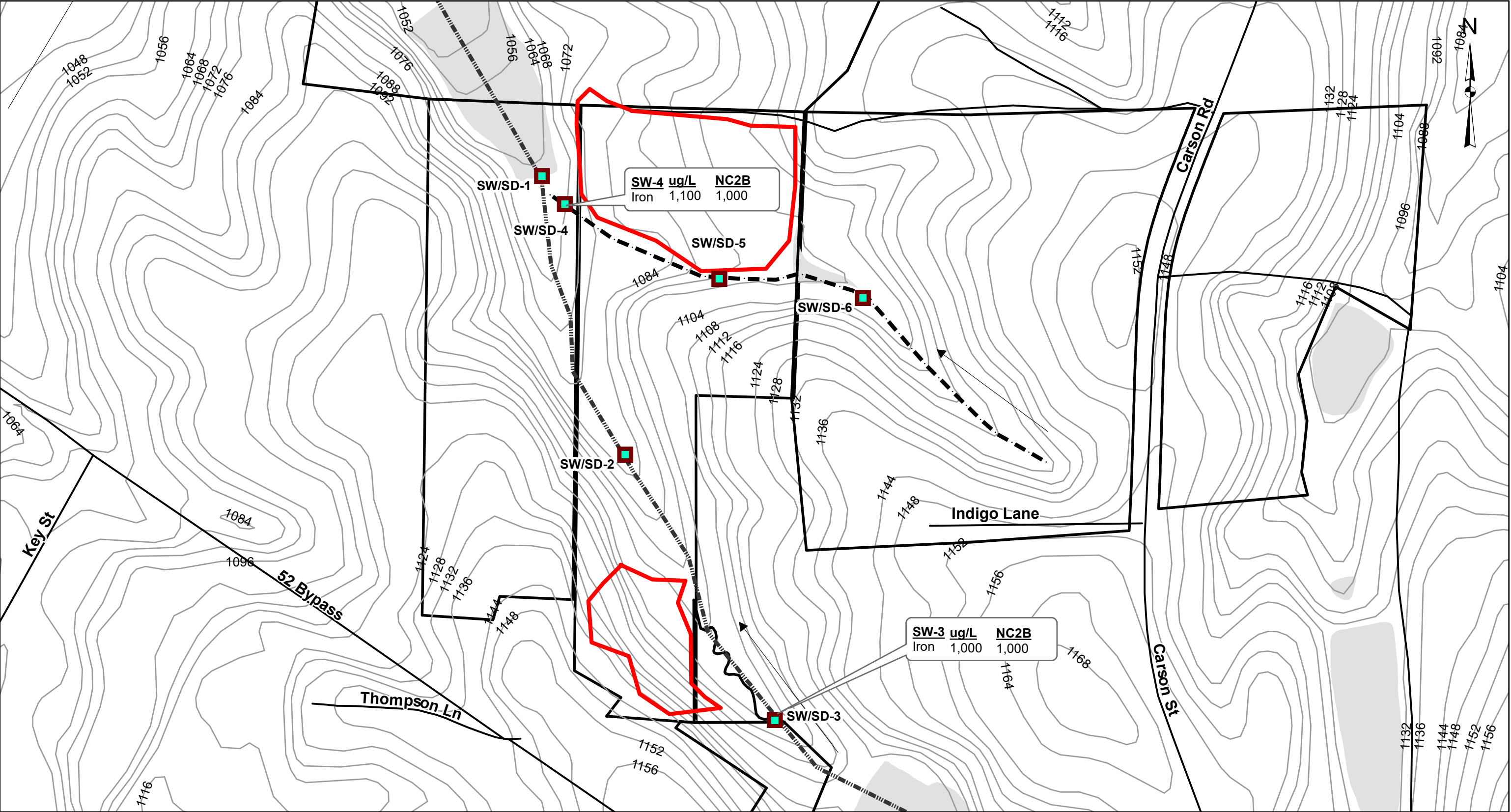
PILOT MOUNTAIN REFUSE DISPOSAL
 NONCD0000583
 SURRY COUNTY, NORTH CAROLINA
 TASK ORDER: 583SUM

WATER SOURCE
 SURVEY
 CONCENTRATION M



PILOT MOUNTAIN REFUSE DISPOSAL
 NONCD0000583
 SURRY COUNTY, NORTH CAROLINA
 TASK ORDER: 583SUM

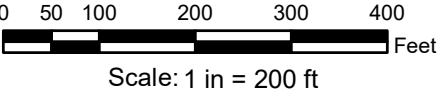
SURFACE WATER BODIES
 WITHIN 1,000 FEET
 FIGURE 50



