

# 18 Sample Viewer

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## Overview

The sample viewer shows information about the samples that are shown based on the selected locations in the Data Viewer. For the selected locations a list of samples is shown in the upper part of the sample viewer. In the lower part of the sample viewer the content of selected samples are shown.

The screenshot displays the Delft-FEWS Configuration Course (Stand alone) interface. The main window is titled "Delft-FEWS Configuration Course (Stand alone)". The interface includes a menu bar (File, Tools, Options, Help) and a toolbar. The left pane shows the "Data Viewer" with "Hydrobiology" and "Water quality" categories. The top pane shows a list of samples with columns: Time, Sample Id, Location Name, Employee, External reference, X-coordinate of sample, Y-coordinate of sample, Analyst, Source, and Method. The bottom pane shows a detailed view of selected samples with columns: Sample Id, Location Name, Parameter Group, Parameter Name, Compartment, Eenheid equivalent, Grootheid, Value, and Unit. The bottom pane also includes a "Parameter Eenheid" section with checkboxes for "All parameters", "Kwaliteit", and "Kwaliteit". The bottom pane also includes a "Metadata" section with checkboxes for "Compartment", "Eenheid equivalent", and "Grootheid". The bottom pane also includes a "Map" button, a "Grafiek" button, a "Taak" button, and a "Monsterdata (Hydrobiologie)" button.

## Contents

To use the sample viewer, configure it as <explorerTask> in Explorer.xml using <predefinedDisplay>sample viewer</predefinedDisplay> for example:

```

<explorerTask name="Monsters">
  <iconFile>sysmon.png</iconFile>
  <mnemonic>M</mnemonic>
  <predefinedDisplay>sample viewer</predefinedDisplay>
  <toolbarTask>true</toolbarTask>
  <menubarTask>true</menubarTask>
  <accelerator>ctrl S</accelerator>
  <loadAtStartup>true</loadAtStartup>
</explorerTask>

```

## Export Time Series

Values of time series belonging to all selected samples in the sample viewer can be exported via the (right mouse click) context menu.

Tijd	Monster Id	Location ...	Medewer...	Externe r...	Monster ...	X-coördi...	Y-coördi...	Projectco...	Medewe
01-01-...	3220065181	AAA001	GOES	vanderGo...	Amstelboe...	126987	465354	VASTECOL	GOES
01-01-...	3120090061	AAA100	WP_CAS_...	WPWV000	mp macro...	126670	465740	VASTECOL	WP_CAS
01-01-...	337638	AAA100	AQS_DTE	AQS-01\E...	Vaarten A...	126670	465740	KRW	AQS_DT
01-01-...	3120120035	AAA100	WP_CAS_...	359471		126666	465747		WP_CAS
01-01-...	3220121756	AAA104	WP_WOU...	349255		126653	466290		WP_WOI
01-01-...	3420120104	AAA106	ATKB_MA...	20120244	20120244...	127195	466764		ATKB_M
01-01-...	3420120102	AAA107	ATKB_MA...	20120244	20120244...	127216	466695		ATKB_M
01-01-...	3420120105	AAA108	ATKB_MA...	20120244	20120244...	126884	466545		ATKB_M
01-01-...	3220065285	ABA001	GOES	vanderGo...	Amstelboe...	127886	473263	VASTECOL	GOES
01-01-...	308204	ADM004	IMP	DWR-01\S...	Import mo...	121710	487440		IMP
01-01-...	2823	ADM004	AQS	AQS-01\O...	CB 4	121710	487440	PEBS	AQS
01-01-...	3224			AQS-01\E...	Oudezijds ...	121710	487440	PEBS	AQS
01-01-...	3254			AQS-01\E...	Oudezijds ...	121710	487440	PEBS	AQS
01-01-...	2905			AQS-01\E...	Oudezijds ...	121710	487440	PEBS	AQS
01-01-...	3278	ADM010	WP_WIL_...	DWR-01\S...	Keizergrac...	120760	486880	PEBS	WP_WIL
01-01-...	308205	ADM010	IMP	DWR-01\S...	Import mo...	120760	486880		IMP
01-01-...	308206	ADM011	IMP	DWR-01\S...	Import mo...	121380	488010		IMP
01-01-...	3120120015	ADM100	WP_CAS_...	359914		117135	487847		WP_CAS
01-01-...	3220120580	ADM100	WP_ART_...	349297		117128	487839		WP_ART
01-01-...	3120090001	ADM100		wns010		117132	487844		
01-01-...	3120090180	ADM100	WP_CAS_...	WNSM010	mp macro...	117130	487840	VASTECOL	WP_CAS
01-01-...	3120120027	ADM101	WP_CAS_...	365952		122763	483614		WP_CAS
Monsters 14856									

When this is selected an export format can be chosen from the file type drop down menu.





