

Section 1

Background

1.1 Project Description

1.1.1 Proposed Work – Units 4 and 5 Expansion

Catawba County is planning for future expansions of the 230-acre Blackburn Sanitary Landfill on Rocky Ford Road near Newton. Expansion of the Subtitle D landfill into the Units 4 and 5 areas will require impacts to Waters of the US and State. This Clean Water Act Section 404 and 401 Application addresses impacts to jurisdictional waters required to construct the Units 4 and 5 expansion.

The Units 4 and 5 expansion areas are designated as Unit 3 Phases 3 and 4 on the overall landfill facility master plan map, which was developed by McGill Associates in March 2007 (Appendix A). Jurisdictional Waters of the US and State were delineated on the landfill property during development of the master plan, and these areas have been reverified for this Unit 4 and Unit 5 permit application.

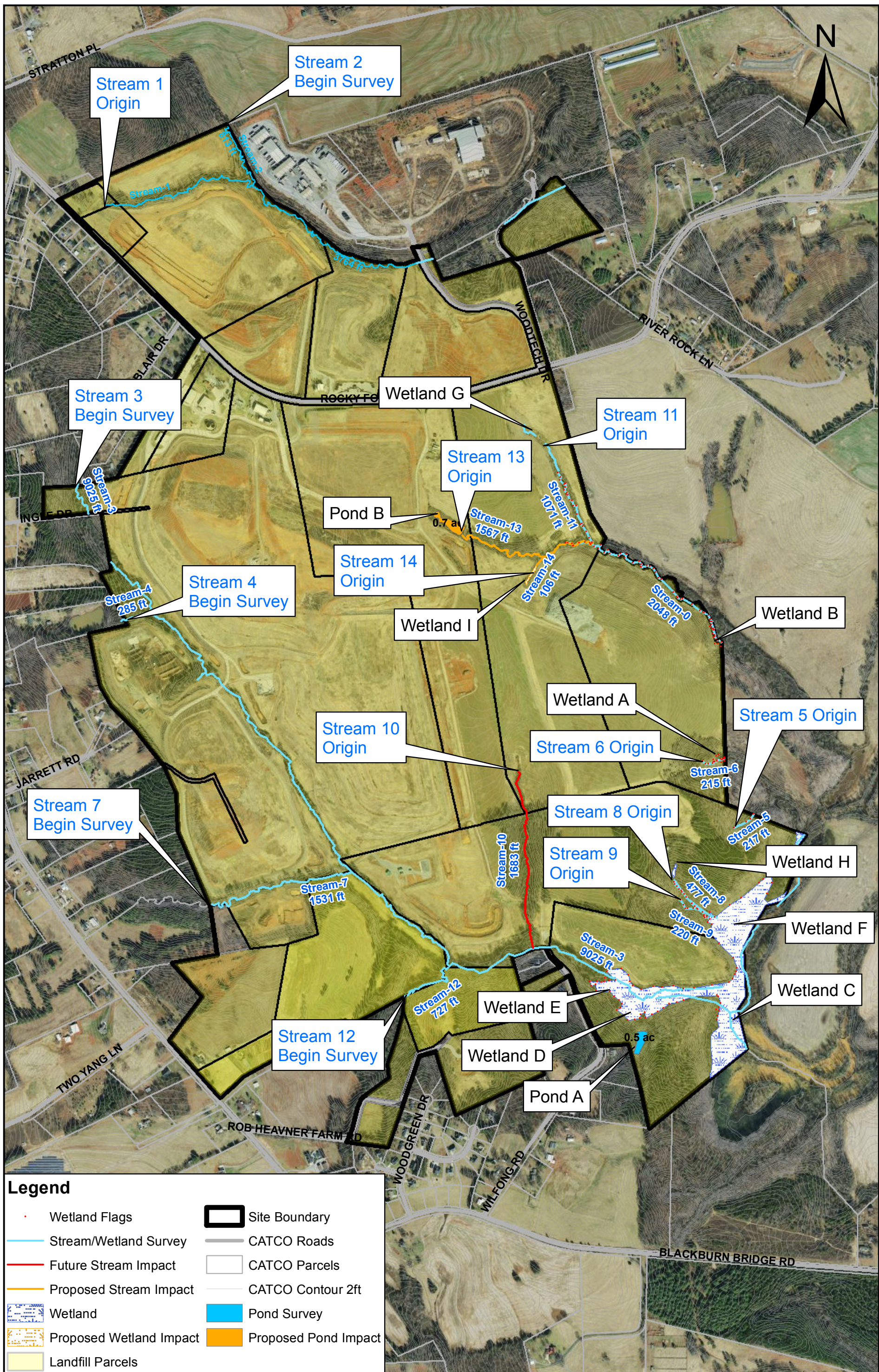
1.1.2 Future Work

Additional landfill expansion phases are labeled on the map in Appendix A. Expansion of these units and phases will occur outside delineated streams and wetlands except for Unit 10, which will require impacts to the stream within the unit boundary. This stream is shown as Stream 10 on Figure 4 in Appendix B. Impacts to Stream 10 for Unit 10 will be permitted as a modification at the time of construction.

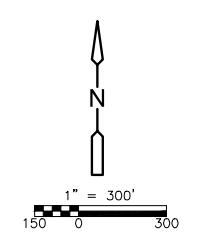
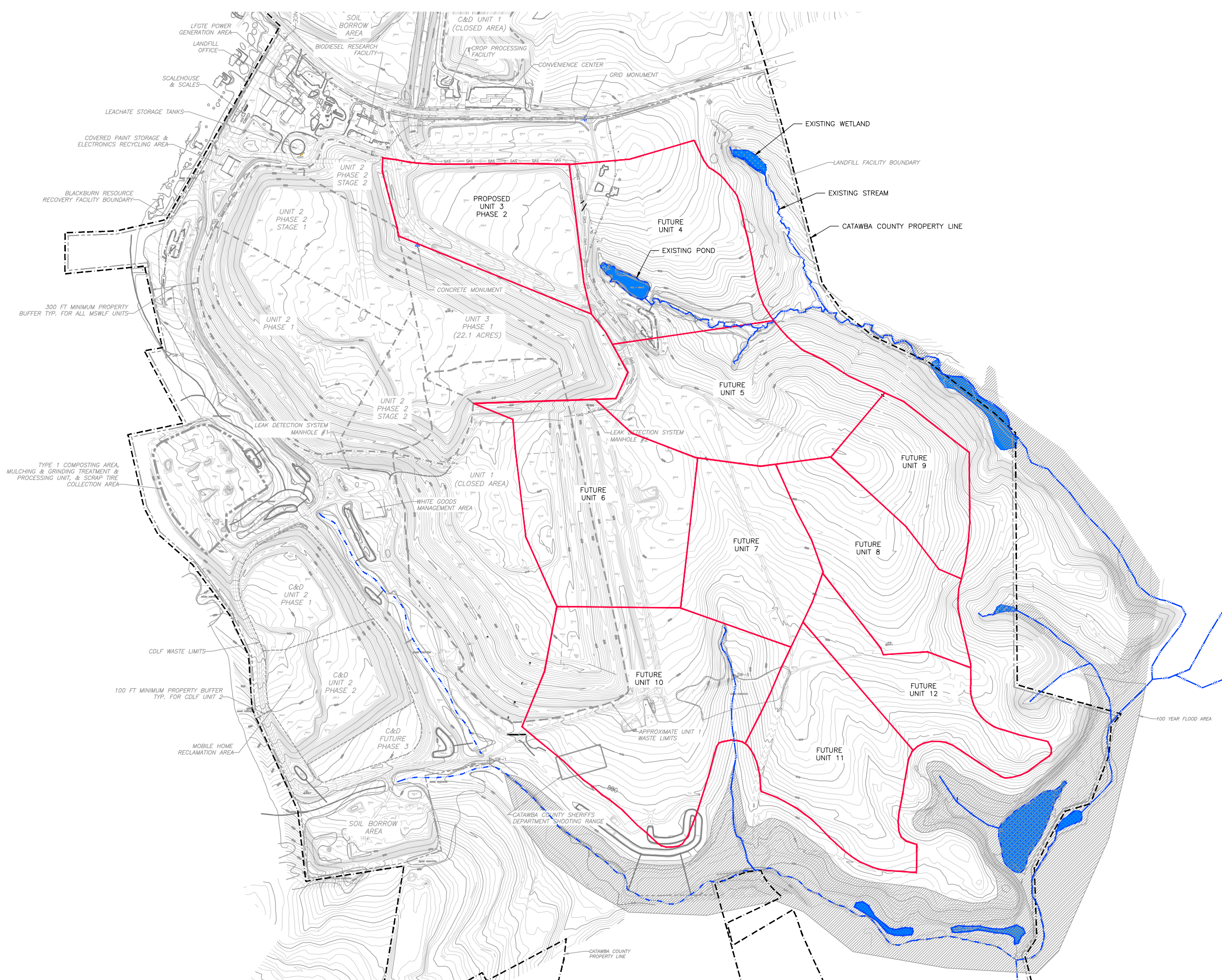
1.2 Purpose and Need for Project

