



Draft Remedial Action Plan

Manteo Dump

Manteo, Dare County, NC

NCDEQ ID No. NONCD0000270

S&ME Project No. 215296

NCDEQ Task Order 270RA-2

PREPARED FOR:

**North Carolina Department of Environmental Quality
Division of Waste Management – Inactive Hazardous Sites Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, NC 27699-1646**

PREPARED BY:

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February 26, 2026



February 26, 2026

North Carolina Department of Environmental Quality
Division of Waste Management – Special Remediation Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, NC 27699-1646

Attention: Mr. Ian Keck via email: Ian.Keck@deq.nc.gov
Project Manager

Reference: **Draft Remedial Action Plan**
Manteo Dump
Sir Walter Raleigh Street, Manteo, Dare County, North Carolina
ID No. NONCD0000270
NCDEQ Task Order 270RA-2
S&ME Project No. 215296

Dear Mr. Keck:

S&ME, Inc. (S&ME) is submitting this Draft Remedial Action Plan (Draft RAP) to the North Carolina Department of Environmental Quality (NCDEQ), Pre-Regulatory Landfill Unit (PLRF Unit) for the above-referenced facility in Manteo, North Carolina. S&ME completed this Draft RAP Plan in general conformance with our approved proposal dated July 14, 2025 for Task Orders 9389RA-1 through RA-5 under state contract N42621-B.

Please call us at 919-872-2660 with any questions or comments.

Sincerely,
S&ME, Inc.

Handwritten signature of John Palmer in black ink.

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Attachment: Draft Remedial Action Plan



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LIST OF ACRONYMS

AMP -	ASBESTOS MANAGEMENT PLAN
BDL -	BELOW DETECTION LIMIT
BGS -	BELOW GROUND SURFACE
CAMA -	DEQ DIVISION OF COASTAL MANAGEMENT
COC -	CONTAMINANTS OF CONCERN
DWM -	DIVISION OF WASTE MANAGEMENT
DWR -	DIVISION OF WATER RESOURCES
E&SC -	EROSION & SEDIMENT CONTROL
EPA -	ENVIRONMENTAL PROTECTION AGENCY
FT-AMSL -	FEET ABOVE MEAN SEA LEVEL
FT-BGS -	FEET BELOW GROUND SURFACE
FT. BTOC -	FEET BELOW TOP OF CASING
GP -	GAS PROBE
GPS -	GLOBAL POSITIONING SYSTEM
IHSB -	INACTIVE HAZARDOUS SITES BRANCH
LEL	LOWER EXPLOSIVE LEVEL
MG/KG -	MILLIGRAMS PER KILOGRAM
MG/L -	MILLIGRAMS PER LITER
MSL -	MEAN SEA LEVEL
MW/TW -	MONITORING WELL/TEMPORARY MONITORING WELL
NHP -	NORTH CAROLINA NATURAL HERITAGE PROGRAM
NCAC -	NORTH CAROLINA ADMINISTRATIVE CODE
NCAC 2B -	NORTH CAROLINA 15A NCAC 2B. 0200 (SURFACE WATER) STANDARDS
NCAC 2L -	NORTH CAROLINA 15A NCAC 02L .0202 (GROUNDWATER) STANDARDS
NCDCM -	NORTH CAROLINA DIVISION OF COASTAL MANAGEMENT
NCDEQ -	NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY
NC DEMLR -	NORTH CAROLINA DEPARTMENT OF ENERGY, MINERAL AND LAND QUALITY
NMFS -	NATIONAL MARINE FISHERIES SERVICE
PID -	PHOTO IONIZATION DETECTOR
PIN -	PARCEL IDENTIFICATION NUMBER
PPM -	PARTS PER MILLION
PW -	POTABLE WELL
RAP -	REMEDIAL ACTION PLAN
RI -	REMEDIAL INVESTIGATION
SHPO -	NORTH CAROLINA HISTORIC PRESERVATION OFFICE
SVOC -	SEMI-VOLATILE ORGANIC COMPOUNDS
µG/L -	MICROGRAM PER LITER (PARTS PER BILLION)
TMW -	TEMPORARY MONITORING WELL
USGS -	UNITED STATES GEOLOGICAL SURVEY
USACE -	UNITED STATES ARMY CORPS OF ENGINEERS
VISL -	VAPOR INTRUSION SCREENING LEVEL
VOC -	VOLATILE ORGANIC COMPOUNDS
WDA -	WASTE DISPOSAL AREA
WRC -	NORTH CAROLINA WILDLIFE RESOURCE COMMISSION
WSW -	WATER SUPPLY WELL

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1.0 INTRODUCTION

This Draft Remedial Action Plan (Draft RAP) presents the engineering design for the proposed remedy for the Manteo Dump (the Property or Site) located in Manteo, Dare County, North Carolina. The Manteo Dump is a closed, pre-regulatory landfill (NCDEQ ID No. NONCD0000270). The greater Manteo Landfill project area extends over six parcels totaling approximately 10.5 acres situated at the western terminus of Sir Walter Raleigh Street in Manteo, North Carolina. Dare County property identifiers and ownership information for the affected residential properties are summarized in the following table:

Owner	Property ID	Owner/Physical Address
Bacon, Mary Freida Reed	978905087413	3378 Springvalley Rd, Delhi, NY 13753
Simmons, Eddie Lee & Simmons, Salley A	978905183790	102 California Ln, Manteo, NC 27954
Wise, Claude E; Carolyn W. Minton & Heirs	978905182351	1159 Austin St Box 12, Corolla, NC 27927
Slott, Dr Steven Davis	978905182012	2273 W Front St, Burlington, NC 27215
Reed, Frederick E & Reed, Dawn	978905196178	3378 Spring Valley Rd, Delhi, NY 13753
Drumspot LLC	978906298324	PO BOX 15, Corolla, NC 27927

The NCONEMAP.com derived property boundaries, as well as the delineated waste boundary are presented in the attached **Figure 1**, Topographic Map.

1.1 Construction Access Considerations

Construction access agreements for the above properties are required prior to construction. In addition, access through a privately-held "entrance" tract will be required at the western terminus of Sir Walter Raleigh Street. Although the road pavement continues into tract 978905199482, the easement for Sir Walter Raleigh Street ends only a short distance into tract 978905199482. An improved construction access road into the interior of the project area will be necessary to complete the planned remediation; as such, access authorizations are required before remediation efforts are initiated. It is also noted that a semi-permanent residence and houseboat "compound" is located within the path of the planned access road alignment. It will be necessary to contact this property owner/proprietor to inquire the nature of this arrangement, and request that the access be placed as shown in the Plan. An access arrangement should be premised upon allowing entry by this owner/proprietor to the locked construction entrance gate.

1.2 Background and Vicinity Characteristics

Much of the following background information was published within S&ME Inc's (S&ME's), *Remedial Investigation Summary Report (RISR)* dated October 22, 2025. The Manteo Dump operated from approximately 1948 to 1972; however, no historical landfilling records were identified for the facility with regard to waste quantity, type, and/or placement boundary. Reported observations of waste included: rusted metal debris within the center portion of the Site; a concrete mixing silo within the northeastern portion of the Site; metal, concrete, and bricks within the eastern portion of the Site; and, propane tanks, metal, tires, concrete, bricks, and glass within the central portion of the Site. The Site is covered with woodland and brush on the eastern side of the property, and the western portion is observed as marshlands.

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The Site is located within an area zoned as medium density residential. The surrounding land use is primarily woodlands to both the north and south, residential to the east, and an apparent extension easement for Sir Walter Raleigh St inclusive of an unnamed (tidal) canal traverses along the south and the west. The Croatan Sound lies proximal to the greater project area to the south and west. The topography of the property is relatively flat, with intermittent inundated areas; and, presumed to slope gradually south-westward toward the Sound.

1.3 Site Geology, Hydrogeology, & Soil Survey

According to the Geologic Map of North Carolina, dated 1985, the Manteo Dump is located within the Coastal Plain Physiographic Province. More specifically, the site is underlain by the surficial deposits formation which consists of sand, clay, gravel, and peat deposited in marine. The source of groundwater in Dare County is precipitation in the form of rain. A portion of the precipitation infiltrates into the ground and moves under the influence of gravity to the water table. Dare County is a lowland plain moderately dissected by streams. Inter-stream areas are generally low, and most of the larger streams are bordered by wide flood plains. Based upon a review of topographic maps, groundwater at the site is anticipated to generally flow to the west/southwest.

According to the online Natural Resources Conservation Service (NRCS) National Cooperative Soil Survey (Web Soil Survey) data for Dare County, generally the Site is classified as the Psamments, 0 to 6 percent slopes (PsB) on the east and center portions, and Hobonny muck, 0 to 1 percent slopes (HoA) on the west portion. Psamments soil type is excessively drained with high to very high (5.95 to 19.98 in/hr.) saturated hydraulic conductivities (Ksat). Psamments soils are derived from parent material of spoils with depths to groundwater of at least 80 inches below the ground surface (bgs), and low available water supply about 4.8 inches. Hobonny muck soil type is very poorly drained with moderately high to high (0.57 to 1.98 in/hr.) saturated hydraulic conductivities (Ksat). Hobonny muck soils are derived from parent material of herbaceous organic material and/or woody organic material with depths to groundwater of at 0 to 6 inches below the ground surface (bgs), and very high available water supply about 13.6 inches.

1.4 Sensitive Environments

S&ME contacted State and Federal agencies requesting information about documented sensitive environments within 1,000 feet of the waste disposal area. The North Carolina Division of Coastal Management (NC DCM) stated that there is an abundant wetland vegetation in the project area, and this agency would need more specific project details before commenting upon Coastal Area Management Act (CAMA) rules. In addition the DCM stated that coastal wetlands may represent an area of concern.

The North Carolina Division of Water Resources comments confirmed that the subject site is located in the Roanoke Island-Croatan Sound watershed which is in the Pasquotank River basin, that the project area drains directly into the Croatan Sound, and that the area is located in an area of the Pasquotank River Basin identified as Environmental Sensitive.

1.5 Jurisdictional Wetland Delineation

S&ME's February 2025 *ACOE Jurisdictional Determination Request Report* presented the following discussion. S&ME's natural resources personnel visited the site to conduct wetland delineation services on September 2022, July 2023, and February 2024. Following its initial field investigation, S&ME determined that wetlands were present. The USACE visited the site on April 2, 2024, and issued concurrence with the delineation via email on April 8, 2024. On April 18, 2024, Ms. Yvonne Carver of the NC Department of Environmental Quality (DEQ)

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Division of Coastal Management (DCM) visited the site for the purpose of determining the Normal Water Line and establishing the Area of Environmental Concern (AEC) as it pertains to permitting for the Coastal Area Management Act (CAMA). After reviewing the waste boundary delineation performed during a geophysical and soil boring investigation, the wetland delineation was resubmitted to the USACE to exclude wetlands that formed above the waste in December of 2024. On January 7, 2025, the United States Army Corps of Engineers (USACE) concurred with the delineation in an email. Copies of correspondence and supporting documents are included in **Appendix A**.

1.5.1 CAMA Specific Discussion

In April of 2024, S&ME requested a regulatory environmental scoping meeting to discuss the plans for remedial actions and to receive regulatory comments and concerns regarding the project. This July of 2024 meeting was attended by the following agencies: the North Carolina Division of Coastal Management (NCDCM), US Army Corps of Engineers (USACE), North Carolina Division of Water Resources (DWR) US Fish and Wildlife Service (USFWS), North Carolina Wildlife Resource Commission (WRC), National Marine Fisheries Service (NMFS), North Carolina Historic Preservation Office (SHPO), North Carolina Natural Heritage Program (NHP), North Carolina Division of Energy, Mineral, and Land Resources (DEMLR), Public Water Supply Section (PWSS), etc. During this meeting, questions and feedback on the project were exchanged, and guidance on next steps in the CAMA permitting process was addressed. CAMA representatives determined that if placement of fill occurred within the 30 and 75-foot Area of Environmental Concern (AEC), a major CAMA permit will be required. The meeting concluded with the finding that formal permitting would be addressed following the submittal of a CAMA application. See the compendium of wetland delineation discussion and agency communications attached within **Appendix A** of this Draft RAP.

1.6 Topographic and Boundary Survey

A topographic and boundary survey of the Manteo Dump was conducted in April and May of 2025. The boundary portion of the survey was problematic. S&ME's subcontract surveyor, Regional Land Surveys, Inc (RLS) subsequent attempts to confirm the property boundary conditions for three adjacent properties (Simmons, Wise, and Slott) via deed research were unsuccessful. As such, the questionable boundaries are illustrated with dashed lines, and should be considered approximate and unconfirmed within the Notice of Environmental Contamination Plat included in **Appendix B**. The results of the survey were provided to S&ME in CAD format, and have been utilized to prepare the Draft Erosion & Sediment Control (E&SC) Plan included in **Appendix C** of this Draft RAP.

1.7 Waste Disposal Area Delineation

1.7.1 Initial Geophysical Survey

Soon after a February 2024 clearing effort, S&ME subcontracted Geo Solutions Limited, Inc. (Geo Solutions) to conduct a geophysical survey within the accessible portions of the current investigation area utilizing the Frequency Domain Electromagnetic (FDEM) method, to identify the lateral extent of landfill waste material. It should be noted that the presence of shallow water with a high saline content complicated the process of defining the extents of the non-metallic buried waste along the northern adjacent parcel.

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1.7.2 Subsequent delineation via Soil Boring Methods

S&ME's subcontracted Environmental Drilling and Probing Services LLC (EDPS) in March of 2024. A track-mounted Geoprobe® utilized small diameter augers to advance a total of 20 borings to a maximum depth of 10 feet below ground surface (bgs). Surface waste was encountered at the majority of the boring locations in the form of glass, concrete, bricks, metal, and tires. Subsurface waste on the western/southwestern portions of the site was encountered to an approximate depth of five feet below ground surface (ft-bgs). Due to apparent wetlands located to the south, west, northwest, and within the central portion of the Site, boring activities were constrained to areas with firm ground surfaces. Due to the presence of the canal, the edge of waste was not determined to the east. In general, the overall extent of buried waste likely extends minimally farther to the south / southwest of the investigation area, to the edge and partially into the wetland areas.

1.7.3 Waste Volume Estimate

Waste volume calculations within the footprint of the delineated WDA were performed based on the depth of waste observed within the soil borings (waste delineation, monitor well, and soil cover) that have been completed by S&ME under Task Orders 270DP-1 through 270DP-9. It should be noted that a significant portion of the estimated waste volume could reasonably be considered as surface waste as there was no observed cover material over approximately half of the waste area. When the entirety of the observed waste body was identified as the WDA, the calculated waste area encompassed a (conservative) approximate 6.1 acres. Using the various soil boring data available, the calculated average waste depth is 1.63 feet. Using this area, the extrapolated waste volume was calculated to be approximately 16,000 cubic yards of waste for a flat base for the WDA. Assuming an undulating base with an average waste thickness of 2.5 feet, a more conservative approximate waste volume of 24,600 cubic yards could be derived.

1.8 Surface Waste

Surface waste is generally ubiquitous, and consists of glass, concrete, bricks, metal, and tires. Surface debris was noted to extend beyond the property boundary to the south of the Site. Surface debris appeared to generally end to the west and south, along the line where the property transitioned into wetlands, as well as to the eastern property boundary. Surface debris was generally observed to extend from the edge of the apparent wetland as defined by a slight elevation drop of approximately 1-2 feet. Much of the surface currently visible at the Site was included in the waste volume estimate presented in the forgoing section (i.e., the lack of soil cover material makes the assignation of buried waste verses surface waste problematic). For the purpose of this Draft RAP, an arbitrary volume of 500 cubic yards of surface waste has been estimated.

2.0 MEDIA CHARACTERIZATION

The following media details were previously presented in S&ME's RISR; where necessary, the original S&ME reports were likewise utilized to present the media synopsis presented below.

2.1 Above-Ground Vapor Survey

An above-ground vapor survey was conducted over 5 of the 6 tracts containing wastes and/or adjacent to the assumed WDA. At each location on the 50 x 50 foot grid, measurements of methane, hydrogen sulfide, carbon dioxide, oxygen, and total volatile organic compounds (VOCs), as well as environmental parameters to include

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temperature, relative humidity, and barometric pressure were recorded. The above-ground LFG survey measurements indicated no positive readings for methane, hydrogen sulfide, or mercury. Minimal VOC readings were observed; consistent with background levels.

