

**FORT STEWART & HUNTER ARMY AIRFIELD**  
**ENVIRONMENTAL DIVISION BORROW PIT EXCAVATION**  
**APPLICATION/PLAN**

Environmental Branch  
 1137 Frank Cochran Drive  
 Fort Stewart, Georgia 31314  
 912/767-9779 (fax)  
 912/767-1211 (office)

*FOR DEPARTMENT USE ONLY*  
 Project Number:  
 Training Area:  
 Operation:  
 Acreage:  
 Amount of material required (cubic yards):

**APPLICATION FOR BORROW PIT EXCAVATION PERMIT**

*Instructions:* An application for a permit must include the Borrow Pit Operator's Excavation Plan and must be factual and complete. The Application and Plan (original and two [2] copies) must be submitted to the address shown above.

Pursuant to the requirements of the Fort Stewart/HAAF DPW Borrow Pit Management Plan.

1. Applies for a permit to conduct a Borrow Pit Excavation operation as represented in the attached Borrow Pit Excavation Plan;
2. Specifically grants to the applicant or any authorized representative of the applicant the right of entry and travel upon affected lands;
3. Certifies the information provided in or submitted by the Contracting Officer's Representative (COR) on behalf of the Borrow Pit Operator or Contractor as a part of this Borrow Pit Excavation Plan is true and correct, and the COR will ensure the Borrow Pit Operator agrees to comply with provisions of the Fort Stewart/HAAF DPW Borrow Pit Management Plan as specified herein.

\_\_\_\_\_  
 Government COR Signature (Date)

\_\_\_\_\_  
 Equipment Operator Name & Title

\_\_\_\_\_  
 Government COR Name

\_\_\_\_\_  
 Operator Contracting Company

\_\_\_\_\_  
 Government COR Phone #

\_\_\_\_\_  
 Company Address

\_\_\_\_\_  
 Government COR Email Address

\_\_\_\_\_  
 City, State, Zip

\_\_\_\_\_  
 Government COR Building & Office Numbers

\_\_\_\_\_  
 Telephone

\_\_\_\_\_  
 Project Name

\_\_\_\_\_  
 Borrow Pit Identification

*The approval of this Application and Borrow Pit Excavation does not relieve the Operator of any obligation or responsibility for complying with the provisions of any other laws or regulations of any other federal, local or state authority.*

**FOR DEPARTMENT USE ONLY**

**Plan Recommendation: Approval/Disapproval**

**Plan Recommendation: Approval/Disapproval**

\_\_\_\_\_  
 Reviewer (Date)

\_\_\_\_\_  
 Program Manager (Date)

Comments:

**BORROW PIT EXCAVATION LAND USE PLAN**

*NOTE: Any corrections, changes of information or other alternatives of content of this Plan and attachment must be initialed and dated by the Operator and the Fort Stewart Environmental Branch.*

**I. OPERATOR AND GENERAL INFORMATION**

1. DESCRIPTION OF EXCAVATION OPERATOR'S COMPANY (*hereinafter "Operator"*)

Name of Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Type of Business:     ( ) Corporation     ( ) Partnership     ( ) Proprietorship     ( ) Other

Onsite Manager/Representative: \_\_\_\_\_

Title: \_\_\_\_\_ Telephone: \_\_\_\_\_ Mobile phone: \_\_\_\_\_

Government Contracting Officer Representative: \_\_\_\_\_

Training Area Location of Borrow Pit Operation: \_\_\_\_\_

Borrow Pit Location within T.A.: \_\_\_\_\_

Environmental Office Contact: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_ Telephone: \_\_\_\_\_

3. GENERAL SITE LOCATION

Grid Coordinate of Borrow Pit Excavation Operation: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. MATERIAL TO BE EXCAVATED AND METHOD

Mineral/Material: \_\_\_\_\_

Method of Removal: \_\_\_\_\_

\_\_\_\_\_

5. SCHEDULES FOR EXCAVATION AND RECLAMATION

Anticipated Date to Begin \_\_\_\_\_  
(Month/Year)

Anticipated Date to Complete \_\_\_\_\_  
(Month/Year)

Anticipated Date of Final Reclamation \_\_\_\_\_  
(Month/Year)

NOTE: If excavation is completed prior to the above stated date, the Operator shall notify DPW three (3) days prior to completion regardless of any stated or implied completion date. An inspection of the Borrow Pit is required by DPW to process a release. Failure to comply with the plan as stated herein will require notification to the COR before a release is authorized.

