Borrow, Waste and Staging Site Reclamation Procedures for Contract Projects

A Reclamation Plan shall accompany any land disturbing activity associated with the project that exceeds the project limits. This includes waste and borrow sites as well as applicable staging areas. Waste consists of all excavated materials that are not utilized in the construction of the project, including overburden from borrow sources and soil type base course sources. This shall include permanent or temporary stockpiles placed beyond the project limits. Borrow consists of excavated material brought in from outside of the project limits and utilized in the construction of the project. Staging areas consists of temporary areas, beyond the project limits, utilized during the pursuit of a contract, to store equipment, materials, supplies, or other activities related to the project.

In order to comply with Section 107-1 of the NCDOT Standard Specifications, it is necessary to provide documentation ensuring all sites do not impact jurisdictional features such as, but not limited to, buffer zones, wetlands, streams, and threatened or endangered species habitats. Approval of the use of the borrow, waste and/or staging sites for activities exclusively in support of a North Carolina Department of Transportation project will be, in part, dependent on the presence or absence of these sensitive environmental resources at the candidate sites.

Staging areas that do not contain erodible material or involve land disturbing activities shall require an environmental evaluation as described in the Environmental Evaluation section of these procedures. Buffer areas and wetlands found within the staging area boundary shall be delineated using highly visible fencing, with the contractor receiving compensation for highly visible fencing or equivalent.

Staging areas that contain erodible material or involve land disturbing activities shall require a full Reclamation Plan submitted to the Engineer as outlined in these procedures.
Staging areas located at existing office, institutional, commercial, residential, or industrial facilities that do not contain erodible material or involve land disturbing activities are exempt from an environmental evaluation and reclamation plan, unless jurisdictional features are present.

Staging areas related to mobile operations that involve overnight parking of equipment are exempt from an environmental evaluation and reclamation plan. These sites may require erosion control if ground becomes disturbed from equipment.

Reclamation Plan Procedure

- The Contractor will submit the reclamation plan to the Resident Engineer.
- See Plan Checklist for additional distribution of final plan.
- The Resident Engineer performs a cursory review to determine if the plan is complete and includes the property owner signatures and the environmental assessment.
- The Resident Engineer will forward a copy of the completed reclamation plan to the REU Field Ops Engineer and DEO for review prior to approval.
- The Resident Engineer must make a site visit. It is suggested that the Contractor and Property Owner be contacted and invited to attend this visit.
- The Resident Engineer should assure that an adequate number of devices are specified and sized to control erosion and address drainage. Devices should be sized to comply with Best Management Practices (BMPs), including sediment storage volume, surface settling, and spillway capacity.
- Assure that minimum undisturbed vegetated buffers and setbacks have been delineated on the plan : e.g. 50' riparian buffer for regulated basins and jurisdictional streams, 25’ buffer from wetlands (additional buffer areas may be required if it is determined that the regulated wetland and/ or stream

will be indirectly impacted by borrow pit operations), 50' buffer from trout waters, 10' setback from property lines (local ordinances may require additional setbacks). The environmental consultant should assure that any additional buffers, such as additional buffers around watersheds or live streams not in a currently protected basin, imposed by local or statewide governing bodies, are complied with.

