

Categorical Exclusion Checklist for Proposed TVA Actions

Categorical Exclusion Number Claimed	Organization ID Number RLR262228	Tracking Number (NEPA Administration Use Only) 30361
Form Preparer Freddie C Bennett	Project Initiator/Manager Freddie C Bennett	Business Unit P&NR - Reservoir Land Use & Permitting
Project Title 26a Category 2 RLR 262228 Ms. Debra Allen Muscle Shoals - Off Reservoir		Hydrologic Unit Code
Description of Proposed Action (Include Anticipated Dates of Implementation) <input checked="" type="checkbox"/> Continued on Page 3 (if more than one line) For Proposed Action See Attachments and References		
Initiating TVA Facility or Office Central/Western Region		TVA Business Units Involved in Project
Location (City, County, State) MARSHALL, TN, County, State: MARSHALL, TN Map Sheet(s): 64 SE Quad Sheet Stream(s): Duck R 176.80 R		

Parts 1 through 4 verify that there are no extraordinary circumstances associated with this action:

Part 1. Project Characteristics

Is there evidence that the proposed action...	No	Yes	Information Source for Insignificance
1. Is major in scope?	X		NOA, Bennett, Freddie C. 04/23/2014
2. Is part of a larger project proposal involving other TVA actions or other federal agencies?	X		NOA, Bennett, Freddie C. 04/23/2014
* 3. Involves non-routine mitigation to avoid adverse impacts?	X		NOA, Bennett, Freddie C. 04/23/2014
4. Is opposed by another federal, state, or local government agency?	X		Bennett, Freddie C. 02/25/2015
* 5. Has environmental effects which are controversial?	X		NOA, Bennett, Freddie C. 04/23/2014
* 6. Is one of many actions that will affect the same resources?	X		Bennett, Freddie C. 02/25/2015
7. Involves more than minor amount of land?	X		NOA, Bennett, Freddie C. 04/23/2014

*If "yes" is marked for any of the above boxes, consult with NEPA Administration on the suitability of this project for a categorical exclusion.

Part 2. Natural and Cultural Features Affected

Would the proposed action...	No	Yes	Per-mit	Commitment	Information Source for Insignificance
1. Potentially affect endangered, threatened, or special status species?	X		No	No	For comments see attachments
2. Potentially affect historic structures, historic sites, Native American religious or cultural properties, or archaeological sites?	X		No	No	For comments see attachments
3. Potentially take prime or unique farmland out of production?	X		No	No	NOA, Bennett, Freddie C. 04/23/2014
4. Potentially affect Wild and Scenic Rivers or their tributaries?	X		No	No	Bennett, Freddie C. 02/25/2015
5. Potentially affect a stream on the Nationwide Rivers Inventory?	X		No	No	For comments see attachments
6. Potentially affect wetlands, water flow, or stream channels?	X		No	No	For comments see attachments
7. Potentially affect the 100-year floodplain?	X		No	No	Bennett, Freddie C. 02/25/2015
8. Potentially affect ecologically critical areas, federal, state, or local park lands, national or state forests, wilderness areas, scenic areas, wildlife management areas, recreational areas, greenways, or trails?	X		No	No	For comments see attachments
9. Contribute to the spread of exotic or invasive species?	X		No	No	For comments see attachments
10. Potentially affect migratory bird populations?	X		No	No	For comments see attachments
11. Involve water withdrawal of a magnitude that may affect aquatic life or involve interbasin transfer of water?	X		No	No	NOA, Bennett, Freddie C. 04/23/2014
12. Potentially affect surface water?		X	No	No	For comments see attachments
13. Potentially affect drinking water supply?	X		No	No	NOA, Bennett, Freddie C. 04/23/2014
14. Potentially affect groundwater?	X		No	No	NOA, Bennett, Freddie C. 04/23/2014
15. Potentially affect unique or important terrestrial habitat?	X		No	No	For comments see attachments
16. Potentially affect unique or important aquatic habitat?	X		No	No	Short, Randy 04/23/2014