Legend

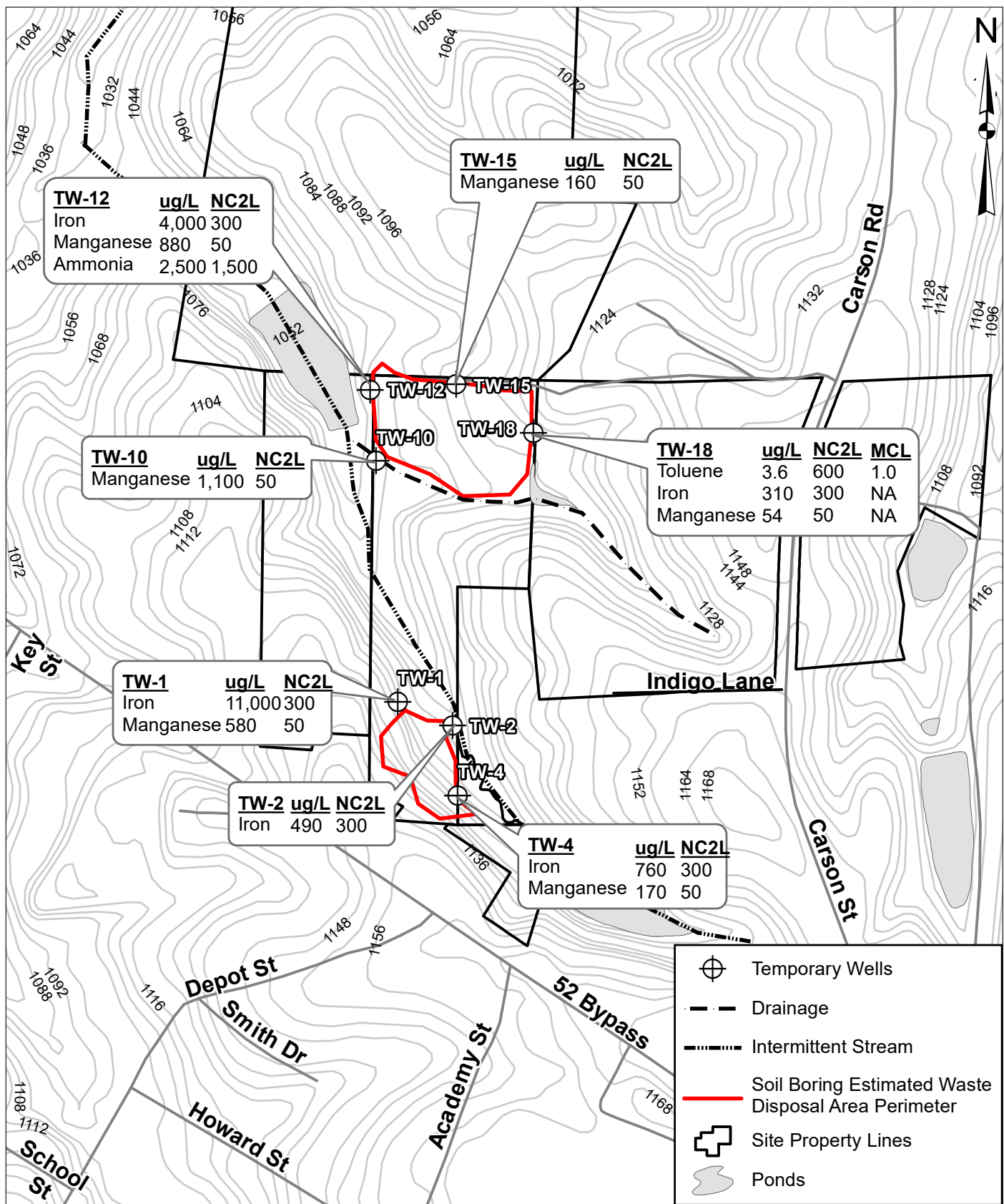
- Surface Water and Sediment Locations
- Soil Boring Estimated Waste Disposal Area Perimeter
- Flow Arrows
- Intermittent Stream
- Drainage
- Ponds
- Site Property Lines

Source: Surry County GIS
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet

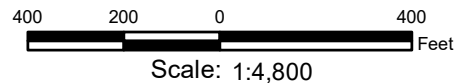


PILOT MOUNTAIN REFUSE DISPOSAL
NONCD 0000583
SURRY, NORTH CAROLINA
TASK ORDER: 583SUM

SURFACE WATER
CONCENTRATION
51
FIGURE 51

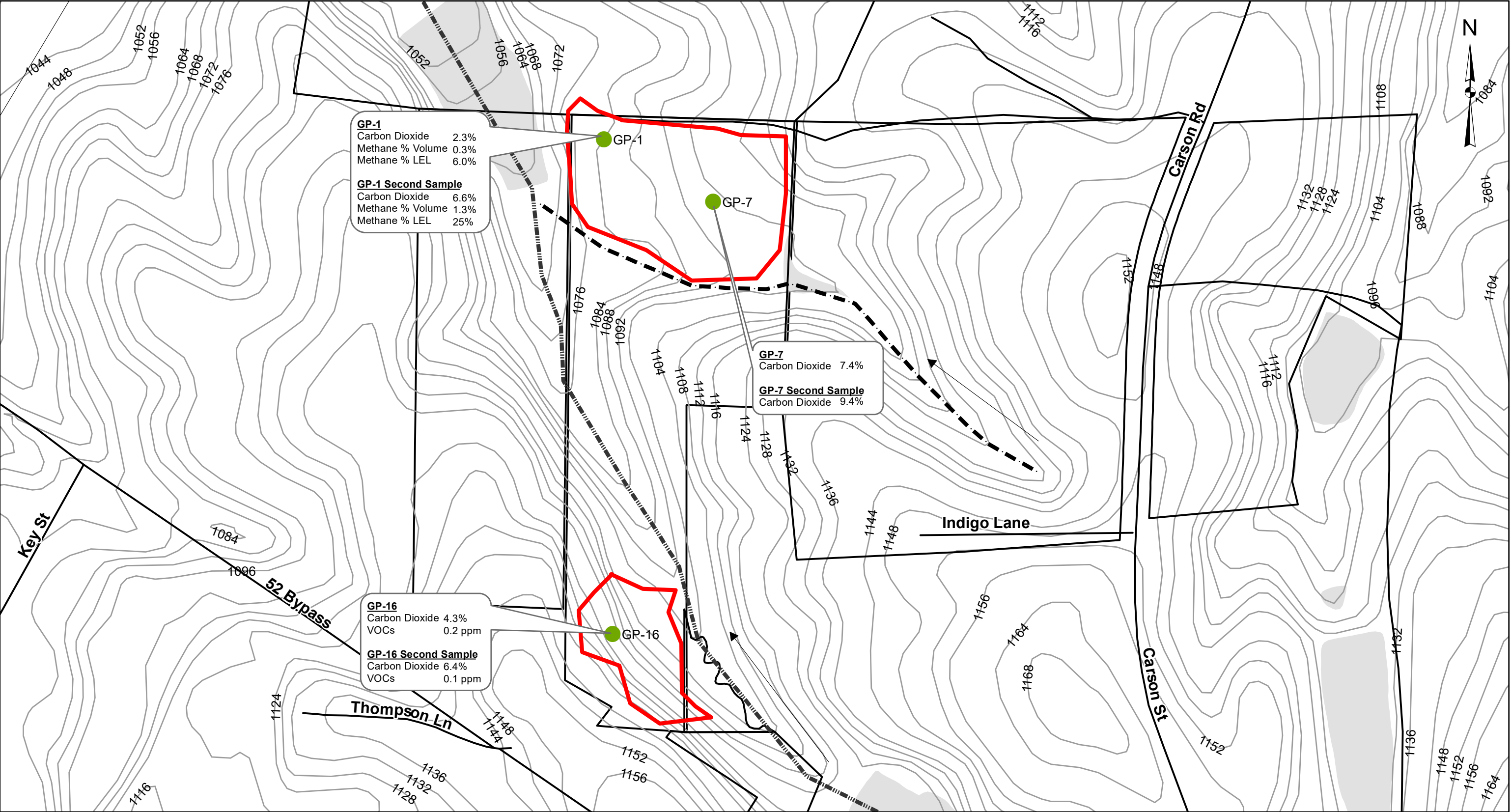


Source: Surry County GIS
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet
 Contour interval: 4-feet