- Remember that the haul road is a part of the plan and must comply with applicable setbacks. Assure that the haul road is shown on the plan.
- Disturbed areas in HQW zones shall be limited at any time to a maximum total area within the boundaries of the tract of 20 acres. Only the portion of the construction activity within a HQW zone shall be subject to the 20-acre limit. Larger disturbed areas may be allowed with the written approval by DEQ upon providing adequate engineering justification with a specific construction sequence that addresses phasing, limited exposure, weekly submitted self-inspection reports and/or more conservative design than the 25-year storm. 15A NCAC 04B .0124
- No waste activities can occur within the 100-year floodplain. Borrow activities can occur within the 100-year floodplain if stockpiling of borrow material is limited.
- If isolated wetlands are located within the site, the consultant must contact the NCDEQ Division of Water Resources for consultation.
- If the site is for waste, the only waste allowed, without a permit from the Solid Waste Division, is for beneficial fill consisting of inert debris strictly limited to concrete (encapsulated rebar is OK), brick, concrete block, uncontaminated soil, rock and gravel. Asphalt, placed a minimum of 4 feet above the water table, is allowed but is not considered beneficial fill. If wood is present in the waste, then the rules for a Land Clearing and Inert Debris Landfill must be followed. Wood waste should not be buried. See Section 802 of the Standard Specifications.
- After review by the Roadside Environmental Field Operations Engineer, the Resident Engineer will submit approved copies of the reclamation plan as detailed on the Reclamation Plan Checklist Sheet. Any revisions must be initialed by the Contractor and Property Owner prior to final approval.
- If the site is expanded, the original environmental evaluation must have been performed over the area in which the expansion is planned and must account for the expansion and the expanded activity, or a new environmental evaluation must be submitted. It is suggested that the entire parcel be included during the initial environmental evaluation.
- The boundaries of the site and any environmentally sensitive areas within the site or within the area of the environmental evaluation must be physically delineated and GPS coordinates must be provided.
- The Resident Engineer should advise the property owner that the site will be monitored for one year following the final inspection. A 1-year, post-final compliance review will be held. If corrective work is needed as a result of the 1-year, post-final compliance review, the Property Owner will allow access to DOT or its contractor to perform the work. The post final compliance review can occur sooner if the site is deemed permanently stable.

<u>During Construction</u>

- Assure that if buffer zones are required, they have been physically delineated, and the GPS coordinates compare correctly with the physical delineation.
- Assure that approved erosion and sediment controls are adequately installed.
- Inspect each site at least weekly as a part of the routine weekly erosion control inspection and after each qualifying rain event as required by NCG01 permit.

- Require the stockpiling of topsoil for replacement on pit slopes.
- Seed and mulch the stockpile and provide temporary erosion and sediment control if needed per NCG01 requirements.
- If water is being pumped, ensure that BMP's have been designed, installed, operated, and maintained to minimize turbidity to the extent to avoid habitat degradation or removal of a use designation. Refer to Procedures for Monitoring Borrow Pit Discharge Special Provision for more details.
- During pumping into BMP, monitor the pumping operation every 4 hours (max.) to ensure effluent in BMP is not at a level to overflow and erode the earthen structure of the BMP.
- Limit the erodible slope area to 1 acre prior to beginning seeding.
- Excavate sites in a manner that allows for dressing and seeding of slopes in keeping with the 1-acre tolerance.
- Assure that a minimum of 4 feet of water will remain in the pit if it is to serve as a pond.
- Occasionally check the site for plan conformance and either revise the plan or correct the site.
- Check slope rates during construction. Slopes should be built to plan rates during the initial disturbance to provide the best opportunity for permanent stability and limit the need for temporary seeding.

Final Inspection

- At project final, compare the final condition of the pit to the plan and amend the plan or the pit if differences exist.
- Ensure that a permanent stand of vegetation is being pursued or covering the site. The type of vegetation should meet the seeding and mulching requirements for borrow and waste locations specified in the contract.
- Ensure that a minimum of 4 ft. of water is remaining in the pit if it is to serve as a pond. Water table data and excavation data will be needed to prove 4 feet can be achieved.
- Assure that a minimum of 6 inches of soil, capable of supporting vegetation, is covering waste.
- Ensure that no standing pools of water remain.
- Ensure that all temporary erosion and sediment controls have been removed.
- Ensure that the final contours are compatible with the surrounding topography and with the submitted cross sections.
- IN WRITING, notify the Property Owner that the project is complete and all work on the site is complete. This notification shall refer to the property owner's signed statement allowing site inspections and any repair work during the post final 1-year monitoring period.

Observation Period

- Upon completion of the final inspection punch list and permanent seeding, the site will be monitored for up to 1 year following the final inspection date for any repairs, additional seeding or modifications that need to be made. If repairs or additional seeding are needed, the contractor will perform the work to provide a stable site with groundcover suitable to restrain erosion.

