



INSPECTION TIME: NOW WHAT?

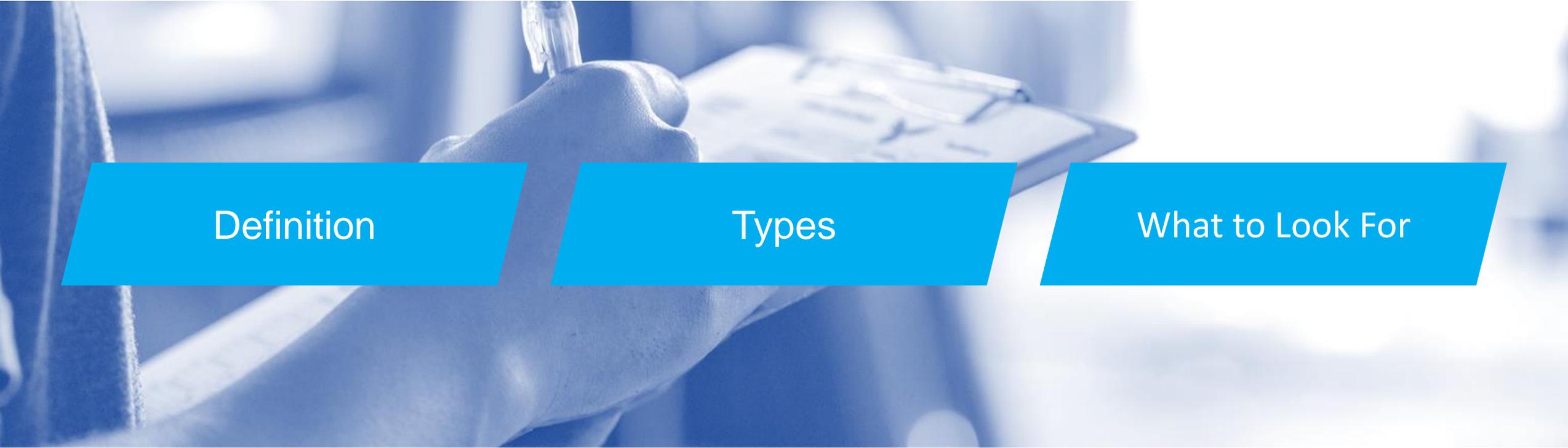
Access your plant data quickly with Data Management solutions

PRESENTED BY





DATA MANAGEMENT SOFTWARE

A background image showing a person's hand holding a pen and writing on a notepad. The image is overlaid with a blue tint and three white text boxes.

Definition

Types

What to Look For

Data Management Software can be defined as an application that acts as a central repository for all your operational data, which provides for data collection, manipulation and storage, process control calculations, trending, analyses, industry and regulatory reporting.