PILOT MOUNTAIN REFUSE DISPOSAL
 NONCD0000583
 SURRY COUNTY, NORTH CAROLINA
 TASK ORDER: 583SUM

GROUNDWATER
 CONCENTRATION M



Legend

- Gas Probes
- Soil Boring Estimated Waste Disposal Area Perimeter
- Flow Arrows
- Intermittent Stream
- Drainage
- Roads
- Ponds

Source:
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet

0 50 100 200 300 400 Feet

Scale: 1 in = 200 ft



PILOT MOUNTAIN REFUSE DISPOSAL
NONCD0000583
SURRY COUNTY, NORTH CAROLINA

TASK ORDER: 583SUM

LANDFILL GAS PROBE
SCREENING MAP

FIGURE 11



TOWN OF PILOT MOUNTAIN
BOARD OF COMMISSIONERS MEETING

FY 2020 Budget Amendment 3	
<u>Background Information:</u>	
This budget amendment will appropriate fund balance to finance the purchase of the easements that the Town has had to purchase for the Stream Bank Restoration Project. It will also finance the Duke Energy power line move design phase.	
<u>Staff Recommendation:</u>	Staff recommends that the Board approve FY 2020 Budget Amendment 3
<u>Possible Board of Commissioner Actions</u>	
• Approve FY 2020 Budget Amendment 3 • Deny approval of FY 2020 Budget Amendment 3 • Table to a later meeting • Take no action	
<u>Attachments</u>	
• FY 2020 Budget Amendment 3	

Town of Pilot Mountain, North Carolina

FY 2019 – 2020 Budget Ordinance

Amendment No. 2020-00

BE IT ORDAINED by the Pilot Mountain Board of Commissioners that the 2019-2020 Budget Ordinance be amended as follows:

REVENUES	-
-----------------	---

Increase 10-3990-0000 – Fund Balance Appropriated	\$108,000.00
---	--------------

EXPENDITURES	-
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Increase – General Government	\$108,000.00
-------------------------------	--------------

Adopted this 13th day of January, 2020

Evan Cockerham, *Mayor*

Holly Utt, *Town Clerk*

Explanation of Amendment:

1. To appropriate funds to finance the purchase of easements and finance power line design for streetscape.

**Pilot Mountain Town Hall
124 West Main St.
Pilot Mountain, NC 27041**



**(Phone) - 336.368.2247
(Fax) - 336.368.9532
www.pilotmountainnc.org**

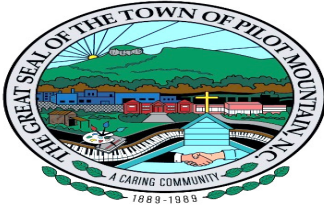
MEMORANDUM

TO: Mayor and Board of Commissioners
FROM: Michael Boaz, Town Manager/Finance Officer
DATE: January 6, 2020
RE: January 2020 Manager's Report

- The Town's audit report for FY 2019 has been issued. Copies were delivered to you previously or will be at your seat at the meeting. I am happy to answer any questions that anyone may have about the report. We have submitted it for consideration by the Government Finance Officers Association for the annual award.
- Staff has held an initial meeting with a local solar company. They have looked at the potential for savings for placing solar panels at the Water Treatment Plant (our biggest single energy user) to offset power purchased from the grid. The report looked promising and so I am planning to invite this group to the March worksession to discuss solar energy, how the panels work, what the relationship between the Town and Duke Energy would be if solar panels were installed, etc. We may also have reports on other sites that the company is going to look at. There is some up front cost for the purchase and installation of the panels, but the long term return on investment appears to be promising.
- The Mayor and I would like for everyone to look at their calendar's and pick a date for the strategic plan update session.
- We have rescheduled the demo for app that was planned for the November workshop that had to be rescheduled for January 21 at 6 PM.

PROJECT UPDATES

1. Depot Street Stream Restoration Project: We have been awarded three grants, totaling \$1,100,000 for this project. This is enough money to do most of the stream restoration work on project. We have signed easements from 20 of 40 property owners. We are still working with property owners to get signed easements.
2. Water/Sewer Regionalization/Interconnection Study: Final reports and pay requests have been submitted to the State for review.
3. Landfill Rehabilitation Project: The engineers are continuing to work on a remediation plan for this old landfill project. This project is being completed funded by the State of NC.
4. Main Street National Register District: The survey work has been completed and submitted to the NC Historic Preservation Office. We have gotten some feedback from SHPO staff and have had an onsite meeting with the staff. We are continuing to work with our consultant on the formal application based on the comments from SHPO staff.
5. Street Paving Project: We have received the final numbers from DOT and the engineers have submitted the PER to USDA for review.
6. Sunset Sewer Sub-Basin Project: Plans have been submitted to DEQ for review.
7. Water Treatment Upgrade: Plans have been approved by DEQ. We are working to secure the necessary easements.
8. Streetscape Project: Staff has reviewed a second set of draft plans and started looking at ideas for site furnishings (light poles, tree grates, etc.) We have also looked a preliminary planting list. Final draft plans should be ready in October or November. I am thinking that we will have a meeting in November to present the draft plans.
9. WWTP & Pump Station Project: McGill is nearly finished with the Preliminary Engineering Report for this project. It will be submitted to the State by the end of the month.