6. INFORMATION ON OTHER PERMITS

A. List any Georgia Surface Mining Permits suspended revoked, or for which a bond was forfeited:

B. List other environmental permits being applied for in relation to this operation (i.e. erosion/sedimentation, storm water, etc...)

C. List other local permits being applied for in relation to this operation:

II. PERFORMANCE CRITERIA FOR BORROW PIT EXCAVATION PLAN AND DEWATERING ACTIVITIES

1. Plan Drawings (attached) shall show but are not limited to the metes and bounds of the property to be excavated, the limits of the affected acreage, the natural drainage features and water disposal, the initial site preparation and overburden (spoil) area(s), the erosion and sedimentation controls, the ingress/egress area(s), the direction, detail and schedule of excavation advancement, the area to be left undisturbed (buffer) where necessary, and the plan that shows projected final reclamation of the site.
2. The Operator will implement site survey control to ensure that all acres affected by the excavation operation will be on designated, permitted lands. Survey control will be accomplished through the use of permanent accessible benchmarks, survey control stakes, and/or boundary markers that designate and/or delineate all permitted acreage. Survey control shall be as indicated on the boundary survey, drawings, maps, etc. included as part of this Borrow Pit Excavation Plan (attached). Where necessary, for construction or operation proposes, vertical as well as horizontal survey control will be established and maintained.

**MEANS**

- Property Boundary Markers
- Affected Acreage Markers
- Dredge limits
- Clearing Limits
- Other:
- Permanent Survey Control Markers
- Horizontal: (Identifier & Location)
- Vertical: (Identifier & Location)
- Known Elevation:
- Assumed Elevation:

**Identifier/Location**

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3. The Operator will ensure that all measures and facilities for control of erosion and sedimentation during site preparation, operation, and/or reclamation activities shall adhere to the following:
  - A. Erosion and sedimentation control measures and facilities will be employed prior to or concurrent with clearing, grading, overburden removal, access or other land disturbing activities for preparation or operation of the site. Provisions will be made for treatment or control of any source of sediments.
  - B. The Operator, so as to be effective, whether temporary or permanent, shall continuously maintain all erosion and sedimentation control measures or facilities.
  - C. Sediment in surface runoff water shall be trapped by use of debris basins, sediment basins, silt traps, sediment barriers or similar structures.
  - D. Permanent vegetation shall be installed as soon as possible. Temporary vegetation and/or mulch shall be employed where necessary to protect exposed critical areas until permanent vegetation or stabilization is attained.
  - E. Natural vegetation shall be retained, protected and supplemented wherever feasible to provide for natural buffer areas.

- F. Diversions, dikes, and berms shall be employed to retain, direct and control surface water runoff from affected areas into sediment control structures.
- G. All surface water discharges shall be controlled and released at a non-erosive velocity onto stabilized areas or into stabilized channels.
- H. Constructed slopes, at the least should be four horizontal to one vertical (4:1) except where may be approved otherwise in this as shown in the attached Plan/drawings. All slopes shall be marked so as to prevent foot or vehicle traffic from inadvertently falling into the pit. Fill and cut slopes shall be designed and constructed to prohibit slumping or shear failures. Prior to final grading, all slopes will be blended in with the original existing topography. Slope grades shall be uniform. Mechanical or vegetative or both stabilization measures shall be employed as soon as practical to prevent erosion.