Part 3. Potential Pollutant Generation

Would the proposed action potentially (including accidental or unplanned)...	No	Yes	Per-mit	Commitment	Information Source for Insignificance
1.Release air pollutants?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
2.Generate water pollutants?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
3.Generate wastewater streams?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
4.Cause soil erosion?		X	No	No	For comments see attachments
5.Discharge dredged or fill materials?		X	Yes	No	For comments see attachments
6.Generate large amounts of solid waste or waste not ordinarily generated?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
7.Generate or release hazardous waste (RCRA)?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
8.Generate or release universal or special waste, or used oil?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
9.Generate or release toxic substances (CERCLA, TSCA)?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
10.Involve materials such as PCBs, solvents, asbestos, sandblasting material, mercury, lead, or paints?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
11.Involve disturbance of pre-existing contamination?	X		No	No	Bennett, Freddie C. 02/25/2015
12.Generate noise levels with off-site impacts?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
13.Generate odor with off-site impacts?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
14.Produce light which causes disturbance?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
15.Release of radioactive materials?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
16.Involve underground or above-ground storage tanks or bulk storage?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014
17.Involve materials that require special handling?	X		No	No	CBC, Bennett, Freddie C. 04/23/2014

Part 4. Social and Economic Effects

Would the proposed action...	No	Yes	Commitment	Information Source for Insignificance
1.Potentially cause public health effects?	X		No	NOA, Bennett, Freddie C. 04/23/2014
2.Increase the potential for accidents affecting the public?	X		No	NOA, Bennett, Freddie C. 04/23/2014
3.Cause the displacement or relocation of businesses, residences, cemeteries, or farms?	X		No	NOA, Bennett, Freddie C. 04/23/2014
4.Contrast with existing land use, or potentially affect resources described as unique or significant in a federal, state, or local plan?	X		No	Bennett, Freddie C. 02/25/2015
5.Disproportionately affect minority or low-income populations?	X		No	NOA, Bennett, Freddie C. 04/23/2014
6.Involve genetically engineered organisms or materials?	X		No	NOA, Bennett, Freddie C. 04/23/2014
7.Produce visual contrast or visual discord?	X		No	Bennett, Freddie C. 02/25/2015
8.Potentially interfere with recreational or educational uses?		X	No	For comments see attachments
9.Potentially interfere with river or other navigation?	X		No	Bennett, Freddie C. 02/25/2015
10.Potentially generate highway or railroad traffic problems?	X		No	NOA, Bennett, Freddie C. 04/23/2014

Part 5. Other Environmental Compliance/Reporting Issues

Would the proposed action...	No	Yes	Commitment	Information Source for Insignificance
1.Release or otherwise use substances on the Toxic Release Inventory list?	X		No	NOA, Bennett, Freddie C. 04/23/2014
2.Involve a structure taller than 200 feet above ground level?	X		No	NOA, Bennett, Freddie C. 04/23/2014
3.Involve site-specific chemical traffic control?	X		No	NOA, Bennett, Freddie C. 04/23/2014
4.Require a site-specific emergency notification process?	X		No	NOA, Bennett, Freddie C. 04/23/2014
5.Cause a modification to an existing environmental permit or to existing equipment with an environmental permit or involve the installation of new equipment/systems that will require a permit?	X		No	NOA, Bennett, Freddie C. 04/23/2014
6.Potentially impact operation of the river system or require special water elevations or flow conditions??	X		No	Bennett, Freddie C. 02/25/2015
7.Involve construction of a new building or renovation of existing building (i.e., major changes to lighting, HVAC, and/or structural elements of building of 2000 sq. ft or more) on which TVA will pay/pays the utilities??	X		No	Bennett, Freddie C. 02/25/2015

Parts 1 through 4: If "yes" is checked, describe in the discussion section following this form why the effect is insignificant. Attach any conditions or commitments which will ensure insignificant impacts. Use of non-routine commitments to avoid significance is an indication that consultation with NEPA Administration is needed.

An EA or EIS Will be prepared.

