

Board will be issuing WDR

to assess nutrients (N, P) → to determine limits

Mtn. Mdw. Mush.
Reidy Creek
Sampled 3/12/01

Performed by Ros. Creek gas & more mushroom farm

mg/L	Description of Analyte	RL	Upstream	Downstream	Increase U.S.→D.S.	B.P. WQO	> B.P. WQO
Organic N			0.7	0.5	decrease of 0.2 (28.6%)		<u><u> </u></u>
NH ₃ - N		0.1	ND	0.7	0.7 (600%)		
Kjeldahl N	(Organic N + NH ₃)		0.7	1.2	0.5 (71%)		
Total N	(Kjeldahl + NO ₂ + NO ₃)		7.3	7.7	0.4 (5%)		
NO ₂ ⁻ - N (+3)		0.1	ND	ND			
NO ₃ ⁻ - N (+5)	Indicates nitrification		6.6	6.5	decrease of 0.1 (1.5%)	10	
Ortho P	(Dissolved, inorganic)		0.05	0.09	0.04 (80%)		
Total P	(High in particulates)		0.31*	0.85*	0.54 (270%)		
BOD	mg H → 10		ND	ND			
Settleable Solids		0.1	ND	0.1	0.1 (?)		
Turbidity (NTU)			17	25	8 (47%)	5	YES (U.S. & D.S.)
Total N/Total P			23.5	9		10	YES (D.S.)
			Phosphorus limited (preferred)	Nitrogen limited (dangerous)			
* EPA water quality criteria state that Total P should not exceed 0.1 mg/L in streams or flowing waters not discharging into lakes or reservoirs to control algal growth (USEPA, 1986). Surface waters that are maintained at 0.01 to 0.03 mg/L total phosphorus tend to remain uncontaminated by algal blooms.							
Since the Ortho P (representing dissolved, inorganic P) is low relative to Total P, it appears that there is a high level of P particulates. This is borne out by the high turbidity levels.							

one sample of each
 ↙ upstream farm
 ↘ downstream farm

Spike WJ Ross
July 17, 2001

RECEIVED FROM
Ros 3/30/01