

MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH ANTIDEGRADATION REVIEW SUMMARY FOR PUBLIC NOTICE ATTACHMENT A: TIER 2 – SIGNIFICANT DEGRADATION

1. FACILITY				
VAME		TELEPHONE NUMBER WITH AREA CODE		
ADDRESS (PHYSICAL)	CITY	STATE	ZIP CODE	
2. OWNER		<u>.</u>		
NAME AND OFFICIAL TITLES				
ADDRESS	CITY	STATE	ZIP CODE	
TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS			
3. CONTINUING AUTHORITY The regulatory requirement re www.sos.mo.gov/adrules/csr/current/10csr/10c20-6a.pdf.	garding continuing authority is found in 1	0 CSR 20-6.0	10(3) available at	
NAME AND OFFICIAL TITLES				
ADDRESS	СІТҮ	STATE	ZIP CODE	
TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS			
4. RECEIVING WATER BODY SEGMENT #1				
NAME				
4.1 UPPER END OF SEGMENT (Location of discharge) UTM OR Lat, Long 4.2 LOWER END OF SEGMENT UTM OR Lat, Long Per the Missouri Antidegradation Implementation Procedure, or AIP, the definition of a segment, "a segment is a section of water that is bound, at a minimum, by significant existing sources and confluences with other significant water bodies."				
5. WATER BODY SEGMENT #2 (IF APPLICABLE, Use another form if a third segment is needed)				
NAME				
5.1 UPPER END OF SEGMENT UTM OR Lat, 5.2 LOWER END OF SEGMENT UTM OR Lat, Long				
6. WET WEATHER ANTICIPATIONS				
If an applicant anticipates excessive inflow or infiltration and pursues approval from the department to bypass secondary treatment, a feasibility analysis is required. The feasibility analysis must comply with the criteria of all applicable state and federal regulations including 40 CFR 122.41(m)(4). Attach the feasibility analysis to the antidegradation review report.				
What is the Wet Weather Flow Peaking Factor in relation to design flow?				
Wet Weather Design Summary:				
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7. EXISTING WATER QUALITY DATA OR MODEL SUMMARY

Obtaining Existing Water Quality is possible by three methods according to the Antidegradation Implementation Procedure Section II.A.1.: (1) using previously collected data with an appropriate Quality Assurance Project Plan, or QAPP (2) collecting water quality data approved by the Missouri Department of Natural Resources methodology or (3) using an appropriate water quality model. QAPPs must be submitted to the department for approval well in advance (six months) of the proposed activity. Provide all the appropriate corresponding data and reports which were approved by the department Watershed Protection Section. Additional information needed with the EWQ data includes: 1) Date existing water quality data was provided by the Watershed Protection Section, 2) Approval date by the Watershed Protection Section of the QAPP, project sampling plan, and data collected for all appropriate POCs.

Comments/Discussion:

8. SUMMARY OF THE POLLUTANTS OF CONCERN AND THE PROPOSED EFFLUENT LIMITS

Pollutants of Concern to be considered include those pollutants reasonably expected to be present in the discharge per the Antidegradation Implementation Procedure Section II.A. and assumed or demonstrated to cause significant degradation. The tier protection levels are specified and defined in rule at 10 CSR 20-7.031 (2).

What are the proposed pollutants of concern and their respective effluent limits that the selected treatment option will comply with:

Pollutants of Concern*	Units	Wasteload Allocation	Average Monthly Limit	Daily Maximum Limit
BOD5	MG/L			
TSS	MG/L			
DISSOLVED OXYGEN	MG/L			
AMMONIA	MG/L			
BACTERIA (E. COLI)	CFUS			

Proposed limits must not violate water quality standards, be protective of beneficial uses, and achieve the highest statutory and regulatory requirements.

*Assumed Tier 2.

9. IDENTIFYING ALTERNATIVES

Supply a summary of the alternatives considered and the level of treatment attainable with regards to the alternative. "For Discharges likely to cause significant degradation, an analysis of non-degrading and less-degrading alternatives must be provided," as stated in the Antidegradation Implementation Procedure Section II.B.1. Per 10 CSR 20-6.010(4)(D)1., the feasibility of a no-discharge system must be considered. Attach all supportive documentation in the Antidegradation Review report.

