

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Water Management Administration • Minerals, Oil & Gas Division

P.O. Box 2057 • Baltimore Maryland 21230-2057

(410) 537-3557 • 1-800-633-6101 • http://www.mde.state.md.us

Permit No.

77-SP-0096 -211

Check one:

Original

Renewal

Modification

Transfer

APPLICATION AND MINING AND RECLAMATION PLAN
FOR SURFACE MINING PERMIT
FOR NON-QUARRY OPERATIONS

Handwritten notes and stamps: 4132-597.00, 120114, and a circular stamp with 4132-597.00.

4131-519.30
4132-597.00

1 GENERAL INFORMATION AND FEES

- 1) Name of applicant: BBSS, Inc.
- 2) Current License Number : SL-0452
- 3) Business mailing address: 1 Church View Road
Millersville, Maryland 21108
- 4) Business telephone number: 410-987-0313
 - a) Worker's Compensation Insurance Number: N/A
- 5) Name of operation (for example #1 pit or Smith Tract): Waugh Chapel Pit
- 6) Location of operation:
 - a) County: Anne Arundel
 - b) Travel Directions: Md. Rte. 3 South between Waugh Chapel and Brickhead Rd.
- 7) Name and address of surface land owner(s): BBSS, Inc. & Towser Developers, Inc.
1 Church View Road
Millersville, Md. 21108
- 8) Name and address of mineral owner(s): BBSS, Inc.
1 Church View Road
Millersville, Md. 21108

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9) Commercial name of mined products and geological description of mineral deposit:
Sand & gravel, fill dirt

10) Date mine opened: Pre 1977 Probable mine closure date: 2020

11) a) Total acreage currently permitted: 77.8

b) Acreage applied for in this application: 19.9

12) Present uses of land to be mined: Sand and gravel processing and aggregate stock piles

Complete item 13 only if applying for a permit modification

13) Reasons for requesting modifications:

Change in planned land use Increased land area

Change in schedule of reclamation Other

Change in reclamation practices Decreased land area

Describe Reasons: Add additional 19.9 acres to permit.

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FEE SCHEDULE

Check category(ies) on page for which application is made, fill in blanks, and remit necessary fees.

ORIGINAL APPLICATION	AMOUNT REMITTED
1) New Acreage Fee: \$12 x _____ acres (\$1,000 Maximum annual fee)	_____
2) Special Reclamation Fund Fee: \$30 x _____ acres	+ _____
3) Right of Entry Agreement Recording Fee: \$40.50	+ _____
TOTAL =	\$ _____

MODIFICATION APPLICATION - NO ADDITIONAL ACREAGE	
1) Modification Fee: \$100	TOTAL = \$ _____

MODIFICATION APPLICATION - ADDING NEW ACREAGE	
1) Modification Fee: \$100	_____ \$100.00
2) New Acreage Fee: \$12 x <u>19.90</u> new acres (\$1,000 Maximum annual fee)	+ _____ \$238.80
3) Reclamation Fee: \$30 x <u>19.90</u> acres	+ _____ \$597.00
4) New Right of Entry Agreement Recording Fee: \$40.50	+ _____ \$40.50
TOTAL =	\$ <u>\$976.30</u>

RENEWAL APPLICATION	
1) \$12 x <u>77.8</u> acres (\$1,000 Maximum annual fee):	TOTAL = \$ _____
	(Renewal Fee already paid)

TRANSFER APPLICATION	
1) Transfer Fee: \$500	+ _____
2) Right of Entry Agreement Recording Fee: \$40.50	+ _____
TOTAL REMITTED	\$ <u>\$976.30</u>

Application and Recording Fees - Source Code 4131
Special Reclamation Fund Fees - Source Code 4132

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1 SITE INFORMATION

14) Present land use(s) of the affected acreage (Check all that apply)
[] Agriculture - crops [] Forest
- pasture [x] Undeveloped Land
[x] Mining [x] Other: Topsoil processing

15) Existing land use(s) of all adjacent properties including any significant natural or man-made features (Check all that apply)
[] Agriculture - crops [x] Undeveloped Land
- pasture [x] State/County Roads (name): Waugh Chapel Rad
[x] Mining [] Forested Acres:
[] Wetlands Acres: [x] Other: BGE power lines, hot mix asphalt plant

16) Proposed use(s) of the affected acreage following completion of mining (Check all that apply)
[x] Vegetated Open Space [x] Agriculture
[] Permanent Impoundment with Vegetated Side Slopes
[] Forestry
[x] Other -describe thoroughly: Hot mix asphalt aggregate storage.