Environmental Evaluation for Borrow/Waste/Staging Sites

The attached information is provided to assist you in the review of the necessary documentation to confirm that candidate borrow, waste and/or staging sites do not impact wetlands, surface waters (streams, lakes or ponds), regulated riparian buffers or federally-protected species. The Resident Engineer and Division Environmental Officer will evaluate the environmental documentation that is required, along with the reclamation plan and associated checklist.

In order to provide the necessary environmental documentation to the Resident Engineer and Environmental Officer, it will be necessary for the Contractor to engage the services of a qualified environmental consultant to perform appropriate site investigations that will confirm or refute the occurrence of wetlands, surface waters, regulated riparian buffers and federally protected species within the impact limits of the proposed waste and/or borrow sites and associated access or haul roads.

Contractor Employs Environmental Consultant

In order to ensure that the candidate borrow, waste and/or staging sites have been properly evaluated, the contractor may employ the services of an experienced environmental consultant. The environmental consultant must be competent in the natural sciences, with proficiency in jurisdictional wetland and stream identification and delineation, protected riparian buffer identification, and experience in conducting site investigations for the presence of federally protected species.

Once the consultant has completed thorough field inventories of the candidate borrow, waste and/or staging sites, a concise technical report should be submitted to the contractor, detailing any pertinent findings. The following information should be included in the report:

- General description of candidate site location including a location map, USGS Topographic Map, and a Soil Survey Map.
- General description of the vegetative communities at and adjacent to the candidate site.
- Identification, delineation, and discussion of jurisdictional wetlands at the candidate site including a discussion of soils, vegetation, and hydrology and completion of USACE wetland data sheets.
- If isolated wetlands are located within the site, the consultant must contact the NCDEQ Division of Water Resources for consultation.
- Identification, delineation, and discussion of jurisdictional surface waters (streams, ponds, or lakes) at the candidate site. If dewatering of the pit is proposed, define the point at which the discharge effluent enters jurisdictional waters. Include GPS coordinates for upstream and downstream sampling locations.
- Identification, delineation, and discussion of regulated riparian buffers at candidate sites and within 50 feet of candidate sites located within river basins that are subject to buffer rules. If a stream, pond or lake is depicted on the most recent U.S. Geologic Service topographic map (1:24,000 scale) or soil survey prepared by the U.S. Department of Agriculture-Natural Resource Conservation Service, (formerly Soil Conservation Service), the system is subject to the riparian buffer rule. The contractor may contact the NCDEQ Division of Water Resources for an on-site determination to identify inaccurately depicted surface waters or waters that the consultant determines may be jurisdictional but are not depicted.
- Evaluation of potential habitat for federally protected species and surveys for federally protected species if habitat is identified at the candidate sites. Biological conclusions shall be rendered for each species.

- If jurisdictional areas are identified within the proposed pit or the 400 foot perimeter and dewatering/wet mining/excavating below seasonal water table or adjacent streambed elevation is planned, the contractor may maintain a 400 foot buffer between the land disturbing activity or obtain concurrence for the proposed activity from the USACE. When jurisdictional areas are within 400 feet of the borrow pit, follow the procedures outlined in Skaggs Method for Determining Lateral Effects of a Borrow Pit on Adjacent Wetlands found on REU Field Operations website (https://connect.ncdot.gov/resources/roadside/FieldOperationsDocuments/SkaggsMethodBuffers.pdf). Any meeting with the USACE will include the Resident Engineer or a member of their staff. Identification of jurisdictional wetlands, surface waters, and protected riparian buffers at the site or within a 400-foot perimeter of the site are required. These types of maps include U.S. Geologic Service topographic map, soil survey prepared by the U.S. Department of Agriculture-Natural Resource Conservation Service, and site map. All copies of the reclamation plan shall include color topographic maps. The maps should be clear enough to allow someone unfamiliar with the locale to travel to the site and identify all points of interest discussed in the report using GPS coordinates (i.e. wetlands, surface waters, regulated riparian buffers and federally protected species). Local roads should be labeled, and each map must be prepared to scale. At least one figure should identify the boundaries of the candidate site, using GPS coordinates, within a larger landscape setting. Additionally, boundaries of the candidate site shall be flagged. The environmental consultant shall consider impacts to adjacent wetlands and surface waters within a 400-foot perimeter of the proposed site.
- If water is to be pumped from the site, and the site falls within one of these 15 counties; Beaufort, Carteret, Craven, Duplin, Edgecombe, Greene, Jones, Lenoir, Martin, Onslow, Pamlico, Pitt, Washington, Wayne, Wilson, the contractor's plan to comply with the NCDEQ Division of Water Resource's Central Coastal Plain Capacity Use Area rules shall be discussed. Engineer should verify CCPCUA permit.
- Include State Historic Preservation Office (SHPO) Review form for borrow and waste sites. (https://files.nc.gov/ncdcr/historic-preservation-office/environmental-review/NCHPO_ER_FORM_BorrowWaste.pdf)
- Additional information on SHPO. https://www.ncdcr.gov/about/history/division-historical-resources/nc-state-historic-preservation-office/environmental-1
- Qualifications and experience of the investigators and the methodologies employed in the investigation.

