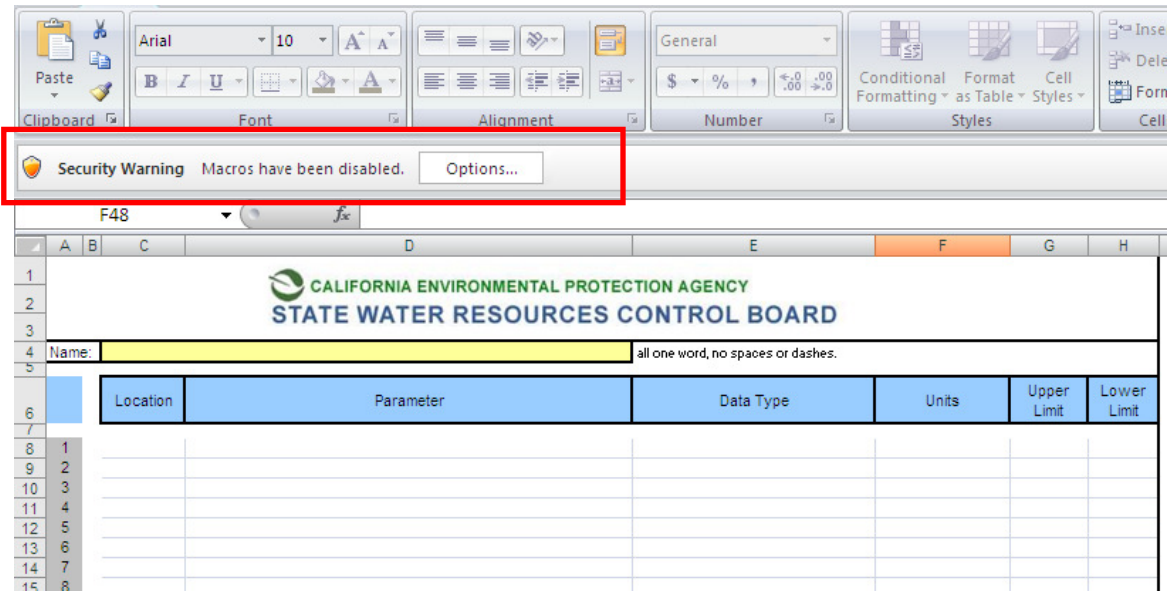


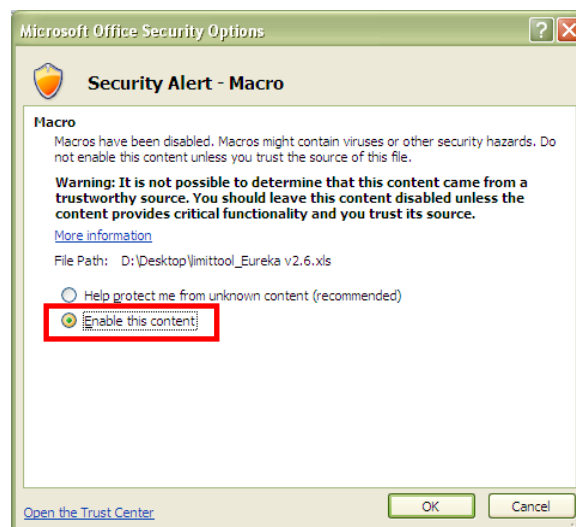
Limit Tool Users Guide

Excel 2007

1. Open the Limit Tool.



2. If you see the Security Warning
 - a. Click on Options.
 - b. Check “Enable this content” and click OK.



3. Enter in a Name, must be one word with no spaces or dashes.

The screenshot shows the top section of the application window. At the top center is the logo for the California Environmental Protection Agency State Water Resources Control Board. Below the logo is a yellow input field labeled "Name:" containing the text "Eureka". To the right of the input field is a small text label that reads "all one word, no spaces or dashes." The input field and its label are highlighted with a red rectangular border.