5 : Data Viewer

Tijd	Monster Id	Location ...	Medewer...	Externe r...	Monster ...	X-coördi...	Y-coördi...	Projectco...	Medewer...	Bron
01-01-1981 00:00:00	713	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900	ECOLDOEL	IMP	TABHIST
01-01-1981 00:00:00	714	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330	ECOLDOEL	IMP	TABHIST
01-01-1981 00:00:00	712	MBP044	IMP	PUT-01\S...	Import mo...	132930	468070	ECOLDOEL	IMP	TABHIST
23-06-1981 01:00:00	564	GWV040	IMP	PUT-01\S...	Import mo...	126120	471960		IMP	TABHIST
14-03-1985 00:00:00	661	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
03-07-1985 01:00:00	622	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900		IMP	TABHIST
04-07-1985 01:00:00	664	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
31-07-1985 01:00:00	623	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900		IMP	TABHIST
01-08-1985 01:00:00	665	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
28-08-1985 01:00:00	624	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900	ECOLDOEL	IMP	TABHIST
25-09-1985 01:00:00	625	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900		IMP	TABHIST
23-10-1985 00:00:00	626	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900		IMP	TABHIST
24-10-1985 00:00:00	667	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
20-11-1985 00:00:00	627	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900		IMP	TABHIST
20-11-1985 00:00:00	584	MBP044	IMP	PUT-01\S...	Import mo...	132930	468070		IMP	TABHIST
21-11-1985 00:00:00	668	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST

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Monster Id	Locatie-naam	Parameter-groep	Parameter-naam	MACFT	Compartime	Analyse code	Analyse methode	Meet methode	Type waarde	Eenheid	Waarde
1	1	1	1	24	1	1	1	1	1	1	8
714	MBP016	Klasse	Bedekking...	Polygonu...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking...	Iris pseud...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking...	Nuphar lut...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	8.0
714	MBP016	Klasse	Bedekking...	Caltha pal...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking...	Rumex pal...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking...	Hottonia p...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	1.0
714	MBP016	Klasse	Bedekking...	Callitriche ...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking...	Cicuta viro...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	3.0
714	MBP016	Klasse	Bedekking...	Nymphaea...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	8.0
714	MBP016	Klasse	Bedekking...	Myosotis p...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking...	Sparganiu...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking...	Mentha aq...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking...	Polygonu...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	1.0
714	MBP016	Klasse	Bedekking...	Typha ang...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	8.0
714	MBP016	Klasse	Bedekking...	Scirpus	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking...	Rorippa a...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking...	Epilobium ...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking...	Phragmite...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	8.0
714	MBP016	Klasse	Bedekking...	Alisma pla...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0

Waarden 24

Kaart

Grafieken

Ruimtelijk Scherm

Taak uitvoeren

Monsterdata (Hydrobiologie) ☐

6 : Lense

Multiple samples can be selected at the same time. This is shown in the next image where samples 714 and 712 are selected.



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Tijd	Monster Id	Location ...	Medewer...	Externe r...	Monster ...	X-coördi...	Y-coördi...	Projectco...	Medewer...	Bron
01-01-1981 00:00:00	713	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900	ECOLDOEL	IMP	TABHIST
01-01-1981 00:00:00	714	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330	ECOLDOEL	IMP	TABHIST
01-01-1981 00:00:00	712	MBP044	IMP	PUT-01\S...	Import mo...	132930	468070	ECOLDOEL	IMP	TABHIST
23-06-1981 01:00:00	564	GWV040	IMP	PUT-01\S...	Import mo...	126120	471960		IMP	TABHIST
14-03-1985 00:00:00	661	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
03-07-1985 01:00:00	622	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900		IMP	TABHIST
04-07-1985 01:00:00	664	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
31-07-1985 01:00:00	623	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900		IMP	TABHIST
01-08-1985 01:00:00	665	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
28-08-1985 01:00:00	624	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900	ECOLDOEL	IMP	TABHIST
25-09-1985 01:00:00	625	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900		IMP	TABHIST
23-10-1985 00:00:00	626	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900		IMP	TABHIST
24-10-1985 00:00:00	667	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
20-11-1985 00:00:00	627	MBP012	IMP	PUT-01\S...	Import mo...	134240	465900		IMP	TABHIST
20-11-1985 00:00:00	584	MBP044	IMP	PUT-01\S...	Import mo...	132930	468070		IMP	TABHIST
21-11-1985 00:00:00	668	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST

Monsters 14856

Monster Id	Locatie-naam	Parameter-groep	Parameter-naam	MACFT	Compartime	Analyse code	Analyse methode	Meet methode	Type waarde	Eenheid	Waarde
2	2	1	1	27	1	1	1	1	1	1	8
714	MBP016	Klasse	Bedekking...	Rorippa a...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking...	Epilobium ...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking...	Phragmite...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	8.0
714	MBP016	Klasse	Bedekking...	Alisma pla...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking...	Epilobium ...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking...	Butomus u...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking...	Nymphoid...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking...	Typha latif...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking...	Hydrocotyl...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	1.0
712	MBP044	Klasse	Bedekking...	Spargani...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
712	MBP044	Klasse	Bedekking...	Iris pseud...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
712	MBP044	Klasse	Bedekking...	Potamoge...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	1.0
712	MBP044	Klasse	Bedekking...	Epilobium ...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
712	MBP044	Klasse	Bedekking...	Scirpus	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
712	MBP044	Klasse	Bedekking...	Butomus u...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
712	MBP044	Klasse	Bedekking...	Alisma pla...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
712	MBP044	Klasse	Bedekking...	Potamoge...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
712	MBP044	Klasse	Bedekking...	Cicuta viro...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	3.0
712	MBP044	Klasse	Bedekking...	Epilobium ...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0

Waarden 51



The samples selection can be taken over by the filters in the data viewer when choosing the "select time series" option from the (right mouse) context menu:

Tijd	Monster Id	Location ...	Medewer...	Externe
01-01-1981 00:00:00	713	MBP012	IMP	PUT-01\
01-01-1981 00:00:00	714	MBP016	IMP	PUT-01\
01-01-1981 00:00:00	712			PUT-01\
23-06-1981 01:00:00	564			PUT-01\
14-03-1985 00:00:00	661			PUT-01\
03-07-1985 01:00:00	622	MBP012	IMP	PUT-01\
04-07-1985 01:00:00	664	MBP016	IMP	PUT-01\
31-07-1985 01:00:00	623	MBP012	IMP	PUT-01\

Selecteer tijdseries  
Filter Boom...  
Exporteer Tijdseries

The next image shows the location and parameter from the sample selected in the data viewer:

Tijd	Monster Id	Location ...	Medewer...	Externe r...	Monster ...	X-coördi...	Y-coördi...	Projectco...	Medewer...	Bron
01-01-1981 00:00:00	714	MBP016	IMP	PUT-01\	Import mo...	133680	469330	ECOLDOEL	IMP	TABHIST

Monster Id	Locatie-naam	Parameter-groep	Parameter-naam	MACFT	Compartime	Analyse code	Analyse methode	Meet methode	Type waarde	Eenheid	Waarde
1	1	1	1	24	1	1	1	1	1	1	8
714	MBP016	Klasse	Bedekking Macrofyten	Polygonu...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking Macrofyten	Iris pseud...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking Macrofyten	Nuphar lut...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	8.0
714	MBP016	Klasse	Bedekking Macrofyten	Caltha pal...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking Macrofyten	Rumex pal...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking Macrofyten	Hottonia p...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	1.0
714	MBP016	Klasse	Bedekking Macrofyten	Callitriche ...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking Macrofyten	Cicuta viro...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	3.0
714	MBP016	Klasse	Bedekking Macrofyten	Nymphaea...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	8.0
714	MBP016	Klasse	Bedekking Macrofyten	Myosotis p...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking Macrofyten	Sparganiu...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking Macrofyten	Mentha aq...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking Macrofyten	Polygonu...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	1.0
714	MBP016	Klasse	Bedekking Macrofyten	Typha ang...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	8.0
714	MBP016	Klasse	Bedekking Macrofyten	Scirpus	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking Macrofyten	Rorippa a...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking Macrofyten	Epilobium ...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking Macrofyten	Phragmite...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	8.0
714	MBP016	Klasse	Bedekking Macrofyten	Alisma pla...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking Macrofyten	Epilobium ...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking Macrofyten	Butomus u...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	2.0
714	MBP016	Klasse	Bedekking Macrofyten	Nymphoid...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking Macrofyten	Typha latif...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	4.0
714	MBP016	Klasse	Bedekking Macrofyten	Hydrocotyl...	Opp.Water	PTB	x_Nog_nie...	x_Nog_nie...	gemeten	-	1.0

