Facility Name	City of Belen			
NPDES Permit Number	NM0020150		Outfall Number	001
Proposed Critical Dilution*	18	-	_	

Proposed Criti	cai Dilution	10						
					ermit, do not u	0		
			Enter data in	n yellow shaded	l cells only. Fift	ty percent should	be entered as	50, not 50%.
Test Data								
		VERTEBRATE				INVERTEBRAT	E	
Date (mm/yyyy)	Lethal NOEC	Sublethal NOEC	Lethal TU	Sublethal TU	Lethal NOEC	Sublethal NOEC		Sublethal TU
9/30/20	23	23	4.35	4.35	23	23	4.35	4.35
12/31/20	23	23	4.35	4.35	23	23	4.35	4.35
3/31/21	23	23	4.35	4.35	23	23	4.35	4.35
6/30/21	23	23	4.35	4.35	23	23	4.35	4.35
9/30/21	23	23	4.35	4.35	23	23	4.35	4.35
12/31/21	23	23	4.35	4.35	23	23	4.35	4.35
3/31/22	23	23	4.35	4.35	23	23	4.35	4.35
6/30/22	23	23	4.35	4.35	23	23	4.35	4.35
9/30/22	23	23	4.35	4.35	23	23	4.35	4.35
12/31/22	23	23	4.35	4.35	23	23	4.35	4.35
3/31/23	23	23	4.35	4.35	23	23	4.35	4.35
6/30/23	23		4.35	4.35	23	23	4.35	4.35
9/30/23	23	23	4.35	4.35	23	23	4.35	4.35
12/31/23	23	23	4.35	4.35	23	23	4.35	4.35
3/31/24	23	23	4.35	4.35	23	23	4.35	4.35
6/30/24	23	23	4.35	4.35	23	23	4.35	4.35
9/30/24	23	23	4.35	4.35	23	23	4.35	4.35
Dec-24	23		4.35	4.35	23	23	4.35	4.35
	23	23	4.35	4.35	23	23	4.35	4.35
Count			18	18			18	18
Mean			4.348	4.348			4.348	4.348
Std. Dev.			0.000	0.000			0.000	0.000
CV			0.0	0			0	0
				•	4			
RPMF			1.1	#N/A			1.1	#N/A
		5.556	Reasonabl	e Potential A	Acceptance C	riteria		
Vertebrate Lethal 0.861 No Reasonable Potential exists. Permit requires WET monitoring, but no WE								
								WET monitoring
Vertebrate Su	ıhlethal	#N/A	#N/A	1.0 10000011		5/11000. 1 0111	10441105	21 111011110111118
vertebrate St	ioivilai	#1 <b>V</b> // <b>1</b>	#1 <b>\</b> /// <b>1</b>	No Paggar	abla Datantia	laviete Dame	it raquiras V	WET monitoring
T		0.000	l M. D.					WET monitoring
Invertebrate I	Leinai	0.861	No Keaso					toring, but no W
			10.774	No Reason	able Potentia	u exists. Perm	nit requires \	WET monitoring

#N/A

Invertebrate Sublethal

No Reasonable Potential exists. Permit requires WET monitoring,

Facility Name	City	of Belen				
NPDES Permit Number	NM0020150			Outfall Number	001	
Proposed Critical Dilution*	18		•	_		
*Critical Dilution in draft normit do not use 9/ sign						

\*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** 

	VERTEBRATE			INVERTEBRATE			
Date (mm/yyyy) Lethal NOEC	Sublethal NOEC	Lethal TU	Sublethal TU	Lethal NOEC	Sublethal NOEC Let	thal 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.

T limit. but no WET limit.

but no WET limit. T limit. but no WET limit.

but no WET limit.

# 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