4. Enter in the Limitations. The Parameter, Data Type and Units are linked to a drop down menu.

The screenshot shows the Microsoft Excel ribbon at the top with tabs for Home, Insert, Page Layout, Formulas, Data, Review, View, Developer, and Add-Ins. The ribbon is set to the "Home" tab, showing options for Font, Alignment, and Number. Below the ribbon is the Excel grid. The active cell is E43, containing the text "Eureka". The grid contains a table with the following structure:

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY STATE WATER RESOURCES CONTROL BOARD						
Name: Eureka all one word, no spaces or dashes.						
Location	Parameter	Data Type	Units	Upper Limit	Lower Limit	
1						
2						
3						
4						
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12						
13						
14						
15						
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30						
31						
32						

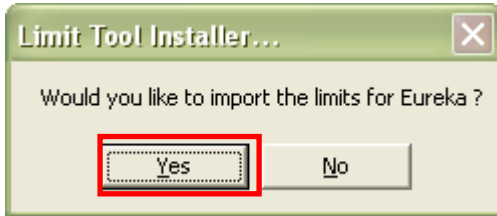
5. Click the “Generate Limits Tool” button

The screenshot shows the eSMR2 software interface. At the top, there are menu tabs: Home, Insert, Page Layout, Formulas, Data, Review, View, Developer, and Add-Ins. Below the menus are toolbars for Clipboard, Font, Alignment, Number, and Conditional Formatting. The main window displays a table with the following data:

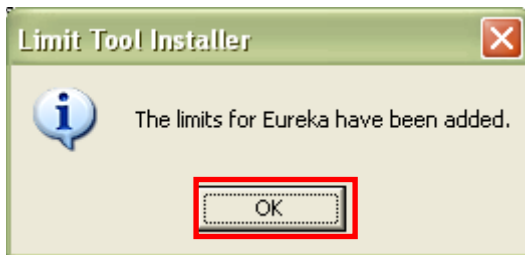
Location	Parameter	Data Type	Units	Upper Limit	Lower Limit
EFF-001	Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	Average Weekly (AWEL)	mg/L	45	
EFF-001	Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	Average Monthly (AMEL)	mg/L	30	
EFF-001	Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	Average Weekly (AWEL)	lb/day	3227	
EFF-001	Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	Average Monthly (AMEL)	lb/day	2151	
EFF-001	Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	Percent Reduction	%	85	
EFF-001	Total Suspended Solids (TSS)	Average Weekly (AWEL)	mg/L	45	
EFF-001	Total Suspended Solids (TSS)	Average Monthly (AMEL)	mg/L	30	
EFF-001	Total Suspended Solids (TSS)	Average Weekly (AWEL)	lb/day	3227	
EFF-001	Total Suspended Solids (TSS)	Average Monthly (AMEL)	lb/day	2151	
EFF-001	Total Suspended Solids (TSS)	Percent Reduction	%	85	
EFF-001	Settleable Solids	Single	ml/L	0.2	
EFF-001	Settleable Solids	Average Monthly (AMEL)	ml/L	0.1	
EFF-001	Oil and Grease	Single	mg/L	75	
EFF-001	Oil and Grease	Average Weekly (AWEL)	mg/L	40	
EFF-001	Oil and Grease	Average Monthly (AMEL)	mg/L	25	
EFF-001	Turbidity	Single	NTU	225	
EFF-001	Turbidity	Average Weekly (AWEL)	NTU	100	
EFF-001	Turbidity	Average Monthly (AMEL)	NTU	75	
EFF-001	pH	Single	mg/L	9	6
EFF-001	Total Coliform	Monthly Median of Mean Daily	MPN/100 mL	14	
EFF-001	Total Coliform	Other	MPN/100 mL	43	
EFF-001	Chlorine, Total Residual	Single	ug/L	248	
EFF-001	Chlorine, Total Residual	Instantaneous Maximum (IMAX)	ug/L	1860	
EFF-001	Chlorine, Total Residual	6-Month Median	ug/L	62	
EFF-001	Chlorine, Total Residual	Single	lb/day	17.8	
EFF-001	Chlorine, Total Residual	Instantaneous Maximum (IMAX)	lb/day	133.4	
EFF-001	Chlorine, Total Residual	6-Month Median	lb/day	4.45	
EFF-001	Ammonia, Total (as N)	Single	mg/L	74.4	
EFF-001	Ammonia, Total (as N)	Instantaneous Maximum (IMAX)	mg/L	186	
EFF-001	Ammonia, Total (as N)	6-Month Median	mg/L	18.6	
EFF-001	Ammonia, Total (as N)	Single	lb/day	5336	
EFF-001	Ammonia, Total (as N)	Instantaneous Maximum (IMAX)	lb/day	13341	
EFF-001	Ammonia, Total (as N)	6-Month Median	lb/day	1334	
EFF-001	Copper, Total	Single	ug/L	312	
EFF-001	Copper, Total	Instantaneous Maximum (IMAX)	ug/L	870	
EFF-001	Copper, Total	6-Month Median	ug/L	33	
EFF-001	Copper, Total	Single	lb/day	22.4	
EFF-001	Copper, Total	Instantaneous Maximum (IMAX)	lb/day	62.4	
EFF-001	Copper, Total	6-Month Median	lb/day	2.37	
EFF-001	Cyanide, Total (as CN)	Single	ug/L	124	
EFF-001	Cyanide, Total (as CN)	Instantaneous Maximum (IMAX)	ug/L	310	
EFF-001	Cyanide, Total (as CN)	6-Month Median	ug/L	31	
EFF-001	Cyanide, Total (as CN)	Single	lb/day	8.89	
EFF-001	Cyanide, Total (as CN)	Instantaneous Maximum (IMAX)	lb/day	22.2	
EFF-001	Cyanide, Total (as CN)	6-Month Median	lb/day	2.22	