TOWN OF PILOT MOUNTAIN

Monthly Financial Dashboard

FISCAL YEAR ENDING June 30, 2020

Reporting Period: November 1-November 30 2019

OUR CASH AND INVESTMENTS

Balances on November 30, 2019, in whole dollars

CASH & INVESTMENTS BY FUND

GENERAL FUND	November 2018	November 2019
Central Depository	\$ 425,503	\$ 485,181
NCCMT	2,091	2,312
NCCMT-Powell Bill	470	707
NCCMT-Term Account	256,797	35,379
Police Drug Forfeiture	1,398	2,195
Centura Bank CD	25,031	25,031
Fiduciary Funds	51,407	56,002
TOTAL GENERAL FUND	\$ 762,698	\$ 606,807

OTHER FUNDS

	November 2018	November 2019
Water & Sewer Fund	\$ 31,592	\$ 4,950
NCCMT-Water/Sewer	\$ 2,178	\$ 3,633
Water Meter CP	\$ 9,059	\$ -
Interconnection CP	\$ (27,900)	\$ -
Landfill Project CIP	\$ (3,034)	\$ (13,375)
Lola Lane CP	\$ 3,286	\$ 3,286
Water Treatment Upgrade	\$ (18,800)	\$ (263,110)
Streetscape Project	N/A	\$10,438
Sunset Sewer Project	\$ (66,500)	\$ (211,284)
Street Resurfacing	\$ 23,555	\$12,951
WWTP & Pump Stations	N/A	\$ (10,800)
AIA Project	N/A	\$ (32,013)
Capital Reserve	\$ 19,813	\$ 31,783

TOTAL OTHER FUNDS \$ (26,751) \$ (463,540)

TOTAL CASH & INVESTMENTS TOWN-WIDE

	November 2018	November 2019
ALL FUNDS	\$ 735,947	\$ 143,267

OUR CASH FLOWS...

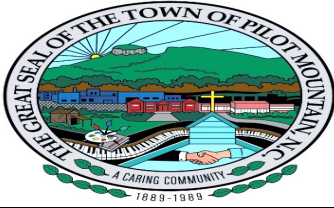
GENERAL FUND REVENUES & EXPENDITURES	Comparison of FYTD %	
	Prior FYTD %	Current FYTD %
Fiscal Year Budget	\$ 1,814,960	\$ 1,892,090
Revenues Fiscal Year to Date	45.00%	50.00%
Expenses Fiscal Year to Date	52.56%	51.02%
WATER & SEWER ENTERPRISE FUND		
Fiscal Year Budget	\$ 945,800	\$ 906,480
Revenues Fiscal Year to Date	\$ 378,367 44.42%	41.74%
Expenses Fiscal Year to Date	\$ 435,026 47.63%	47.99%
LANDFILL REHAB PROJECT		
Project Budget	\$ 15,803	\$ 143,554
Revenues Project to Date	\$ 146,307 95.88%	101.92%
Expenses Project to Date	\$ 161,950 89.94%	112.81%
Water Treatment Upgrade Project		
Project Budget	N/A	\$ 3,978,000
Revenues Project to Date	N/A	0.00%
Expenses Project to Date	\$ 270,160 N/A	6.79%
Sunset Sewer Rehabilitation Project		
Project Budget	N/A	\$ 2,573,038
Revenues Project to Date	\$ 44,254 N/A	1.72%
Expenses Project to Date	\$ 260,581 N/A	10.13%
WATER & SEWER AIA PROJECT		
Project Budget	NA	\$ 300,000
Revenues Project to Date	\$ - 0%	0%
Expenses Project to Date	\$ 32,013 0%	11%

SPECIFIC REVENUE COLLECTIONS AT A GLANCE...

	Comparison of FY %	
	Prior FY %	Current FY %
AD VALOREM PROPERTY TAX		
Fiscal Year Budget	\$ 834,280	\$ 847,090
Revenues this Month	\$ 33,185 4.11%	3.92%
Revenues FYTD	\$ 574,490 64.57%	67.82%
SALES & USE TAX		
Fiscal Year Budget	\$ 446,310	\$ 469,790
Revenues this Month	\$ 40,746 8.57%	8.67%
Revenues FYTD	\$ 207,962 43.24%	44.27%
UTILITY FRANCHISE TAX		
Fiscal Year Budget	\$ 107,000	\$ 106,020
Revenues this Month	\$ - 0.00%	0.00%
Revenues FYTD	\$ 24,557 23.02%	23.16%
REFUSE COLLECTION FEES		
Fiscal Year Budget	\$ 68,000	\$ 69,840
Revenues this Month	\$ 5,797 8.45%	8.30%
Revenues FYTD	\$ 30,319 42.03%	43.41%
SALES & SERVICES		
Fiscal Year Budget	\$ 41,500	\$ 58,700
Revenues this Month	\$ 1,283 6.43%	2.18%
Revenues FYTD	\$ 30,440 48.11%	51.86%
WATER & SEWER ENTERPRISE FUND REVENUES		
Fiscal Year Budget	\$ 945,800	\$ 906,480
Revenues this Month	\$ 76,686 7.54%	8.46%
Revenues FYTD	\$ 378,367 44.42%	41.74%

EXPENDITURES AT A GLANCE...

GENERAL FUND DEPARTMENTS	Comparison of Monthly Expenses		
	Fiscal Year 2020 Budget	Prior FY	Current FY
Governing Body	\$ 63,280	\$ 40,723	\$ 64,795
Administration	293,760	122,905	145,067
Community & Economic D	47,500	12,004	22,202
Downtown Revitalization	125,810	53,966	76,602
Police Dept	809,630	331,910	388,299
Street Dept	104,410	74,923	55,712
Powell Bill	43,420	141,298	3,919
Sanitation	215,490	97,597	103,296
Pilot Center	19,060	15,493	9,699
Library	39,060	4,330	6,566
Debt Service	49,620	47,313	47,137
Non Departmental	-	11,561	775
	\$ 1,811,040	\$ 954,023	\$ 924,068
Fiscal Year Budget	\$ 1,814,960	\$ 1,811,040	\$ 1,811,040
YTD % of Annual Budget Expended		52.56%	51.02%
WATER & SEWER ENTERPRISE FUND			
General	\$ 137,720	\$ 75,208	\$ 74,858
Water/Sewer Administration	136,560	55,944	66,288
Production	218,510	100,295	92,035
WWTP	206,800	80,913	96,471
Line Maintenance	206,890	138,126	105,374
	\$ 906,480	\$ 450,486	\$ 435,026
Fiscal Year Budget	\$ 945,800	\$ 945,800	\$ 906,480
YTD % of Annual Budget Expended		47.63%	47.99%