2.2 Soil Cover Investigation

No soil cover evaluation (or sampling) was performed due to exposed surfacing waste observed across much of the investigation area.

2.3 Surface Water Investigation

Surface water assessment included the collection of one water sample from the canal traversing the east-central perimeter of the Site. Sulfate was reported above the 15A NCAC 02B Surface Water Standard at 947 milligrams per liter (mg/L).

2.4 Groundwater Investigation

Groundwater assessment included the installation and sampling of seven groundwater monitor wells (MW-1 through MW-7), conducted in October of 2022. In addition, the groundwater assessment extended onto five adjacent properties utilizing temporary wells in July of 2023; and five additional temporary wells in March of 2024. During drilling, a petroleum odor and accompanying elevated photoionization detector (PID) reading was noted at approximately 5.0 feet below the ground surface (bgs) in the location of MW-2, located within the northeastern portion of the Site. Groundwater samples were collected and analyzed, wherein multiple compounds were detected at concentrations exceeding their respective NCAC 2L North Carolina Groundwater Quality Standards (2L Standards) to include ammonia and sulfate, the metals antimony, arsenic, cadmium, cobalt, lead, manganese, nickel, and vanadium, and the VOC parameter naphthalene.

2.5 Potable Water Supply Well Sampling

One potable water supply well (WSW) located within the 1,000 foot radius for the Site, a residential WSW location at 1301/1305 Burnside Road located north of the Manteo Dump and identified as WSW-01, was sampled on two occasions. The metals manganese and zinc were reported above their respective 2L Standards.

2.6 Landfill Gas Investigation

Although traditional soil gas probes were not installed due to shallow groundwater conditions, four temporary soil gas flux chambers (FC-1 through FC-4) were used to assess near surface landfill gas (LFG) conditions in June of 2023. The laboratory reported no VOCs at concentrations exceeding the NCDEQ Residential or Non-Residential Soil Gas Screening Levels (SGSLs).

2.6.1 Groundwater / NCDEQ Risk Evaluation

The NCDEQ Risk Calculator was utilized to evaluate the risks of contaminants of concern identified in groundwater. The Calculator indicated that sitewide risk for groundwater usage was exceeded for both carcinogenic risk and the noncarcinogenic hazard index for the residential and nonresidential worker receptors.

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3.0 FEASIBILITY STUDY

S&ME prepared a Feasibility & Cost Estimations for Cover Remediation dated July 9, 2025 presenting the potential feasibility of an engineered vegetated soil cover system to be constructed over Manteo Dump's WDA. The overall feasibility of potential remediation (i.e., placement of soil cover over an approximate 6.1 acre portion of the 5.845 WDA) to include an implementation cost estimate and work schedule was developed. The following general categories comprised the feasibility study:

- ❖ Protection of Human Health and the Environment;
- ❖ Compliance with Applicable Federal, State and Local Regulations;
- ❖ Long-Term Effectiveness and Permanence;
- ❖ Reduction of Toxicity, Mobility, and Volume;
- ❖ Short-Term Effectiveness;
- ❖ Implementability;
- ❖ Cost; and
- ❖ Community and Industry Acceptance.

Based upon the July 9, 2025 Feasibility Study and Cost Estimate, NCDEQ selected Option 1: Standard Soil Cover over Demarcation Fabric. See the July 9, 2025 Feasibility Study and Cost Estimate report for details.

4.0 REMEDY

4.1 Remedial Action Plan Goals

This Draft RAP presents the project outline and engineering design for the risk-based remedy. The goal of this remediation effort is to establish a dermal barrier between underlying waste, and human or other activity that might reasonably be expected to occur at the surface of the WDA. In situations where existing soil is not present or the Manteo Dump WDA is covered in thick woody vegetation, the WDA must be cleared of woody vegetation and covered with imported soil to achieve the 12 inch dermal barrier goal. The NCDEQ PRLF Unit's Guidelines For Addressing Pre-Regulatory Landfills And Dumps dated February 2025 (the Guidance) stipulates that the WDA must be covered with a minimum of 12 inches of soil, aggregate, or a soil/aggregate mixture suitable for unrestricted use and supports vegetative growth. Infilling with a clean soil barrier meets the risk based criterion established in the Guidance, while providing a fiscally responsible remedy.

4.2 Remedy Summary and Anticipated Construction Sequence

The following step-wise phased work summary is anticipated:

- ❖ The existing access (currently a rough driveway) into the interior of the Site will be improved to accommodate trucking. The existing alignment will be cleared and graded, and an ABC stone access road will be constructed (it is important to note that formal access authorization will be necessary to complete the road).
- ❖ Existing groundwater monitoring wells located in the footprint of construction will be properly abandoned prior to the Work.



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- ❖ An E&SC plan will be generated as acceptable to the N.C. Division of Energy, Mineral, and Land Resources (NC DEMLR), and planned stormwater retention measures consisting of sedimentation basins and accoutrements, temporary drainage swales, and silt fence will be constructed.
- ❖ A minimum of one temporary construction entrance (i.e., access point typically constructed of 2 to 5-inch rock particulate) to protect Sir Walter Raleigh from sedimentation, and be removed at the completion of work.
- ❖ A temporary access road will be cleared, along a portion of the eastern boundary of the project area.
- ❖ Approximately 250 feet of chain-link security fencing, and one swinging access-control gate will be extended across the construction access road.
- ❖ A minimum of two temporary construction laydown areas will be integrated into the planned road alignment.
- ❖ The entirety of the WDA and E&SC measure footprint(s) will be cleared and grubbed, and the resulting vegetative debris will be removed and transported offsite to a facility permitted to receive such wastes.
- ❖ Collect, through a combination of mechanical and hand methods, approximately 500 cubic yards of surficial waste and transport same offsite to a disposal facility permitted to receive such waste materials. Tires and relatively large debris and scrap metal may be segregated, and transported offsite to separate permitted facilities for disposal.
- ❖ Rough grading/compaction will be performed prior to placing a warning demarcation fabric layer upon the entirety of the delineated WDA.
- ❖ Rough grade and cover waste pavement area with onsite-derived fill prior to cover system installation.
- ❖ Orange, nonwoven demarcation fabric will be placed upon the compacted subbase (the resulting WDA surface).
- ❖ Screened structural fill will be imported and placed in a 6-inch thick lift upon the demarcation fabric; and, compacted to 95% standard proctor condition.
- ❖ Screened topsoil will be imported and amended with organic fines, fertilizer, and lime on site. Amended topsoil will be placed in a 6-inch thick lift upon the initial fill; topsoil will be tracked into place in such a way as to remain stable through the 12-month warranty period.
- ❖ Removal of contractor laydown areas, internal driveway accesses, contractor entrance, and security fencing.
- ❖ Construction of a permanent access road (placed over the previous access road alignment) along the entire length of the project area.
- ❖ Entirety of cover system(s) and disturbed areas will be matted & hydroseeded/hydromulched in such a way as to produce vegetative stability acceptable to the NC DEMLR.
- ❖ Upon reaching vegetative stabilization, temporary E&SC measures will be removed under authority of the NC DEMLR.

4.3 Health & Safety

Site work will be conducted in accordance with applicable OSHA safety and health requirements, administered under the Subcontractor's site-specific health and safety Plan (HASP). The planned waste containment effort outlined herein will be conducted by personnel who have been formally trained to conduct the work under project conditions. According to the Guidelines, the existence of waste within the property necessitates the need for field personnel to be currently and consistently certified under OSHA HAZWOPER standards. In addition, construction

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management personnel will be certified under OSHA Competent Person requirements with respect to excavation and trenching. These training and experience standards are anticipated to result in protocol which enhance both the construction implementation process, and the resulting cover system upon completion.

4.4 Asbestos Management

It is the understanding of S&ME that waste materials with the potential for containing asbestos may be encountered at the Site. An Asbestos Management Plan (AMP) will be prepared to meet requirements set forth in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) during waste excavation, and/or if asbestos-containing material (ACM) is identified or suspected to be present during the RAP excavation and other associated processes. The AMP should be produced and/or reviewed by an Asbestos Abatement Project Designer who is accredited with the North Carolina Department of Health and Human Services. The AMP should describe methods required to prevent the airborne release of asbestos fibers during the excavation, loading, and potential transportation and disposal of suspect ACM. Current expectations are that the AMP will require wetting of the suspect ACM prior to and during excavation and/or stockpiling. If suspect ACM is encountered, the AMP may require air monitoring of the excavation work area and nearby areas for asbestos fibers to meet NESHAP regulations. Finally, it is likewise the understanding of S&ME that in most cases suspect ACM will be collected, temporarily containerized, and ultimately transported offsite to a facility permitted to receive such wastes.

4.5 Erosion and Sediment Control Plan & Permitting

An E&SC permit application package will be prepared in general accordance with the applicable provisions of the North Carolina Sedimentation Pollution Control Act of 1973, Title 15A, Chapter 4 of the North Carolina Administrative Code, and the North Carolina Erosion and Sediment Control (E&SC) Planning and Design Manual for a total disturbed area of approximately 7 to 8 acres. The E&SC Plan will be comprised of engineering drawings and a narrative that describes the construction, operation, and maintenance of erosion control measures for this project; both temporary and permanent in nature. A phased deconstruction of temporary measures and/or construction of appropriate permanent measures will be necessary under DEMLR review. Temporary measures include construction of multiple stormwater basins; trenches, swales, and check dams; composite filter socks; and, perimeter silt fencing. It is the intention of S&ME to prepare and submit the initial E&SC Permit Application package prior to selection of a primary Subcontractor. Upon receipt, the resulting E&SC Permit will be transferred to the Subcontractor following subcontractor selection. The Subcontractor will be required to warrant full, timely, and formal acceptance of the E&SC Permit transfer as a condition of the Subcontractor's terms of work.

4.6 Construction Access Road & Entrance, Contractor Laydown Area(s)

The 20-foot wide alignment will require clearing and grubbing prior to permanent access road construction. The alignment will be graded to flatness, and backfill and culvert crossings will be placed for the purpose of subgrade stabilization. Following compaction, the subgrade will be covered in woven geotextile and overlain by a 4-inch thick lift of compacted ABC stone. The access road will be completed by a temporary construction entrance situated at the eastern terminus at Sir Walter Raleigh Steet. This road should be brought to original plan specification conditions immediately prior to subcontractor demobilization. It is important to note that formal access authorization will be necessary to complete that portion of the road where the existing Sir Walter Raleigh Steet asphalt pavement terminates.

Draft Remedial Action Plan

Manteo Dump

Sir Walter Raleigh Street, Manteo, Dare County, North Carolina

NCDEQ Task Order 270RA-2

NCDEQ No. NONCD0000270



Two temporary contractor laydown areas are proposed, one to be placed at each end of the project area to accommodate incoming materials. The laydown areas will be of similar construction to the adjacent access roadbed, and be connected to same.

4.7 Site Preparation and Clearing

The Site will require clearing and grubbing prior to, and concurrently with implementation of remedial activities. Only those areas necessary to install E&SC devices, and construction entrances inward from Sir Walter Raleigh Street will be initially grubbed. Stumps encountered within a ten-foot perimeter buffer inside the limits of disturbance (LOD), and adjacent to the south-eastern perimeter with the adjoining wetland, will be ground in place to limit initial disturbance. Once the temporary E&SC measures have been installed, the remainder of the work will be completed in the general sequence presented in the E&SC Plan. The remaining trees and brush will be removed, and temporarily stockpiled or immediately removed from the Site. Although removal of all vegetative debris from the landfill property is mandatory, means and methods for disposal at a facility permitted to receive vegetative wastes, are at the Subcontractor's discretion. Initial mulching of vegetative materials onsite, or transporting vegetative debris offsite intact are both acceptable. Vegetative debris (observed to be free of MSW debris) must be disposed of at a facility having an active E&SC permit with the NC DEMLR (and any other permits necessary to receive waste originating at an NC DEQ PRLF Unit landfill).

Tree stumps (i.e., root balls) may be removed entirely and transported offsite, or ground in place as according to the circumstances described above. Root balls will be assumed to contain municipal solid waste (MSW) debris, and require disposal at a Class D permitted facility. Throughout the project, the Subcontractor shall control the offsite migration of sediment and sediment-rich water at all times and in all instances. Burning of stumps, vegetation and/or waste is not permitted.

4.8 Collection and Transfer of Surface Waste

Surface waste is present in proximity to the WDA; and, will be collected and removed to a distance of 25 feet beyond the delineated WDA using both mechanical and hand methods. Where surface waste extends beyond the planned limits of disturbance (LOD) line shown in the E&SC Plan, this waste must be collected via hand methods (i.e., resulting in the 25-foot clean perimeter buffer introduced in the previous sentence). Surface waste estimated at approximately 500 cubic yards will be transported inward, and placed under appropriate compaction. Materials that protrude above the graded landfill surface (the subgrade for the planned cover system) prior to cover system placement will be removed, and ultimately transported from the project area. White goods, scrap metal objects, and tires will be segregated for the purpose of recycling and/or disposal at an appropriate offsite facility. Scrap metal should be recycled by the Subcontractor.

4.9 Excavation and Transfer of Buried Waste

The boundary of the WDA has been previously delineated; however, this boundary should be understood as a close approximation of the underlying waste materials. In the event that the boundary illustrated in the E&SC Plan is observed as different from the actual orientation of the WDA, the Project Engineer will be informed by the Subcontractor promptly. Upon receipt of guidance from the PRLF Unit, the Engineer will make a time-sensitive determination to either extend the limits of the planned cover over the observed WDA, or to excavate and remove certain waste materials from the project area. The efficacy of the waste excavation will be dependent upon the bottom conditions, as determined by the S&ME Engineer; and, bottom of excavation confirmational

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sampling services of the underlying soil surface may be conducted as necessary. The subcontractor will not initiate any backfill operations of areas formerly containing waste without authorization to proceed from the Engineer. Following receipt of the results of expedited analytical testing conducted by NCDEQ remediation Contractor, limited structural backfilling will likely be necessary within the voids resulting from waste relocation. Throughout the remedial effort, temporary mulching and seeding of disturbed areas shall be conducted under the requirements outlined in the Plans and Specifications.

4.10 Engineered Cover System Overview

An engineered cover system will be used to prevent dermal exposure to physical or chemical hazards created by the WDA. The Guidance stipulates that the WDA must be covered with a minimum of 12 inches of clean soil, aggregate, or a soil/aggregate mixture suitable for unrestricted use and must support vegetative growth. The 12-inch thick standard soil engineered cover system is typically comprised of 6 inches of structural material overlain by 6 inches of amended topsoil, underlain and supported by geotextile demarcation fabric. A 12-inch-thick soil cover applied above the fabric is intended to stabilize the landfill cover system, as well as provide an additional buffer between the land surface and the waste to alleviate exposure, and thereby reduce toxicity in the surrounding environment. The resulting surface of the remedial work presented herein will be further stabilized via vegetation consisting of grasses and native plants appropriate for the Site's regional location. Land use restrictions recorded on the deed, and conforming with applicable federal, state and local regulations will be implemented.

4.11 Land Grading

Areas will be cleared/grubbed and graded and receive placement of incoming soils in general compliance with the estimated construction schedule. Remediation will be conducted in four phases aligning with:

- ❖ Onsite mobilization and initial E&SC construction;
- ❖ Placement of the engineered cover system presented in the E&SC Plan;
- ❖ Deconstruction of temporary and construction of permanent E&SC measures and final cleanup; and
- ❖ Final E&SC measure removal, demobilization and post-construction efforts.

Hummocks currently exist northward and northwestward of the planned access road alignment. These materials will be pushed inward over the WDA footprint in an effort to achieve planned grades until the material is exhausted. Placement of the planned cover system components will be initiated promptly upon achieving the intermediate subgrade presented in the E&SC Plan. The cover system's structural fill unit will be constructed as indicated in the E&SC Plan, utilizing offsite soil materials exclusively. The topsoil unit will likewise be composed of imported soils, amended per results of formal soils testing (administered through Dare County Soil & Water Conservation District or the NC Department of Agriculture and Consumer Services Soils Lab), and permanently stabilized via hydroseed/Hydromulch methods as outlined in the E&SC Plan. After vegetation is established, the temporary E&SC measures will be removed, and those areas will be stabilized. Conversion of temporary E&SC measures to permanent status will be coordinated with the NC DEMLR. Pavement materials comprising interior construction accesses and contractor laydown areas will be removed, and transported from project areas. Those previously paved areas will be restored via grading and seeding as necessary to promote permanent stabilization.



