Facility Name	Villa	ige of Pecos	S		
NPDES Permit Number	NM00290)41		Outfall Number	001
Proposed Critical Dilution*	15			_	

*Critical Dilution in draft permit, do not use % sign.

Enter data in yellow shaded cells only. Fifty percent should be entered as 50, not 50%

Test Data		Enter data in yellow shaded cells only. Fifty percent should be entered as 50, not 50%.							
Test Data	VERTEBRATE INVERTEBRATE								
Date (mm/yyy	Lethal NOEC		Lethal TU	Sublethal TU	Lethal NOEC	Sublethal NOEC		Sublethal TU	
Dec-12	20		5.00		20		5.00		
Jun-13	20		5.00		20		5.00		
Dec-13	20		5.00		20		5.00		
Jun-14	20		5.00		20		5.00		
Dec-14	20		5.00		20		5.00		
Jun-15	20		5.00		20		5.00		
Dec-15	20		5.00		20		5.00		
Jun-16	20		5.00		20		5.00		
Dec-16	20		5.00		20		5.00		
				<u> </u>					
						`			
	20	0	5.00	#DIV/0!	20	0	5.00	#DIV/0!	
Count			9	0	I		9	0	
Mean			5.000	#DIV/0!			5.000	#DIV/0!	
Std. Dev.			0.000	#DIV/0!			0.000	#DIV/0!	
CV			0.6	0.6	[0.6	0.6	
					т			1	
RPMF			1.8				1.8	6.2	
					Acceptance C				
Vertebrate I	Lethal	1.350	No Reaso	onable Poten	tial exists. P	ermit requires	WET moni	toring, but no	o WET limi
			•						
Vertebrate S	Sublethal	#DIV/0!	#DIV/0!						
			•						
Invertebrate	e Lethal	1.350	No Reaso	nable Poten	tial exists. P	ermit requires	WET moni	toring, but no	WET limi
						1		Ų,	
Invertebrate	Sublethal	#DIV/0!	#DIV/0!						

					•		
Facility Name	Village of Pecos						
NPDES Permit Number	NM0029041				Outfall Number	001	
Proposed Critical Dilution*	15		_				
*Critical Dilution in draft permit, do not use % sign.							
Enter data in yellow shaded cells only. Fifty percent should be entered as 50, not 50%. Test Data							
Test Butu	VIEDEED VEE			1	D.W. IED WEDD A. WE		
VERTEBRATE					INVERTEBRATE		
Date (mm/yyy Lethal NOEC	Sublethal NOEC	Lethal TU	Sublethal TU	Lethal NOEC	Sublethal NOEC Lethal TU	Sublethal TU	

Determining "Reasonable Potential" for Excursions Above Ambient Criteria Using Effluent Data Only

EPA recommends finding that a permittee has "reasonable potential" to exceed a receiving water quality standard if it cannot be demonstrated with a high confidence level that the upper bound of the lognormal distribution of effluent concentrations is below the receiving water criteria at specified low-flow conditions.

- **Step 1** Determine the number of total observations ("n") for a particular set of effluent data (concentration or toxic units [TUs]), and determine the highest value from that data set.
- Step 2 Determine the coefficient of variation for the data set. For a data set where n<10, the coefficient of variation (CV) is estimated to equal 0.6, or the CV is calculated from data obtained from a discharger. For a data set where n>0, the CV is calculate as standard deviation/mean. For less than 10 items of data, the uncertainty in the CV is too large to calculate a standard deviation or mean with sufficient confidence.
- **Step 3** Determine the appropriate ratio from the table below.
- **Step 4** Multiply the highest value from a data set by the value from the table below. Use this value with the appropriate dilution to project a maximum receiving water concentration (RWC).
- Step 5 Compare the projected maximum RWC to the applicable standard (criteria maximum concentration, criteria continuous concentration [CCC], or reference ambient concentration). EPA recommends that permitting authorities find reasonable potential when the projected RWC is greater than an ambient criterion.

Determining "Reasonable Potential" for Excursions Above Ambient Criteria Using Effluent Data Only

EPA recommends finding that a permittee has "reasonable potential" to exceed a receiving water quality standard if it cannot be demonstrated with a high confidence level that the upper bound of