**NOTE:** *The Operator may refer to design criteria in the “Manual for Erosion and Sedimentation Control in Georgia”, published by the State Soil and Water Conservation Commission as a guide or through the use of alternate design criteria which conform to sound conservation and engineering practices.*

- 4. All permanent landform changes including, but not limited to, berms, drainage structures, surface water channel modifications, etc., shall be constructed in a manner to protect against failure, subsidence and/or erosion and will be permanently stabilized upon completion of construction.
- 5. Whenever a site lies contiguous to any waters of the State or whenever, in the judgment of the Fort Stewart Environmental Office, proposed operations at such site will adversely affect any portion of a watershed of the State, the Operator will follow sound engineering and conservation measures to provide protective barriers, such as dams, berms, silt ponds, or other similar structures, between the land to be affected and waters or watersheds involved. All such structures are to be approved by the Fort Stewart Environmental Office as a part of this Plan and are to be substantial for the protection of contiguous natural resources of the State. All structures referred to above are to be constructed a reasonable distance from waters of the State, or that portion of a watershed of the State that may be adversely affected, as determined by the Fort Stewart Environmental Office. Borrow Pit Excavation, if conducted within the 100-year floodplain, shall be done in accordance with any applicable local floodplain management ordinance, if any. Where a local floodplain management ordinance does not exist, the Operator shall ensure that the excavation activities are conducted so as to minimize flooding, erosion and/or sedimentation on adjacent upstream or downstream properties.
- 6. Before natural creeks, streams, rivers, lakes, or other bodies of water may be altered in course or relocated by the Operator, the Environmental Office as a part of this Plan must approve the plan for such alteration or relocation.
- 7. The Operator shall obtain required storm water permits and maintain compliance with the Water Quality Control Rules, Chapter 391-3-6-.16 (Storm Water Permit Requirements).
- 8. If archaeological or fossil resources are discovered during the course of an excavation; continued excavation and disturbance of the site will be suspended and the DPW, Environmental Division (767-2010) will be notified immediately. The ED will evaluate the significance of the finding and issue new guidance.
  - A. Alternatives or measures to avoid or reduce effects on the historic properties;
  - B. Determinations of effects on alteration to features of the property’s location, setting, or use;
  - C. Determinations of adverse effects which may diminish the integrity of the property’s location, design, setting, materials, workmanship, or other structural detail.

**Adverse effects on historic properties include, but are not limited to:**

- A. Physical destruction, damage, or alteration of all or part of the property;
- B. Isolation of the property from or alteration of the character of the property’s setting when that character contributes to the property’s qualification for the National Register;
- C. Introduction of visual, audible, or atmospheric elements that are out of character with the property or alter its setting.

**\*\* Anytime archaeological or paleontological materials (e.g. artifacts, arrowheads, fossils, etc...) are encountered, the Fort Stewart Cultural Resources Section must be immediately notified at (912) 767-0992/2010.**

9. Adverse effects from the introduction of atmospheric elements shall be defined as repetitive non-conformance with the National Ambient Air Quality Standards (NAAQS) regarding fugitive dust particles of 10 microns and smaller which may leave the subject property as set forth by the Environmental Protection Agency.
10. Adverse effects from the introduction of audible elements shall be defined as repetitive non-compliance with the Georgia Blasting Standards Act (State of Georgia House Bill 824) regarding atmospheric overpressure limits as governed by the Department of the Fire Marshal for the State of Georgia. Avoidance of adverse effects by the introduction of visual elements shall be accomplished wherever practical by maintaining visual barriers, either by undisturbed buffer areas or manmade structures such as berms, as outlined in the approved Excavation Land Use Plan.
11. It is incumbent upon the Operator to provide satisfactory evidence to the Fort Stewart Environmental Office that alternatives have been considered and this plan contains appropriate measures to provide for minimizing and/or mitigating any adverse effects. If after the excavation operation begins adverse effects become evident, the Fort Stewart Program Manager will give the Operator written notice of the occurrence of such adverse effects. The Operator will then have thirty (30) days to mitigate the adverse effects. In certain cases depending on the nature of the impact the Operator may be required to cease work immediately. If during the thirty-day period no successful action is taken by the Operator to mitigate the adverse effects, the Operator upon notice from the Fort Stewart Environmental Office will cease operations. The Operator will then provide to the Fort Stewart Environmental Office, within ten (10) days, an assessment of the effects and a plan to mitigate the impact. Upon approval by the Fort Stewart Program Manager, the Operator may be allowed to resume excavation operations.
12. *When Federally listed Endangered and/or Protected Plant/Animal Species are encountered the operator **must immediately stop all excavation activities, and contact the Fort Stewart Fish and Wildlife Branch (912) 767-2584.***
13. The Operator shall post an identification sign, which shall display the Operator's Name, Borrow Pit Name/Number, and Permit at the entrance of the Borrow Pit.
14. In the event the Operator ceases active excavation, all exposed critical disturbed areas will be stabilized and the Operator will maintain all measures employed for erosion and sedimentation control. Should extraction of mineral or material cease prior to completion of the Excavation Plan, the Operator shall complete the reclamation as provided for within thirty (30) days from date of cessation.