Based upon my review of environmental impacts, the discussion attached, and/or consultations with NEPA Administration, I have determined that the above action does not have a significant impact on the quality of the human environment and that no extraordinary circumstances exist. Therefore, this proposal qualifies for a categorical exclusion under Section 5.2. _____ of TVA NEPA Procedures.

Project Initiator/Manager Freddie C Bennett		Date 02/25/2015
TVA Organization UNKN	E-mail fcbennet@tva.gov	Telephone

Site Environmental Compliance Reviewer

Final Review/Closure

Freddie C Bennett

08/10/15

Signature

Signature

Other Review Signatures (as required by your organization)

Attachments/References

Description of Proposed Action Continued from Page 1

Applicant proposes to stabilize 74 feet of severely eroding river bank (3 sites - 21 feet, 25 feet, & 28 feet) in close proximity to each other. At two sites, rock will be placed 13 feet from the toe up the slope of the bank. The remainder of the slope will consist of restoration with bare root shrub seedlings and over seeded with Virginia Wild Rye and other native grasses intertwined inside a heavy grass mat to reduce sheet erosion. Machinery will be used to a minimum and will not be used in the river and/or water. The third site is at the end of a 110 feet long rock drainage chute to be constructed with a 4:1 slope in an existing eroded gully which drains surface water into the river. This project is being proposed with the purpose of bank stabilization, water quality enhancement, and protection of T & E species. (Please see project description attached to record for detailed information) NOTE: THIS PROJECT ELEVATED TO AN EA.

CEC General Comment Listing

1. In the Information Source columns associated with the checklist questions, NOA refers to Nature of Action and CBC refers to Cleared By Criteria. These criteria are described in the Resource Stewardship Prescreening Criteria Checklist Instructions.
By: Freddie C Bennett 04/23/2014
2. NO COMMENT TEXT
By: 26a Added Comment
3. NO COMMENT TEXT
By: 26a Added Comment
4. NO COMMENT TEXT
By: 26a Added Comment
5. Cover Letter submitted with Application
By: 26a Added Comment
6. NO COMMENT TEXT
By: 26a Added Comment
7. NO COMMENT TEXT
By: 26a Added Comment
8. Aerial
By: 26a Added Comment
9. Cultural Resource Clearance provided by NRCS
By: 26a Added Comment
10. NO COMMENT TEXT

- 11. By: 26a Added Comment
NO COMMENT TEXT
- 12. By: 26a Added Comment
NO COMMENT TEXT
- 13. By: 26a Added Comment
NO COMMENT TEXT
- 14. By: 26a Added Comment
NO COMMENT TEXT
- 15. By: 26a Added Comment
NO COMMENT TEXT
- 16. By: 26a Added Comment
NO COMMENT TEXT
- 17. By: 26a Added Comment
NO COMMENT TEXT
- 18. By: 26a Added Comment
NO COMMENT TEXT

CEC Comment Listing

Part 2 Comments

- 1. Review of the project and TVA Heritage database on 4/23/14 indicated 28 state and 12 federal listed aquatic EO's (28 species total) located within a 10 mile radius from the project site.

Review of the project and TVA Heritage database on 4/23/14 indicated 16 state and 2 federal listed plant EO's (16 species total) located within a 5 mile radius from the project site. The habitat at and adjacent to the project site does not appear suitable for the listed species. Therefore the listed species should not be impacted by the project. The implementation of TVA General Standards and Conditions should also further protect any habitat or sensitive plant species which may occur.

Review of the project and TVA Heritage database on 4/23/14 indicated 1 state and 1 federal listed terrestrial EO (1 species total) located within a 3 mile radius search from the project site. The habitat at and adjacent to the project site does appear suitable for the listed species (hellbender). By reducing erosion and sediment into the river, the project should have positive, long-term impacts to this species. Proper implementation of TVA General Standards and Conditions should further protect habitat and non-listed species which may be found at the site.

Myotis sodalis (Indiana bat) is a listed as a federally endangered species for this area. Myotis sodalis hibernates in caves; summer roost sites generally are behind loose bark of dead or dying trees or in tree cavities.