Draft Remedial Action Plan

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4.12 Demarcation Fabric

Underlying demarcation fabric will consist of orange, non-woven, 4 to 6-ounce fabric, which is intended to indicate where buried waste is present. The NCDEQ PRLF Unit Guidance indicates TenCate Geosynthetics Mirafi 140NL/O would be acceptable for utilization during upcoming remediation efforts. This nonwoven geotextile will be composed of polypropylene fibers which are formed into a stable network such that the fibers retain their relative position, be inert to biological degradation, and resist naturally encountered chemicals.

4.13 Sampling and Analysis of Imported Soil

Imported soils will be required during construction of the remedial cover system. Borrow soils will be pre-sampled for toxicological and geotechnical parameters. If additional soil source(s) become necessary during the implementation of this remediation effort, supplementary soils will be obtained in accordance with the Guidelines, and/or PRLF Unit directives; inclusive of testing outlined herein.

4.13.1 Structural Fill Soil Acquisition

S&ME anticipates imported soils will be procured from a local sand pit facility; multiple such facilities within a reasonable transport area were identified by S&ME during its initial project research. S&ME assumes that the history of any proposed soil borrow facility will be formally investigated under separate task authorization administered by the PRLF Unit. The selected borrow source soils will be tested, wherein soil samples will be collected at the approximate rate(s) outlined in Appendix G of the most recent version of the DEQ Guidelines. Soil samples will be analyzed for the following analytical parameters:

- ❖ Volatile Organic Compounds (VOCs) by EPA Method 8260B;
- ❖ Semi-volatile Organic Compounds (SVOCs) by EPA Method 8270D;
- ❖ 1,4-dioxane by EPA Method 8260 or 8270 SIM;
- ❖ 14 priority pollutant metals by EPA Method 6020;
- ❖ Hexavalent Chromium by EPA Method 7471B; and
- ❖ Mercury by EPA Method 7471B;
- ❖ Ammonia by EPA Method 350.1; and
- ❖ Nitrate & Sulfate by EPA Method 9056A.

Structural fill soils from the selected borrow facility will also be evaluated by the Engineer for geotechnical parameters. If/when an alternate borrow source is utilized for cover system construction, those soils will be tested for geotechnical parameters as soil classification and density by the following test methods:

- ❖ Natural Moisture Content by Method ASTM D-2216;
- ❖ Laboratory Compaction Test (Standard Proctor) by Method ASTM D-698;
- ❖ Grain Size with Hydrometer by Method ASTM D-422; and,
- ❖ Atterberg Limits by Method ASTM D-4318.



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Following placement and compaction, structural fill soils will be evaluated for compaction requirements in the field by the following test method:

- ❖ Field Compaction Test (by selected ASTM Methods).

4.14 Protective Cover Structural Fill & Backfill Soil

Protective structural fill soils will compose approximately six inches of the proposed cover system overlying the demarcation fabric. S&ME anticipates that the Subcontractor will obtain structural fill soils as described above, and estimates approximately 11,600 cubic yards of structural fill and vegetative soil will be necessary to construct the protective cover system. Once placed, structural fill soils will be compacted to 95% standard proctor. If additional backfill areas are identified by the Engineer, backfill will be placed in approximate 12-inch thick lifts, and compacted to 95% standard proctor resulting in approximate 8-inch thick layers.

4.15 Topsoil (Vegetative Cover Soil)

Specialty vegetative topsoil will compose the upper six inches of the proposed cover system overlying the structural fill layer. Vegetative soils will be prepared by amending acceptable soils in accordance with the results and recommendations of the County-derived analysis. Organic material (i.e., finely ground compost) will be used to increase the nutrient capacity of the topsoil. Compost has a high moisture retention and slow-release nutrients that will reduce the need for additional fertilization to establish vegetative growth. Promptly following amendment, the entirety of soil cover & disturbed areas in the vicinity of the WDA will be covered in rolled straw matting and Hydroseeded/Hydromulched to achieve vegetative stability. The Subcontractor will be responsible for mowing the resulting vegetated cover, to specified conditions, both during construction and until the E&SC permit is released.

5.0 PERPETUAL LAND USE RESTRICTIONS

As part of the containment remedy, Declaration of Perpetual Land Use Restrictions (DLURs) will be enacted for the Manteo Dump Properties (anticipated to include parcels 978905087413, 978905183790, 978905182351, 978905182012, 978905196178, and 978906298324). This permanent documentation will be necessary because waste, and associated contaminant impacts, will remain onsite following completion of remediation efforts; as such, Declaration of DPLURs and a Notice of Contamination or Notice of Restricted Use Plats will be prepared by the Unit for the parcels in which the WDA is situated. The Notice Plats may require amendment at a later date, following completion of the proposed cover system construction. The Declaration of DPLURs and Notice Plats will be recorded on the chain of title for each parcel to address the risk identified during the remedial investigation. The property owners will be responsible for maintaining the affected properties in compliance with the DPLURs.

6.0 POST CONSTRUCTION MONITORING PLAN

Following completion of remedial construction, E&SC site inspections will be necessary at regular intervals over a period of 12-months to assure surface stabilization has occurred. It is the understanding of S&ME that additional observations will be conducted following significant rain events, and corrective action may be deemed necessary by the Engineer within the warranty period. Site inspections will continue until deemed



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Manteo Dump

Sir Walter Raleigh Street, Manteo, Dare County, North Carolina

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unnecessary by the Engineer. Upon establishment of the vegetative cover and authorization by the Engineer in writing, the remaining temporary E&SC measures will be removed.

7.0 SEVERANCE OF MAINTENANCE RESPONSIBILITY

Responsibility for maintenance of project accoutrements (to include but not be limited to the access road and any permanent E&SC features shall become the responsibility of the individual property owners at the closure of the E&SC Permit, and in satisfaction of requirements outlined in the DPLURs. Subcontractor contractual obligations included in the one-year warranty period will be administered by the Engineer under those details presented in the E&SC Plan and Technical Specifications.

8.0 ANTICIPATED SCHEDULE

The remedial action schedule is presented below, subject to authorization to proceed and acceptance by the PRLF Unit:

Remedial Action Schedule	
Task	Approximate Schedule
<u>RAP Preparation</u>	
Submit Draft RAP & Begin Public Comment (P.C.) Period by the Unit	2 Weeks from Draft RAP Receipt by PRLF
Submit Final RAP	2 Weeks from End of P.C. period
Record Declaration Perpetual Land Use Restrictions	2 Weeks from Acceptance of Final RAP
Prepare Bid Specifications and Finalize E&SC Plan	4 Weeks from Acceptance by PRLF
Construction Procurement and Secure Contract, Submit Pre-Construction Notification	12 Weeks from RAP Acceptance by PRLF
Pre-Construction Meetings	20 Weeks from RAP Acceptance by PRLF
<u>RAP Implementation</u>	
Contractor Mobilization & Install E&SC Measures	25 Weeks from RAP Acceptance by PRLF
Complete Site Clearing, Relocation of Surface Waste, Performance of Intermediate Grading, Construction of Limited Cover, and Vegetative Stabilization; Ends with Initial Engineer’s Inspection	Approx. 36 Weeks from Contractor Mobilization
Prepare Construction Completion Report	4 Weeks from Engineer’s Inspection



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Permanent Site Stabilization (Subject to Growing Season); Ends with Removal of Remaining E&SC Measures / Engineer’s Inspection & Declaration of Substantial Completion	6 Weeks from Substantial Completion
One Year Warranty Period (Conduct Post Construction ES&C Inspections): Ends with Inspection Meeting concerning E&SC Stabilization Requirements, and issuance of Final Completion Letter prepared by the Engineer & Submitted to the Subcontractor	12 Months from Final Completion

9.0 BUDGET ESTIMATE

See the attached engineering drawings for the work phases. The remedial action (Contractor) implementation costs were estimated under the previous Feasibility Task Order RA-1B estimated below:

- ❖ Contractor Submittals, Initial Clearing, E&SC/Laydown Area Construction: **\$246,508.**
- ❖ Clearing, Grading, & Cover Construction : **\$973,947.**
- ❖ Final Construction Activities & Cleanup **\$231,900**
- ❖ Post Construction Activities & E&SC Removal: **\$18,000.**

- ❖ Estimated Total for Remedial Construction Implementation Activities: **\$1,470,355**

The remedial action (S&ME and/or Engineer) construction management, quality control, and reporting costs are estimated below:

- ❖ Estimated Total for Design, Field Oversight & Project Management Activities: **\$349,091.**
- ❖ **The Estimated Construction Grand Total is: \$1,819,446.**
 The actual fees will be in accordance with the contract conditions established at the time of execution.

10.0 REFERENCES

Information contained in the following reports was incorporated into the remedial action planning effort:

- ❖ Brown, et. al., Department of Natural Resources and Community Development, Division of Land Resources, North Carolina Geological Survey - Geologic Map of North Carolina, 1985.
- ❖ S&ME, Inc. (S&ME), Remedial Investigation Report: First Phase Activities, Manteo Dump, March 1, 2022.
- ❖ S&ME, Remedial Investigation Report: Delineation Phase Report, Task Order 270RI-5, Manteo Dump, December 1, 2022.
- ❖ S&ME, Remedial Investigation Report: Delineation Phase Report, Task Order 270RI-7, Manteo Dump, November 14, 2023.



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NCDEQ Task Order 270RA-2

NCDEQ No. NONCD0000270

- ❖ S&ME, Remedial Investigation Report: Delineation Phase Report, Task Order 270RI-11, Manteo Dump, July 22, 2024.
- ❖ S&ME, Remedial Investigation Summary Report, Task Order 270RI-12, dated October 22, 2024.
- ❖ S&ME, ACOE Jurisdictional Determination Request Report, Task Order 270RI-10, dated February 3, 2025.
- ❖ S&ME, Remedial Investigation Report: Water Supply Well Sampling Event Report, Task Order 270RI-13, dated April 21, 2025.
- ❖ S&ME, *Feasibility Study & Cost Estimate*, Task Order 270RA-1B, dated July 9, 2025.

11.0 SOLE USE STATEMENT

This report is solely intended for use by the NCDEQ for the services that were performed in accordance with S&ME's (final) proposal dated July 14, 2025, as (previously) authorized by the NCDEQ PRLF via email correspondence (Keck to Channell/Palmer) July 10, 2025.

Draft Remedial Action Plan
Manteo Dump

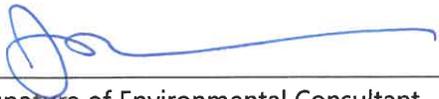
Sir Walter Raleigh Street, Manteo, Dare County, North Carolina
NCDEQ Task Order 270RA-2
NCDEQ No. NONCD0000270



12.0 CERTIFICATION

"I certify that to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete."

John Palmer / S&ME, Inc.
Name of Environmental Consultant / Company


Signature of Environmental Consultant

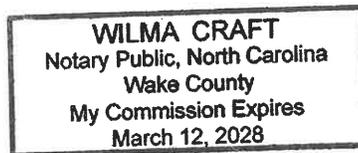
2/25/26
Date

I, Wilma Craft, a Notary Public of said County and State, do hereby certify that JOHN PALMER did personally appear and sign before me this day, produced proper identification in the form of DRIVERS LICENSE, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 25th day of February, 2026.

(OFFICIAL SEAL)

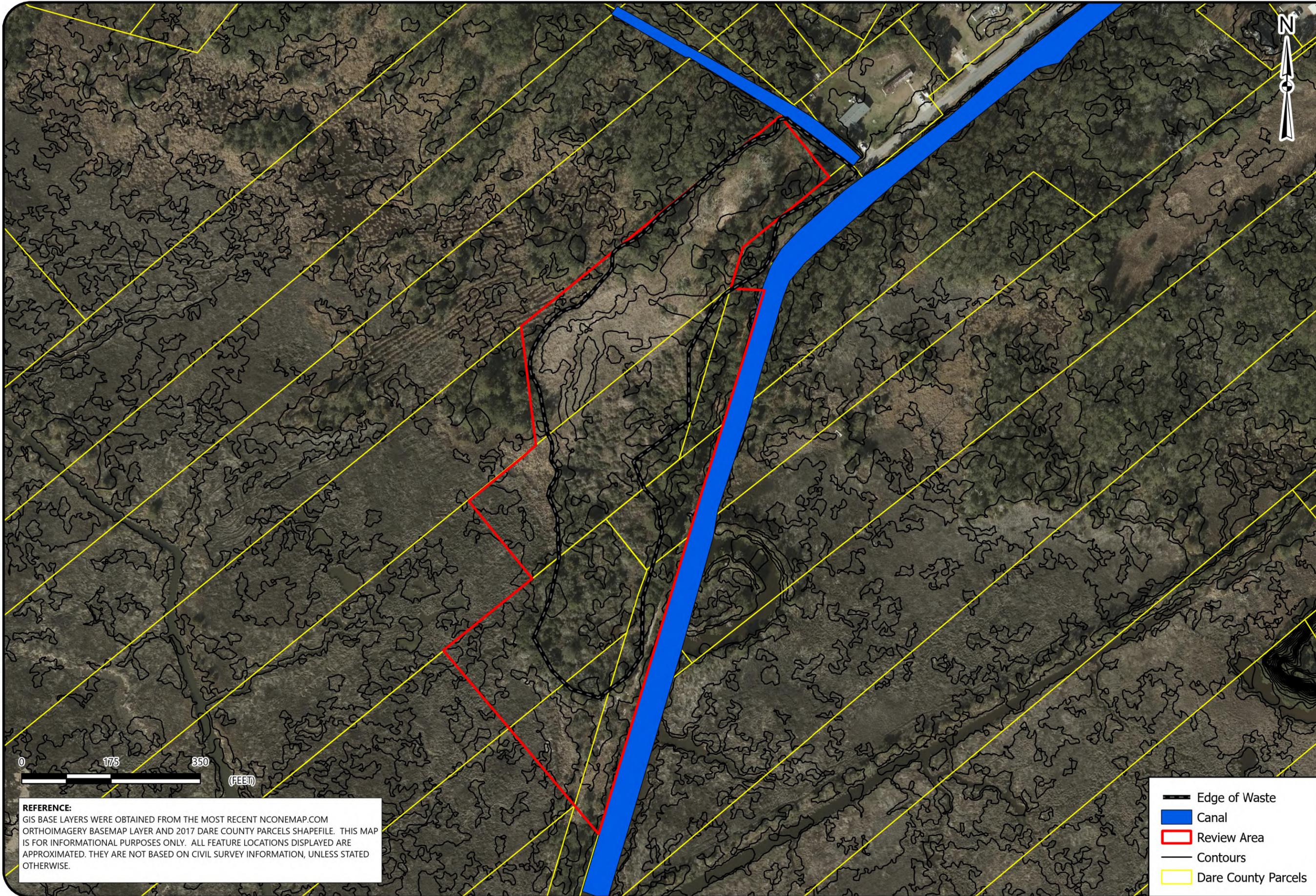
Wilma Craft
Notary Public (signature)



My commission expires: March 12, 2028

Figures

T:\Raleigh-1050\Projects\2021\215296_NCDEC_Manteo Dump_Manteo NC\GIS\Manteo Summary Report_ARCPRO



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE MOST RECENT NCONEMAP.COM ORTHOIMAGERY BASEMAP LAYER AND 2017 DARE COUNTY PARCELS SHAPEFILE. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.



- Edge of Waste
- Canal
- Review Area
- Contours
- Dare County Parcels

TOPOGRAPHIC MAP

MANTEO DUMP (NCDEQ ID # NONCD0000270) TASK ORDER 270RI-12
SIR WALTER RALEIGH STREET
MANTEO, DARE COUNTY, NORTH CAROLINA

SCALE:
1 in 175 feet

DATE:
8/30/2024

PROJECT NUMBER
215296

FIGURE NO.
1



Appendices

**Appendix A - S&ME Preliminary Jurisdictional Request and
Supporting Documentation**

Initial Delineation Concurrence Issued April 8, 2024
and Supporting Documentation

Ashley Steele Bentz

From: Walter Cole
Sent: Tuesday, April 9, 2024 5:13 PM
To: Ashley Steele Bentz; Gerald Paul
Subject: Fwd: SAW-2024-00616, Manteo Dump Site-Sir Walter Raleigh Street
Attachments: SAW-2024-00616_Delineation.pdf

Ashley send this to the CAMA agent and put email in project folder, I gave her a call and am waiting to hear back.