TOWN OF PILOT MOUNTAIN

Monthly Financial Dashboard

FISCAL YEAR ENDING June 30, 2020

Reporting Period: December 1-December 31 2019

OUR CASH AND INVESTMENTS

Balances on December 31, 2019 in whole dollars

CASH & INVESTMENTS BY FUND

GENERAL FUND		
	December 2018	December 2019
Central Depository	\$ 447,229	\$ 600,687
NCCMT	2,100	2,319
NCCMT-Powell Bill	471	708
NCCMT-Term Account	257,345	35,432
Police Drug Forfeiture	1,398	2,195
Centura Bank CD	25,031	25,031
Fiduciary Funds	43,098	57,275
TOTAL GENERAL FUND	\$ 776,672	\$ 723,648
OTHER FUNDS		
	December 2018	December 2019
Water & Sewer Fund	\$ (6,671)	\$ (27,226)
NCCMT-Water/Sewer	\$ 2,178	\$ 3,633
Water Meter CP	\$ 9,059	\$ 7,000
Interconnection CP	\$ (27,900)	\$ -
Landfill Project CIP	\$ 1,134	\$ -
Lola Lane CP	\$ 3,286	\$ 0
Water Treatment Upgrade	\$ (31,400)	\$ (272,635)
Streetscape Project	N/A	\$ 5,222
Sunset Sewer Project	\$ (66,500)	\$ (216,044)
Street Resurfacing	\$ 23,055	\$ 12,951
WWTP & Pump Stations	N/A	\$ (13,500)
AIA Project	N/A	\$ (27,987)
Capital Reserve	\$ 24,191	\$ 38,522
TOTAL OTHER FUNDS	\$ (69,567)	\$ (490,062)
TOTAL CASH & INVESTMENTS TOWN-WIDE		
	December 2018	December 2019
ALL FUNDS	\$ 707,105	\$ 233,586

OUR CASH FLOWS...

		Comparison of FYTD %	
GENERAL FUND REVENUES & EXPENDITURES		Prior FYTD %	Current FYTD %
Fiscal Year Budget	\$ 1,814,960	\$ 1,892,090	
Revenues Fiscal Year to Date	58.00%	66.00%	
Expenses Fiscal Year to Date	56.95%	59.12%	
WATER & SEWER ENTERPRISE FUND			
Fiscal Year Budget	\$ 945,800	\$ 906,480	
Revenues Fiscal Year to Date	\$ 456,912	51.63%	50.41%
Expenses Fiscal Year to Date	\$ 480,541	53.11%	53.01%
LANDFILL REHAB PROJECT			
Project Budget	\$ 15,803	\$ 143,554	
Revenues Project to Date	\$ 160,816	107.33%	112.02%
Expenses Project to Date	\$ 161,950	107.33%	112.81%
Water Treatment Upgrade Project			
Project Budget	N/A	\$ 3,978,000	
Revenues Project to Date		0.00%	0.00%
Expenses Project to Date	\$ 279,685	0.79%	7.03%
Sunset Sewer Rehabilitation Project			
Project Budget	N/A	\$ 2,573,038	
Revenues Project to Date	\$ 44,254	0.00%	1.72%
Expenses Project to Date	\$ 265,340	2.63%	10.31%
WATER & SEWER AIA PROJECT			
Project Budget	NA	\$ 300,000	
Revenues Project to Date	\$ 27,513	0%	9%
Expenses Project to Date	\$ 55,500	0%	18%

SPECIFIC REVENUE COLLECTIONS AT A GLANCE...

		Comparison of FY %	
		Prior FY %	Current FY %
AD VALOREM PROPERTY TAX			
Fiscal Year Budget	\$ 834,280	\$ 847,090	
Revenues this Month	\$ 29,006	4.19%	3.42%
Revenues FYTD	\$ 603,495	68.76%	71.24%
SALES & USE TAX			
Fiscal Year Budget	\$ 446,310	\$ 469,790	
Revenues this Month	\$ 37,923	7.82%	8.07%
Revenues FYTD	\$ 245,884	51.06%	52.34%
UTILITY FRANCHISE TAX			
Fiscal Year Budget	\$ 107,000	\$ 106,020	
Revenues this Month	\$ 30,077	27.52%	28.37%
Revenues FYTD	\$ 54,634	50.54%	51.53%
REFUSE COLLECTION FEES			
Fiscal Year Budget	\$ 68,000	\$ 69,840	
Revenues this Month	\$ 6,513	8.79%	9.32%
Revenues FYTD	\$ 36,832	50.82%	52.74%
SALES & SERVICES			
Fiscal Year Budget	\$ 41,500	\$ 58,700	
Revenues this Month	\$ 1,664	7.38%	2.83%
Revenues FYTD	\$ 25,704	55.49%	43.79%
WATER & SEWER ENTERPRISE FUND REVENUES			
Fiscal Year Budget	\$ 945,800	\$ 906,480	
Revenues this Month	\$ 78,544	7.21%	8.66%
Revenues FYTD	\$ 456,912	51.63%	50.41%

EXPENDITURES AT A GLANCE...