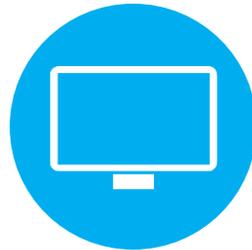
TYPES OF DATA MANAGEMENT SOFTWARE



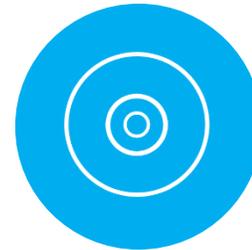
Paper



Spreadsheets



Databases



Commercial
Off-the-Shelf
Software

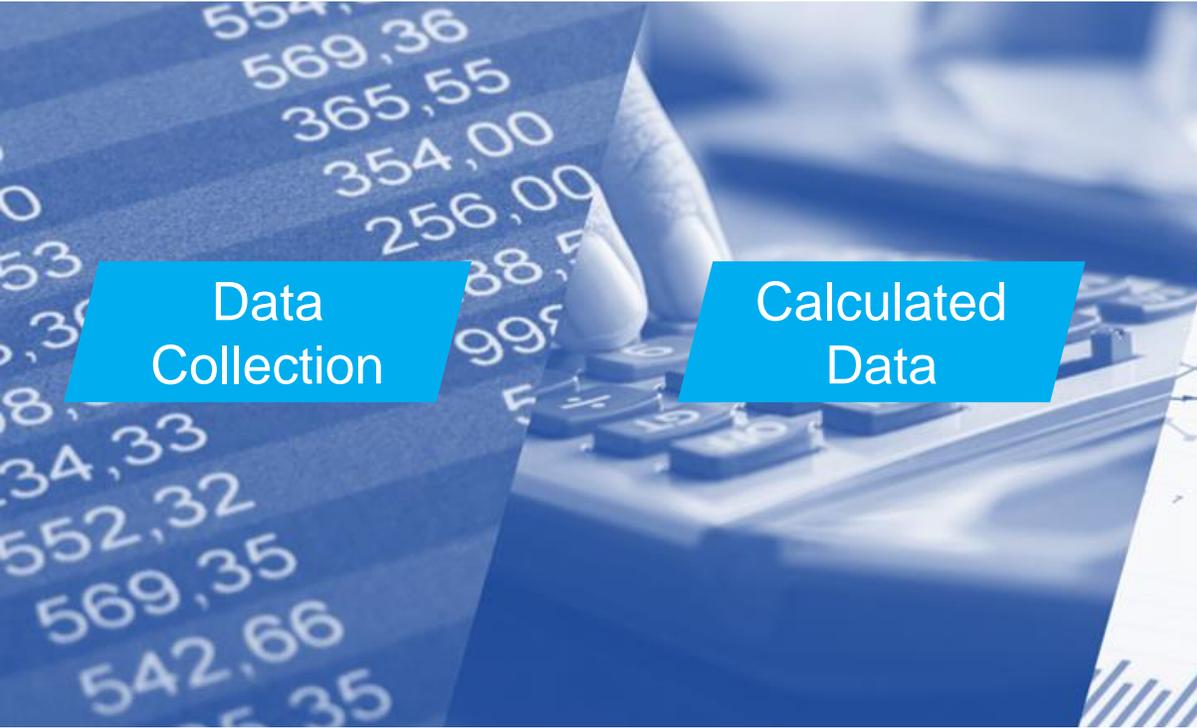


Agency-Provided/
Web-Based Solution

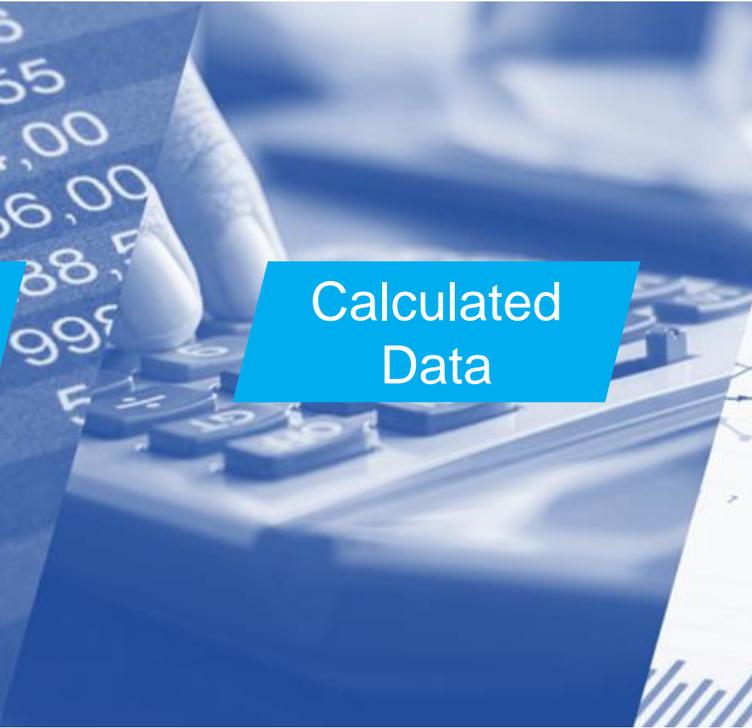


WHAT TO LOOK FOR IN DATA MANAGEMENT SOFTWARE:

ASSESSING YOUR NEEDS



Data
Collection



Calculated
Data



Charting



Reporting

DATA COLLECTION

Overview	Trends	Alarm Reset	Horn Silence	Upper Olentangy Water Reclamation Center	10:58:46 AM 04/30/21
Main Menu	Alarm & Event History	Key Information	Previous Screen		

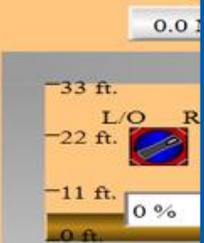
Influent Pumping	
PH	7.9
Temp	14.4 °C
Flow	4.8 MGD
East WW	6.0 FT.
West WW	5.8 FT.

Odor Control Panel

Influent Pumping

Pumps' Statistics

- Meter Vault High Level Float
- East Wetwell High Level Float
- West Wetwell High Level Float



- FROM Equalization Basin
- FROM Tertiary Filter Backw
- FROM Drain Pump Station
- FROM BFP #1
- FROM BFP #2

Time / Date	Description

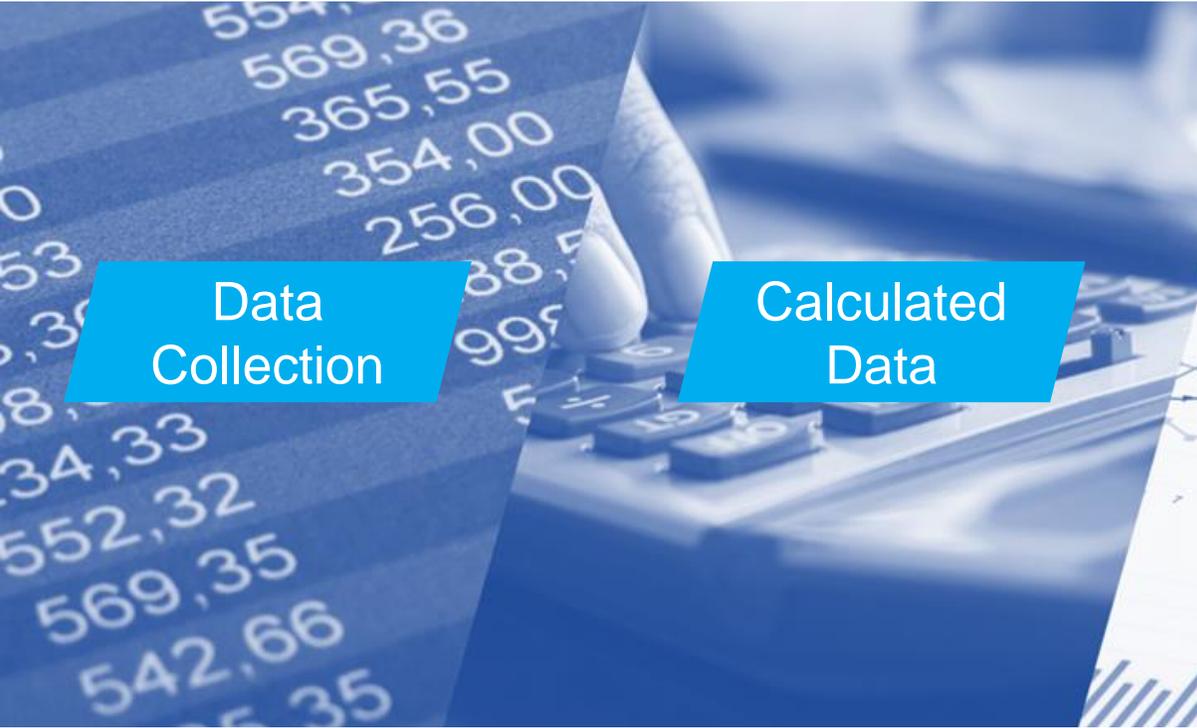
Overview	Trends	Alarm Reset	Horn Silence	Upper Olentangy Water Reclamation Center	10:57:20 AM 04/30/21
Main Menu	Alarm & Event History	Key Information	Previous Screen		