Get [Outlook for iOS](#)

From: Staples, Shane F CIV USARMY CESAW (USA) <Shane.F.Staples@usace.army.mil>
Sent: Monday, April 8, 2024 4:44:09 PM
To: Walter Cole <WCole@smeinc.com>
Subject: SAW-2024-00616, Manteo Dump Site-Sir Walter Raleigh Street

Walter,

Reference is made to ORM ID SAW-2024-00616, please reference this number on any correspondence regarding this action.

On April 1, 2024, the documentation submitted “Preliminary Jurisdictional Determination Request and Supporting Documentation – Manteo Dump” was reviewed using desktop tools including aerial imagery, Gen 2 LiDAR, and elevation surveys and a site visit on April 2, 2024. Based upon this review the attached delineation “Manteo Dump Sir Walter Raleigh Street – Feature Exhibit” and dated 3-14-24 has been verified as accurate. You are received this delineation concurrence per our conversation on-site April 2nd 2024.

We have reviewed the information provided by you concerning the aquatic resources, and by copy of this e-mail, are confirming that the aquatic resources delineation has been verified by the Corps to be a sufficiently accurate and reliable representation of the location and extent of aquatic resources within the identified review area. The location and extent of these aquatic resources are shown on the delineation map, labeled Manteo Dump Sir Walter Raleigh Street – Feature Exhibit.

Regulatory Guidance Letter (RGL) 16-01

<https://usace.contentdm.oclc.org/utis/getfile/collection/p16021coll9/id/1256> provides guidance for Jurisdictional Determinations (JD) and states “The Corps generally does not issue a JD of any type where no JD has been requested”. At this time, we are only verifying the delineation. This delineation may be relied upon for use in the permit evaluation process, including determining compensatory mitigation. “This verification does not address nor include any consideration for geographic jurisdiction on aquatic resources and shall not be interpreted as such. This delineation verification is not an Approved Jurisdictional Determination (AJD) and is not an appealable action under the Regulatory Program Administrative Appeal Process (33 CFR Part 331). However, you may request an AJD, which is an appealable action.

If you wish to receive a Preliminary Jurisdictional Determination (PJD), or an Approved Jurisdictional Determination (AJD) please respond accordingly, otherwise nothing further is required, and we will not provide any additional documentation.

The delineation included herein has been conducted to identify the location and extent of the aquatic resource boundaries and/or the jurisdictional status of aquatic resources for purposes of the Clean Water Act for the particular site identified in this request. This delineation may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center, prior to starting work.

Sincerely,

Shane

Shane F. Staples

Regulatory Specialist, Washington Regulatory Field Office

US Army Corps of Engineers, Wilmington District

2407 W 5th Street, Washington NC 27889

Office: 910-251-4609

Cell: 252-723-4658

Drawing Path: T:\Raleigh-1050\Projects\2021\215296_NCDEC\Manteo Dump\Manteo Dump_Manteo NC\GIS\UD\FEATURE.mxd plotted by aberntz 03-14-2024

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE NCONEMAP 2021 AERIAL ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.



Potential Wetland Water of the US
Wetland Feature W1; 3.18 ac
Represented by Flags W1.1-W1.26,
W1.1-W1.65, W1.1-W1.13



FEATURE EXHIBIT

MANTEO DUMP
SIR WALTER RALEIGH STREET
MANTEO, DARE COUNTY, NORTH CAROLINA

SCALE:
1" = 100'

DATE:
3-14-24

PROJECT NUMBER
215296

FIGURE NO.

4

- USACE Data Form Location
- Review Area
- Wetland



Final Delineation Concurrence Issued January 7, 2025
and Supporting Documentation

Ashley Steele Bentz

From: Staples, Shane F CIV USARMY CESAW (USA) <Shane.F.Staples@usace.army.mil>
Sent: Tuesday, January 7, 2025 9:15 AM
To: Walter Cole
Cc: Ashley Steele Bentz
Subject: SAW-2024-00616 Manteo Dump - Sir Walter Raleigh Street
Attachments: Feature Exhibit 11-21-2024.pdf

Walter,

Reference is made to ORM ID SAW-2024-00616, please reference this number on any correspondence regarding this action.

On December 26, 2024, the documentation submitted “Manteo Dump PJD Request” was reviewed using desktop tools including aerial imagery, Gen 2 LiDAR, and elevation surveys and updated waste location survey provided by the applicant. Based upon this review the attached delineation “Manteo Dump Sir Walter Raleigh Street – Feature Exhibit – Figure 4” dated 11-21-2024 has been verified as accurate and supersedes the previous delineation concurrence (“Manteo Dump Sir Walter Raleigh Street – Feature Exhibit” and dated 3-14-24) based on updated an updated survey of waste location.

We have reviewed the information provided by you concerning the aquatic resources, and by copy of this e-mail, are confirming that the aquatic resources delineation has been verified by the Corps to be a sufficiently accurate and reliable representation of the location and extent of aquatic resources within the identified review area. The location and extent of these aquatic resources are shown on the delineation map, labeled “Manteo Dump Sir Walter Raleigh Street – Feature Exhibit-Figure 4”.

Regulatory Guidance Letter (RGL) 16-01

<https://usace.contentdm.oclc.org/utlis/getfile/collection/p16021coll9/id/1256> provides guidance for Jurisdictional Determinations (JD) and states “The Corps generally does not issue a JD of any type where no JD has been requested”. At this time, we are only verifying the delineation. This delineation may be relied upon for use in the permit evaluation process, including determining compensatory mitigation. “This verification does not address nor include any consideration for geographic jurisdiction on aquatic resources and shall not be interpreted as such. This delineation verification is not an Approved Jurisdictional Determination (AJD) and is not an appealable action under the Regulatory Program Administrative Appeal Process (33 CFR Part 331). However, you may request an AJD, which is an appealable action.

If you wish to receive a Preliminary Jurisdictional Determination (PJD), or an Approved Jurisdictional Determination (AJD) please respond accordingly, otherwise nothing further is required, and we will not provide any additional documentation.

The delineation included herein has been conducted to identify the location and extent of the aquatic resource boundaries and/or the jurisdictional status of aquatic resources for purposes of the Clean Water Act for the particular site identified in this request. This delineation may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center, prior to starting work.

Sincerely,
Shane

Shane F. Staples

*Regulatory Specialist, Washington Regulatory Field Office
US Army Corps of Engineers, Wilmington District
2407 W 5th Street, Washington NC 27889
Office: 910-251-4609
Cell: 252-723-4658*

rrs.usace.army.mil

RRS REGULATORY
REQUEST
SYSTEM
beta

Streamline the permitting process with the
Regulatory Request System (RRS) — your new
online platform for permit applications.

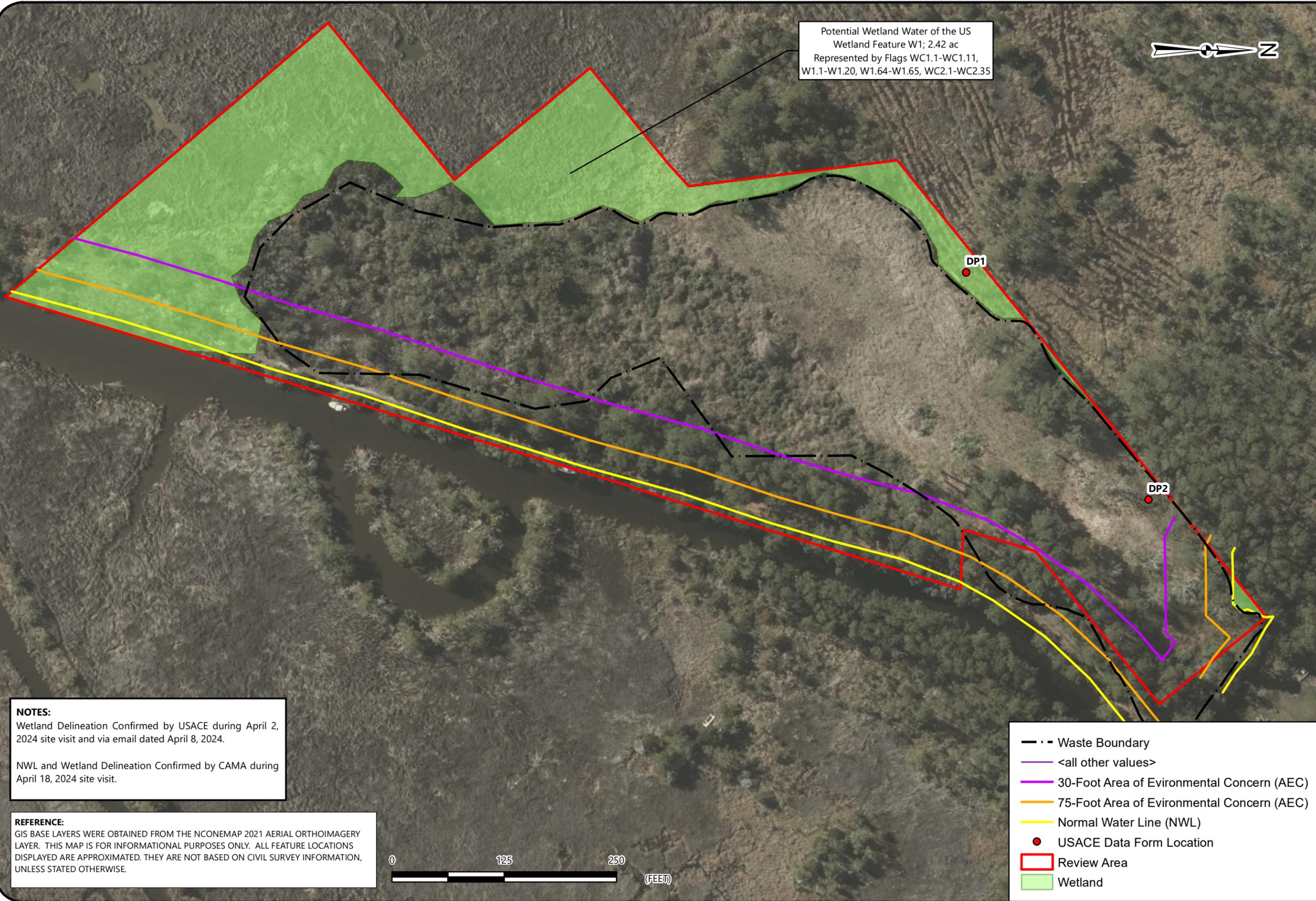
rrs.usace.army.mil

[USACE RRS Promo 90-sec \(youtube.com\)](https://www.youtube.com/watch?v=...)

Thank you in advance for completing our on-line Regulatory Service Survey located at <https://regulatory.ops.usace.army.mil/customer-service-survey/>. We value your comments and appreciate you taking the time to complete a survey each time you have an interaction with our office.



Drawing Path: T:\Raleigh-1050\Projects\2021\15296_NCDEQ_Manteo Dump.Manteo NC\GIS\JD\CAMA.mxd plotted by abentz 11-21-2024



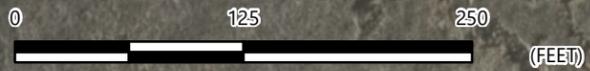
Potential Wetland Water of the US
Wetland Feature W1; 2.42 ac
Represented by Flags WC1.1-WC1.11,
W1.1-W1.20, W1.64-W1.65, WC2.1-WC2.35



NOTES:
Wetland Delineation Confirmed by USACE during April 2, 2024 site visit and via email dated April 8, 2024.

NWL and Wetland Delineation Confirmed by CAMA during April 18, 2024 site visit.

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE NCONEMAP 2021 AERIAL ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.



- Waste Boundary
- <all other values>
- 30-Foot Area of Environmental Concern (AEC)
- 75-Foot Area of Environmental Concern (AEC)
- Normal Water Line (NWL)
- USACE Data Form Location
- Review Area
- Wetland

FEATURE EXHIBIT

MANTEO DUMP
SIR WALTER RALEIGH STREET
MANTEO, DARE COUNTY, NORTH CAROLINA

SCALE:
1" = 100'

DATE:
11-21-24

PROJECT NUMBER
215296

FIGURE NO.

4

Appendix II – CAMA Related Documentation

Regulatory Environmental Scoping Meeting
Documentation

SIGN UP SHEET

INTERAGENCY/SCOPING MEETING

Multi-agency Meeting - Manteo Dump, Manteo, NC

This meeting's purpose is to discuss a proposed project and provide environmental permitting and regulatory information, which will improve communications and the permitting processes.

July 23, 2024, at 10:30 am

Web-Ex

Attendee List

Name	Agency	Phone	Email
Ashley Steele Bentz	S&ME	919-896-0758	abentz@smeinc.com
Walter Cole	S&ME		wcole@smeinc.com
Paul Gerald	S&ME		jpaul@smeinc.com
Brian Wright	Waste Management		brian.wright@deq.nc.gov
Ryan Channell	Waste Management		ryan.channell@deq.nc.gov
Richard Concepcion	Waste Management		Richard.Concepcion@deq.nc.gov
Andrea Stermer	Waste Management		Andrea.Stermer@deq.nc.gov
	Waste Management		
Brent Burch	Waste Management		brent.burch@deq.nc.gov
Drew Hammond	Waste Management		andrew.hammonds@deq.nc.gov
Caroline Causey	USFWS		caroline_causey@fws.gov
Pace Wilder	NOAA		pace.wilber@noaa.gov
Yvonne Carver	Coastal Management	252-264-3901	yvonne.carver@ncdenr.gov
Ron Renaldi	Coastal Management	252-264-3901	ronald.renaldi@ncdenr.gov
Gregg Bodnar	Coastal Management	252-515-5416	gregg.bodnar@ncdenr.gov
Wayne Hall	Coastal Management		Wayne.Hall@deq.nc.gov
Cameron Luck	Coastal Management		Cameron.Luck@deq.nc.gov
Jimmy Harrison	Marine Fisheries	252-948-3835	James.Harrison@deq.nc.gov
Samantha Wooten	Water Resources - 401		samantha.wooten@deq.nc.gov
Sue Homewood	Water Resources - 401		sue.homewood@deq.nc.gov
Allen Stewart	Water Resources - 401	252-948-3966	Glenn.Stewart@deq.nc.gov
Chris Pullinger	Land Quality	252-948-3934	chris.pullinger@ncdenr.gov
Samir Dumpor	DEMLR	252-948-3859	samir.dumpor@ncdenr.gov
Allen Stewart	Water Resources	252-948-3966	Glenn.Stewart@ncdenr.gov

NCDEQ WASHINGTON REGIONAL OFFICE

943 WASHINGTON SQUARE MALL WASHINGTON, NC 27889 252-946-6481, FAX 252-975-3716

SIGN UP SHEET

INTERAGENCY/SCOPING MEETING

Keri Sparks	DEACS	252-948-3804	Keri.Sparks@deq.nc.gov
Lyn Hardison	DEACS	252-948-3842	Lyn.hardison@ncdenr.gov

Summary from the meeting	Per TEAMS
Meeting title	Multi-agency Meeting - Manteo Dump, Manteo, NC
Attended participants	20
Start time	7/23/24, 10:21:55 AM
End time	7/23/24, 11:39:45 AM
Meeting duration	1h 17m 49s
Average attendance time	1h 3m 52s
Participants	
Name	Email
Biles, Lyn	Lyn.Biles@deq.nc.gov
Pullinger, Robert C	chris.pullinger@deq.nc.gov
Sparks, Keri E	Keri.Sparks@deq.nc.gov
Bodnar, Gregg	gregg.bodnar@deq.nc.gov
Carver, Yvonne	yvonne.carver@deq.nc.gov
Wooten, Samantha	samantha.wooten@deq.nc.gov
Stewart, Glenn A	Glenn.Stewart@deq.nc.gov
Harrison, James A	James.Harrison@deq.nc.gov
Stermer, Andrea L	Andrea.Stermer@deq.nc.gov
Dunn, Maria T.	maria.dunn@ncwildlife.org
Renaldi, Ronald	ronald.renaldi@deq.nc.gov
Pace Wilber (Unverified)	
Hall, Wayne P	Wayne.Hall@deq.nc.gov
Ashley Steele Bentz (External)	abentz@smeinc.com
Hammonds, Andrew	andrew.hammonds@deq.nc.gov
Burch, Brent	brent.burch@deq.nc.gov
Dumpor, Samir	samir.dumpor@deq.nc.gov
Concepcion, Richard C	Richard.Concepcion@deq.nc.gov
Homewood, Sue	sue.homewood@deq.nc.gov
Luck, Cameron A	Cameron.Luck@deq.nc.gov

Plan to discuss: The state's proposal is to leave the waste in place, level the site to ensure proper drainage, and then cover the waste with a non-woven geosynthetic fabric followed by six inches of topsoil to support vegetative cover.