No suitable habitat (or, no trees suitable for summer roosting by Indiana bat) appears to be present at the project site. Therefore, TVA has determined that there would be no effects to this species.

By: Randy Short 04/23/2014

Files: Heritage_Species_List2.pdf 04/23/2014

106.71 Bytes

- 2. Cultural Compliance staff conducted a field review at this location on 1/22/2015 in order to verify whether any archaeological material was present. The location has been made into a private campground with no facilities other than a firepit. The cut bank is very high (~20 feet) and nearly vertical. There is good soil exposure on the cut bank, showing a relatively deep (~60-80 cm) silt loam, but no artifacts, shell, midden, or cultural features were seen. The area of impact is limited to the river bank and the gully where rock will be laid to channel rainwater into the river. The gully has little or no probability for the presence of archaeological material because it is an active runoff channel. Therefore, based on these observations, there are no cultural resources in the areas to be impacted, and proposed actions will not affect any properties included or eligible for inclusion in the National Register of Historic Places. --Steve Cole for Michaelyn Harle
By: Michaelyn S Harle 01/23/2015
- 5. The proposed project does not occur on an NRI or tributary stream of an NRI, though it does occur on river inventoried in the Volume 5 Tennessee Valley Outdoor Recreation Plan (1979). The closest stream inventories occur at RM 221 and RM 135 and overall rating of the Duck River received fair-good recreation potential and capabilities. No anticipated impacts to the rating are expected due to the proposed project. AMP 08/10/2015
By: Aurora M Pulliam 08/10/2015
- 6. Review of the project and TVA Natural Heritage database on 4/23/14 indicated no wetlands occur within the project area. No impacts to water flow or stream channels should occur especially with the implementation of appropriate TVA General and Standard Conditions.
By: Randy Short 04/23/2014
- 8. Review of the project and TVA Natural Heritage database on 4/23/14 indicated 1 managed area and 3 heritage sites located within a 5 mile radius of the project site. Based on the scope and location of the proposed actions, there should be no impacts to the listed managed areas or heritage sites as a result of the proposed project.
By: Randy Short 04/23/2014

- 9. Based on the scope, location, and nature of the proposed actions, the proposed project is not expected to contribute to the spread of exotic or invasive species with the implementation of applicable TVA General and Standard Conditions, including best management practices.
By: Randy Short 04/23/2014
- 10. Review of the project and TVA Natural Heritage database on 4/23/14 indicated no wading bird colonies within the 3 mile radius search. The proposed actions should have no impacts to any wading bird colonies or migratory bird populations with the implementation of the appropriate TVA General and Standard conditions.
By: Randy Short 04/23/2014
- 12. The primary beneficial effect of the project will be the long-term reduction in erosion of the shoreline and in sloughing of the bank, which is expected to reduce sedimentation and improve the stream's surface water quality.
By: Matthew Higdon 02/13/2015
- 15. Review of the project and TVA Natural Heritage database on 4/23/14 indicated no unique or significantly important terrestrial habitat within a 3 mile radius search of the project area.
By: Randy Short 04/23/2014

Part 3 Comments

- 4. Insignificant with implementation of General and Standard Conditions including BMPs
By: Freddie C Bennett 04/23/2014
- 5. The placement of rock riprap on the stream bank to control erosion will be installed in accordance with the issued permit General Standards and Conditions and is expected to have insignificant potential effects.
By: Freddie C Bennett 02/25/2015

Part 4 Comments

- 8. The proposed project occurs on the Volume 5 Tennessee Valley Outdoor Recreation Plan (1979). As such, the closest stream inventories occur at RM 221 and RM 135 and overall rating of the Duck River received fair-good recreation potential and capabilities. No anticipated impacts to the rating are expected due to the proposed project. AMP 08/10/2015
By: Aurora M Pulliam 08/10/2015

CEC Permit Listing

Part 3 Permits

- 5. Section 404 Permit (404 Clean Water Act)
By: Freddie C Bennett 02/25/2015

CEC Commitment Listing

Table 1. Records of state- and federal-listed aquatic animal species located within a 10 mile radius search

