Closure of Abandoned Waste Impoundment

PRACTICE DESCRIPTION				JOB CLASSES				
Code	**Practice**	**Controlling Factor**	**Units**	**Job Class I**	**Job Class II**	**Job Class III**	**Job Class IV**	**Job Class V**
360	Closure Impoundment	Storage After Closure *	Gallons	0				

TECHNICAL COMPETENCY REQUIREMENTS

Prerequisites

1. Employees must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for the highest level of complexity for which they wish to receive JAA.
2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies.
3. Working Knowledge of Web Soil Survey, Suitabilities and Limitations Ratings
4. Working knowledge in the analysis and interpretation of soil test and waste analysis results.
5. NCSU Nutrient Management in NC Course which includes: (1) the online prerequisite; (2) 5-days of nutrient management-related course work, including PLAT, RUSLE2 and software trainings; and (3) NC Rules and Regulations Governing Animal Waste Management in NC training, along with a passing score on the exams given at the conclusion of each section.
6. Working knowledge in the Agricultural Waste Management Field Handbook (Title 210, Part 651).
7. JAA for Code 590, Nutrient Management.
8. Waste Utilization Planning/Nutrient Management (WUP/NM) Technical Specialist Designation.
9. Working knowledge of practices needed to control erosion on disturbed areas (Standard 342).

* If storage of fresh water is to be maintained after verification of waste removal, a PE must be involved with spillway design and 360 JAA is not applicable.

Practice Knowledge, Skills, Abilities (KSAs)

1. Ability to perform a sludge survey to determine volume estimates of waste removal.
2. Ability to collect soil samples and interpret soil test reports for recommendations.
3. Knowledge of NC's crops and cropping systems.
4. Knowledge of tillage systems used in NC.
5. Knowledge to assess the risk of nitrogen leaching loss, the nitrogen Leaching Index, obtained through use of current Soil Hydrologic Group (SHG)-based LI index maps in Section II of the NC FOTG OR RUSLE 2 field specific soil loss calculations.
6. Ability to perform Nitrogen and Phosphorus Risk Assessments using NCANAT (NLEW+PLAT) in the NC Nutrient Management Planning Software.
7. Ability to assess site soil conditions and prescribe treatment and the appropriate vegetation.
8. Knowledge of manure characteristics and nutrient values.
9. Ability to read, interpret, and use waste impoundment as-built designs to develop a closure plan.
10. Skill for development of related computations and analyses to develop closure plans and specifications including but not limited to geology, soil mechanics, hydraulics, structural design, vegetation, and soil bioengineering.
11. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).

PRACTICE PHASES

INVENTORY AND EVALUATION (I&E)

1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to indentify and document resource concerns using the latest NRCS-CPA -52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps of land application fields.
2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU).
3. Independently complete a minimum of two sludge surveys on separate Planning Land Units (PLU) to identify and document resource needs and concerns.
4. Collect the appropriate Soil Samples and RUSLE field data on each land application field to receive animal waste to identify and document resource needs and concerns.
5. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives.

DESIGN (D)

1. Independently complete a minimum of two waste impoundment closure nutrient management plans on separte Planning Land Units (PLU) in accordance with the most recent NRCS 360 Standard and SWCC Closure-Waste Impoundment BMP and Policies. Plans should include maps of application fields and associated setbacks, sludge survey information, soil samples, PLAT results, copper and zinc projections and narrative explaining closure methodology.
2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s).
3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form.

CONSTRUCTION & CERTIFICATION (C&C)

1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP policy and NRCS 360 standard.
2. Independently fullfull/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice State of Work (SOW) or comparable SWCC forms(s).
3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or Comparable form.
4. Independently complete a minimum of two NC DWR Animal Waste Storage Pond and Lagoon Closure Report forms on separte Planning Land Units (PLU) in accordance with NC DWR policies.