SIGN UP SHEET

INTERAGENCY/SCOPING MEETING

Name	Invited	Response
Biles, Lyn	Meeting Organizer	None
Hall, Wayne P	Optional Attendee	None
Dunn, Maria T.	Required Attendee	None
Harrison, James A	Required Attendee	None
Pelletier, Josh R SAW	Required Attendee	None
Walter Cole	Required Attendee	None
Gerald Paul	Required Attendee	None
Ashley Steele Bentz	Required Attendee	None
Hammonds, Andrew	Required Attendee	Tentative
Staples, Shane F CIV USARMY CESAW (USA	Required Attendee	None
Renaldi, Ronald	Required Attendee	None
Carver, Yvonne	Required Attendee	None
Bodnar, Gregg	Required Attendee	None
Luck, Cameron A	Required Attendee	None
Causey, Caroline F	Required Attendee	None
Anne Deaton - NOAA Federal	Required Attendee	Declined
Pace Wilber - NOAA Federal	Required Attendee	None
May, David	Required Attendee	None
Tankard, Robert	Required Attendee	None
Boyd, Connal	Required Attendee	None
Sugg, William P	Required Attendee	None
Wooten, Samantha	Required Attendee	None
Homewood, Sue	Required Attendee	Accepted
kathryn_matthews@fws.gov	Required Attendee	None
Stermer, Andrea L	Required Attendee	None
Concepcion, Richard C	Required Attendee	None
Burch, Brent	Required Attendee	Accepted
Wright, Brian J	Required Attendee	None
Raleigh W SAW Bland (raleigh.w.bland@usace.army.mil)	Required Attendee	None
Sparks, Keri E	Required Attendee	Accepted
Dumpor, Samir	Required Attendee	Accepted
Pullinger, Robert C	Required Attendee	Accepted
Dunn, Carl	Required Attendee	None
Stewart, Glenn A	Optional Attendee	Accepted

CAMA AEC Boundaries Exhibit



FEATURE EXHIBIT

MANTEO DUMP
SIR WALTER RALEIGH STREET
MANTEO, DARE COUNTY, NORTH CAROLINA

SCALE:
1" = 100'

DATE:
11-21-24

PROJECT NUMBER
215296

FIGURE NO.

4

Potential Wetland Water of the US
Wetland Feature W1; 2.42 ac
Represented by Flags WC1.1-WC1.11,
W1.1-W1.20, W1.64-W1.65, WC2.1-WC2.35



DP1

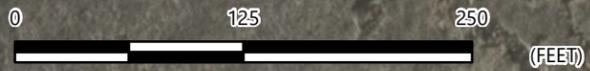
DP2

- Waste Boundary
- <all other values>
- 75-Foot Area of Environmental Concern (AEC)
- 30-Foot Area of Environmental Concern (AEC)
- Normal Water Line (NWL)
- USACE Data Form Location
- Review Area
- Wetland

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Drawing Path: T:\Raleigh-1050\Projects\2021\15296_NCDEQ_Manteo Dump_Manteo NC\GIS\JD\CAMA.mxd plotted by abentz 01-30-2025

Appendix B - Notice of Environmental Contamination Plat

DEQ ACKNOWLEDGEMENT:

APPROVED FOR THE PURPOSES OF N.C.G.S. 143-215.104M.

NAME & SIGNATURE

TITLE

DATE

STATE OF NORTH CAROLINA

COUNTY OF _____ A NOTARY PUBLIC OF SAID COUNTY

AND STATE, DO HEREBY CERTIFY THAT _____ DID

DID PERSONALLY APPEAR AND SIGN BEFORE ME THIS THE _____

DAY OF _____, 2023

NOTARY PUBLIC (SIGNATURE)

MY COMMISSION EXPIRES

REVIEW OFFICER CERTIFICATION:

STATE OF NORTH CAROLINA

COUNTY OF DARE

I, _____ REVIEW OFFICER OF DARE COUNTY, CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

REVIEW OFFICER

DATE

OWNERS ACKNOWLEDGEMENT:

I (WE) ACKNOWLEDGE THAT I (WE) HAVE FULL AUTHORITY TO LEGALLY EXECUTE A DEED FOR THIS PROPERTY.

NAME & TITLE

SIGNATURE

DATE

STATE OF NORTH CAROLINA

COUNTY OF _____ A NOTARY PUBLIC OF SAID COUNTY

AND STATE, DO HEREBY CERTIFY THAT _____ DID

PERSONALLY APPEAR AND SIGN BEFORE ME THIS THE _____ DAY OF _____, 2023

NOTARY PUBLIC (SIGNATURE)

MY COMMISSION EXPIRES

SURVEYOR CERTIFICATE

I, JEFFERY S. SMITH, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION. FROM DEED DESCRIPTION RECORDED IN DEED BOOK 2307 PAGE 308, DEED BOOK 185 PAGE 67, DEED BOOK K PAGE 281, DB 931 PAGE 719, ESTATE FILE 07E-91, DEED BOOK 583 PAGE 391, DEED BOOK 2547 PAGE 432; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN DEED BOOK AND PAGE AS NOTED; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:30,259; THAT THE PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 9TH DAY OF SEPTEMBER, A.D. 2024.

C.1) THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.
C.2) THAT THE SURVEY IS OF AN EXISTING FEATURE.

PROFESSIONAL LAND SURVEYOR L-4464

DATE 9/9/2024



I, JEFFERY S. SMITH, FURTHER CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY:

CLASS OF SURVEY: URBAN LAND SURVEY (CLASS A)
POSITIONAL ACCURACY: 0.061 (H) 0.115 (V)
TYPE OF GPS FIELD PROCEDURE: GPS/VRS
DATES OF SURVEY: APRIL 16 AND 30, 2024
DATUM/EPOCH: NAD 83 (NSRS 2011)
PUBLISHED/FIXED-CONTROL USE: NONE
GEOID MODEL: GEOID 12B
COMBINED GRID FACTOR(S): 1.000036487
UNITS: US FEET

PROFESSIONAL LAND SURVEYOR L-4464

DATE 9/9/2024

MIRIAN BARRERA-MEMBRENO

DOMINGO FLORES-VASQUEZ

DB 1980 PG 538

PIN 978905391855

SANTOS SEBASTIAN ARZU-ROCHEZ

AND NATALIE ARZU-ROCHEZ

DB 2103 PG 208

PIN 988018300081

MONTRELL BERRY

WB 22E PG 516

PIN 978906297520

MIRIAN BARRERA-MEMBRENO

AND HUSBAND

DOMINGO FLORES-VASQUEZ

DB 1980 PG 538

PIN 978905291545

WILLIAM BRANTLEY TWIFORD

JE TRUSTEE

TWIFORD FAMILY TRUST

WB 18E PG 388

PIN 978905199482

BESSIE FARROW

WB 24E PG 21

PIN 978905197298

GLORIA BANKS

DB 1772 PG 262

PIN 978906295451

JASON DEUPREE BERRY

WB 15E PG 54

PC 1 SL 96 LOT 1

PIN 978906391377

DESHAWN DWAYNE BANKS

DB 2524 PG 508

PIN 978906390390

PHYLLIS R. JAWORSKI

DB 2360 PG 236

PC G SL 80

PIN 978906299292

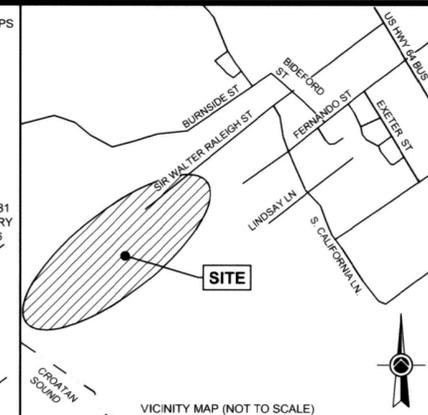
ROBERT W. LAMBERG, III

AND WIFE

RHY'S E. M. LAMBERG

DB 2546 PG 155

PC G SL 80

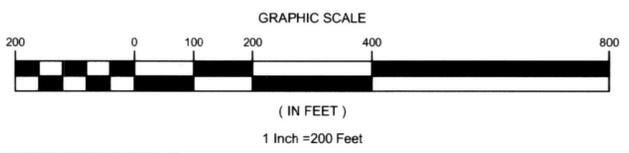


WASTE DISPOSAL AREA
TOTAL ACREAGE: 5.845
(SEE SHEET 2 FOR DETAIL)

- GENERAL NOTES
1. THE SUBJECT PARCELS BEING THE FOLLOWING DARE COUNTY TAX PARCELS: PIN 978905196178, PIN 978905087413, PIN 978905182351, PIN 978905182012, PIN 978906298324, TOWN OF MANTEO, DARE COUNTY, NORTH CAROLINA. DEED REFERENCES AS SHOWN ON FACE OF MAP.
2. UNIT OF MEASUREMENT IS U.S. SURVEY FEET (FT) UNLESS SPECIFICALLY NOTED AS METERS (M).
3. ALL DISTANCES ARE HORIZONTAL GROUND, UNLESS OTHERWISE NOTED. AREA(S) CALCULATED BY THE COORDINATE METHOD.
4. INFORMATION SHOWN HEREON IS FROM DIRECT FIELD DATA PERFORMED ON APRIL 16 AND 30, 2024.
5. NORTH CAROLINA GRID COORDINATES AS SHOWN HEREON WERE DERIVED FROM DIRECT GPS OBSERVATIONS UTILIZING THE NORTH CAROLINA GEODETIC SURVEY'S NETWORK RTK SYSTEM AND ARE REFERENCED TO THE NAD83(NSRS2011) DATUM GPS OBSERVATION PERFORMED ON MARCH 8, 2023.
6. SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, STREETS AND ASSESSMENTS, AS THE SAME MAY APPEAR OF RECORD IN THE DARE COUNTY REGISTER OF DEEDS.
7. ZONING SUBJECT PARCELS: R-2 MEDIUM DENSITY RESIDENTIAL DISTRICT.
8. THE PROPERTIES ARE LOCATED INSIDE THE 1% ANNUAL FLOOD CHANCE (ZONE AE) AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (NORTH CAROLINA FLOOD MAPPING) COMMUNITY PANEL NO. 3753489789K, DATED JUNE 19, 2020.
9. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
10. NO RESEARCH WAS PERFORMED RELATIVE TO SETBACKS, BUFFERS OR WETLANDS.
11. THE WASTE DISPOSAL AREA SHOWN HEREON WAS NOT SURVEYED. ITS LOCATION WAS PROVIDED BY S&M, INC.

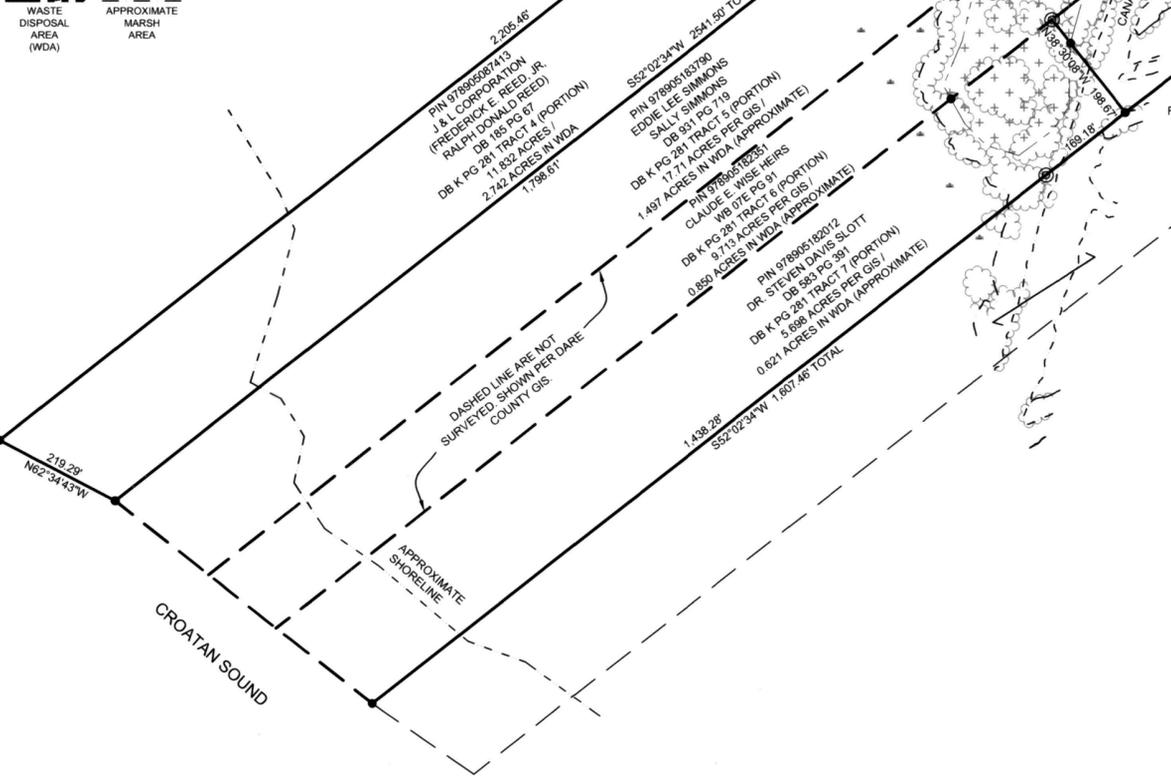
NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY NOTES
1. THE WASTE DISPOSAL AREA SHOWN HERE WAS TAKEN FROM INFORMATION PROVIDED BY S&M, INC. ON JUNE 10, 2024.
2. HAZARDOUS SUBSTANCES KNOWN TO BE PRESENT IN THE FOLLOWING ENVIRONMENTAL MEDIA ARE:
GROUNDWATER: AMMONIA AS (N), ANTIMONY, ARSENIC, CHROMIUM, COBALT, LEAD, MANGANESE, VANADIUM, BIS(ZETHYHEXYL) PHTHALATE, AND NAPHTHALENE.
3. THE CONTAMINANT INFORMATION IDENTIFIED ON THIS NOTICE PLAT IS BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF FILING.
4. THE QUANTITY OF HAZARDOUS SUBSTANCES ON THIS SITE IS NOT KNOWN.
5. PURSUANT TO 15A NORTH CAROLINA ADMINISTRATIVE CODE 02C .0107 (B)(1), THE SOURCE OF WATER FOR ANY WATER SUPPLY WELL SHALL NOT BE FROM A WATER BEARING ZONE OR AQUIFER THAT IS CONTAMINATED. THEREFORE, STATE LAW PROHIBITS CONSTRUCTION OF A WATER SUPPLY WELL ON THIS PROPERTY. FURTHER, PURSUANT TO NORTH CAROLINA GENERAL STATUTE 87-88(C) AND 15A NORTH CAROLINA ADMINISTRATIVE CODE 02C .012(A), NO WELL MAY BE CONSTRUCTED OR MAINTAINED IN A MANNER WHEREBY IT COULD BE A SOURCE OR CHANNEL OF CONTAMINATION OF THE GROUNDWATER SUPPLY OR ANY AQUIFER.
6. THIS NOTICE SUPERSEDES ANY PREVIOUS NOTICE RECORDED FOR THIS PARCEL PURSUANT TO N.C.G.S. 130A-310.8
7. A LAND USE RESTRICTIONS DOCUMENT ENTITLED "DECLARATION OF PERPETUAL LAND-USE RESTRICTIONS", LIMITING THE USES OF THIS PROPERTY, IS BEING RECORDED CONCURRENTLY WITH THIS NOTICE PLAT.
8. WHEN THIS PROPERTY OR ANY PART OF IT IS SOLD, LEASED, CONVEYED OR TRANSFERRED, NORTH CAROLINA LAW REQUIRES THAT THE FOLLOWING LANGUAGE BE PLACED IN THE DESCRIPTION SECTION OF THE DEED OR OTHER INSTRUMENT OF TRANSFER IN NO SMALLER TYPE THAN THAT USED IN THE BODY OF THE DEED:
HAZARDOUS SUBSTANCES ARE PRESENT IN ENVIRONMENTAL MEDIA AT THIS PROPERTY. A NOTICE PLAT IS RECORDED AT THE DARE COUNTY REGISTER OF DEEDS OFFICE IN MAP BOOK _____ PAGE _____