<u>Scientific Name</u>	<u>Common Name</u>	<u>EO Rank</u>	<u>State</u>	<u>State Rank</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Watershed</u>
Epioblasma brevidens	Cumberlandian Cor	E - Verified extant (viabilit	TN	S1	END	LE	06040002 - Upper Duck
Epioblasma capsaeformis	Oyster Mussel	E - Verified extant (viabilit	TN	S1	END	LE	06040002 - Upper Duck
Epioblasma florentina walkeri	Tan Riffleshell	E - Verified extant (viabilit	TN	S1	END	LE	06040002 - Upper Duck
Epioblasma torulosa torulosa	Tuberculed Blosson	X - Extirpated	TN	SX	EXTI	LE	06040002 - Upper Duck
Epioblasma triquetra	Snuffbox	H - Historical	TN	S3	TRKD	LE	06040002 - Upper Duck
Etheostoma aquali	Coppercheek Darte	E - Verified extant (viabilit	TN	S2S3	THR		06040002 - Upper Duck
Etheostoma cinereum	Ashy Darter	E - Verified extant (viabilit	TN	S2S3	THR		06040002 - Upper Duck
Etheostoma denoncourti	Golden Darter	AC - Excellent, good, or fair	TN	S2	NMGT		06040002 - Upper Duck
Etheostoma luteovinctum	Redband Darter	E - Verified extant (viabilit	TN	S4	NMGT		06040002 - Upper Duck
Etheostoma striatulum	Striated Darter	E - Verified extant (viabilit	TN	S1	THR		06040002 - Upper Duck
Lemiox rimosus	Birdwing Pearlymus	E - Verified extant (viabilit	TN	S1	END	LE	06040002 - Upper Duck
Lexingtonia dolabelloides	Slabside Pearlymus	E - Verified extant (viabilit	TN	S2	TRKD	LE	06040002 - Upper Duck
Lithasia duttoniana	Helmet Rock Snail	E - Verified extant (viabilit	TN	S2	TRKD		06040002 - Upper Duck
Lithasia geniculata	Ornate Rocksnail	E - Verified extant (viabilit	TN	S3	TRKD		06040002 - Upper Duck
Lithasia jayana	Rugose Rocksnail	H - Historical	TN	S2	TRKD		06040002 - Upper Duck
Lithasia salebrosa	Muddy Rocksnail	H - Historical	TN	S2	TRKD		06040002 - Upper Duck
Noturus fasciatus	Saddled Madtom	BC - Good or fair estimate	TN	S2	THR		06040002 - Upper Duck
Obovaria subrotunda	Round Hickorynut	E - Verified extant (viabilit	TN	S3	TRKD		06040002 - Upper Duck
Percina phoxocephala	Slenderhead Darter	E - Verified extant (viabilit	TN	S3	NMGT		06040002 - Upper Duck
Plethobasus cooperianus	Orange-foot Pimple	H - Historical	TN	S1	END	LE	06040002 - Upper Duck
Pleurobema oviforme	Tennessee Clubshe	E - Verified extant (viabilit	TN	S2S3	TRKD		06040002 - Upper Duck
Pleurobema rubrum	Pyramid Pigtoe	E - Verified extant (viabilit	TN	S2S3	TRKD		06040002 - Upper Duck
Ptychobranhus subtentum	Fluted Kidneyshell	E - Verified extant (viabilit	TN	S2S3	TRKD	LE	06040002 - Upper Duck
Quadrula cylindrica cylindrica	Smooth Rabbitsfoo	E - Verified extant (viabilit	TN	S3	TRKD	LT	06040002 - Upper Duck
Quadrula intermedia	Cumberland Monke	E - Verified extant (viabilit	TN	S1	END	LE	06040002 - Upper Duck
Toxolasma cylindrellus	Pale Lilliput	E - Verified extant (viabilit	TN	S1	END	LE	06040002 - Upper Duck
Toxolasma lividus	Purple Lilliput	E - Verified extant (viabilit	TN	S1S2	TRKD		06040002 - Upper Duck
Villosa taeniata	Painted Creekshell	E - Verified extant (viabilit	TN				06040002 - Upper Duck