17) a) What is the existing zoning classification for the site? RA, W3

b) Is mineral extraction an accepted land use for this zoning classification?
[x] YES [] NO

c) Have all zoning approvals been obtained?
[x] YES [] NO
If NO, explain

d) Do the future intended uses given in Item 16 comply with the present zoning?
[x] YES [] NO

If NO, explain:



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- 18) Is the proposed/existing mining site located in or within 200 feet of:
- a) Non-tidal wetlands
 YES NO
- b) The one hundred year floodplain of non-tidal streams
 YES NO
- c) Be located within 25 feet of a non-tidal wetland or area that may frequently hold water?
 YES NO
- d) Require the pumping of groundwater or surface water?
 YES NO

If yes, other approvals may be required. Provide documentation of any required approvals

- 19) Will a wash plant and or wash water settling pond(s) be included in the permit area?
 YES NO

NOTE: If "YES", pond approval for all wash water ponds must be obtained before this permit can be issued.

If "YES", provide the following information for each impoundment

- a) What is the drainage area contributing to each impoundment? N/A
- b) Will the impoundments be dugout or embankment type, or a combination of the two? Dugout
- c) What are the elevations of the principle spillway(s) and emergency spillway(s)?
 Principle Spillway Pond pumped out
 Emergency Spillway Overflow into basin #1
- d) What will the surface area, minimum and maximum depths of each impoundment be?
 Surface Area 22,500 sf
 Minimum Depth 5'
 Maximum Depth 15'
- e) State the proposed water surface elevation, and how this elevation was determined.
el. 102 from topo map
- f) Indicate the source of make-up water to the plant: Towers Branch
- g) Indicate the clean out elevation for the ponds. Dredge runs continuously while plant is in operation.
- h) Where and how will the fines be disposed of? Used as a stabilization medium in pit reclamation and utilized in manufactured topsoil.

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i) Will the ponds(s) remain at the completion of mining? If not, how will they be reclaimed?

The wash plant and ponds will remain in place during reclamation. When finished, ponds will be drained, cleaned and reclaimed.

j) Water Appropriation Permit Number: AA1969S006 (4)

II. MINING METHOD

20) Indicate the type(s) of mining equipment to be used:

- Dredge Bulldozer
- Power shovel Conveyor belt
- Hydraulic excavator Explosives
- Self-loading pan "Off road" trucks
- Conventional trucks Front-end loader
- Dragline Pipeline
- Other (Specify): _____

21) Fully describe the mining operation. Include in the mining sequence, a detailed description of site preparation, sequence of installation and maintenance of sediment controls, the mining direction, depth, number of lifts, number of acres distributed at one time, and proposed reclamation.

If this is **NOT** an original application, describe the current condition(s) of all phases of the operation. (Attach on separate sheet if needed)

See Attached

NOTE: Information concerning the nature and depth of the material to be mined is not public information and will be kept **CONFIDENTIAL**.

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ITEM 21 ATTACHMENT

Our currently permitted surface mining area is 77.8 acres; with this proposed expansion of 19.9 acres the total will be 97.7 acres. The mining area will be divided into three phases.

Phase I of our mining permit consists of 25.8 acres. This phase has been mined out, reclaimed, and stabilized except for 10.6 acres which is permitted for and operating as a land clearing debris landfill area.

Phase II consists of 52 acres. This phase has been mined and is in the process of being reclaimed. It will take approximately 10 years to finish reclamation. All necessary sediment control devices are in place and will be maintained throughout the life of the permit. Approximately 20 acres in Phase II are being used for wash plant operations and stockpiles. The wash ponds are cleaned out continually using a dredge system. The fines are put through a belt press and used as reclamation material or in manufactured topsoil. Approximately 5 acres are used to process topsoil.

Phase III will consist of 19.9 acres. It is contiguous to the phase two mining area and is located behind our hot mix asphalt facility. All necessary sediment control devices will be installed prior to mining and will be maintained throughout the life of the permit. The excavated material from this area will be processed on site, used for on-site pit reclamation, or for offsite borrow material. It is currently zoned both RA and W3.

10.6 acres will be reclaimed as a land clearing debris landfill and the remaining 87.1 acres will be reclaimed using fill from on-site and off-site sources. The existing fill material used for Phases I and II consisted of clean earthen fill from various jobsites and coal ash from Constellation Power Source Generation. No additional coal ash is planned for reclamation on this site.

To avoid or minimize potential impacts associated with mining under this permit, the following dust suppression methods will be employed: Fugitive dust control shall be provided through a combination of the use of paved haul roads, a full time water truck operating on site, and a street sweeper or power broom as needed. Water will be applied on the stockpiles, openly excavated areas and other surfaces in the mining limits which may give rise to airborne dust. The existing evergreen screening along the North West edge of phase 3 will be enhanced with additional evergreen plantings providing an uninterrupted natural buffer along the perimeter of phase 3.