SHEET 1 OF 2
NOTICE OF ENVIRONMENTAL CONTAMINATION
MANTEO LANDFILL
SITE ID# NONCD0000270
SIR WALTER RALEIGH ST
NAGS HEAD TOWNSHIP
DARE COUNTY
MANTEO, NORTH CAROLINA



- OWNERS:
• FREDERICK REED AND WIFE DAWN REED
• J&L CORPORATION
• EDDIE LEE SIMMONS AND SALLY SIMMONS
• CLAUDE E. WISE HEIRS
• DR. STEVEN DAVIS SLOTT
• DRUMSPOT, LLC

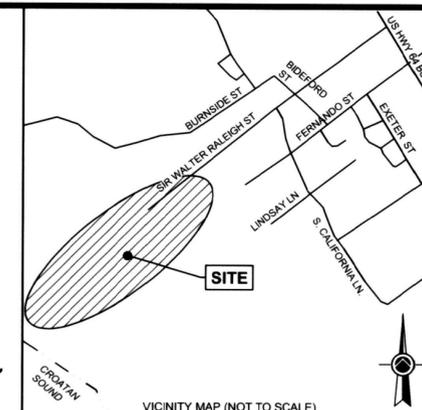
- LEGEND
- - - SUBJECT BOUNDARY LINE (SURVEYED)
- - - SUBJECT BOUNDARY LINE (NOT SURVEYED)
- - - ADJOINER BOUNDARY LINE (SURVEYED)
- - - ADJOINER BOUNDARY LINE (NOT SURVEYED)
- - - RIGHT OF WAY LINE
- - - BUILDING
- - - TREE LINE
- - - APPROXIMATE EDGE OF MARSH
- - - APPROXIMATE EDGE OF WATER
DB DEED BOOK
PG PAGE
RW RIGHT-OF-WAY
E/P EDGE OF PAVEMENT
PC PLAT CABINET
SL SLIDE
IRON PIPE SET (1/2")
IRON PIPE FOUND / IPF
REBAR FOUND / RBF
PINCHED TOP IPF / PTOFP
COMPUTED POINT
CONCRETE MONUMENT FOUND / CMN
MONITORING WELL
WASTE DISPOSAL AREA (WDA)
APPROXIMATE MARSH AREA



LINE	BEARING	LENGTH
L1	N80° 56' 44"E	11.11'
L2	S55° 09' 13"E	140.52'
L3	S47° 06' 49"E	32.77'
L4	S09° 06' 33"W	11.66'
L5	S61° 07' 22"W	35.74'
L6	S61° 07' 22"W	129.87'
L7	S14° 16' 12"W	65.98'
L8	S27° 13' 28"W	38.94'
L9	S56° 02' 46"W	94.93'
L10	S31° 26' 52"W	129.97'
L11	S00° 20' 33"E	133.04'
L12	S53° 17' 25"W	135.76'
L13	S22° 12' 05"E	38.28'
L14	S22° 12' 05"E	17.76'
L15	S43° 07' 02"E	38.13'
L16	S08° 36' 34"E	58.56'
L17	S15° 34' 16"W	57.00'
L18	S15° 34' 16"W	83.79'
L19	S01° 03' 57"W	105.70'
L20	S34° 44' 46"W	48.30'

LINE	BEARING	LENGTH
L21	S53° 24' 28"W	71.30'
L22	N72° 44' 06"W	56.41'
L23	N45° 42' 38"W	51.09'
L24	S29° 27' 39"E	48.16'
L25	S29° 27' 39"E	25.96'
L26	S22° 54' 20"W	81.85'
L27	S12° 32' 31"W	83.02'
L28	S02° 16' 36"E	26.67'
L29	S02° 16' 36"E	50.63'
L30	S22° 03' 31"E	49.14'
L31	S22° 03' 00"W	48.15'
L32	N13° 47' 55"W	90.03'
L33	N10° 03' 43"W	60.58'
L34	N19° 57' 21"W	62.38'
L35	N09° 31' 49"E	36.28'
L36	N34° 15' 14"E	71.66'
L37	N63° 13' 44"E	51.32'
L38	N43° 02' 48"E	94.83'
L39	N09° 06' 14"E	34.47'
L40	N51° 05' 31"E	353.50'

LINE	BEARING	LENGTH
L41	S71° 12' 44"W	40.96'
L42	S23° 26' 09"W	29.50'



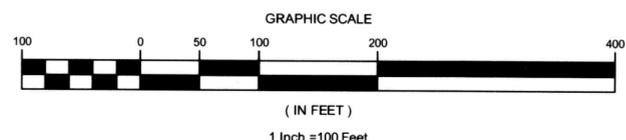
- LEGEND**
- SUBJECT BOUNDARY LINE (SURVEYED)
 - - - SUBJECT BOUNDARY LINE (NOT SURVEYED)
 - - - ADJOINER BOUNDARY LINE (SURVEYED)
 - - - ADJOINER BOUNDARY LINE (NOT SURVEYED)
 - - - RIGHT-OF-WAY LINE
 - ▭ BUILDING
 - TREE LINE
 - - - APPROXIMATE EDGE OF MARSH
 - - - APPROXIMATE EDGE OF WATER
 - DB DEED BOOK
 - PB PLAT BOOK
 - PG PAGE
 - R/W RIGHT-OF-WAY
 - E/P EDGE OF PAVEMENT
 - PC PLAT CABINET
 - SL SLIDE
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 - ⊙ REBAR FOUND / RBF
 - ⊙ PINCHED TOP IPF / FTOPF
 - ⊙ COMPUTED POINT
 - ⊙ CONCRETE MONUMENT FOUND / CMN
 - ⊙ MONITORING WELL
 - ⊙ WASTE DISPOSAL AREA (WDA)
 - ⊙ APPROXIMATE MARSH AREA

**WASTE DISPOSAL AREA
TOTAL ACREAGE: 5.845**

N52°02'34"E 2,629.40' TOTAL

S52°02'34"W 2,541.50' TOTAL

N62°02'34"E 1,872.21' TOTAL



SEE SHEET 1 FOR CERTIFICATIONS

SHEET 2 OF 2
NOTICE OF ENVIRONMENTAL CONTAMINATION
MANTEO LANDFILL
SITE ID# NONCD0000270

SIR WALTER RALEIGH ST
NAGS HEAD TOWNSHIP
DARE COUNTY
MANTEO, NORTH CAROLINA

JOB#: 2487.00 | DRAWN BY: JD | DATE: 06/10/2024 | CREW CHIEF: BSM

Appendix C - S&ME (Draft) Erosion & Sediment Control Plan

EROSION & SEDIMENT CONTROL PLAN

MANTEO LANDFILL

MANTEO, DARE COUNTY, NORTH CAROLINA

JANUARY 9, 2026

SITE DATA

PROJECT LOCATION:
 STREET ADDRESS: NO CURRENT STREET ADDRESS - SIR WALTER RALEIGH ST.
 CITY OR TOWNSHIP: MANTEO
 COUNTY: DARE COUNTY
 STATE: NORTH CAROLINA
 ZIP CODE:

LATITUDE: 35°53'55.0"N (35.8986°)
 LONGITUDE: 75°41'10.0"W (-75.6861°)

REVIEWING AGENCY:
 NCDEQ REGIONAL OFFICE: WASHINGTON REGIONAL OFFICE

PROJECT SCHEDULE:
 DATE TO BEGIN: TO BE DETERMINED
 DATE TO END: TO BE DETERMINED

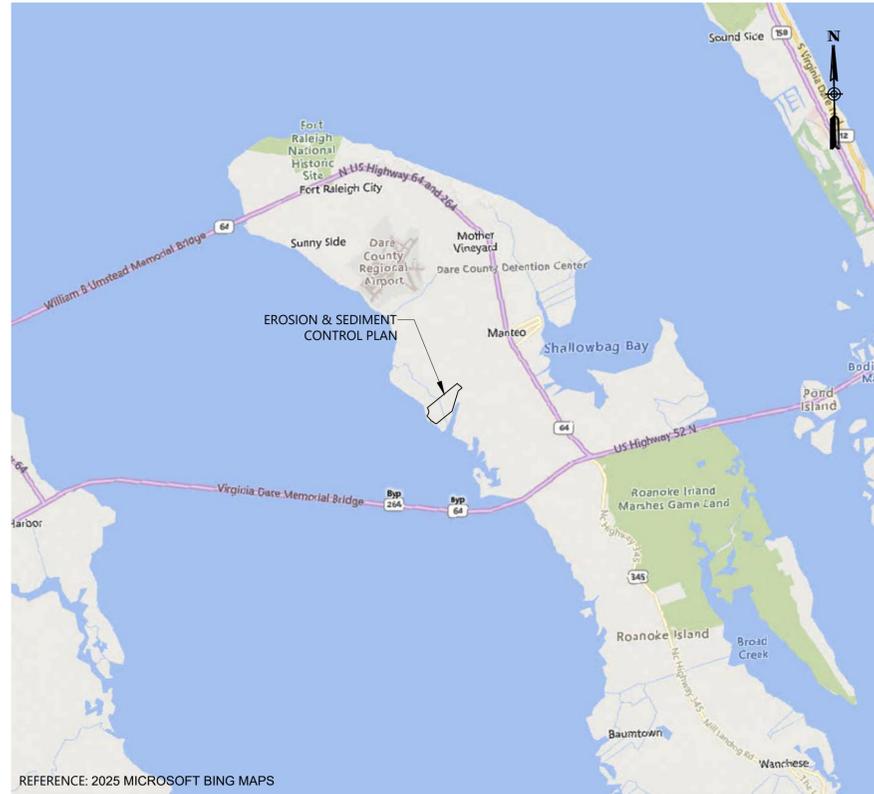
DISTURBANCE:
 PROJECT ACREAGE: 7.38 ACRES
 PROPOSED IMPERVIOUS AREA: 0.0 ACRES

WATERBODY INFORMATION:
 RIVER BASIN: PASQUOTANK
 WATERSHED: CROATAN SOUND
 RECEIVING WATERBODY: CROATAN SOUND
 WATERBODY INDEX NUMBER: 30-20-(1)
 CLASSIFICATION: SB
 WATERS OF THE U.S./STATE: NOT PRESENT
 IMPACTS: NOT APPLICABLE
 USACE 404 PERMIT OR 401 CERTIFICATION: NOT REQUIRED
 NC NAVIGABLE WATERS (NCNW): NOT PRESENT

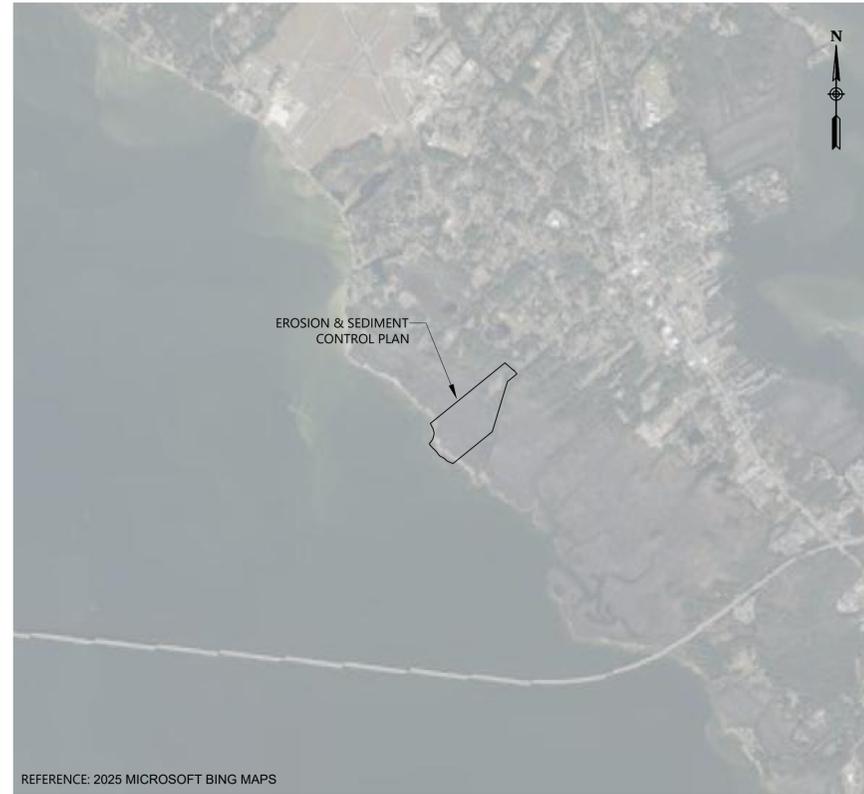
FEMA FLOODPLAIN/FLOODWAY IMPACTS:
 MAP NUMBER: 3720978900K
 FLOODWAY IMPACTS: NOT APPLICABLE
 100-YEAR FLOODPLAIN IMPACTS: NO IMPACT - ZONE A WITHOUT BFE
 WATERCOURSE ALTERATION OR RELOCATION: NOT APPLICABLE

CONSULTANT INFORMATION:
 ENGINEERING FIRM: S&ME, INC.
 NC ENG. FIRM LICENSE NUMBER: F-0176
 PROJECT NUMBER: 215296

E&SC PLAN PREPARER NAME: JOSHUA M. BELL, PE, CFM
 NC REGISTRATION NUMBER: 032667



VICINITY MAP
 SCALE: 1" = 5,000'



SITE LOCATION
 SCALE: 1" = 2,000'

DRAWINGS

NUMBER	TITLE
00	COVER SHEET
01	EXISTING CONDITIONS
02	GRADING PLAN - OVERALL
03	EROSION CONTROL - OVERALL
04	DETAILS 1 OF 4
05	DETAILS 2 OF 4
06	DETAILS 3 OF 4
07	DETAILS 4 OF 4

PREPARED FOR



NORTH CAROLINA
Environmental Quality

DIVISION OF WASTE MANAGEMENT - SPECIAL REMEDIATION BRANCH
 PRE-REGULATORY LANDFILL UNIT
 1646 MAIL SERVICE CENTER
 RALEIGH, NC 27699-1646