Influent Pumping	Final Settling Tanks Overview	Thickened Sludge	Septage Receiving
Influent Screening	Final Settling Tanks #1 - #2	Belt Filter Press Feed Pumps	Power Monitoring
Grit Removal	Final Settling Tanks #3 - #5	Belt Filter Press #1	Compressed Air & Eye Wash Stations
Primary Settling Tanks	RAS/WAS Pumps	Belt Filter Press #2	Diagnostics Overview
Primary Sludge Pumping	Tertiary Filter Process	Dewatering Loadout	Trends Menu
Aeration Tanks #1 - #3	Post Aeration & Ultraviolet System	Chemical Feed System	Shift Notes
Aeration Tanks #4 - #7	Equalization Basin	Drain Pump Station	Login/Logout
Process Aeration Blowers #1 - #5	Sludge Storage Tanks #1 - #2	Odor Control Systems	Active Alarms
Process Aeration Blowers #6 - #8	Sludge Storage Tank #3	Non-Potable Water System	

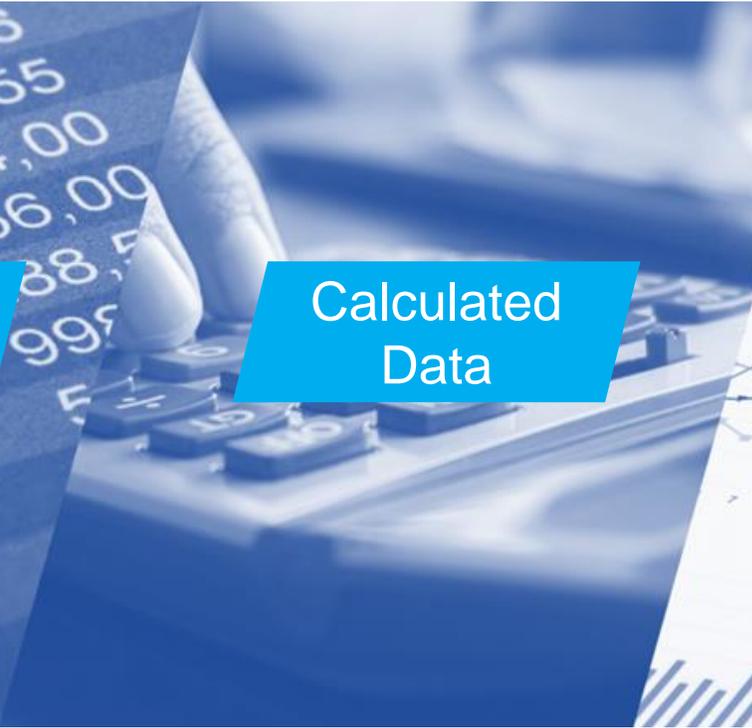
Time / Date Description Ack All Alarms



ASSESSING YOUR NEEDS



Data
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Data



Charting



Reporting

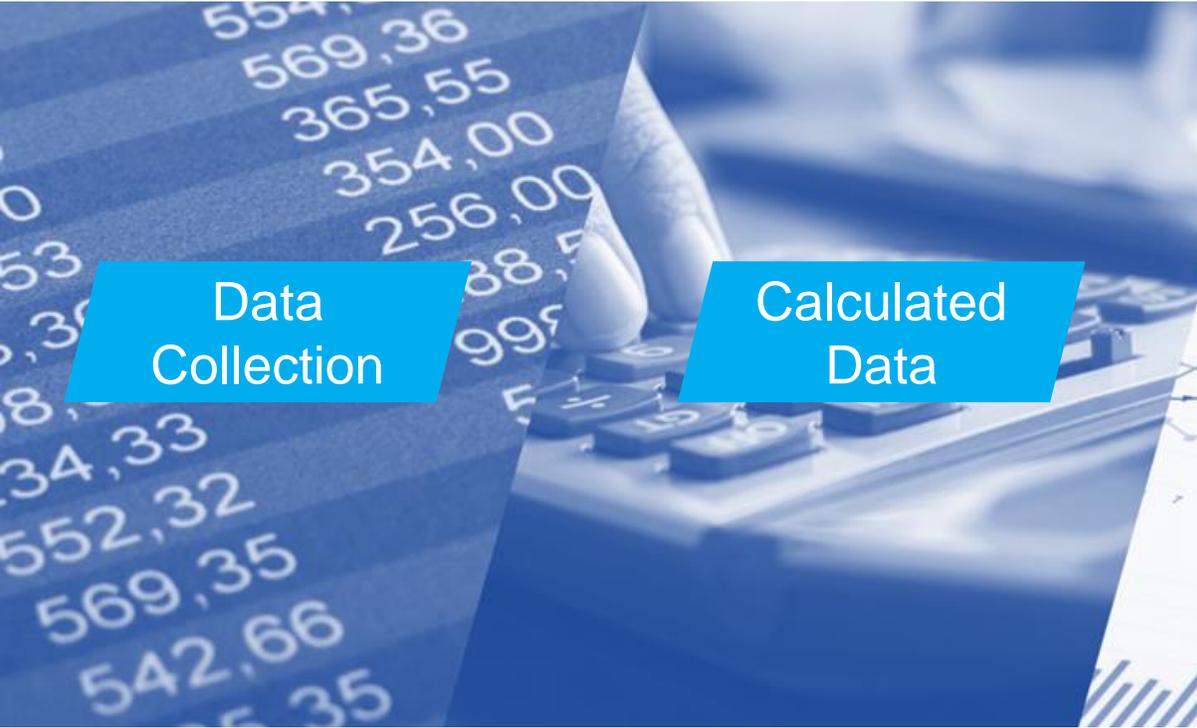


CALCULATED DATA

Plant Influent Monitoring – Outfall 601

CBOD Pounds	Formula