### **III. PERFORMANCE CRITERIA FOR RECLAMATION**

1. All applicable parts of Section II, 3. Erosion and Sedimentation Control apply including the following:
  - A. Reclamation shall be concurrent with excavation activity as lands become available.
  - B. Reclamation objectives as shown on Borrow Pit Excavation Plan will be achieved unless Operator submits an amendment.
  - C. Following the removal or disposal of all structures, equipment, stock-piles, excavation refuse, and all other materials associated with surface excavation, the Operator will reclaim all affected land in accordance with the provisions of this Plan. All lands except those specifically exempted in this Plan will have a neat, clean appearance, and contain a high quality permanent vegetative cover.
  - D. Vegetative Stabilization (planting) Requirement: The Operator will provide a high quality, enduring vegetative ground cover of properly planted and nurtured perennial vegetative species suited for the specific planting zone involved. The perennial vegetative species shall provide a complete, thorough stabilization by establishing root mass and cover for the total disturbed area.
  - E. Structural Stabilization: Permanent structural control measures, i.e. stone riprap, ditches, berms, paved chutes, or piped down drains, etc, shall be utilized to convey concentrated storm flows down slopes to stable outlets. These measures are necessary in areas where concentrated storm flow velocities may cause erosion.
2. Specific requirements the Operator will adhere to:
  - A. The Operator shall grade all peaks, ridges, and valleys resulting from surface excavation and backfill all pits and trenches resulting from same in a manner to minimize any hazardous effects of excavation adjacent to any Fort Stewart, State, or County maintained road.