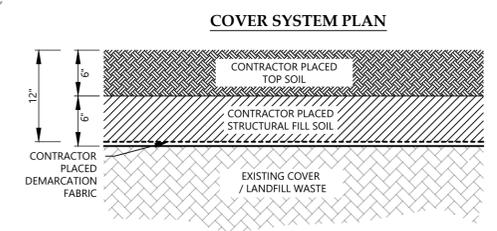
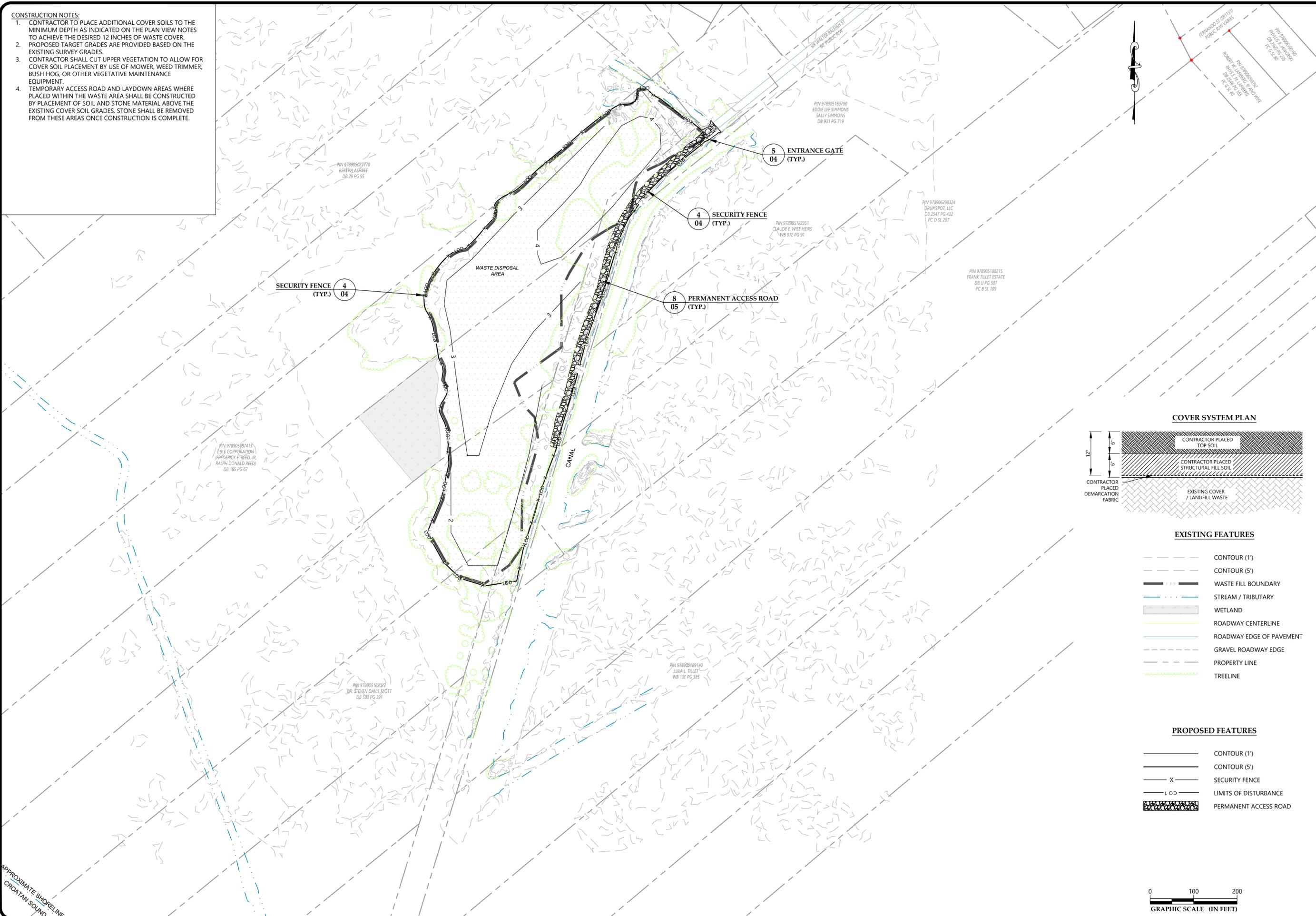
PREPARED BY



3201 SPRING FOREST ROAD
 RALEIGH, NC 27616

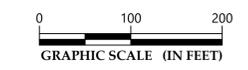


- CONSTRUCTION NOTES:**
1. CONTRACTOR TO PLACE ADDITIONAL COVER SOILS TO THE MINIMUM DEPTH AS INDICATED ON THE PLAN VIEW NOTES TO ACHIEVE THE DESIRED 12 INCHES OF WASTE COVER.
 2. PROPOSED TARGET GRADES ARE PROVIDED BASED ON THE EXISTING SURVEY GRADES.
 3. CONTRACTOR SHALL CUT UPPER VEGETATION TO ALLOW FOR COVER SOIL PLACEMENT BY USE OF MOWER, WEED TRIMMER, BUSH HOG, OR OTHER VEGETATIVE MAINTENANCE EQUIPMENT.
 4. TEMPORARY ACCESS ROAD AND LAYDOWN AREAS WHERE PLACED WITHIN THE WASTE AREA SHALL BE CONSTRUCTED BY PLACEMENT OF SOIL AND STONE MATERIAL ABOVE THE EXISTING COVER SOIL GRADES. STONE SHALL BE REMOVED FROM THESE AREAS ONCE CONSTRUCTION IS COMPLETE.



- EXISTING FEATURES**
- CONTOUR (1')
 - CONTOUR (5')
 - WASTE FILL BOUNDARY
 - STREAM / TRIBUTARY
 - WETLAND
 - ROADWAY CENTERLINE
 - ROADWAY EDGE OF PAVEMENT
 - GRAVEL ROADWAY EDGE
 - PROPERTY LINE
 - TREELINE

- PROPOSED FEATURES**
- CONTOUR (1')
 - CONTOUR (5')
 - X- SECURITY FENCE
 - L O D- LIMITS OF DISTURBANCE
 - PERMANENT ACCESS ROAD



NO.	DATE	DESCRIPTION	BY	CHK	APV

GRADING PLAN - OVERALL

EROSION & SEDIMENT CONTROL PLAN
MANTEO LANDFILL
MANTEO, NORTH CAROLINA

PROJECT NUMBER
215296

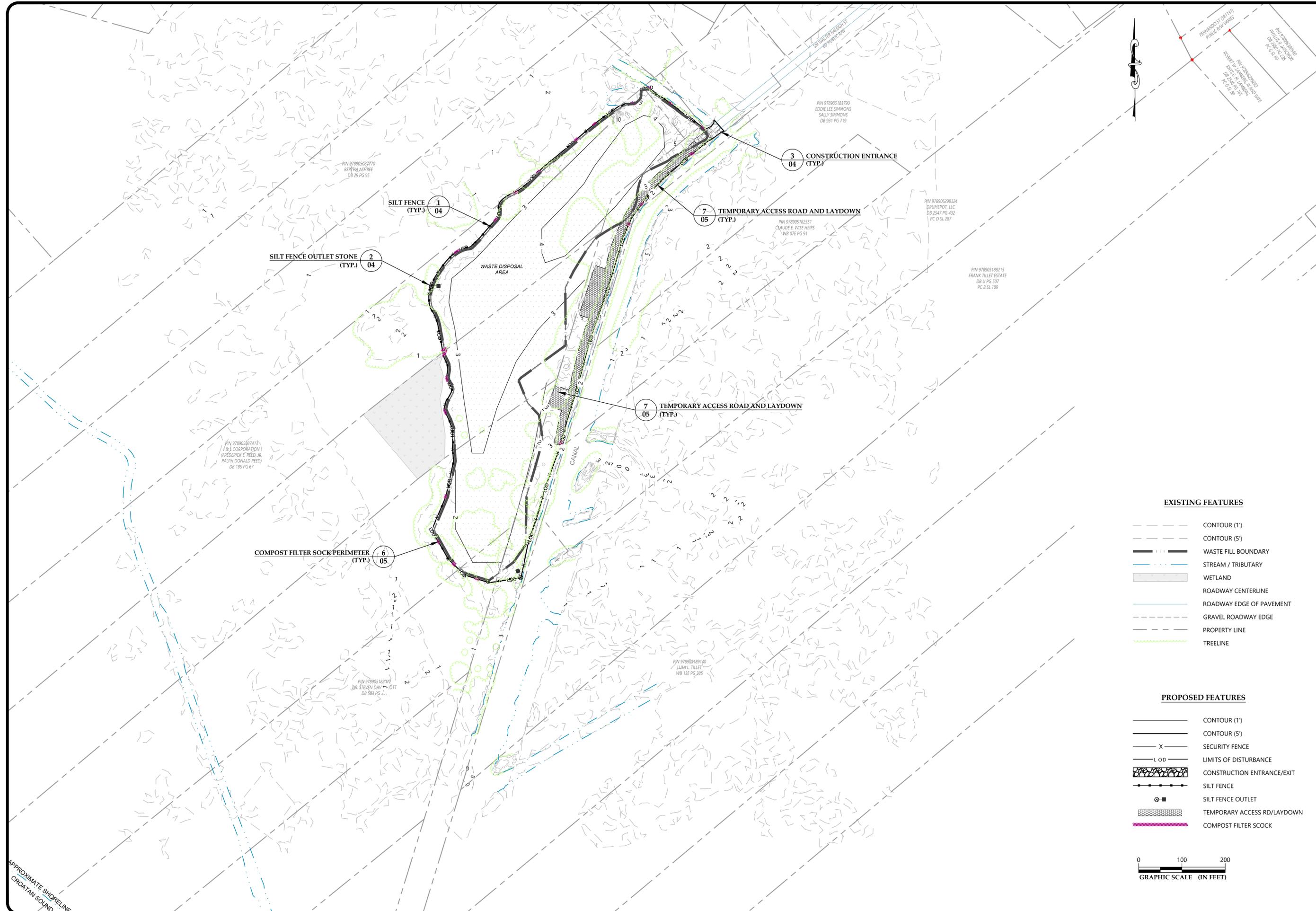
DRAWING NUMBER
02 05

APPROXIMATE SHORELINE
CROATAN SOUND



3201 SPRING FOREST ROAD
RALEIGH, NC 27616
(919) 872-2660

ENGINEERING FIRM
LICENSE NUMBER: F-0176

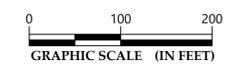


EXISTING FEATURES

- CONTOUR (1')
- CONTOUR (5')
- WASTE FILL BOUNDARY
- STREAM / TRIBUTARY
- WETLAND
- ROADWAY CENTERLINE
- ROADWAY EDGE OF PAVEMENT
- GRAVEL ROADWAY EDGE
- PROPERTY LINE
- TREELINE

PROPOSED FEATURES

- CONTOUR (1')
- CONTOUR (5')
- SECURITY FENCE
- LIMITS OF DISTURBANCE
- CONSTRUCTION ENTRANCE/EXIT
- SILT FENCE
- SILT FENCE OUTLET
- TEMPORARY ACCESS RD/LAYDOWN
- COMPOST FILTER SOCK



APPROXIMATE SHORELINE
CROATAN SOUND

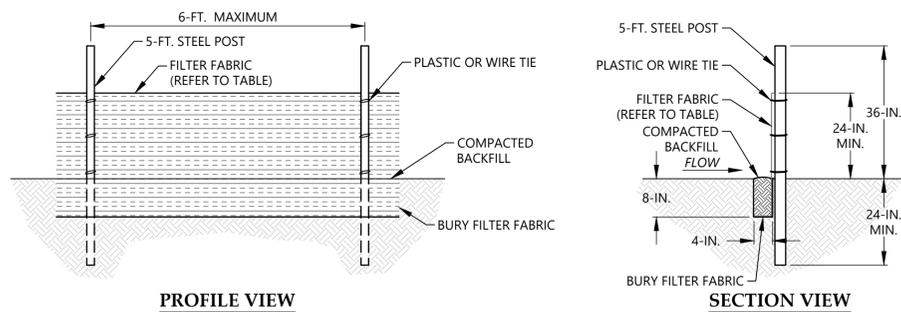
NO.	DATE	BY	CHK	APV	DESCRIPTION

EROSION CONTROL - OVERALL

EROSION & SEDIMENT CONTROL PLAN
MANTEO LANDFILL
MANTEO, NORTH CAROLINA

PROJECT NUMBER
215296
DRAWING NUMBER

03 **05**



PROFILE VIEW

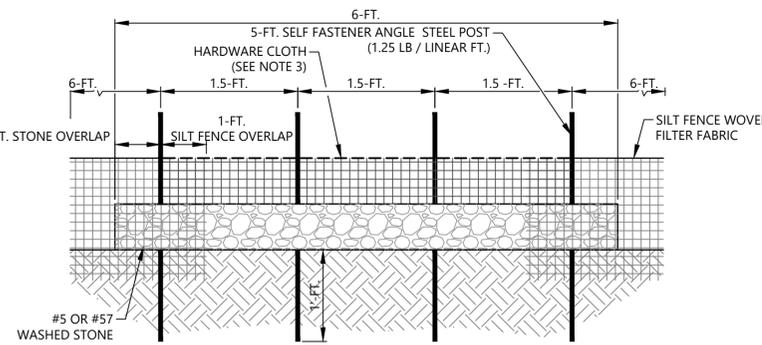
SECTION VIEW

TABLE: EXTRA STRENGTH WOVEN FILTER FABRIC		
PROPERTY	TEST	VALUE
GRAB TENSILE STRENGTH	ASTM D4632	125-LBS. MARV
GRAB TENSILE ELONGATION	ASTM D4632	100-LBS. MARV
PERMITTIVITY	ASTM D4491	0.05 (SEC-1) MARV
APPARENT OPENING SIZE	ASTM D4751	US SIEVE #30
ULTRAVIOLET STABILITY AT 500 HR OF EXPOSURE	ASTM D4355	70% TYPICAL

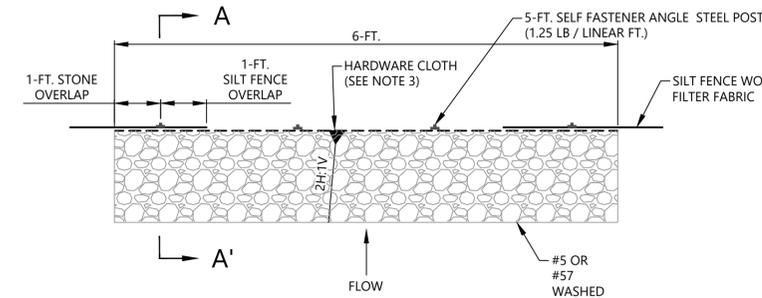
MAINTENANCE NOTES

- THE KEY TO FUNCTIONAL SILT FENCE IS INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- INSPECT AT LEAST ONCE PER SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT GREATER THAN OR EQUAL TO 1.0-IN. IN 24 HOURS.
- ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE SILT FENCE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE SILT FENCE.
- REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
- CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE SILT FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE SILT FENCE. INSTALL CHECKS/TIE-BACKS AND/OR REINSTALL SILT FENCE, AS NECESSARY.
- CHECK FOR TEARS WITHIN THE SILT FENCE, AREAS WHERE SILT FENCE HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE SILT FENCE INEFFECTIVE. REMOVE DAMAGED SILT FENCE AND REINSTALL NEW SILT FENCE IMMEDIATELY.
- SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE IT IS REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.

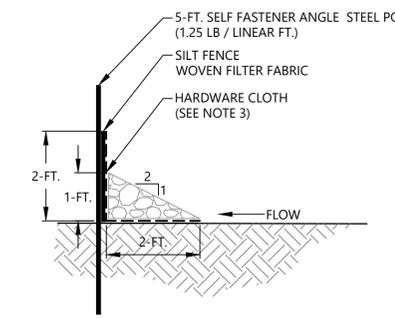
REFERENCE: DETAIL BASED ON NCDENQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, CHAPTERS 6 AND 8 REVISED, MAY 2013.



SILT FENCE OUTLET SECTION VIEW



SILT FENCE OUTLET PLAN-VIEW



CROSS-SECTION A-A'

SILT FENCE OUTLET NOTES

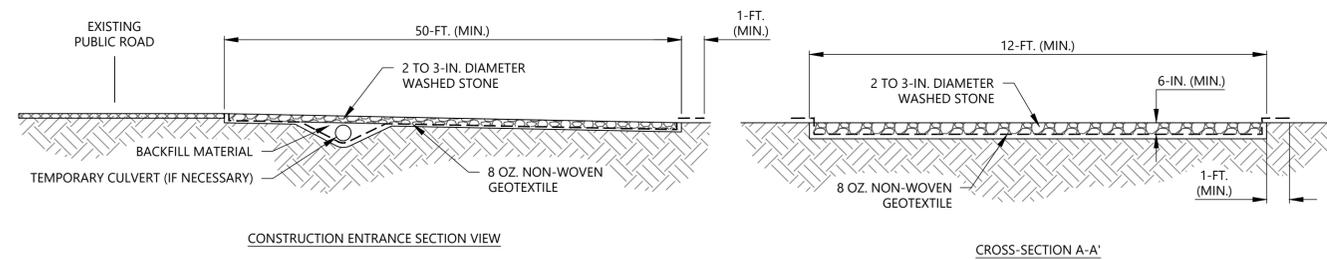
- SEDIMENT CONTROL STONE SHALL BE #5 OR #57 WASHED STONE.
- INSTALL MINIMUM OF 1-FT. OVERLAP OF SILT FENCE, STONE, AND HARDWARE CLOTH.
- USE HARDWARE CLOTH WITH A MINIMUM 19 GAUGE WITH MAXIMUM 1/4-IN. MESH OPENINGS.
- SILT FENCE OUTLET LOCATIONS MAY VARY FROM THE APPROVED PLANS AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR OR OWNER'S REPRESENTATIVE, BASED UPON FIELD CONDITIONS.