Selecting time series also works the other way around. By selecting locations in the data viewer, the sample viewer automatically only shows samples for those locations:



5 : Data Viewer

Data Viewer  
Meetnet

KVV100  
☒ Keverdijkse Oversche  
☒ LVE010  
☒ LVE106  
☒ LVE107  
☒ LVE108  
☒ LVE109  
☒ LVE111  
☒ LVE112  
☒ LVE113  
☒ LVE114

Aantal Diatomeeën  
Aantal Macro-evertebra  
Bedekking Macrofyten  
Bedekking Macrofyten  
Bodemtype  
Breedte  
Breedtepotentieel  
Kwelindicatie  
Monsterlengte  
Oeverbeschoeiing  
Oeverzijde  
Slibdikte  
Talud bovenwater (met  
Waterdiepte  
X-coördinaat  
X-eindcoördinaat  
Y-coördinaat  
Y-eindcoördinaat

Abiotisch kenget  
Analyse code  
Analyse methode

Tijd	Monster Id	Location ...	Medewer...	Externe r...	Monster ...	X-coördi...	Y-coördi...	Projectco...	Medewer...	Bron
03-08-2004 01:00:00	200433	KOP003	GG_M89	GOEENG...	mp vegetati	136890	479350	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200434	KOP101	GG_M89	GOEENG...	mp vegetati	136790	480030	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200435	KOP126	GG_M89	GOEENG...	mp vegetati	136770	480180	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200436	KOP127	GG_M89	GOEENG...	mp vegetati	136940	480030	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200437	KOP128	GG_M89	GOEENG...	mp vegetati	136960	480130	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200438	KOP129	GG_M89	GOEENG...	mp vegetati	136980	479820	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200439	KOP130	GG_M89	GOEENG...	mp vegetati	136880	479750	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200440	KOP131	GG_M89	GOEENG...	mp vegetati	136680	479610	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200441	KOP132	GG_M89	GOEENG...	mp vegetati	136880	479960	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200442	KOP133	GG_M89	GOEENG...	mp vegetati	136750	479840	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200443	KOP134	GG_M89	GOEENG...	mp vegetati	136610	479740	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200444	KOP135	GG_M89	GOEENG...	mp vegetati	136820	479960	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200445	KOP136	GG_M89	GOEENG...	mp vegetati	136740	479940	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200462	KOP115	GG_M89	GOEENG...	mp vegetati	137740	479300	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200463	KOP137	GG_M89	GOEENG...	mp vegetati	137210	479580	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200464	KOP138	GG_M89	GOEENG...	mp vegetati	137410	479830	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200465	KOP139	GG_M89	GOEENG...	mp vegetati	137460	479760	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200466	KOP140	GG_M89	GOEENG...	mp vegetati	137420	479300	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200467	KOP141	GG_M89	GOEENG...	mp vegetati	137420	479240	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200468	KOP142	GG_M89	GOEENG...	mp vegetati	137430	479160	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200469	KOP143	GG_M89	GOEENG...	mp vegetati	137290	479090	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200470	KOP144	GG_M89	GOEENG...	mp vegetati	137610	479040	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200471	KOP145	GG_M89	GOEENG...	mp vegetati	137730	479110	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200472	KOP146	GG_M89	GOEENG...	mp vegetati	137750	479160	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200473	KOP147	GG_M89	GOEENG...	mp vegetati	137970	479480	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200474	KOP148	GG_M89	GOEENG...	mp vegetati	137870	479380	VASTECOL	GG_M89	TABHUID
12-08-2004 01:00:00	2004203	KOP005	GG_M110	GOEENG...	mp vegetati	138210	478600	VASTECOL	GG_M110	TABHUID
12-08-2004 01:00:00	2004204	KOP149	GG_M110	GOEENG...	mp vegetati	138510	478280	VASTECOL	GG_M110	TABHUID
13-08-2004 01:00:00	2004221	KOP150	GG_M110	GOEENG...	mp vegetati	138140	478760	VASTECOL	GG_M110	TABHUID
13-08-2004 01:00:00	2004222	KOP151	GG_M110	GOEENG...	mp vegetati	138290	478760	VASTECOL	GG_M110	TABHUID

Monsters 89

Selecting locations and parameters can be combined as can be seen below. Multiple locations are selected and 1 parameter, only samples are shown that have values for time series belonging to one of the locations and the selected parameter.