At the bottom of the interface, there is a button labeled "Generate Limits Tool" which is highlighted with a red rectangular box. Other elements at the bottom include a "Support" link on the left and "Version 2.8" on the right.

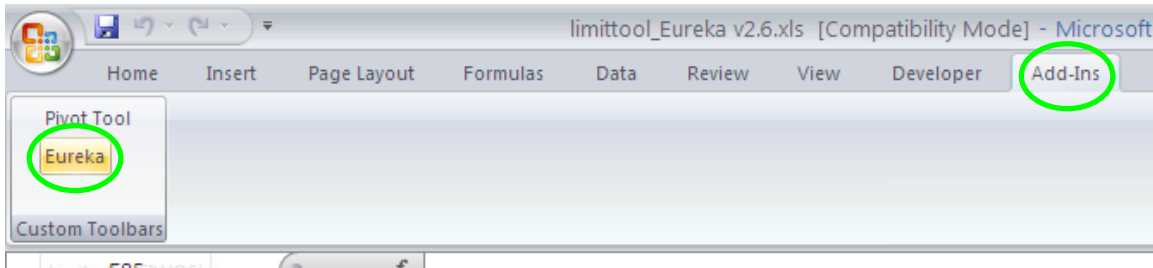
6. Click “Yes”



7. Click “OK”



In the “Add-Ins” section of your Ribbon, you will find the limit toolbar.



The Limits have been added!

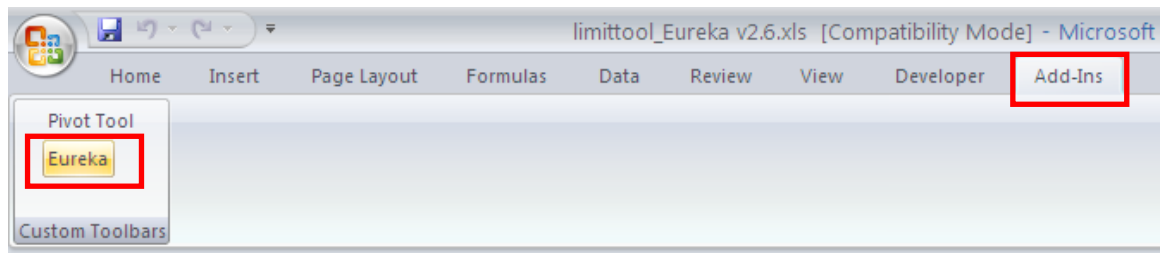
Limit Use

The Limit will work on a Pivot table created from a single eSMR submittal.