The purpose of this report is to verify whether there are wetlands, surface waters, regulated riparian buffers, or federally protected species at the site prior to the initiation of construction activities. The contractor should attach the technical report to the reclamation plan at the time the report is submitted to the Resident Engineer. The Resident Engineer will forward a copy of the report to the Division Environmental Officer.

Borrow/Waste/Staging Site Erosion and Sediment Control Plan

1. Person preparing this plan must be Level III ESC/Stormwater Certified.
2. Include an inset showing a vicinity map. This vicinity map may be a copy of a county secondary road map.
3. The map will be an accurately scaled drawing, aerial photograph or enlarged topographic map showing the following:
   a) Property lines, easements, and rights of way of the tract(s) of land under consideration.

b) Wetlands & buffer zones.
c) Jurisdictional streams & buffer zones shown either on topographic maps or soil conservation maps or as field determined by the Division of Water Resources.
d) Outline of the proposed pit or waste area.
e) Outline of stockpile areas.
f) Location of access roads, haul roads and ditches along with proposed sediment and turbidity (if dewatering) control measures.
g) Show size and type of specific erosion control measures. Indicate drainage area and disturbed area flowing to each device.
    1) Erosion Control Devices that utilize a stone outlet can only be used at drainage areas with less than 1 acre. Include calculations for time of concentration, sediment storage volume (3600 ft^3/disturbed acre), peak flow for design storm (Q_{10peak} in ft^3/s), surface area in ft^2 ($A = 435 * Q_{10peak}$), basin dimensions (limit depth to 3 ft. max), and stone spillway capacity (L=4 ft; limit H to 0.5 ft. max; use C = 2.5). Use 25 year design in High Quality Water zones and trout waters.
    2) For drainage areas of 1 acre or more, devices that drain from the surface such as skimmer outlets should be utilized. Sediment storage volume (1800 ft^3/disturbed acre), peak flow for design storm (Q_{10peak} in ft^3/s), surface area in ft^2 ($A=325*Q_{10peak}$), basin dimensions (limit depth to 3 ft. max), and geotextile lined spillway capacity (L=Q/0.8, H=1 ft. min.; use C = 2.5 and L=4 ft. min).
    3) For drainage areas of greater than 10 acres, a Riser Basin (riser pipe with skimmer attached) should be used with a surface area in ft^2 requirement of (A = 435*Q10peak). Use 25-year design (Q_{25peak}) in High Quality Water zones and trout waters.
h) If borrow pit requires dewatering, the volume of the borrow pit dewatering basin will be based on a 2-hour retention time. Using the formula, V= 8.0203 * Q * t, where V is volume in cubic feet, Q is the pump rate in gallons per minute (GPM), and t is the retention time of 2 hours. The pump rate shall not exceed 1,000 GPM (60,000 GPH). The basin shall conform to the following: rectangular in shape with 2:1 to 5:1 length to width ratio; maximum depth of 3 feet; interior and exterior slopes of basin must be no steeper than 2:1. The outlet riser pipe and barrel shall have a minimum diameter of 12 inches or D=3.5Q (Q in CFS), whichever is larger. The top invert of the riser must be set 0.5 feet (6 inches) below the top of the dam.
i) Since some borrow pits require dewatering result in significant topographical changes and significant reduction in stormwater runoff, the perimeter erosion control design shall be sequenced to address this rapid construction phase.
j) Show the cross section, e.g. 3:1, degree of slope for all slopes, whether fill or cut slopes. Include the cross slope and longitudinal slope of any ditch employed in the plan.
k) Map Legend:
    1) Name of Contractor
    2) Plans prepared by
    3) Level III ESC/Stormwater Certification Number
    4) Name of Property Owner(s)
    5) North Arrow
    6) County
    7) Project Number or WBS Element
    8) Contract Number
    9) TIP Number
    10) Scale
    11) Date Prepared