		Comparison of Monthly Expenses	
		Fiscal Year	YTD Expenses
GENERAL FUND DEPARTMENTS		2020 Budget	Prior FY Current FY
Governing Body	\$ 63,280	\$ 48,400	\$ 95,968
Administration	293,760	141,657	162,404
Community & Economic D	47,500	14,554	23,952
Downtown Revitalization	125,810	58,945	83,158
Police Dept	809,630	376,939	449,441
Street Dept	104,410	81,004	62,703
Powell Bill	43,420	141,298	3,919
Sanitation	215,490	113,790	120,772
Pilot Center	19,060	16,489	10,799
Library	39,060	4,330	6,566
Debt Service	49,620	47,313	47,137
Non Departmental	-	13,504	3,832
	\$ 1,811,040	\$ 1,058,223	\$ 1,070,651
Fiscal Year Budget	\$ 1,814,960	\$ 1,811,040	
YTD % of Annual Budget Expended		58.31%	59.12%
WATER & SEWER ENTERPRISE FUND			
General	\$ 137,720	\$ 75,208	\$ 74,858
Water/Sewer Administration	136,560	63,667	74,092
Production	218,510	116,529	109,431
WWTP	206,800	93,820	110,371
Line Maintenance	206,890	147,433	111,789
	\$ 906,480	\$ 496,657	\$ 480,541
Fiscal Year Budget	\$ 945,800	\$ 906,480	
YTD % of Annual Budget Expended		52.51%	53.01%

Id	Status	Address	Street Name	Work Type	Modified Date	Time Open	Comments
11259173	Complete	204	Lynchburg Rd	Sewer Line Cleaning	11/27/2019 15:36	0 days 4 hrs 35 mins	main is clear. same as Monday. owner says its working now
11252880	Complete	322	N Key St, UNIT 128	Hydrant Flushing	11/27/2019 9:51	0 days 19 hrs 15 mins	flushed hydrant on key street
11245499	Complete	504	Lynchburg Rd	Sewer Investigate	11/25/2019 17:17	0 days 0 hrs 41 mins	main was clear. home owner ran a snake down service line and got it open
11243998	Complete	117	Foothill Dr	Meter Check	11/25/2019 15:37	0 days 1 hrs 41 mins	node at bottom of box on demand successful
11240711	Complete	529	Butler St	Bulky Item	11/27/2019 9:48	1 days 23 hrs 33 mins	removed
11240671	Complete	717	WESTRIDGE DR	Meter Check	11/25/2019 11:21	0 days 1 hrs 8 mins	node plug was loose. replugged. on demand successful
11240484	Complete	209	Lola Ln car wash	Meter Check	11/25/2019 11:39	0 days 1 hrs 36 mins	node was at bottom of box. on demand successful
11227234	Complete	411	East 52 Bypass	Cut On	11/21/2019 15:24	0 days 0 hrs 43 mins	status on
11226647	Complete	106	S Key St, UNIT 42	Meter Check	11/21/2019 14:21	0 days 1 hrs 18 mins	can't help
11226169	Complete	106	S Key St, UNIT 76	Meter Check	11/25/2019 12:02	3 days 23 hrs 58 mins	node or meter needs to be replaced see picture for reading
11225922	Complete	592	Academy St	Meter Check	11/21/2019 14:21	0 days 2 hrs 24 mins	waiting on part
11224610	Complete	720	E 52 Byp	Meter Check	11/21/2019 14:22	0 days 4 hrs 27 mins	see photo
11216474	Complete	516	E Main St	Brush	11/27/2019 10:47	6 days 22 hrs 50 mins	removed
11211183	Complete	108	Nelson St	Brush	11/27/2019 10:47	7 days 20 hrs 30 mins	removed
11192136	Complete	313	W Main St	AMI Coms Check	11/27/2019 9:50	11 days 22 hrs 36 mins	no account number. meter appears to be ok. leak inside residence. owner is making repairs
11185909	Complete	411	East 52 Bypass	Cut On	11/14/2019 15:02	0 days 2 hrs 28 mins	status off. leak in building. owner notified
11182421	Complete	200	East 52 Bypass	Meter Check	11/14/2019 9:33	0 days 0 hrs 44 mins	no leak detected. the knock needs to be notified. on demand successful.
11175200	Complete	200	East 52 Bypass	Meter Check	11/14/2019 9:32	0 days 22 hrs 21 mins	meter and node are ok. on demand successful
11173764	Complete	200	East 52 Bypass	AMI Coms Check	11/14/2019 9:31	1 days 0 hrs 4 mins	
11151673	Complete	106	S Key St Apt 42	Meter Check	11/14/2019 10:52	6 days 0 hrs 31 mins	if unit is empty let's cut it off. other wise I can't help with backflow
11150734	Complete	313	W Main St	Cut On	11/14/2019 9:23	6 days 0 hrs 39 mins	leak inside home. left off per owner
11150728	Complete	713	Old Barn Cr	Meter Check	11/14/2019 10:49	6 days 2 hrs 6 mins	checked connections meter had usage. on demand successful
11128085	Complete	632	S Key St	Detect Water Leak	11/14/2019 9:19	8 days 17 hrs 56 mins	completed
11128007	Complete	709	East Main Street	Meter Check	12/5/2019 11:48	29 days 20 hrs 39 mins	on demand successful
11118094	Complete	178	Club House Dr	Meter Check	11/4/2019 15:19	0 days 1 hrs 47 mins	node was tampered with. on demand successful. check on it again to see if it populates in server