Applicants choosing to use a new wastewater technology that are considered an "unproven technology" in Missouri in their Tier 2 Reviews with alternative analysis must comply with the requirements set forth in the *New Technology Definitions and Requirements Factsheet* that can be found at: http://dnr.mo.gov/pubs/pub2453.pdf.

Non-degrading alternatives:

Alternatives ranging from less-degrading to degrading including Preferred Alternative (All treatment levels for POCs must at a minimum meet water quality standards):

Alternatives	Level of Treatment Attainable for each Pollutant of Concern				
Alternatives	BOD5	TSS	AMMONIA AS N		
	(MG/L)	MG/L	MG/L		

10. DETERMINATION OF THE REASONABLE ALTERNATIVE
Per the Antidegradation Implementation Procedure Section II.B.2, "a reasonable alternative is one that is practicable, economically efficient and affordable." Provide basis and supporting documentation in the Antidegradation Review report. Please do not write " See Report " for any box below.
Practicability Summary:
"The practicability of an alternative is considered by evaluating the effectiveness, reliability, and potential environmental impacts," according to the Antidegradation Implementation Procedure Section II.B.2.a. Examples of factors to consider, including secondary environmental impacts, are given in the Antidegradation Implementation Procedure Section II.B.2.a.
Economic Efficiency Summary:
Alternatives that are deemed practicable must undergo a direct cost comparison in order to determine economic efficiency. Means to determine economic efficiency are provided in the Antidegradation Implementation Procedure Section II.B.2.b.
Affordability Summary
Alternatives identified as most practicable and accommissibly officient are considered offerdable if the applicant date not supply an
affordability analysis. An affordability analysis per the Antidegradation Implementation Procedure Section II.B.2.c, "may be used to determine if the alternative is too expensive to reasonably implement."
Preferred Chosen Alternative:
Reasons for Rejecting the other Evaluated Alternatives:
Comments/Discussion:

11. SOCIAL AND ECONOMIC IMPORTANCE OF THE PREFERRED ALTERNATIVE				
If the preferred alternative will result in significant degradation, then it must social development in accordance to the Antidegradation Implementation is defined as the social and economic benefits to the community that will of discharge.	st be demonstrated that it will allow important econ Procedure Section II.E. Social and Economic Im occur from any activity involving a new or expandi	pnomic and portance ling		
Identify the affected community:				
The affected community is defined in 10 CSR 20-7.031(2)(B) as the cor are located.: Per the Antidegradation Implementation Procedure Section living near the site of the proposed project as well as those in the comm from the project."	mmunity "in the geographical area in which the wa on II.E.1, "the affected community should include t nunity that are expected to directly or indirectly be	aters those enefit		
Identify relevant factors that characterize the social and economic co	conditions of the affected community:			
Examples of social and economic factors are provided in the Antidegrad specific community examples are encouraged.	idation Implementation Procedure Section II.E.1., I	but		
Describe the important social and economic development associated with the project: Determining benefits for the community and the environment should be site specific and in accordance with the Antidegradation Implementation Procedure Section II.E.1.				
PROPOSED PROJECT SUMMARY:				
sealed and dated by a registered professional engineer of Missouri.				
CONSULTANT: I have prepared or reviewed this form and all attached reports and documentation. The conclusion proposed is				
consistent with the Antidegradation Implementation Proc	cedure and current state and federal regulations.			
SIGNATURE	DATE			
NAME AND OFFICIAL TITLES / LICENSE #	COMPANY NAME			
ADDRESS	CITY STATE ZIP	PCODE		
TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS			
OWNER: I have read and reviewed the prepared documents and agree with this submittal.				
SIGNATURE	DATE			
CONTINUING AUTHORITY: I have read and reviewed the prepared documents and agree with this submittal.				
SIGNATURE	DATE			