13,097	<div style="border: 1px solid gray; padding: 5px;"> <p>Facility Name: UOWRC Save</p> <p>Facility: <input type="text" value="UOWRC"/></p> <p>Formula Name: <input type="text" value="BOD Pounds"/></p> <p>Attached To L:P: <input type="text" value="[Multiple]"/></p> <p>Remark: <input type="text"/></p> <p>Functions: <input type="text"/> <input type="button" value="Formula Help"/></p> <p>Location:Parameter: <input type="text"/></p> <p>[~:Flow Mgd]*8.34*[~:Bod 5]</p> <p>Formula Result: <input type="text" value="13096.61892"/></p> <p>Formula Test</p> <p>Date: <input type="text" value="4/1/2021"/></p> <p> <input checked="" type="radio"/> Use values from Test Data: <input type="radio"/> Use Data From Database </p> <p>1st L:P Value: <input type="text" value="12.978"/></p> <p>2nd L:P Value: <input type="text" value="121"/></p> <p>3rd L:P Value: <input type="text"/></p> <p>4th+ L:P Value: <input type="text"/></p> <p>Default Loc:Par for wildcards: <input type="text" value="BT Totals:Flow Type 1"/></p> </div>
7,909	
6,550	
5,854	
4,286	
3,888	
5,308	
2,916	
3,251	
3,745	
3,237	
5,531	
5,057	
5,304	
4,672	
4,269	
5,958	
5,532	
2,974	
3,369	
2,801	
3,317	
3,447	
3,267	
4,705	
5,485	
5,770	
2,000	

ASSESSING YOUR NEEDS



Data
Collection



Calculated
Data

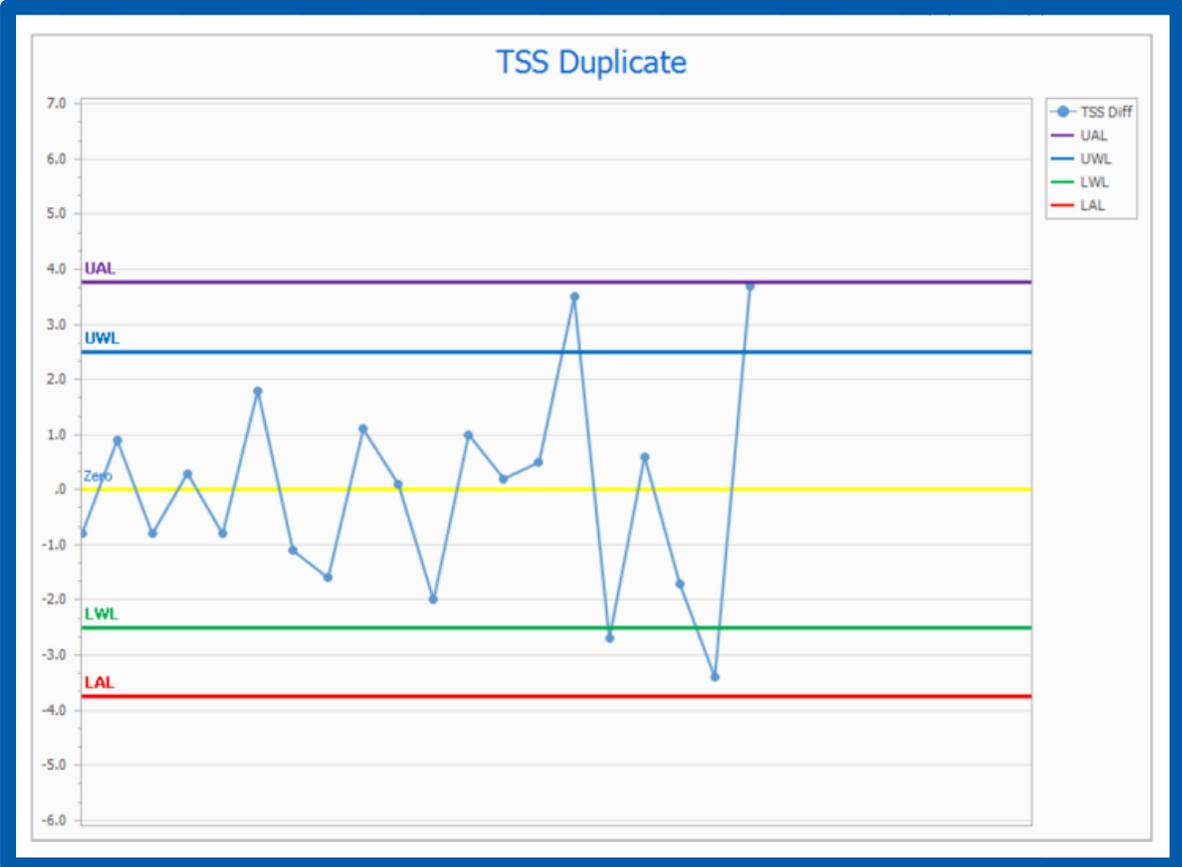
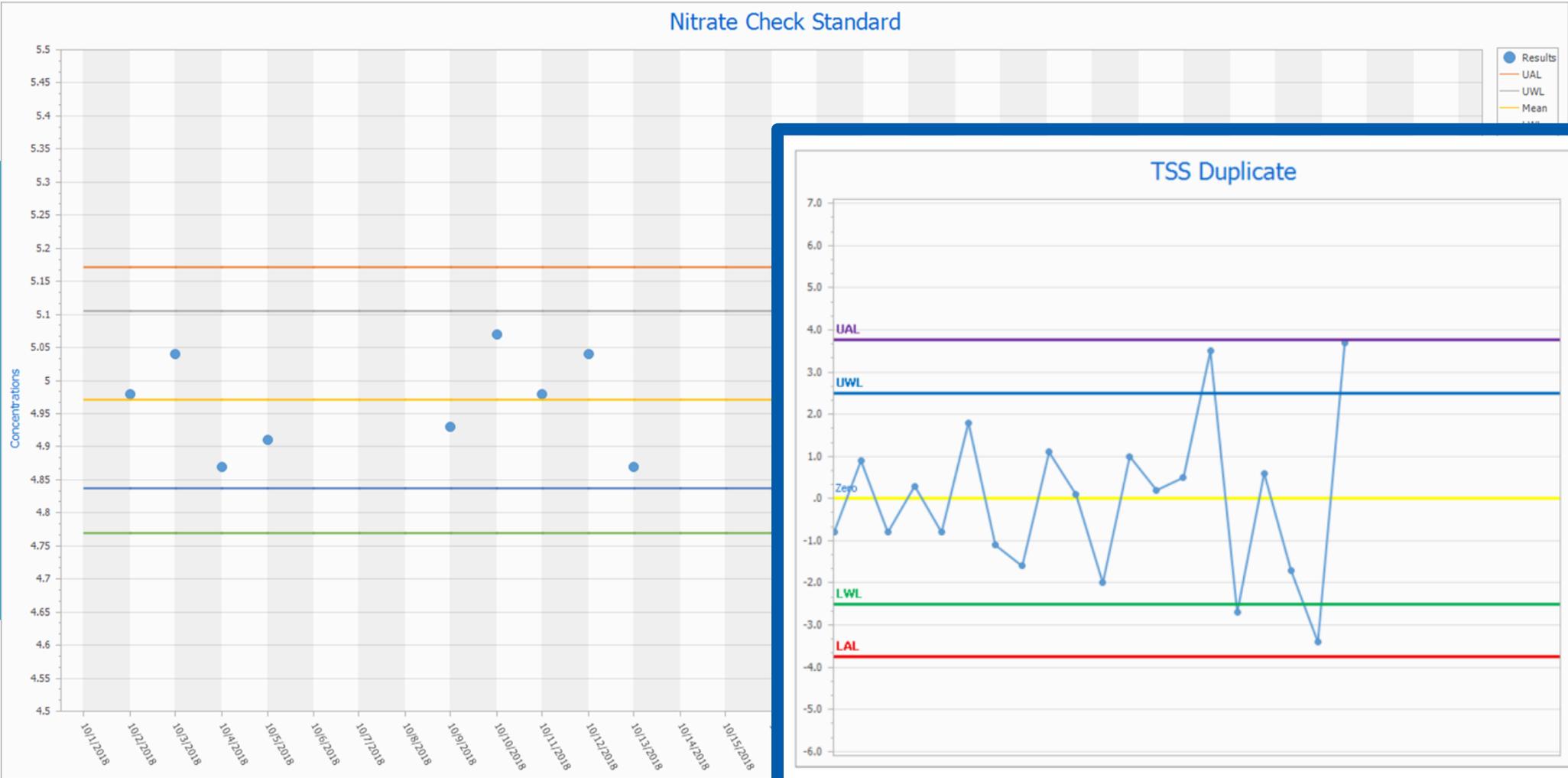