Id	Status	Address	Street Name	Work Type	Modified Date	Time Open	Comments
11426782	Complete		SECTION G	Grave Marking	12/31/2019 9:02	0 days 17 hrs 4 mins	marked
11414568	Complete	130	Swiss Haven Dr	Meter Check	12/30/2019 11:03	2 days 23 hrs 41 mins	updated in minet
11414551	Complete	106	S Key St Apt 76	Meter Check	12/30/2019 10:46	2 days 23 hrs 26 mins	node needs to be replaced
11414518	Complete	204	Lola Ln	Meter Check	12/30/2019 10:22	2 days 23 hrs 6 mins	node needs to be replaced. see pictures for reading
11414484	Complete	157	Fairfax Dr	Meter Check	12/30/2019 10:36	2 days 23 hrs 25 mins	node needs to be replaced see pictures for reading
11414339	Complete	234	S Boyles St	Meter Check	12/30/2019 10:47	2 days 23 hrs 49 mins	node needs to be replaced
11358841	Complete	108	Heatherly Creek Dr	Cut On	12/17/2019 16:03	1 days 4 hrs 6 mins	status on
11356618	Complete	249	S Boyles St	Meter Check	12/20/2019 15:03	4 days 5 hrs 59 mins	meter functioning properly
11356419	Complete	105	W Main St	Meter Check	12/20/2019 15:02	4 days 6 hrs 1 mins	meter functioning properly
11356368	Complete	810	Sunset Dr	Meter Check	12/20/2019 15:04	4 days 6 hrs 7 mins	meter functioning properly
11356340	Complete	121	Crestwood Dr	Meter Check	12/27/2019 15:51	11 days 6 hrs 56 mins	meter functioning properly
11356306	Complete	200	Hill St	Meter Check	12/20/2019 15:02	4 days 6 hrs 10 mins	meter functioning properly
11356274	Complete	652	E 52 Byp	Meter Check	12/20/2019 15:04	4 days 6 hrs 14 mins	meter functioning properly
11350582	Complete	200	W Main St	Meter Check	12/13/2019 12:16	0 days 0 hrs 43 mins	on demand successful
11343807	Complete	516	E Main St	Brush	12/17/2019 16:04	5 days 4 hrs 39 mins	removed
11342239	Complete	516	Lynchburg Rd	Meter Check	12/20/2019 15:03	8 days 5 hrs 34 mins	meter functioning properly
11342213	Complete	123	Lynchburg Rd	Meter Check	12/13/2019 12:16	1 days 2 hrs 49 mins	meter is reading correctly
11336548	Complete	111	S Boyles St	Sewer Investigate	12/12/2019 11:54	0 days 19 hrs 52 mins	main is clear
11328533	Complete	818	Sunset Dr	Brush	12/13/2019 12:15	3 days 0 hrs 11 mins	removed
11320422	Complete	533	Butler St	Cut Off	12/10/2019 8:24	0 days 19 hrs 51 mins	status off
11311083	Complete		Second Street	Water Leak	12/10/2019 8:25	3 days 21 hrs 41 mins	repaired
11309803	Complete	601	East Main Street	AMI Coms Check	12/30/2019 10:47	24 days 2 hrs 6 mins	waiting on parts
11309720	New Request	601	East Main Street	Meter Check	12/30/2019 10:47	27 days 4 hrs 53 mins	
11304978	Complete	124	W Main St police dept	Lighting Issue	12/12/2019 11:54	6 days 22 hrs 35 mins	repaired
11302824	Complete	202	Lynchburg Rd	Cut On	12/10/2019 8:24	4 days 22 hrs 27 mins	status on
11296921	New Request	404	South Key Street	Brush	12/4/2019 16:29	28 days 20 hrs 59 mins	

**Pilot Mountain Police Department
Monthly Report for November 2019**

Accidents

11/2/2019 805 S Key St
 11/4/2019 873 W 52 Byp
 11/6/2019 818 S Key St
 200 W Main St (H&R)
 11/7/2019 624 E Main St
 11/9/2019 Westfield Rd @ Old Hwy 52
 204 W Main St
 11/15/2019 Nelson St @ E Main St (10-55)
 100 Lynchburg Rd
 11/21/2019 N Depot St @ E Main St
 W Main St @ Lynchburg Rd
 11/25/2019 647 S Key St
 124 Lynchburg Rd
 11/26/2019 S Key St @ W Main St
 N Key St @ Old Hwy 52 Byp (PI)

	TOTAL	AMOUNT	RECOVERED
Police Service	203		
Wrecks Investigated	15	\$ 52,900.00	
Assaults	0		
Larcenies	4	\$ 181.00	
Disturbances/Domestic	3		
Burglar Alarms	32		
Breaking & Entering	1	\$ 3,802.67	
MIP & Property Damage	1	\$ 4,400.00	
Traffic Citations	14		
Intoxicated Drivers	1		
Intoxicated Pedestrians	0		
Forgery	1	\$ 9,514.90	
Armed Robbery	0		
Drug Charges	6		
Other Crimes	16		
Total Arrests	2		
Totals:	306	\$ 43,650.00	\$ -

Other

11/1/2019 Weapons Violation
 Simple Assault
 11/4/2019 Served 3 WFA
 11/9/2019 Poss of marijuana
 11/13/2019 PWISD heroin
 Maintain Drug Vehicle
 PWIMSD Methamphetamine
 Simple poss of drug paraphernalia
 11/25/2019 Felony Elude arrest
 Resist Officer
 Poss of drug para
 Failure to heed lights & siren
 Reckless driving
 DWLR
 Fict Tags
 Failure to stop at stop sign
 Left of center
 Served OFA
 11/29/2019 Served OFA

Notes:

11/1/2019 Capt Jackson taught BLET class
 11/01 thru 11/04/2019 Officers worked the GHSP
 11/04 & 11/05/2019 Capt Jackson taught BLET class
 11/08 & 11/09/2019 Capt Jackson taught BLET class
 11/9/2019 Officers assisted with the Vintage Market
 11/12 thru 11/14/2019 Capt Jackson taught BLET class
 11/25 thru 11/30/2019 Officers worked the GHSP
 11/30/2019 Officers assisted with the Deck the Halls