Reclamation Plan for Contract Projects- Plan Narrative

Please select at least one of the following Plan types:

☐ Borrow Pit Site ☐ Waste Site ☐ Staging Area

Division: 1 County:

Enter the following Contract and Project Information:

Contract Number:	
Project Name:	
TIP Number:	
Project #/WBS Element:	

Enter Prime Contractor Information: (*indicate Responsible Party for Contractor in Contact Name*)

Prime Contractor Information:			
Company Name:			
Contact Name:			
Address:			
City:			
State:		Zip:	
Phone Number:			

Enter Property Owner and Site Information:

Property Owner Information:				**Site Information:**			
Name:				Site Name:			
Address:				Address:			
City:				City:			
State:		Zip:		State:		Zip:	
Phone Number:							

General Site Information:

Total Proposed Acreage:

Expected Depth (pit/waste):

Present Land Use:

Land Use after Reclamation:

Site Distance at SR:

NOTE: HAUL/ACCESS ROAD MUST BE INCLUDED IN THE ACREAGE FOR THE CANDIDATE SITE.

Reclamation Plan Site Description:

1. Complete at least one of the following sections based on the planned site use:

a. Borrow Sites:
Describe the proposed sequence of excavation (include the area/amount of clearing & proposes slope rates). Ensure the existing and final site cross sections are provided with the plan sheets.

b. Waste Sites:
Expected type of waste that will be placed in the site (examples: asphalt, concrete, soil, stone, etc.):

Describe the proposed sequence of placing waste (include proposed slope rates). Will the area be excavated prior to wasting material? What will the depth of burial be and the depth of backfill on top of material be, if any?:

c. Staging Areas:
Expected type of material/equipment that will be placed in the site (examples: asphalt, concrete, soil, stone, pipe, parking, etc.):

2. Did the Environmental Evaluation Report indicate the presence of any wetlands or endangered species? (*if yes, briefly list findings and indicate physical means by which buffer zone will be delineated*):

3. Is any portion of the candidate site or access & haul roads located within a watershed that has riparian buffer zone requirements? *(if yes, indicate physical means by which buffer will be delineated and how diffuse flow into the buffer zone will be maintained*):

4. Is the site adjacent to High Quality Waters as defined by the Department of Environmental Quality? (*if yes, note how the devices have been designed to meet NCDEQ requirements*):

5. Describe the intended plan and sequence for final site reclamation and subsequent use of all affected lands; indicate the general methods to be used in reclaiming this land, including any stockpile areas, haul roads, and ditches.

Attach a site map which illustrates this plan, showing the location and design of all temporary and permanent erosion control devices. All features must comply with the appropriate specifications, NCDOT standards, and reflect Best Management Practices (BMPs). The plan must indicate setbacks to adjacent properties, buffer zones, and if de-watering is required, and the pit is located within the 15 county region of the CCPCUA, the GPS coordinate location of any well located within 1,500 ft. of the pit.