With your Pivot table open

Sampling Date	Sampling Time	Ammonia Total (as N)	Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	Chlorine, Total Residual	Copper, Total	Cyanide, Total (as CN)	Fecal Coliform	Flow	Oil and Grease	pH	Settling Solids
07/01/2010	00:00:00			0.01			2	4.431		6.8	0.1
07/02/2010	00:00:00	2	496	14	14	0.01	27	4.249		5	7
07/03/2010	00:00:00			0.02			2	4.238		6.8	0.1
07/04/2010	00:00:00			0.01				4.158		6.8	0.1
07/05/2010	00:00:00			0.01			2	4.231		6.7	0.1
07/06/2010	00:00:00			0.01			4	4.425		6.7	0.1
07/07/2010	00:00:00		373	10	10		7	4.468		6.8	0.1
07/08/2010	00:00:00							4.296		6.8	0.1
07/09/2010	00:00:00					0.01	2	4.241		6.8	0.1
07/10/2010	00:00:00						2	4.349		6.8	0.1
07/11/2010	00:00:00						2	4.272		6.8	0.1
07/12/2010	00:00:00						2	4.483		6.8	0.1
07/13/2010	00:00:00						2	4.407		6.8	0.1
07/14/2010	00:00:00		588	16	16	0.01		4.238		6.8	0.1
07/15/2010	00:00:00					0.08	4	4.231		6.9	0.1
07/16/2010	00:00:00							4.14		6.9	0.1
07/17/2010	00:00:00					0.01		4.015		7	0.1
07/18/2010	00:00:00					0.01		4.108		6.8	0.1
07/19/2010	00:00:00							4.122		6.8	0.1

Click on the corresponding Limit for that facility.