2019 Zoning Permit Activity			
Permit #	Physical Address	Type	Date Issued
2019-01	111 W. Main Street	Change in Use 'Grace and Sparrow Southern Boutique'	1/10/2019
2019-02	102 W. Main Street	Change in Use 'Premium Tobacco Co.'	1/14/2019
2019-03	866 Golf Course Road	Single-Family Dwelling	1/15/2019
2019-04	403 S. Key Street	Change in Use 'R&J Tree Service'	1/15/2019
2019-05	117 E. Main Street	Change in Use 'Elliot's Therapeutic Massage'	1/17/2019
2019-06	213 E. Main Street	Change in Use 'Penny's Place'	1/25/2019
2019-07	377 Carson Road	Addition to Single-Family Dwelling	1/25/2019
2019-08	105 Dodson Street	Accessory Building	2/11/2019
2019-09	279 Stone Haven Drive	Addition to Single-Family Dwelling	2/21/2019
2019-10	425 E. 52 Bypass	Change in Use 'All Sauced Up BBQ'	2/28/2019
2019-11	711 E. 52 Bypass	Change in Use 'The Pilot Diner'	2/28/2019
2019-12	800 Golf Course Road	Addition to Single-Family Dwelling	4/1/2019
2019-13	110 W. Pine Street	Accessory Building	4/3/2019
2019-14	102 E. Main Street	Change in Use 'United Country Real Estate - Land Pro'	4/11/2019
2019-15	195 Downy Brook Lane	Single-Family Dwelling	4/15/2019
2019-16	731 Golf Course Road	AT&T Equipment Upgrade	5/2/2019
2019-17	509 W. Main Street	Addition to Single-Family Dwelling	5/3/2019
2019-18	186 Old Hollow Road	Single-Family Dwelling	5/14/2019
2019-19	2294 Old Winston Road	Addition to Single-Family Dwelling	5/10/2019
2019-20	105 W. Main Street, Suite A	Change in Use 'Tilted Ladder'	5/15/2019
2019-21	785 Carson Road	Accessory Building	6/11/2019
2019-22	201 S. Depot Street, Unit B	Addition to Two-Family Dwelling	6/5/2019
2019-23	731 Golf Course Road	T-Mobile Equipment Upgrade	6/6/2019
2019-24	320 Lynchburg Road	Accessory Building	6/6/2019
2019-25	624 E. Main Street	Accessory Building	6/19/2019
2019-26	512 W. Main Street	Fence	7/3/2019
2019-27	235 Golf Course Road	Addition to Single-Family Dwelling	7/12/2019
2019-28	134 W. Main Street	Change in Use 'Liv for Sweets'	7/15/2019
2019-29	707 Sunset Drive	Relocation of Single-Family Dwelling	7/22/2019
2019-30	528 W. Main Street	Demolition of Single-Family Dwelling	7/30/2019
2019-31	103 E. Main Street	Change in Use 'Sonya Ganyard Realty & Kirstana's Boutique'	8/12/2019
2019-32	444 Golf Course Road	Single-Family Dwelling	8/27/2019
2019-33	523 S. Stephens Street	Change in Use 'SPX Cooling Technologies'	8/12/2019
2019-34	821/823 W. Main Street	Demolition of Multiple Dwellings	8/27/2019
2019-35	592 Academy Street	Accessory Building	10/31/2019
2019-36	805 S. Key Street	Canopy Replacement 'Circle K'	10/8/2019
2019-37	103 E. Main Street	Interior Remodel & Addition to 'Sonya Ganyard Realty'	9/18/2019
2019-38	129 W. Main Street, Suite B	Change in Use 'Taylor 2 Hair Salon'	9/18/2019
2019-39	266 Shoals Road	Addition to Single-Family Dwelling	10/1/2019
2019-40	313 Crestwood Drive	Accessory Building	10/1/2019
2019-41	116 W. Main Street	Change in Use 'Cooks Pest Management'	10/3/2019
2019-42	320 Lynchburg Road	Customary Home Occupation	10/14/2019
2019-43	320 Lynchburg Road	Inground Pool & Fence	10/14/2019
2019-44	552 Old Westfield Road	Accessory Building	10/16/2019
2019-45	632 S. Key Street	Change in Use 'The Market Place at Pilot Mountain'	10/29/2019
2019-46	603 W. Main Street	Addition (Canopy) & New Parking Area (Site Improvements)	10/29/2019
2019-47	415 Clubhouse Drive	Single-Family Dwelling	11/4/2019
2019-48	317 E. 52 Bypass, Suite C	Change in Use 'Pilot Mountain Outreach Ministries Thrift Store'	11/5/2019
2019-49	411 E. 52 Bypass	Change in Use 'The Hair Loft'	11/18/2019
2019-50	101 W. Main Street	Change in Use 'Dewey's Bakery Pop Up Market'	11/18/2019
2019-51	156 NC 268E	Addition to Single-Family Dwelling	12/16/2019
2019-52	540 Butler Street	Addition (Deck) to Single-Family Dwelling	12/27/2019

2019 Sign Permit Activity			
Permit #	Physical Address	Type	Date Issued
2019-01	111 W. Main Street	Projecting	1/14/2019
2019-02	403 S. Key Street	Wall	1/15/2019
2019-03	711 E. 52 Bypass	Wall	4/2/2019
2019-04	425 E. 52 Bypass	Freestanding	4/18/2019
2019-05	102 E. Main Street	Projecting	6/6/2019
2019-06	105 W. Main Street	Projecting	6/17/2019
2019-07	732 E. Main Street	Freestanding	6/21/2019
2019-08	103 E. Main Street	Awning	8/12/2019
2019-09	106 S. Depot Street	Wall	8/28/2019
2019-10	616 S. Key Street	Package	10/1/2019
2019-11	632 S. Key Street	Wall	10/29/2019
2019-12	633 S. Key Street	Wall	12/18/2019

**MONTHLY STATUS REPORT OF
OPERATION FOR THE PILOT MOUNTAIN
WASTEWATER TREATMENT PLANT**

MONTH: November

YEAR: 2019

OPERATIONS:

MILLION GALLONS OF WATER TREATED	6.27	PERMIT LIMIT MGD	.500
AVERAGE DAILY VOLUME TREATED	.209		
TOTAL RAINFALL INCHES	2.80		

CHEMICALS USED:

CHLORINE/BLEACH	800 Gallons
POLYMER	0 Gallons

CHEMICAL ANALYSIS:

Parameter	Permit Limits	Monthly Results
BOD	30 max. avg. monthly	2.78
TSS	30 max. avg. monthly	6.51
D.O.	5 minimum avg. daily eff.	9.56
Fecal Coliform	200 max. avg. monthly	1.31
Ammonia-Nitrogen	28.6 max. avg. monthly	1.66

We are in compliance with all permit requirements.

**MONTHLY STATUS REPORT OF
OPERATION FOR THE PILOT MOUNTAIN
WASTEWATER TREATMENT PLANT**

MONTH: December

YEAR: 2019

OPERATIONS:

MILLION GALLONS OF WATER TREATED	7.378	PERMIT LIMIT MGD	.500
AVERAGE DAILY VOLUME TREATED	.238		
TOTAL RAINFALL INCHES	5.15		

CHEMICALS USED:

CHLORINE/BLEACH	80 Gallons
POLYMER	0 Gallons

CHEMICAL ANALYSIS:

Parameter	Permit Limits	Monthly Results
BOD	30 max. avg. monthly	2.75
TSS	30 max. avg. monthly	10.3
D.O.	5 minimum avg. daily eff.	9.38
Fecal Coliform	200 max. avg. monthly	1.0
Ammonia-Nitrogen	28.6 max. avg. monthly	3.59

We are in compliance with all permit requirements.