6. Will excavation extend below the water table? (*If yes, complete below*): No

a. Specify how de-watering will be accomplished. Include proposed method of reducing effluent turbidity so that it meets the requirements of the Division of Water Resources. Show any pit dewatering basins, construction details, and calculations on the plan:

b. If the pit is located within the Central Coastal Plain Capacity Use Area, has the permit been approved? If so, list the person responsible for completing the Division of Water Resources CCPCUA spreadsheet and method of submission to the Resident Engineer. Has the permit been approved by DWR?

c. If water is to remain in the pit after completion, state the estimated depth of the water (minimum depth is 4 ft.). Indicate the water table depth prior to beginning excavation and the method used to obtain this information.

d. If Yes, and a buffer less than 400’ has been proposed, has the Skaggs Method report been attached?

7. Describe the proposed schedule of permanent seeding and mulching for the site. Detail the frequency of permanent seeding and mulching. Note: a stand of permanent vegetation is required prior to a final inspection.

Other/Additional Information:

Property Owner's Statement:

I hereby certify that I am in agreement with this development, use, and Reclamation Plan, and any exceptions noted when approved by the Engineer, and that I understand that I will be responsible for the site upon completion of its use in the construction of the project noted in the map key. I understand that this plan, when approved, will serve as a guide in controlling erosion and sediment in accordance with the Mining Act and the Sediment and Pollution Control Act and as enforced by the North Carolina Department of Environmental Quality (DEQ). I understand that any work exceeding the minimum necessary for compliance with DEQ requirements, should be negotiated between the Contractor and the Property Owner. My signature below authorizes The Department of Transportation (DOT), the Department of Environmental Quality (DEQ) or its agents, to enter upon my property for a period of one year from the date of final acceptance of the project for which this site plan is executed. If necessary, the DOT will be allowed to have the Contractor repair any areas that are not in compliance with DEQ requirements. After a one-year inspection is held, I will be solely responsible for assuring that the site is in compliance with DEQ regulations. I have the right to change the condition of the site after the final inspection and prior to the one year follow-up inspection. However, if I make such changes, I acknowledge that DOT is released from all obligations and conditions of this agreement and I will become solely responsible for the condition of the site beginning on the date that I change the final inspection condition.

Signatures:

Contractor's Representative:

(authorized to sign supplemental agreements/ date)

Owners of Record:

Witness:

Owner:

Name Date

Resident Engineer:

(Name/Date)

Exceptions:

Concurrence with exceptions:

Name Date

Reclamation Plan for Contract Projects: Plan Review Checklist

Date Received:

Please select at least one of the following Plan types:

☐ Borrow Pit ☐ Waste Site ☐ Staging Area

Enter the following Contract and Project information:

Contract Number:
TIP Number:
Project #/WBS Element:

Please enter property owner information and site address (if different then property owner address):

Property Owner Address same as Site Address? ◯ Yes ◯ No

Property Owner information:				**Site Information:**			
Name:				Site Name:			
Address:				Address:			
City:				City:			
State:		Zip:		State:		Zip:	

General Site Description and Use:

Reclamation Plan Checklist			YES	NO	N/A
1.	Is the submittal complete?		☐	☐	☐
2.	Is the source commercial?	*If yes, complete item 3 below.*	☐	☐	☐
3.	If commercial, has:				
	Mining permit number been provided.	*Provide number below.*	☐	☐	
	Commercial Permit Number:		☐	☐	☐
	Copy of Mining Permit cover page submitted?		☐	☐	
4.	If there is no permit number has the DEQ Regional Engineer been notified?		☐	☐	