Charting

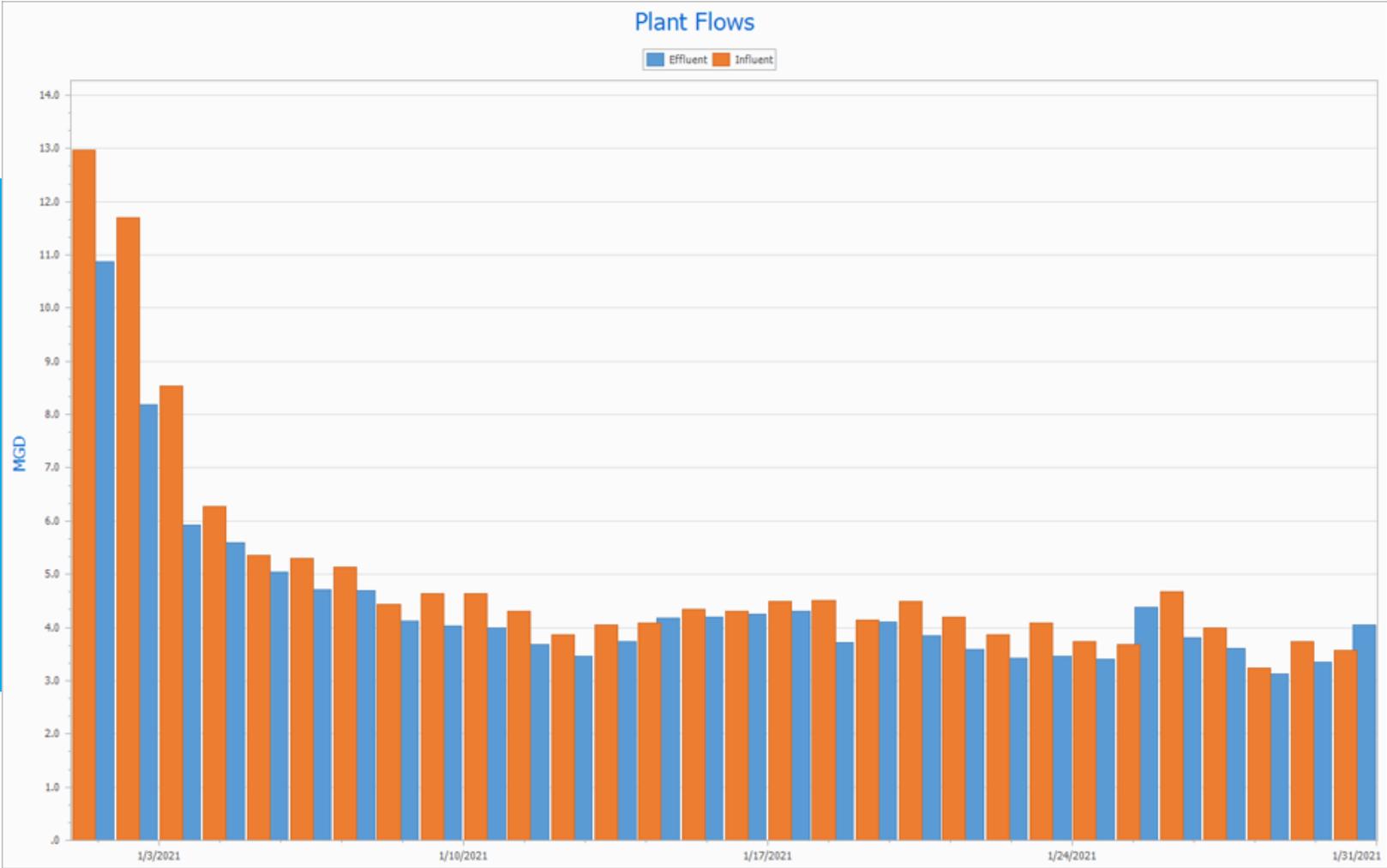


Reporting

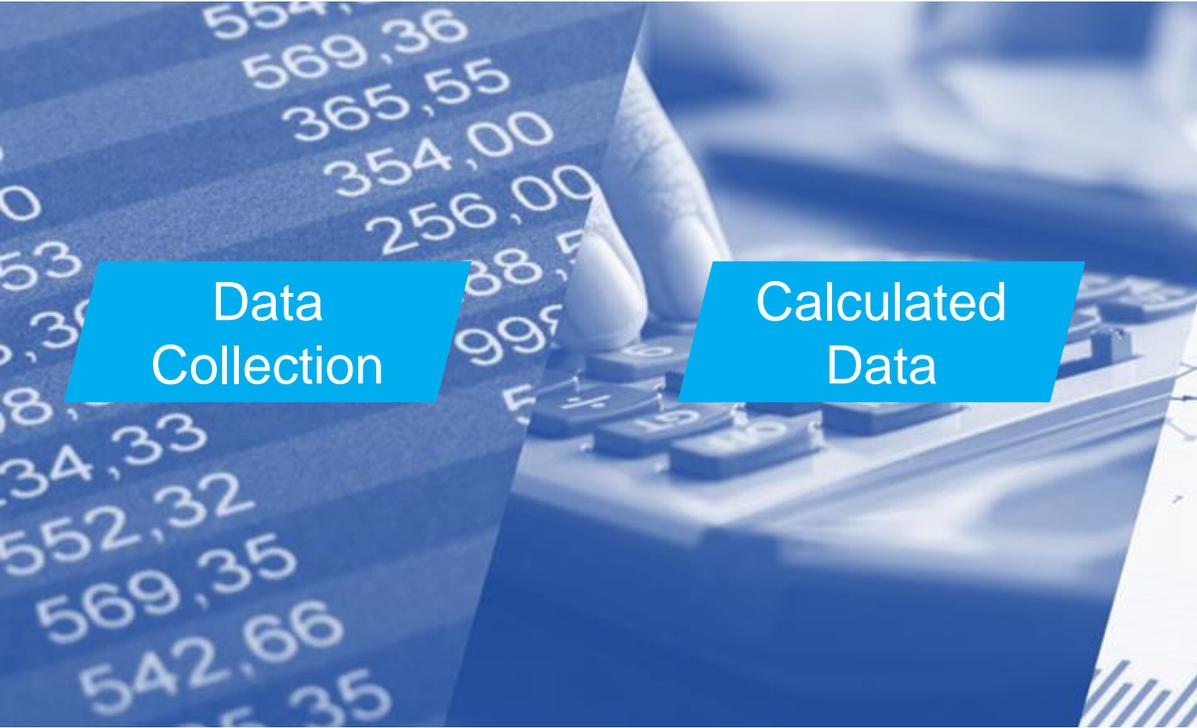
CHARTING



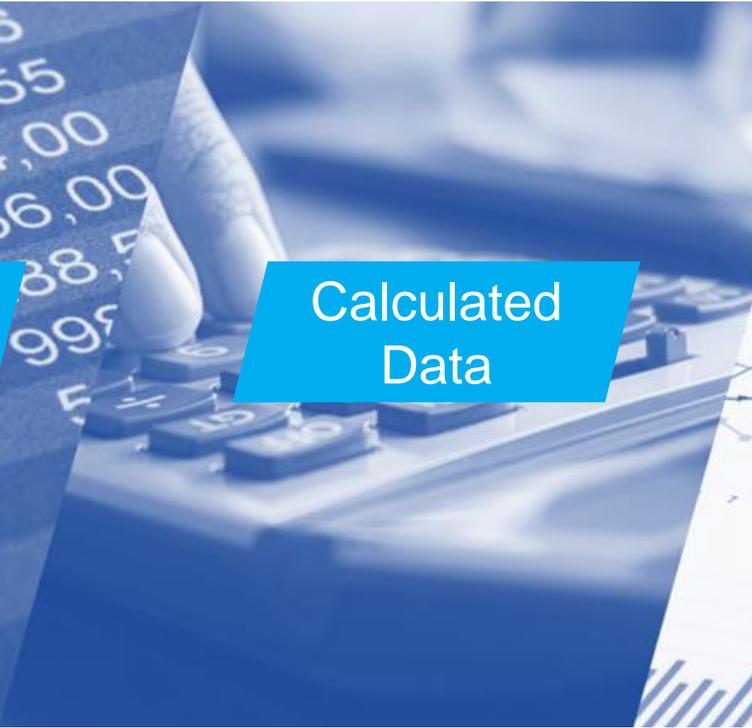
CHARTING



ASSESSING YOUR NEEDS



Data
Collection



Calculated
Data



Charting



Reporting

REPORTING

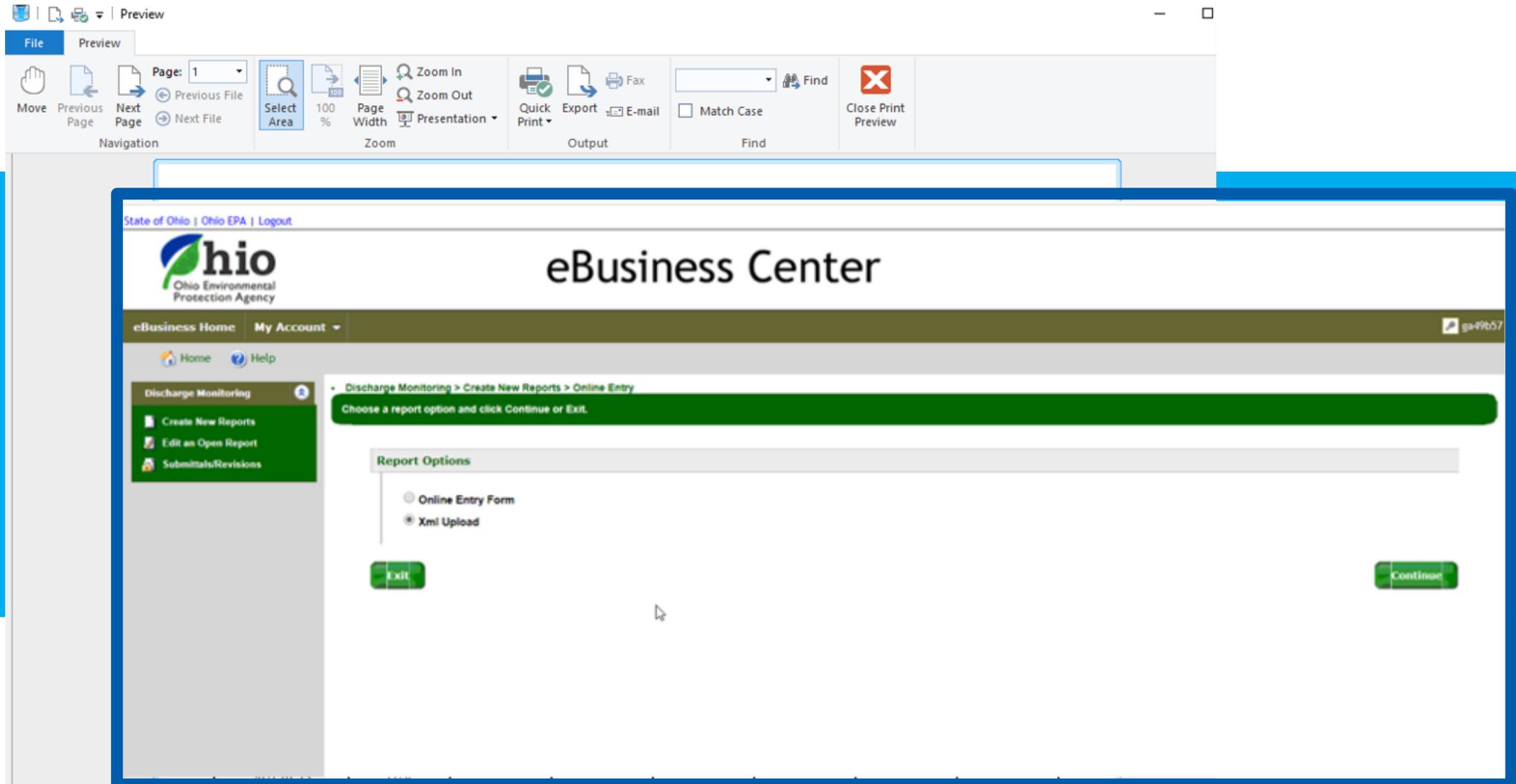
Permit Limit Report -- Winter
UOWRC

Page 1
January, 2021
Print Date: 4/30/2021

Limit Summary: (** designates values exceeding limit)
0 values exceeding limit.

Location/Parameter	Units	Limit	Actual
Dissolved Oxygen			
Minimum , 1/20/2021	MG/L	7.0	8.00
TSS			
Max Weekly Avg (1st of Month)	MG/L	37	6.6
Average	MG/L	25	6.3
Max Weekly Avg (1st of Month) Loading	kg/day	1401	219.6
Average Loading	kg/day	946	195.2
Oil & Grease			
Maximum	MG/L	10	
NH3-N Ammonia			
Max Weekly Avg (1st of Month)	MG/L	4.25	2.462
Average	MG/L	2.83	1.125
Max Weekly Avg (1st of Month) Loading	kg/day	161	80.2
Average Loading	kg/day	108	28.9