The purpose of this project is to address Catawba County's solid waste disposal needs for the next 85 years. The existing Subtitle D landfill is expected to reach its capacity within approximately 13 years with the addition of Unit 3 Phase 2, which is expected to start construction in Spring 2019 (the Unit 3 Phase 2 expansion will not be within any jurisdictional areas). The Subtitle D landfill serves as an environmentally safe and cost-effective means of waste disposal for the County's municipal partners and private-sector waste haulers that pick up and deliver waste to the landfill.

The Subtitle D landfill accepts only residential, commercial, municipal, and industrial waste generated within Catawba County. The landfill currently receives on average 135,600 tons per year of municipal solid waste. As population growth occurs within the County, the amount of waste and recyclable material managed by the County will continue to increase along with the need for waste disposal capacity.



A B C D E F G H



- NOTES:**
- EXISTING TOPOGRAPHIC INFORMATION OF PROPOSED UNIT 3, PHASE 2 EXPANSION AREA PREPARED FROM AERIAL SURVEY PERFORMED BY INDEPENDENT MAPPING CONSULTANTS, INC., DATED MAY 8, 2017.
 - GAS WELLS AND PIEZOMETERS NOT SHOWN FOR CLARITY.
- LEGEND**
- C&D WASTE LIMITS
 - APPROXIMATE UNIT 1 WASTE LIMITS
 - MSW LINER LIMITS
 - CATAWBA COUNTY PROPERTY LINE
 - LANDFILL FACILITY BOUNDARY
 - SEDIMENT/STORMWATER CONTROL STRUCTURE
 - FUTURE PHASES BOUNDARY
 - EXISTING STREAMS

XREFs: [CE_SURVEY, CDMS_2436] Images: []
Last saved by: KOSKIAR Time: 9/26/2017 2:51:04 PM
pwt:\jw.cdmsmith.com\PW_PL1\6717\115466\04 Design Services NM_Permit\02 Civil\10 CADD\04 FP\SD-1.dwg
© 2017 CDM SMITH ALL RIGHTS RESERVED.
REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

					DESIGNED BY: K. BOONE	<div>CDM Smith</div> <div>4600 Park Road, Suite 240 Charlotte, NC 28209 Tel: (704) 342-4546 NC F-1255</div>	CATAWBA COUNTY CATAWBA COUNTY, NORTH CAROLINA BLACKBURN SUBTITLE D LANDFILL UNIT 3 PHASE 2 EXPANSION	STREAM AND WETLAND LOCATIONS IDENTIFIED IN ORIGINAL MASTER PLAN	PROJECT NO. 6717-115466
					DRAWN BY: M. KOSKI				FILE NAME: STREAM GRAPHIC
					SHEET CHK'D BY: B. WLOSEK				FIGURE NO.
					CROSS CHK'D BY: K. BOONE				1
					APPROVED BY: K. BOONE				
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: FEBRUARY 2019				