ADVANCED REPORTING TIPS AND TRICKS

NOVEMBER 26TH – 10:15 – 11:30

LEICA CONFERENCE ROOM

495 BLACKBURN RD, MOUNT WAVERLEY VIC

TRIGGERS AND NOTIFICATIONS

NARROW FORMAT OF DATA

PROMPTS

SCOTT DORNER – IIM PRODUCT MANAGER, HACH

AGENDA

- Trigger Reporting
  - What, Why, and How
  - Examples
- GSV – Spread function to detect we missed a sample
- Calculate Statistics for multiple variables, ie all Dist Cl2
- Questions

TRIGGER REPORTS

What is it?

A trigger report is one in which a condition has been defined in a report as to when a report should be sent out (via email or directly to GNR Server printer). Use of IF statement is almost always necessary. When a report triggers it can either send itself or/and other reports. A quick example could be whenever this is a violation of any variable a Violation Summary report is sent out.

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TRIGGER REPORTS

Why use it?

It can be more efficient to only view a report knowing that something is outside of the norm than to review all the data only to find that nothing needs attention / action. Convenient to get the notification via email since we almost always have an electronic device with us, but may not always be at a PC with WIMS.

TRIGGER REPORTS

How?

Define the condition in a report. Set the 'Report Options' Trigger cell and define which report(s) to send. Set 'Scheduled Task' to run the Trigger Report on a schedule. Email Gateway can be setup to send through Gmail if using Office 365 or no SMTP server access.

Email Gateway - http://www.opssys.com/instantkb/article.aspx?id=12003

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PROCESS CONTROL HEALTH

C22 ... =if(C20>5,1,"")

Process Control Health

Date	MLSS mg/L	MLVSS mg/L	Aeration Basin Dissolved Oxygen mg/L	F/M Ratio	Solids Retention Time Days	Settleability, 30 min. mL/L	Sludge Volume Index mL/g	Aeration Efficiency #BOD/KWH
8/1/2018	3,655	2,997	3.20	0.0991	45.94	370	101.2	2.32
8/2/2018	3,745	3,071	2.10	0.0861	35.36	260	69.4	2.18
8/3/2018	3,701	3,294	3.60					
8/4/2018	3,857	3,240	5.00					
8/5/2018	3,751	3,226	3.40					
8/6/2018	3,667	3,080	4.00					
8/7/2018	3,814	3,242	3.10					
Average	3,742	3,166	3.46					
Setpoint	3,500	3,000	3.00					
RPD	6.9	5.5	15.3					

Process Control Health Calc
8.4

Trigger	1.0

Report Options for 'Process Control Health'

OK

Report Name
Process Control Health — Change

Report Group
Process Reports

General Settings | Sheet Settings | Description | Trigger

☑ **This report is a TRIGGER**

Trigger Definition

Trigger Cell: C23

NOTE: Must be on the first sheet

Length of Trigger: 0 minutes

Reports to run when trigger fires

... Add | Remove | Remove All

ID	Report Name	Descript
54	Process Control Health	

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GSV – DID WE MISS A SAMPLE?

GSV(VarNum,GroupOffset/StartDate,Grouping/EndDate,Sampling_Requirement)

D3 ... =GSV(B3,1,"R","MWF")

	A	B	C	D	E	F	G	H
1								
2		VarNum						
3		10	Influent BOD	3		2018/08/01 Wed	331	
4						2018/08/02 Thu	320	
5						2018/08/03 Fri	281	
6						2018/08/04 Sat	319	
7						2018/08/05 Sun	268	
8						2018/08/06 Mon	285	
9						2018/08/07 Tue	297	
10						2018/08/08 Wed	305	
11						2018/08/09 Thu	285	
12						2018/08/10 Fri	260	
13						2018/08/11 Sat	323	
14						2018/08/12 Sun	282	
15						2018/08/13 Mon	285	
16						2018/08/14 Tue	316	
17						2018/08/15 Wed	278	
18						2018/08/16 Thu	303	
19						2018/08/17 Fri	259	
20						2018/08/18 Sat	284	
21						2018/08/19 Sun	283	
22						2018/08/20 Mon	271	
23						2018/08/21 Tue	298	
24						2018/08/22 Wed	295	
25						2018/08/23 Thu	284	
26						2018/08/24 Fri	302	
27						2018/08/25 Sat		
28						2018/08/26 Sun		
29						2018/08/27 Mon		
30						2018/08/28 Tue		
31						2018/08/29 Wed		
32						2018/08/30 Thu		
33						2018/08/31 Fri		