Nitrogen Total Inorganic			
Max Weekly Avg (1st of Month) , Beginning: 1/20/2021	MG/L	12.2	8.30
Average	MG/L	8.1	7.66
Max Weekly Avg (1st of Month) Loading	kg/day	460	133.79
Average Loading	kg/day	307	131.43
Phosphorus Total			
Max Weekly Avg (1st of Month)	MG/L	1.5	1.05
Average	MG/L	1.0	0.87
Max Weekly Avg (1st of Month) Loading	kg/day	57	16.71
Average Loading	kg/day	38	13.98
Copper Total Recoverable			
Maximum	UG/L	29	
Average	UG/L	18	
Maximum Loading	kg/day	1.1	
Average Loading	kg/day	0.68	
pH			
Maximum	SU	9.0	7.80
Minimum , 1/1/2021	SU	6.5	7.20
CBOD			
Max Weekly Avg (1st of Month)	MG/L	27	4.68
Average	MG/L	18	2.57
Max Weekly Avg (1st of Month) Loading	kg/day	1022	146
Average Loading	kg/day	681	55

REPORTING



The screenshot shows a PDF viewer window titled "Preview" with a toolbar containing navigation, zoom, and output options. The main content is a web page from the Ohio Environmental Protection Agency's eBusiness Center. The page header includes "State of Ohio | Ohio EPA | Logout" and the "Ohio Environmental Protection Agency" logo. The main heading is "eBusiness Center". Below the header, there are navigation links for "Home" and "Help", and a user account section with "My Account" and a user ID "ga49657". The page content is organized into a sidebar and a main area. The sidebar, under "Discharge Monitoring", lists "Create New Reports", "Edit an Open Report", and "Submittals/Revisions". The main area features a breadcrumb trail: "Discharge Monitoring > Create New Reports > Online Entry". Below this, a green banner instructs the user to "Choose a report option and click Continue or Exit." The "Report Options" section contains two radio buttons: "Online Entry Form" and "Xml Upload", with "Xml Upload" selected. At the bottom of the page, there are "Exit" and "Continue" buttons.