The total acreage to remain disturbed for the life of the permit is as follows:

Scale house	0.5 acres
Haul roads	7.0 acres
Wash plant & stockpiles	20.0 acres
Fines drying area	5.0 acres
Topsoil/mulch processing area	5.0 acres
Stumps fill area	10.6 acres
Stone stockpile area	10.0 acres

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III. SITE PREPARATION

22) Describe procedures for providing access to the mining area - include length, width, construction materials, maintenance etc. of entrance roads as well as haul roads.

The mining area is accessible by private paved haul roads. The pit roads are constructed of gravel or asphalt and are approximately 30' wide.

a) Indicate methods by which mud and dust will be controlled on haul and access roads:

Water truck

Power broom & scraper

Spray bar

Other Site access via paved haul roads

Full time water truck operating on site

NOTE: Mud or dust tracked onto public roads shall only be cleared by broom or scraper. The material removed from the public roads shall be returned to the active pit. No material shall be washed from the public roads unless it is directed to an approved sediment control device.

b) Indicate the methods for removal and disposal of trees and brush: (Check all that apply)

Taken to an MDE-approved disposal site

Wind-rowed on site within the permit boundary

Burned, after obtaining proper burning permits

Other (describe) Grind and chip on site

c) State the number of acres cleared, grubbed & stripped of topsoil & overburden ahead of mining:

Approximately 5 acres will be cleared and stripped ahead of mining.

d) State the thickness (inches or feet) of topsoil/subsoil on-site:

Approximately 1'

e) State the amount (in cubic yards) to be conserved for reclamation and to be used in construction of visual/acoustical berms (include stabilization notes):

1,000 cy. All inactive stockpiles and finished berms will be stabilized as necessary.

f) Describe the removal and storage location of the topsoil/subsoil on site. If there is little or no topsoil on-site, describe the alternative measures that will be used in lieu of topsoil during reclamation to provide a suitable growing medium.

Topsoil will be stripped ahead of mining and stockpiled on site for reclamation.

Off site topsoil may also be used as make up material for any shortage.

All inactive stockpiles will be stabilized.

g) State the thickness (inches or feet) of overburden on-site: five to twenty feet

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h) State the amount (in cubic yards) to be conserved and used for reclamation or visual/acoustical screening berms:

Approximately 2,000 cy of overburden will be conserved for reclamation and berms.

Briefly describe material: sandy or clay loam

i) Describe the removal and/or storage location of overburden on site (include stabilization notes):

All overburden will be used for reclamation in the previously mined areas

including Turner Pit. All inactive stockpiles will be stabilized.

23) Describe how the mining operation will be screened from public view:

a) Will visual screening berms be constructed?

[x] YES

[] NO

If YES, provide the following information.

Berm Dimensions: approx 1000' x 28'

Top Width: 4' min

Side Slope: 4:1

Height: 4' min.

Approximate Location: west of new acreage between mining operation and adjoining parcels

Sequence of Construction: Upon completion of sediment control devices, perimeter berm will be installed.

b) Buffer Strip(s). State width, whether there is existing vegetation or if additional vegetation will be planted

100' buffer with existing fence and vegetation will be maintained along Waugh Chapel Rd.,

the existing wooded and bermed buffer will be maintained along the west of the new acreage.

c) Other methods of screening: Existing screening berms will remain in place.

24) Describe the methods proposed for protection of adjacent properties, including waters of the state, from runoff, sediment, and other conditions that would be hazardous to fish, plant, or animal life.

Protection will consist of berms and buffer strips as well as appropriate sediment control devices. Brickhead Rd., Md. Rte. 3 and Waugh Chapel Rd. are natural dividers between our property and the adjacent ones.

25) Describe provisions for providing safety to the public and adjoining property as mining progresses and how the site will be left at the end of each working day.

a) Provisions to prevent slump, cave-offs, or landslides: Mining faces will be kept to 30' or less where possible with step benching utilized for safety. Access is limited by gates, fencing, berms and wooded buffers.

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- b) Provisions to provide safety around the upper perimeter of all excavations or highwalls (i.e. fencing, warning signs, safety benches, etc.)

A combination of fencing, berms and a wooded buffer limits access to the site. Warning signs and safety benches will be maintained at the highwalls.

- c) Provisions to provide safety if site will have impounded water during mining.

Berms will be used along edges as necessary. A walk out area will be maintained in any impounded area.

IV. RECLAMATION OF THE SITE

- 26) a) Describe how the surface gradient will be restored to a surface suitable for the proposed land use after reclamation. Include specifications on the gradient as well as maximum and minimum final slopes.

Reclaimed areas will be restored to final grade using fill from both on site and off site sources. Maximum slopes will be 3:1. Reclamation will be concurrent with mining and will be in accordance with the approved plans.