Table 2. Records of *Myotis soldalis* located within a 10 mile radius search

Scientific Name	Common Name	EO Rank	State	State Rank	State Status	Federal Status	Watershed
-----------------	-------------	---------	-------	------------	--------------	----------------	-----------

None Found

Table 3. Records of state- and federal-listed plant species and champion tree points located within a 5 mile radius search

Scientific Name	Common Name	EO Rank	State	State Rank	State Status	Federal Status	Watershed
Amsonia tabernaemontana var. gatt	A Blue-star	E - Verified extant (viabilit	TN	S3	SPCO		06040002 - Upper Duck
Anemone caroliniana	Carolina Anemone	E - Verified extant (viabilit	TN	S1S2	END		06040002 - Upper Duck
Arnoglossum plantagineum	Fen Indian-plantain	E - Verified extant (viabilit	TN	S2	THR		06040002 - Upper Duck
Astragalus tennesseensis	Tennessee Milk-vet	E - Verified extant (viabilit	TN	S3	SPCO		06040002 - Upper Duck
Carex davisii	Davis' Sedge	E - Verified extant (viabilit	TN	S1	SPCO		06040002 - Upper Duck
Dalea foliosa	Leafy Prairie-clover	E - Verified extant (viabilit	TN	S2S3	END	LE	06040002 - Upper Duck
Echinacea tennesseensis	Tennessee Coneflo	D - Poor estimated viabilit	TN	S2	END	DM	06040002 - Upper Duck
Eleocharis wolfii	Wolf Spikerush	E - Verified extant (viabilit	TN	S1	END		06040002 - Upper Duck
Juglans cinerea	butternut	E - Verified extant (viabilit	TN	S3	THR		06040002 - Upper Duck
Leavenworthia exigua var. exigua	Glade Cress	AC - Excellent, good, or fai	TN	S3	SPCO		06040002 - Upper Duck
Lesquerella densipila	Duck River Bladder	E - Verified extant (viabilit	TN	S3	THR		06040002 - Upper Duck
Schoenolirion croceum	Sunnybell	E - Verified extant (viabilit	TN	S3	THR		06040002 - Upper Duck
Stellaria fontinalis	Water Stitchwort	E - Verified extant (viabilit	TN	S3	S		06040002 - Upper Duck
Talinum calcaricum	Limestone Fame-flc	E - Verified extant (viabilit	TN	S3	SPCO		06040002 - Upper Duck
Trifolium calcaricum	Leo's Trifolium	E - Verified extant (viabilit	TN	S1	END		06040002 - Upper Duck
Zanthoxylum americanum	Northern Prickly-as	E - Verified extant (viabilit	TN	S2	SPCO		06040002 - Upper Duck

Table 4. Records of Managed Areas (MABR) points and Heritage Sites (SBR) points located within a 5 mile radius search

Managed Area Name	Site Name
DUCK RIVER COMPLEX REGISTERED STATE NATURAL ARI	MILLTOWN PROPOSED TVA HABITAT PROTECTION AREA
	DUCK RIVER/LILLARD MILL PROTECTION PLANNING SITE
	SMITH GLADE

Table 5. Records of state- and federal-listed terrestrial animal species and heronry points located within a 3 mile radius search

TVA Natural Heritage database queried by Randy Short on 4/23/14 for the heritage review for TVA CEC 30361

<u>Scientific Name</u>	<u>Common Name</u>	<u>EO Rank</u>	<u>State</u>	<u>State Rank</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Watershed</u>
Cryptobranchus alleganiensis	Hellbender	E - Verified extant (viabilit	TN	S3	NMGT	PS	06040002 - Upper Duck

Table 6. Records of caves sites located within a 3 mile radius search

<u>Scientific Name</u>	<u>Common Name</u>	<u>EO Rank</u>	<u>State</u>	<u>State Rank</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Watershed</u>
None Found							

None Found