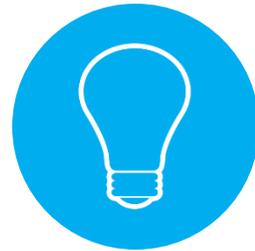
IS IT WORTH IT?



Time



Need



Expectations

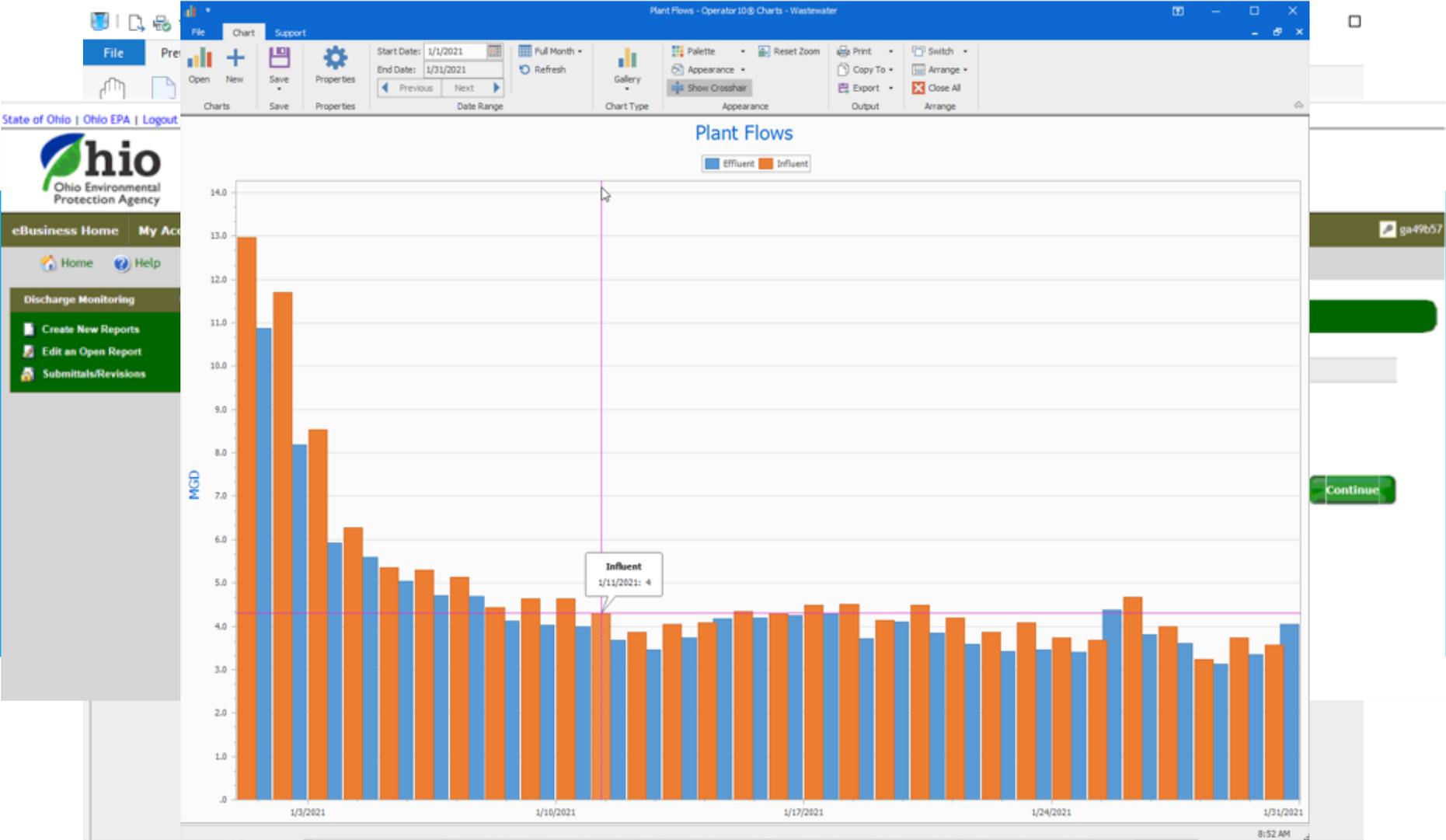


Cost

A Full-Service Company

- Focus on the water/wastewater industry
- Company longevity
- Program setups
- Onsite & virtual installation and training
- Personalized, one-on-one technical support

DATA MANAGEMENT SOFTWARE





Where to find it?

There are several off-the-shelf products on the market today. How do you find the one that is right for you? My suggestion is to ask your fellow operators. See what programs they use and how they like it. Another option is to do an internet search for software companies that have developed this type of software. Finally, go to trade shows or conferences, in person or virtually, and talk to the developers themselves.



In summary, whether your plant inspection is in person or virtual, it is important to have your plant records in line. So, look at your needs and record keeping requirements and make sure what you're using is going to be easy to use and maintain. And remember, the faster you get the information to the inspector, the faster you can enjoy the rest of that sunny Tuesday afternoon.

THANK YOU!

A blue-tinted background image showing two people from behind, looking at a screen. One person is wearing a white hard hat and a plaid shirt, and the other is wearing a dark shirt. The person in the plaid shirt is holding a pen and pointing at the screen.

City of Delaware, Ohio
Bryan Livingston



BJ Yoder

800-670-1867

bj@allmaxsoftware.com

ALLMAX SOFTWARE, INC

800-670-1867

www.allmaxsoftware.com