SILT FENCE OUTLET MAINTENANCE

- INSPECT AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT GREATER THAN OR EQUAL TO 1.0-IN. IN 24 HOURS.
- MAKE ANY NECESSARY REPAIRS IMMEDIATELY.
- REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE STONE MUST BE REPLACED IF CLOGGED.
- SHOULD THE SILT FENCE ADJACENT TO THE OUTLET COLLAPSE, TEAR, OR BECOME INEFFECTIVE, REPAIR OR REPLACE IT PROMPTLY.
- REMOVE ALL FENCING AND OUTLET MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

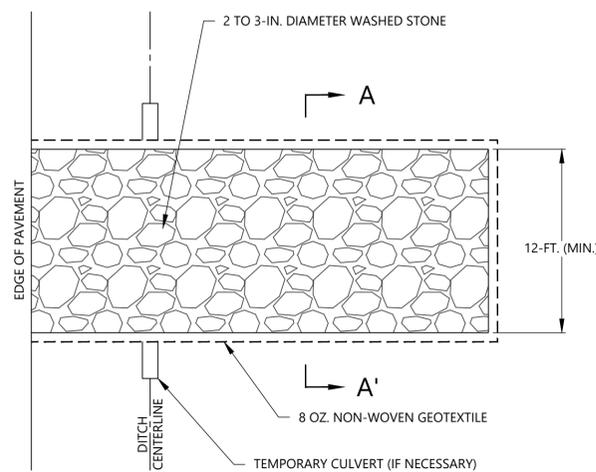
1 SILT FENCE
SCALE: N.T.S

2 SILT FENCE OUTLET STONE
SCALE: N.T.S



CONSTRUCTION ENTRANCE SECTION VIEW

CROSS-SECTION A-A'



CONSTRUCTION ENTRANCE PLAN VIEW

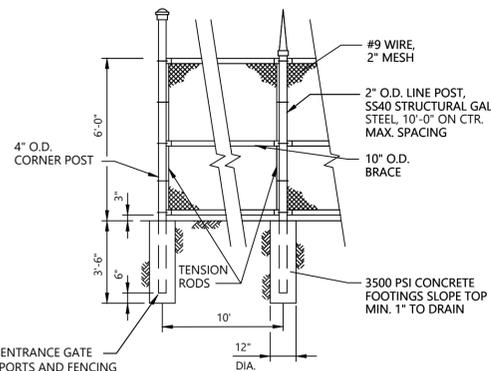
CONSTRUCTION ENTRANCE NOTES

- DUE TO SITE CONSTRAINTS THE WIDTH AND LENGTH MAY BE ADJUSTED BASED ON CONDITIONS IN THE FIELD.
- APPROPRIATE SIGNAGE WILL BE POSTED ALONG THE ROAD TO INFORM THE GENERAL PUBLIC OF POTENTIAL CONSTRUCTION TRAFFIC PER REQUIREMENTS.

CONSTRUCTION ENTRANCE MAINTENANCE

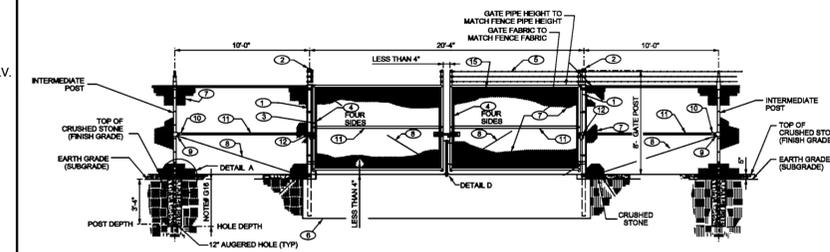
- INSPECT TEMPORARY CONSTRUCTION ENTRANCES AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT GREATER THAN OR EQUAL TO 1.0-IN IN 24 HOURS. INSPECT MORE FREQUENTLY DURING PERIODS OF HEAVY USE.
- THE ENTRANCE WILL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO EXISTING ROADWAYS. SEDIMENT TRACKED, SPILLED, DROPPED OR OTHERWISE DEPOSITED ONTO ROADWAYS WILL BE SWEEPED UP AS SOON AS PRACTICAL AND PLACED BACK WITHIN THE APPROVED DISTURBED AREA.
- IF EXCESS SEDIMENT HAS CLOGGED THE STONE, THE ENTRANCE WILL BE TOPDRESSED WITH NEW STONE AS NEEDED. REPLACEMENT OF THE STONE MAY BECOME NECESSARY WHEN THE STONE BECOMES ENTIRELY FILLED WITH SEDIMENT AND MUD.
- THE CONSTRUCTION ENTRANCE AND CULVERT (IF PRESENT), WILL BE REMOVED WHEN CONSTRUCTION ACTIVITIES CEASE ON THE PROJECT. THE REMOVED STONE AND SEDIMENT FROM THE ENTRANCE WILL BE HAULED OFF-SITE AND DISPOSED OF PROPERLY.
- UPON REMOVAL OF THE CONSTRUCTION ENTRANCE, THE CONTRACTOR SHALL BRING THE AREA TO ORIGINAL GRADE AND STABILIZE IT. IF A TEMPORARY CULVERT WAS UTILIZED IN CONJUNCTION WITH THE CONSTRUCTION ENTRANCE, THE CONTRACTOR SHALL INSTALL TEMPORARY MATTING AND/OR WATTLES WITHIN ROADSIDE SWALE/DITCH.

3 CONSTRUCTION ENTRANCE
SCALE: N.T.S



ALL ENTRANCE GATE SUPPORTS AND FENCING CORNER POSTS SHALL BE SET IN CONCRETE AS ILLUSTRATED HEREIN. REMAINING POSTS MAY BE FOOTED, OR DRIVEN, EXCEPTING THAT EVERY FIFTH POST SHALL BE DRIVEN TO A MINIMUM DEPTH OF 18 INCHES.

4 SECURITY FENCE
SCALE: N.T.S



NOTE:
1. CONCRETE AMOUNT IS USED FOR GATE SHOWN.
2. GATE POST & GATE BEAM NEED TO BE ONE CONTINUOUS POUR.

ITEM	QUAN.	MATERIAL
1.	2	GATE POST, PIPE 2 1/2 STD., 11' 2" LONG
2.	2	TOP CAP FOR PIPE 2 1/2 STD., GATE POSTS
3.	16	2" O.D. LINE POST, SS40 STRUCTURAL GALV. STEEL, 10'-0" ON CTR. MAX. SPACING
4.	8	10' O.D. BRACE
5.	2	TENSION RODS
6.	2.8 CY	CONCRETE, 4000 PSI MINIMUM
7.	1	7' 0" FENCE FABRIC
8.	1	TRUSS ROD WITH ADJUSTABLE LINK AND TRUSS ROD
9.	2	BAND WITH TWO ATTACHMENTS FOR BRACE RAIL AND TRUSS ROD
10.	2	SOCKET FITTING, PIPE 1 1/4 STD., OFFSET LUG
11.	2	BRACE RAIL, PIPE 1 1/4 STD.
12.	2	SOCKET FITTING, PIPE 1 1/4 STD., OFFSET LUG
13.	2	CONCRETE BEAM (COMPLETELY INSTALLED BY GEOROUNDING CONTRACTOR)
14.	4	INTERMEDIATE POST (COMPLETELY INSTALLED BY GEOROUNDING CONTRACTOR)
15.	4	180 DEG. ADAPTER, CON. 071005389
16.	1	GATE ASSEMBLY WITH PIPE 2 1/2 STD.

5 ENTRANCE GATE
SCALE: N.T.S



3201 SPRING FOREST ROAD
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ENGINEERING FIRM
LICENSE NUMBER: F-0176

DETAILS 1 OF 2
EROSION & SEDIMENT CONTROL PLAN
MANTEO LANDFILL
MANTEO, NORTH CAROLINA

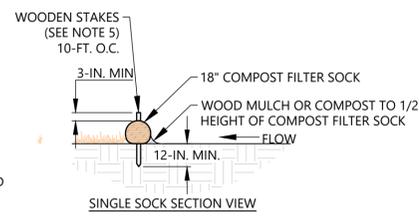
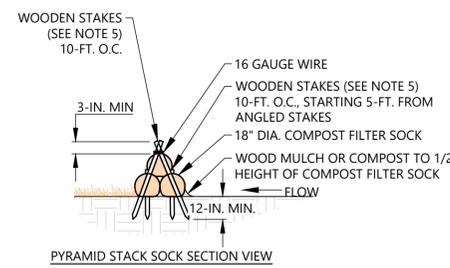
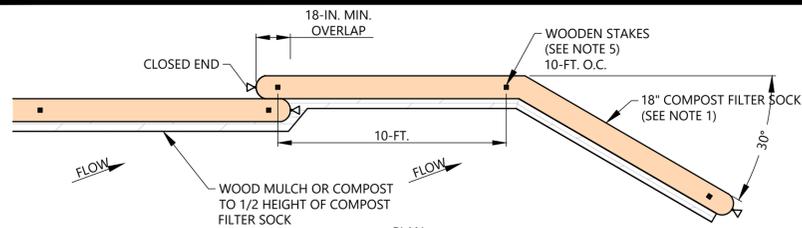
PROJECT NUMBER

215296

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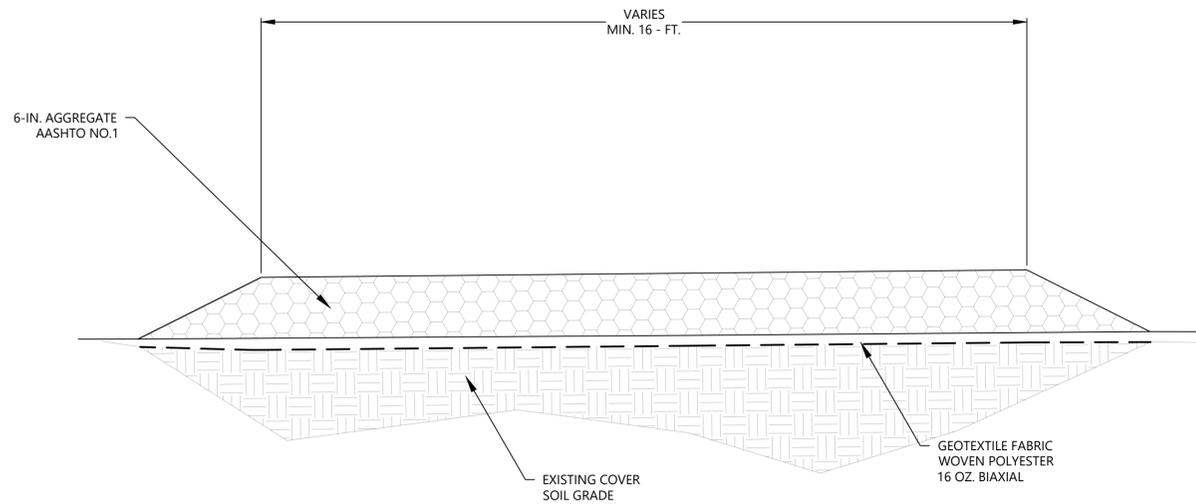


COMPOST FILTER SOCK PERIMETER NOTES

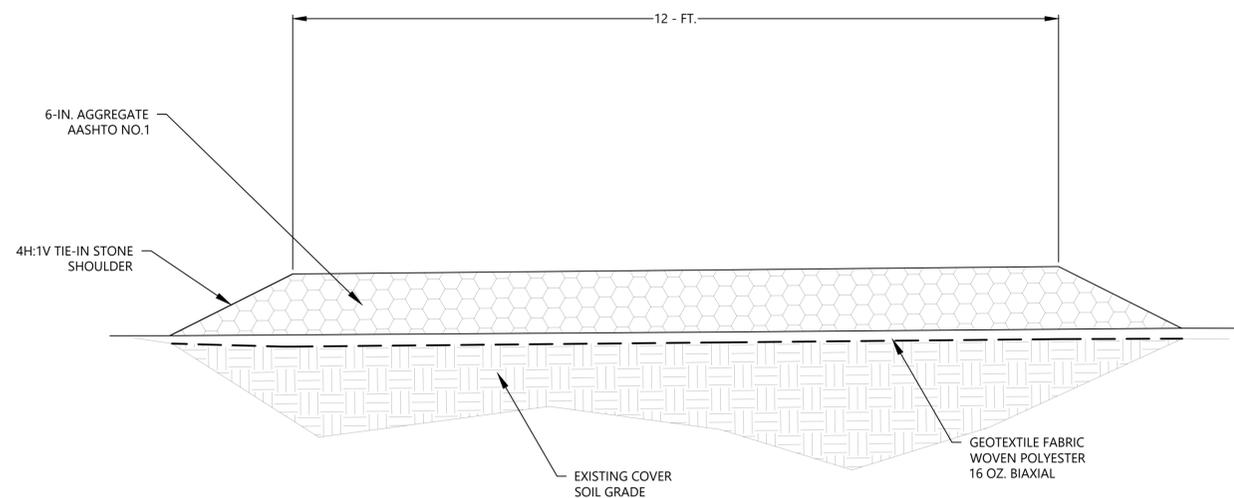
1. USE FILTREXX® COMPOST FILTER SOCK OR ENGINEER APPROVED EQUIVALENT. COMPOST FILTER SOCK DIAMETER VARIES, REFER TO PLAN VIEWS AND DETAILS FOR DIAMETER.
2. TO PREVENT WATER & SEDIMENT FROM FLOWING AROUND MEASURES A MINIMUM 10-FOOT LENGTH OF COMPOST FILTER SOCK MUST BE PLACED UPSLOPE AT A 30 DEGREE ANGLE FROM THE ENDS OF THE MEASURES.
3. MATERIALS USED IN THE COMPOST SOCK MUST MEET THE SPECIFICATIONS OUTLINED ON GENERAL NOTES SHEET.
4. COMPOST SOCKS SHOULD BE LOCATED AS SHOWN ON PLANS AND AS DIRECTED BY THE OWNER'S INSPECTOR OR DESIGNATED REPRESENTATIVE AS NEEDED BASED UPON FIELD CONDITIONS.
5. PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE COMPOST SOCK.
6. OAK OR OTHER DURABLE HARDWOOD STAKES 2-IN. X 2-IN. IN CROSS SECTION SHOULD BE DRIVEN VERTICALLY PLUMB, THROUGH THE CENTER OF THE COMPOST SOCK. STAKES SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 10 FT. STAKES SHOULD BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCK.
7. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
8. IF THE COMPOST SOCK IS TO BE LEFT AS PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION USING THE SEEDING SPECIFICATION IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
9. COMPOST FILTER SOCKS ARE NOT TO BE USED IN PERENNIAL OR INTERMITTENT STREAMS.

- COMPOST FILTER SOCK PERIMETER MAINTENANCE**
1. INSPECT AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT GREATER THAN OR EQUAL TO 1-IN. IN 24 HOURS.
 2. MAKE ANY NECESSARY REPAIRS IMMEDIATELY.
 3. REMOVE ACCUMULATED SEDIMENT OVER 1/2 THE HEIGHT OF THE COMPOST FILTER SOCK AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
 4. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH ONE OF A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
 5. THE COMPOST FILTER SOCK SHALL BE REGULARLY INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.
 6. REMOVE ALL COMPOST FILTER SOCK MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND RETURN THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
 7. COMPOST MATERIAL DISPOSAL/RECYCLING HANDLING REQUIREMENTS OUTLINED ON GENERAL NOTES SHEET.
- REF: BASED ON NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, CHAPTERS 6 REVISED, MAY 2013

6 COMPOST FILTER SOCK PERIMETER
SCALE: N.T.S.



7 TEMPORARY ACCESS ROAD AND LAYDOWN
SCALE: N.T.S.



8 PERMANENT ACCESS ROAD
SCALE: N.T.S.



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ENGINEERING FIRM
LICENSE NUMBER: F-0176

DETAILS 2 OF 2

EROSION & SEDIMENT CONTROL PLAN
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MANTEO, NORTH CAROLINA

PROJECT NUMBER

215296

DRAWING NUMBER

05

05