- B. All affected lands requiring backfilling as stated in the Reclamation Objective of this Plan shall be backfilled utilizing overburden, spoil material, and/or borrow from affected (permitted) land unless approval from the Fort Stewart Program Manager is obtained to utilize other materials. Sound engineering principles shall be applied to ensure that affected lands, as reclaimed, meet the intended use.
- C. Immediate erosion control measures shall be applied to protect the topsoil cover until an adequate vegetative cover is established.
- D. All high-walls occurring in unconsolidated materials shall be reduced by grading to blend the high-wall with the existing original site topography. High-walls occurring in consolidated material shall be reduced as much as may be practicable. If high walls are to remain they should have a constructed bench with reverse slope to the wall shall be provided at the top of. Any remaining high-walls of fifty (50) feet or greater shall be fenced or “bermed” at the top beyond the initial bench. Such fencing or berms shall be sufficient to provide an adequate degree of protection or warning to foot or vehicle traffic.
- E. All affected land, unless otherwise specified in this Plan, shall be graded into a rolling topography and blended in with the existing landscape. All graded areas shall be free of debris, stockpiled materials, boulders, etc. that would interfere with the intended use and/or maintenance of the area.
- F. Constructed slopes, at the least should be four horizontal to one vertical (4:1) except where may be approved otherwise in this Plan. Fill and cut slopes shall be designed and constructed to prohibit slumping or shear failures. Prior to final grading, all slopes will be blended in with the original existing topography. Slope grades shall be uniform. Mechanical or vegetative or both stabilization measures shall be employed as soon as practical to prevent erosion.
- G. Overburden, spoil or refuse, when used as backfill material, for berms or other construction, shall be segregated as necessary, emplaced and compacted in accordance with sound engineering practices to provide for the purpose intended. Refuse does not include any material, which may be classified as solid waste under provisions of the Georgia Comprehensive Solid Waste Management Act.
- H. All new landform structures created with the use of overburden (spoil) or refuse materials shall be constructed in a manner to protect against failure, subsidence and/or erosion and will be permanently stabilized upon completion of construction.
- I. When lakes/ponds are proposed, the minimum acceptable design criteria shall meet or exceed those criteria in: Agriculture Handbook Number 590, Ponds – Planning, Design, Construction published by the United States Department of Agriculture, Soil Conservation Service, latest issue. When the dam structure proposed is 35 feet or higher, other acceptable design criteria shall be used.
- J. Water shall be of a quality suitable for the intended use. The lake/pond shall have a safe access and be free of underwater hazards. All above water portions of the lake/pond site development shall be re-vegetated with an enduring permanent vegetative cover.
- K. Under provisions of the Georgia Safe Dams Act, no permit shall be required to be obtained by the Operator if a dam is constructed with or incidental to “surface mining” as defined in the Georgia Surface Mining Act. If the dam so constructed is classified by the Fort Stewart Environmental Office as a Category I dam, then, before such lake is deemed acceptable reclamation and the Operator is released from his obligations under the Georgia Surface Mining Act, as amended, the Operator will obtain a permit for such dam under the Safe Dams Act.
- L. Any proposal for the construction of wetlands as a reclamation objective shall be consistent with accepted practices utilizing the Best Available Technology (BAT) and include the best management practices (BMP’s) to attain the desired result. The proposal shall be attached to and be a part of this Plan subject to approval by the Fort Stewart Environmental Office.
- M. The Operator shall notify the Borrow Pit Management representative for Release upon completion of reclamation responsibilities on affected acreage. A report may be filed on reclamation activities that partially complete the Operator’s full responsibilities for total acreage affected.

\* The following pass must be obtained from the Range Control Office ***before entering*** any Training Area.

<b><i>POV PASS FOR FORT STEWART ROADS AND TRAINING AREAS</i></b>		
TO: Appropriate Range Guards and/or military police		
FROM: Chief Range Division, Fort Stewart Ga. 31314 (912) 767-877/8100		
The following individual(s) is/are authorized access to the following Training Area/Facilities beginning _____ thru _____ (Start Date) (End Date)		
Rank, Name (Last, First)	Training Area(s) Facility	
Organization	Phone Number	
Reason for Access Pass		
Vehicle (Model) (State)	Year	(License Plate Number)
<u>Statement of understanding</u>		
I understand that I am permitted to use only the above listed training area(s) and roads leading to and from that area. I may only use that area/facility for the date and time listed below. I understand that I am using these roads at my own risk, and the Commander, 3 <sup>rd</sup> infantry Division and Fort Stewart Assume no responsibility for my safety.		
Permanently off limit areas- High Risk Dud Area: Artillery Impact Area, Aerial Gunnery Ranges 1-3 (AGR), EOD Area, Tank Gunnery Ranges (B9-16) and small arms impact area, Luzon Range. Abandoned Ranges located in C1 and C4 training areas.		
CAUTION: DO NOT DISTURB UNEXPLODED AMMUNITION! Mark location and notify Range Control (912) 767-8777 or call the Military Police at 911.		
I have been briefed and understand the OFF-LIMITS areas and the limitations of this pass. I will notify Range Control at 767-8777 prior to entering an area and upon departure.		
Chief, Range Division	Bearer's Signature	
<b><i>POST ON DASHBOARD OF VEHICLE</i></b>		

**ATTACH PLAN DRAWINGS:**