At the bottom of the table you will notice a new set of items, Limits and # of Exceedances, for each Parameter that you entered in on the Limit Tool.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		
1																						
2																						
3	verage of Flest		Locati	Param	colutio	Units	Qua															
4			EFF-001																			
5			Amoic Total (as N)	Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	Chlorine, Total Residual	Copper, Total	Cyanide, Total (as CN)	Feac Coliform	Flow	Oil and Grease	pH	Soluble Solids										
6			Single	Average Monthly (AMEL)	Average /weekly	Single										Average Monthly (AMEL)						
7			Average Weekly (AWEL) (Calculation Type)																			
8			Column: EFF-001 - Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) - Average Weekly (AWEL)																			
9	Sampling D	Sampling Ti																				
10	07/02/2010	00:00:00																				
11	07/03/2010	00:00:00	2		496	14	14		0.01						27	5	2	2	4.431	5	6.7	0.1
12	07/04/2010	00:00:00							0.02										4.238		7	0.1
13	07/05/2010	00:00:00							0.01										4.156		6.8	0.1
14	07/06/2010	00:00:00							0.01										4.231		6.7	0.1
15	07/07/2010	00:00:00			373	10	10		0.01										4.425		6.7	0.1
16	07/08/2010	00:00:00																	4.468		6.8	0.1
17	07/09/2010	00:00:00							0.01										4.296		6.8	0.1
18	07/10/2010	00:00:00																	4.241		6.8	0.1
19	07/11/2010	00:00:00																	4.349		6.8	0.1
20	07/12/2010	00:00:00																	4.272		6.8	0.1
21	07/13/2010	00:00:00																	4.483		6.8	0.1
22	07/14/2010	00:00:00			566	16	16		0.01										4.407		6.8	0.1
23	07/15/2010	00:00:00							0.08										4.238		6.8	0.1
24	07/16/2010	00:00:00																	4.231		6.8	0.1
25	07/17/2010	00:00:00							0.01										4.14		6.8	0.1
26	07/18/2010	00:00:00							0.01										4.015		7	0.1
27	07/19/2010	00:00:00							0.01										4.108		6.8	0.1
28	07/20/2010	00:00:00							0.01										4.157		6.8	0.1
29	07/21/2010	00:00:00							0.02										4.179		6.8	0.1
30	07/22/2010	00:00:00			526	15	15												4.192		6.9	0.1
31	07/23/2010	00:00:00							0.01										4.202		6.9	0.1
32	07/24/2010	00:00:00							0.01										3.941		6.9	0.1
33	07/25/2010	00:00:00																	3.965		6.8	0.1
34	07/26/2010	00:00:00							0.01										4.022		6.7	0.1
35	07/27/2010	00:00:00																	4.206		6.7	0.1
36	07/28/2010	00:00:00							0.01										4.173		6.8	0.1
37	07/29/2010	00:00:00							0.01										4.551		6.7	0.1
38	07/30/2010	00:00:00			513	15	604	18	18										4.182		6.8	0.1
39	07/31/2010	00:00:00							0.01										4.025		6.8	0.1
40																			3.908		6.9	0.1
41	Min of reported values		2	513	15	373	10	10	0.01	0	27	5	2	2	3.908	5	6.7	0.1	308	8.7		
42	Max of reported values		2	513	15	604	18	18	0.08	0	27	5	2	13	4.551	5	7	0.1	308	8.7		
43	Average of reported values		2	513	15	513	14.6	14.6	0.01474	#DIV/0!	27	5	2	5.88889	4.21555	5	6.81613	0.1	308	8.7		
44	Count		1	1	1	5	5	5	19	0	1	1	11	9	31	1	31	31	1	1		
46	Upper Limit		74.4	2151	30	3227	45				312	124					75		0.2	2151	30	
47	Lower Limit																					
48	# of Exceedances		0	0	0	0	0				0	0					0		0	0	0	
49																						



Cells that are highlighted red signify the result exceeded the Limit entered.

Average of Flow		Location	Parameter	Unit	Qual	Ammonia, Total (as N)		Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)		Chlorine, Total Residual	Copper, Total	Cyanide, Total (as CN)
Sampling Date	Sampling Time					Single	Average Monthly (AMEL)	Average Weekly (AWEL)				
						mg/L	lb/day	mg/L	lb/day	mg/L		ug/L
										ND		
07/07/2010	00:00:00							373	10	10		
07/08/2010	00:00:00									0.01		
07/09/2010	00:00:00											
07/10/2010	00:00:00											
07/11/2010	00:00:00											
07/12/2010	00:00:00											
07/13/2010	00:00:00											
07/14/2010	00:00:00							566	16	16	0.01	
07/15/2010	00:00:00									0.03		
07/16/2010	00:00:00											
07/17/2010	00:00:00									0.01		
07/18/2010	00:00:00									0.01		
07/19/2010	00:00:00									0.01		
07/20/2010	00:00:00									0.02		
07/21/2010	00:00:00											
07/22/2010	00:00:00							526	15	15		
07/23/2010	00:00:00									0.01		
07/24/2010	00:00:00									0.01		
07/25/2010	00:00:00											
07/26/2010	00:00:00									0.01		
07/27/2010	00:00:00											
07/28/2010	00:00:00									0.01		
07/29/2010	00:00:00									0.01		
07/30/2010	00:00:00						513	15	604	18	18	
07/31/2010	00:00:00									0.01		
Min of reported value		2	513	15	373	10	10	0.01	0	27	5	
Max of reported value		2	513	15	604	18	18	0.03	0	27	5	
Average of reported value		2	513	15	513	14.6	14.6	0.01474	DIW01	27	5	
Count		1	1	1	5	5	5	19	0	1	1	
Upper Limit		74.4	2151	30	2225	15				312	124	
Lower Limit												
# of Exceedance		0	0	0	0	2				0	0	