Sampling_Requirement: Sets how often the variable is suppose to be sampled in the form number/group (i.e. 1/Day, 3/Month, 3/WK),Weekdays (MWF), or number (1). Valid groups are:

Day,D
Wk,Week - Week is defined as Sunday-Saturday
Wkn,Weekn - Week defined by n. Click here for week definitions.
Month,Mth - Month
Qtr,Q - Quarter

To specify certain weekdays, build a string of the following:
Su - Sunday
M - Monday
Tu - Tuesday
W - Wednesday
Th - Thursday
F - Friday
Sa - Saturday

If just a number is specified it sets the requirement for the entire data range specified by the GroupOffset/StartDate and Offset/EndDate.

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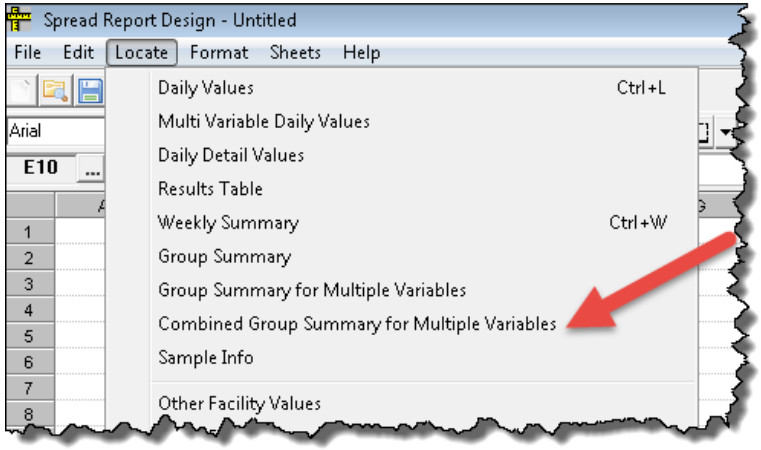
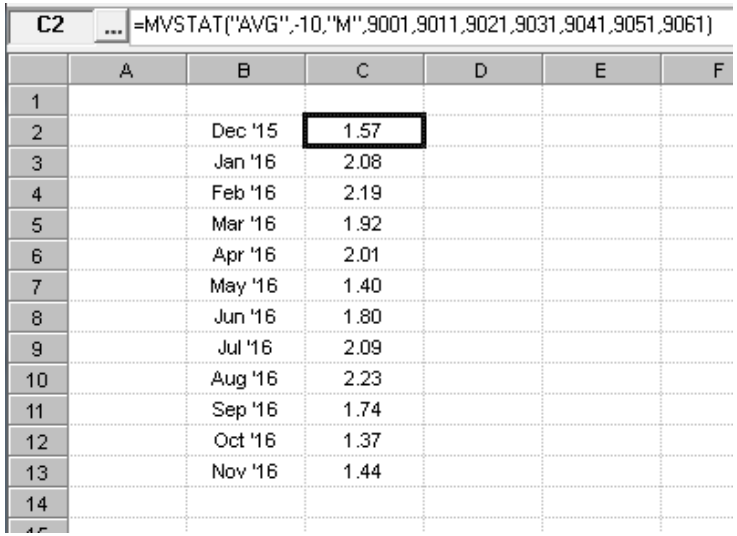
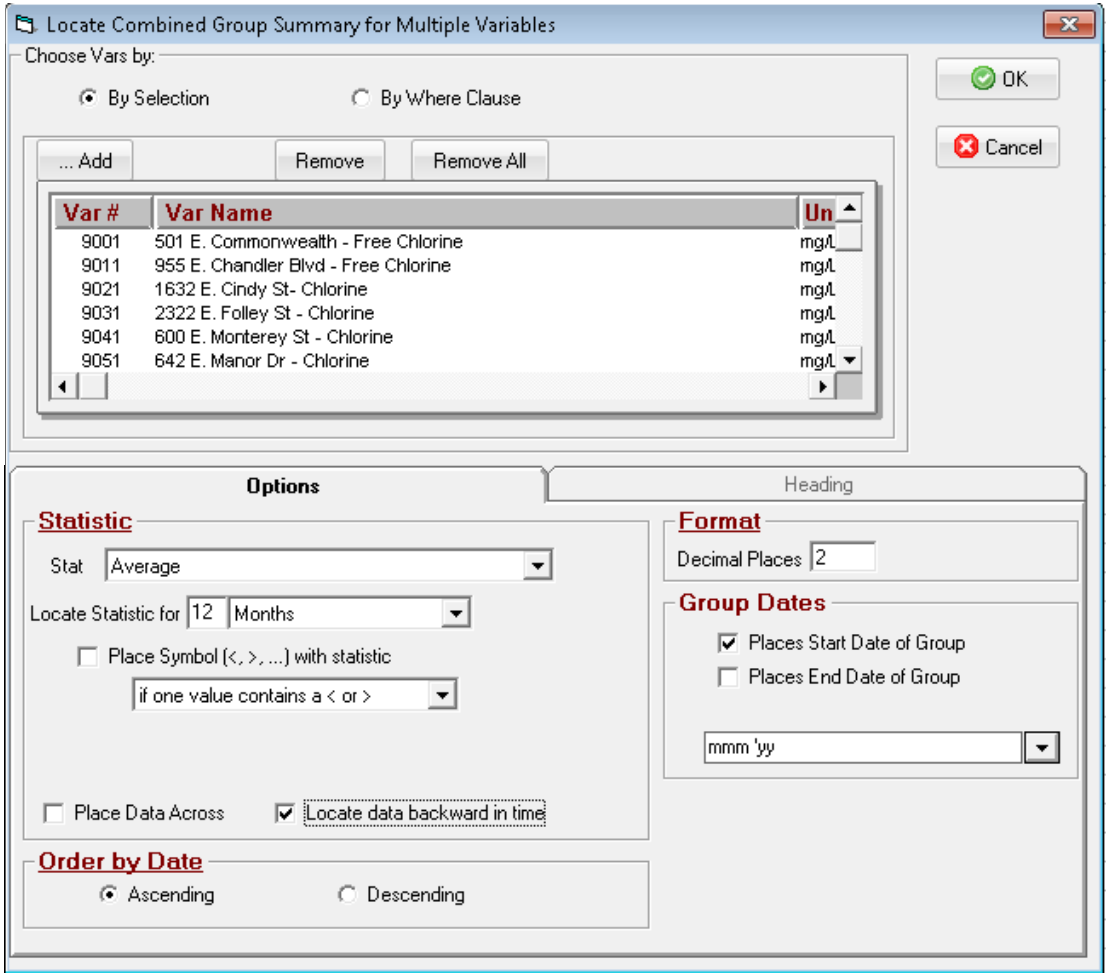
MULTI VARIABLE SUMMARY REPORTING - GET AVERAGE FROM ALL YOUR DISTRIBUTION CL2 VARIABLES.





	A	B	C	D	E	F
1						
2		Dec '15	1.57			
3		Jan '16	2.08			
4		Feb '16	2.19			
5		Mar '16	1.92			
6		Apr '16	2.01			
7		May '16	1.40			
8		Jun '16	1.80			
9		Jul '16	2.09			
10		Aug '16	2.23			
11		Sep '16	1.74			
12		Oct '16	1.37			
13		Nov '16	1.44			
14						



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