- b) Will final slopes (including highwalls) be constructed during mining or backfilled to proposed grades?

Slopes will be backfilled to proposed grade.

- c) If backfilled, describe how material will be compacted:

Material on backfilled slopes will be tracked in with a dozer and stabilized.

- d) State source(s) of backfill material:

Backfill will consist of on site material or will be imported from various local jobsites.

- e) If backfill will be brought in from off-site, briefly describe the material:

Existing backfill material is either excess from various local jobsites or coal ash from Constellation.

No additional coal ash is planned for reclamation on this site.

- 27) Will there be any metal or lumber, debris, old equipment, etc. left after completion of mining?
 YES NO

- a) If YES, specify the intended use or method of disposal.

- b) How will boulders and large rocks be disposed of after mining?

Boulders and large rocks will be used as reclamation during mining or crushed and used as aggregate.

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- 31) List all permits and approvals required by State and local regulatory agencies with regard to air and water pollution sediment control, and zoning. Also, **SUBMIT COPY** of sediment and erosion control plans and permits approved by the local Soil Conservation District and **written confirmation** of appropriate zoning.

Permit or Approval	Permit Number	Dated Issued	Expiration Date
a) Soil Conservation District	115-27	6/3/2008	N/A
b) Zoning	26-60	pre 1975	
c) Water Appropriation Permit	AA1969S006(04)	6/1/1969	2/1/2018
d) Wetlands/Waterway Construction Permit	N/A	N/A	N/A
e) NPDES Discharge Permit	00-MM-9725	6/12/2001	
f) Special Exception	85-IW-0025 2008-0047-S	11/18/1986 5/19/2008	N/A 5/19/2013

- 32) Describe the method of reclaiming settling ponds, wash ponds, sediment basins, and sediment traps. **NOTE:** Sediment Control Structures (basins, traps, etc.) can be removed (by the operator) upon written approval from the Maryland Department of the Environment

Upon completion, ponds will be drained, cleaned, refilled and stabilized.

- 33) Will any stream channels or stream banks be disturbed by the mining operation?
 YES NO

If YES, describe the method of restoration or establishment of stream channels and stream banks to a condition minimizing erosion, siltation, and other pollution.

- 34) Will permanent impoundment's (ponds, lakes, sediment basins, etc.) be included in the final land form?
 YES NO

NOTE: Yes, pond approval must be obtained prior to bond release

If YES, provide the following information for **each** impoundment:

- a) What is the drainage area contributing to each impoundment?

- b) Will the impoundment(s) be dugout type or dam, or a combination of the two?

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c) What are the elevations of the principle spillway(s) and emergency spillway(s)?

d) What will the surface area minimum and maximum depths of each impoundment be?

e) State the proposed water surface elevation, and how this elevation was determined

f) Indicate the major contributing source of water for each impoundment described above:

Groundwater

Surface water

g) How will contamination of water in the permanent impoundment be prevented?

h) How long will it take the Permanent Impoundment to fill with water to the proposed elevation?

35) Complete Table 1 (see next page):

For each item listed, fill the number of acres and the expected starting date of construction for that item and the date when that item is expected to be removed or reclaimed.

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**TABLE 1
SCHEDULE FOR COMPLETION OF MINING AND RECLAMATION**

Identification of How Lands are to be Affected	Number of Acres Within the Permitted Area	Expected Mining Dates Month/ Year		Expected Reclamation Dates Month/ Year	
		Construction Date	Removal Date	Date to Begin	Date to Complete
		Active Pit	47.6	1994	2020
Haul Roads	5	1994	2020	1995	2020
Topsoil Stockpile Areas	5	1994	2020	1995	2020
Sediment Control Structures	7	1994	2020	1995	2020
Office - Shop	0.5	1994	2020	1995	2020
Plant Site	12	1994	2020	1995	2020
Equipment Storage	1	1994	2020	1995	2020
Waterways	1.8	1994	2020	1995	2020
Overburden Stockpile Areas	2	1994	2020	1995	2020
Refuse - Debris Storage	10.8	1994	2020	1995	2020
Pond fines drying area	5	1993			2020
Total Acres (Must equal size of permit)	97.7				

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I hereby certify that all information contained in the Application and Mining and Reclamation Plan is true and correct to the best of my knowledge and that any willful misrepresentation of facts will be a violation of Title 15, Subtitle 808 of the Environment Article, Annotated Code of Maryland, as amended and may be cause for penalty provided in the aforesaid section.

By submission of this application I hereby accept the responsibility of conducting the operation in accordance with the approved Mining and Reclamation Plan and maps, the conditions of the permit, and any applicable law and regulations.

Robert K. Scrivener, President BBSS, Inc.
Typewritten Name and Title

Robert K. Scrivener 6-5-08
Original Signature Date

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