The screenshot shows the 'Data Viewer' application. On the left, there is a 'Meetnet' tree view with a list of samples under 'KVV100'. The main area displays a table with columns: Tijd, Monster Id, Location, Medewer..., Externe r..., Monster ..., X-coördi..., Y-coördi..., Projectco..., Medewer..., and Bron. The table contains 85 rows of data, with the last row labeled 'Monsters 85'.

Tijd	Monster Id	Location	Medewer...	Externe r...	Monster ...	X-coördi...	Y-coördi...	Projectco...	Medewer...	Bron
03-08-2004 01:00:00	200433	KOP003	GG_M89	GOESEN...	mp vegetati	136890	479350	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200434	KOP101	GG_M89	GOESEN...	mp vegetati	136790	480030	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200435	KOP126	GG_M89	GOESEN...	mp vegetati	136770	480180	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200436	KOP127	GG_M89	GOESEN...	mp vegetati	136940	480030	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200437	KOP128	GG_M89	GOESEN...	mp vegetati	136960	480130	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200438	KOP129	GG_M89	GOESEN...	mp vegetati	136980	479820	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200439	KOP130	GG_M89	GOESEN...	mp vegetati	136880	479750	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200440	KOP131	GG_M89	GOESEN...	mp vegetati	136680	479610	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200441	KOP132	GG_M89	GOESEN...	mp vegetati	136880	479960	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200442	KOP133	GG_M89	GOESEN...	mp vegetati	136750	479840	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200443	KOP134	GG_M89	GOESEN...	mp vegetati	136610	479740	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200444	KOP135	GG_M89	GOESEN...	mp vegetati	136820	479960	VASTECOL	GG_M89	TABHUID
03-08-2004 01:00:00	200445	KOP136	GG_M89	GOESEN...	mp vegetati	136740	479940	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200462	KOP115	GG_M89	GOESEN...	mp vegetati	137740	479300	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200463	KOP137	GG_M89	GOESEN...	mp vegetati	137210	479580	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200464	KOP138	GG_M89	GOESEN...	mp vegetati	137410	479830	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200465	KOP139	GG_M89	GOESEN...	mp vegetati	137460	479760	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200466	KOP140	GG_M89	GOESEN...	mp vegetati	137420	479300	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200467	KOP141	GG_M89	GOESEN...	mp vegetati	137420	479240	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200468	KOP142	GG_M89	GOESEN...	mp vegetati	137430	479160	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200469	KOP143	GG_M89	GOESEN...	mp vegetati	137290	479090	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200470	KOP144	GG_M89	GOESEN...	mp vegetati	137610	479040	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200471	KOP145	GG_M89	GOESEN...	mp vegetati	137730	479110	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200472	KOP146	GG_M89	GOESEN...	mp vegetati	137750	479160	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200473	KOP147	GG_M89	GOESEN...	mp vegetati	137970	479480	VASTECOL	GG_M89	TABHUID
04-08-2004 01:00:00	200474	KOP148	GG_M89	GOESEN...	mp vegetati	137870	479380	VASTECOL	GG_M89	TABHUID
12-08-2004 01:00:00	2004203	KOP005	GG_M110	GOESEN...	mp vegetati	138210	478600	VASTECOL	GG_M110	TABHUID
12-08-2004 01:00:00	2004204	KOP149	GG_M110	GOESEN...	mp vegetati	138510	478280	VASTECOL	GG_M110	TABHUID
13-08-2004 01:00:00	2004221	KOP150	GG_M110	GOESEN...	mp vegetati	138140	478760	VASTECOL	GG_M110	TABHUID
13-08-2004 01:00:00	2004222	KOP151	GG_M110	GOESEN...	mp vegetati	138290	478760	VASTECOL	GG_M110	TABHUID

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## Filtering sample viewer

The sample table can be filtered via the option Filter Tree in the (right mouse) context menu:

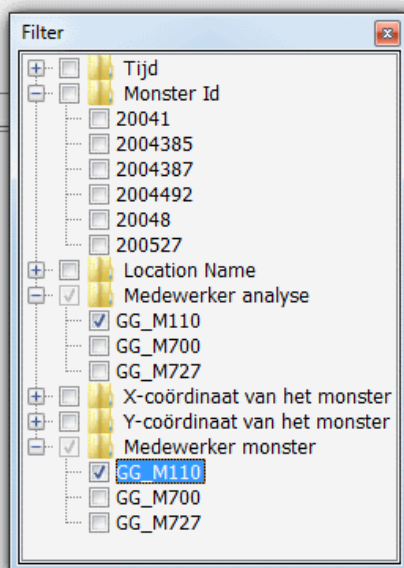
Tijd	Monster Id	Location ...	Medewer...	Externe r...
01-01-198...	713	MBP012	IMP	PUT-01\S
01-01-198...	714	Selecteer tijdseries		PUT-01\S
01-01-198...	712	Filter Boom...		PUT-01\S
23-06-198...	564	Exporteer Tijdseries		PUT-01\S
14-03-198...	661	MBP016	IMP	PUT-01\S
03-07-198...	622	MBP012	IMP	PUT-01\S
04-07-198...	664	MBP016	IMP	PUT-01\S
01-07-198...	622	MBP012	IMP	PUT-01\S
Monsters 14856				

This will show a window where you can select values for columns for which the entire table will be filtered. Columns on which filtering is applied will be shown with a light blue background.



Tijd ^	Monster Id	Location ...	Medewer...	Externe r...	Monster ...	X-coördi...	Y-coördi...	Projectco...	Medewer...	Bron
02-08-200...	20041	BUS017	GG_M110	GOESEN...	mp vegetati	138260	476840	VASTECOL	GG_M110	TABHUID
21-08-200...	2004385	ZAV111	GG_M110	GOESEN...	mp vegetati	141180	477110	VASTECOL	GG_M110	TABHUID
21-08-200...	2004387	ZAV113	GG_M110	GOESEN...	mp vegetati	141320	476970	VASTECOL	GG_M110	TABHUID
25-08-200...	2004492	ZAV118	GG_M110	GOESEN...	mp vegetati	141310	477310	VASTECOL	GG_M110	TABHUID

Monsters 4



Filtering also works by double clicking on a cell in the sample table. Just as filtering from the filter window this can be applied to multiple cells as illustrated in the next image where the sample table is filtered for location "MBP016" and medewerker "IMP"

Tijd	Monster Id	Location ...	Medewer...	Externe r...	Monster ...	X-coördi...	Y-coördi...	Projectco...	Medewer...	Bron
14-03-1985 00:00:00	661	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
04-07-1985 01:00:00	664	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
01-08-1985 01:00:00	665	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
24-10-1985 00:00:00	667	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
21-11-1985 00:00:00	668	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
15-01-1986 00:00:00	670	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
13-02-1986 00:00:00	671	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
05-03-1986 00:00:00	672	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
10-04-1986 01:00:00	673	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
06-05-1986 01:00:00	674	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
05-06-1986 01:00:00	675	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
03-07-1986 01:00:00	676	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
28-08-1986 01:00:00	678	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
25-09-1986 01:00:00	679	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
23-10-1986 00:00:00	680	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
20-11-1986 00:00:00	681	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
18-12-1986 00:00:00	682	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
15-01-1987 00:00:00	683	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
18-02-1987 00:00:00	684	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
09-04-1987 01:00:00	686	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
07-05-1987 01:00:00	687	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
04-06-1987 01:00:00	688	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
30-07-1987 01:00:00	690	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
27-08-1987 01:00:00	691	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
24-09-1987 01:00:00	692	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
22-10-1987 00:00:00	693	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
19-11-1987 00:00:00	694	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST
17-12-1987 00:00:00	695	MBP016	IMP	PUT-01\S...	Import mo...	133680	469330		IMP	TABHIST

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Monster Id	Locatie-naam	Parameter-groep	Parameter-naam	Compartime	Analyse code	Analyse methode	Meet methode	Type waarde	Abiotisch Kengetal	Eenheid	Waarde
1	1	1	1	1	1	1	1	2	1	1	40
661	MBP016	Concentra...	Chlorofyl-a	Opp.Water	AKG	x_Nog_nie...	x_Nog_nie...	berekend	Chlorophyl a	ug/l	40.0
661	MBP016	Concentra...	Chlorofyl-a	Opp.Water	AKG	x_Nog_nie...	x_Nog_nie...	gemeten	Chlorophyl a	ug/l	40.0

## Season and time filtering (since 2021.01)

Since 2021.01 it is also possible to filter samples on time and define a list of seasons for filtering of samples within a specific period within years.