5.	Has the Reclamation Plan form been submitted? Including the following items:	☐	☐	☐
	Site/Plan Narrative	☐	☐	☐
	Site Map(s)	☐	☐	☐
6.	Are all required signatures on narrative, map(s), and plan sheets?	☐	☐	☐
7.	Does the site map or plan sheets include the vicinity map?	☐	☐	☐
8.	Has the site inspection been made?	☐	☐	☐
	Was the Property owner invited?	☐	☐	☐
9.	Are all items/questions satisfactorily answered on narrative?	☐	☐	☐
10.	Has the mandatory letter from the SHPO been attached & any required conditions addressed?	☐	☐	☐
11.	If this is a waste site, has the type of debris to be wasted been provided and the amount of cover been addressed?	☐	☐	☐
12.	Are the following map items included?	☐	☐	☐
	Name of designer and Level III ESC/Stormwater Cert. Number	☐	☐	☐
	Name of Contractor	☐	☐	☐
	Name of Property Owner	☐	☐	☐
	North Arrow	☐	☐	☐
	County	☐	☐	☐
	Project Contract No./TIP Number	☐	☐	☐
	Scale	☐	☐	☐
	Date Prepared	☐	☐	☐
13.	Has the Environmental Evaluation been submitted?	☐	☐	☐
	Are wetlands present?	☐	☐	☐
	Have blue line steams been delineated?	☐	☐	☐
	Are buffer rules applicable?	☐	☐	☐
	If yes, has diffuse flow been provided?	☐	☐	☐
	Has a physical method of delineating buffers been described?	☐	☐	☐
	Are applicable setbacks shown?	☐	☐	☐
	Is site within 100-year floodplain?	☐	☐	☐
	Has the DEO reviewed the assessment?	☐	☐	☐
	Has the Roadside Environmental Field Operations Engineer reviewed the plan?	☐	☐	☐

		YES	NO	N/A
14.		☐	☐	☐
	> 3:1 for Coastal Plain Borrow	☐	☐	☐
	> 2:1 for Statewide Criteria	☐	☐	☐
15.	For a Borrow Site, will water remain in the pit?	☐	☐	☐
	Is the current water table elevation indicated?	☐	☐	☐
	Is the proposed depth of water in the pond indicated?	☐	☐	☐
16.	Will the excavation require temporary de-watering?	☐	☐	☐
	Will excavation extend below the water table?	☐	☐	☐
	If Yes, and a buffer less than 400' has been proposed, has the Skaggs Method report been attached?	☐	☐	☐
	Method for controlling and reducing turbidity to levels acceptable with Water Quality standards?	☐	☐	☐
	If within 15 county CCPCUA regions, is the responsible person listed?	☐	☐	
	If within CCPCUA region are wells identified with GPS?	☐	☐	☐
	If within CCPCUA region and pumping is required, are pump discharge coordinates indicated?	☐	☐	☐
	Has CCPCUA permit been approved by DWR?	☐	☐	☐
17.	Are haul roads shown in the plan? *Must show from site to SR.*	☐	☐	☐
18.	Are construction entrances shown and detailed on the plan?	☐	☐	☐
	Is sight distance adequate where trucks will enter an existing roadway?	☐	☐	☐
19.	Have temporary devices been checked for location and size? *(size, surface area, spillway capacity)*	☐	☐	☐
	Has the method of maintenance for devices been described?	☐	☐	☐
	Is the cross slope rate of temporary ditches, including dewatering excavation, indicated? (typ. > 2:1)	☐	☐	☐
20.	Is staged seeding, per acre of exposed erodible slope, provided for?	☐	☐	☐
	Is the seed mixture indicated and is it acceptable?	☐	☐	☐
	Will the indicated mixture provide long term vegetative cover?	☐	☐	☐
21.	Is maintenance of the site by the property owner or contractor, after final acceptance, accounted for?	☐	☐	☐
22.	Have submittals been signed by all required parties?	☐	☐	☐

		YES	NO	N/A
23.	Have approval letters and approved plans been sent and distributed to the following?	☐	☐	☐
	Contractor	☐	☐	☐
	Resident Engineer	☐	☐	☐
	Division Environmental Officer	☐	☐	☐
	Project Inspector	☐	☐	☐
	Division Construction Engineer	☐	☐	☐
	DEQ- DEMLR Regional Engineer	☐	☐	☐
	Army Corps of Engineers	☐	☐	☐
	Roadside Environmental Field Ops. Engineer	☐	☐	☐
	Area Construction Engineer	☐	☐	☐
	Property Owner	☐	☐	☐
		☐	☐	☐

Comments: *(include missing/incomplete items, required edits/revisions, etc.)*

Reviewed By: (Signature)

Date