### Sample Display Config

```
<sampleDisplay xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews https://fewsdcs.deltares.nl/schemas/version1.0/sampleDisplay.xsd">
  <enableEditor>true</enableEditor>
  <permissions>
    <editorPermission>beheerders</editorPermission>
  </permissions>
  <season startMonthDay="--04-01" endMonthDay="--09-30" label="Groeiseizoen"/>
  <season startMonthDay="--09-30" endMonthDay="--04-01" label="Off season"/>
</sampleDisplay>
```

A dropdown menu on top of the sample panel will appear for this season and time filtering option:

Starttijd: 01-01-1900 01:00:00

Eindtijd: 01-01-2100 01:00:00

Groeiseizoen

Toepassen

Tijd ^	Monster Id	Locatie...	Namesp...	X_monster	Y_monst...	Opdrach...	Wegings...	OPPV...	OPPVT...	BeginDi...	EindDie...	Referent...	activiteit	Monster...
23-07-2...	19-0318...	30_02 E...	NL14			19-171								

Groeiseizoen

Off season

## Edit samples (since 2020.02)

Since 2020.02 it is possible to edit sample values directly from the sample viewer. To enable this the sampleViewer needs its own configuration file with `<enableEditor>true</enableEditor>`. It is also possible to set a permission on the editing of sample data.

#### Sample Display Config

```
<sampleDisplay xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:
schemaLocation="http://www.wldelft.nl/fews https://fewsdocs.deltares.nl/schemas/version1.0/sampleDisplay.xsd">
  <enableEditor>true</enableEditor>
  <permissions>
    <editorPermission>beheerders</editorPermission>
  </permissions>
</sampleDisplay>
```

Make sure to also point towards this display in the explorer tasks with the same display config file name als the Sample Display config:

#### Sample Display Explorer Task

```
<explorerTask name="Monsterweergave">
  <iconFile>sample.png</iconFile>
  <mnemonic>M</mnemonic>
  <displayConfigFileName>SampleDisplay</displayConfigFileName>
  <toolbarTask>true</toolbarTask>
  <menubarTask>true</menubarTask>
  <accelerator>ctrl M</accelerator>
  <loadAtStartup>false</loadAtStartup>
</explorerTask>
```

When this is configured correctly there will be an extra right mouse menu option to delete a row from the sample:

Sampl Id	Locati Name	Param Group	Param Name	Commer	Taxon	Biotaxon	Waard	Groot	Hoeda	Analys	Waard	Param V
1	1	2	2	1	1	2	1	2	1	1	1	6
18-...	211...	Bed...	Bed...	Edited	Mac...	Nuphar lutea	NVT	Bed...	Niet...	Opp...	HH-	
18-...	211...	Bed...	Bed...		Mac...	Ceratophyllum demersum						
18-...	211...	Bed...	Bed...		Mac...							
18-...	211...	Bed...	Bed...		Mac...							
18-...	211...	Bed...	Bed...		Mac...							
18-...	211...	Bed...	Bed...		Mac...							
18-...	211...	Bed...	Bed...		Mac...							
18-...	211...	Bre...	Bre...		Mac...							

Filter for Selection

Delete selected record F1

Edit selected value F2

Remove Filter for Column F3

Remove all Filters F6

Sort Column F7

Show Editor F10

Show Spatial Display F11

Show Rating Curve F12

Show History

Edit comment

Copy TimeSeriesSet xml to Clipboard

Export to CSV

Values 9

Map Grafiek Monsterweergave

Log Erik Pelarim Current system time: 30-07-2021 10:00

And also an extra right mouse menu option to edit either the value of the time series or edit the value of a valueProperty:



Sampl Id	Locati Name	Param Group	Param Name	Commer	Taxon	Biotaxon	Waard	Groot	Hoeda	Analys	Waard	Param	Value
1	1	2	2	1	1	2	1	2	1	1	1	6	17
18-...	211...	Bed...	Bed...	Edited	Mac...	Nuphar lutea	NVT	Bed...	Niet...	Opp...	HH...		3
18-...	211...	Bed...	Bed...		Mac...	Ceratophyllum demersum	NVT	Bed...	Niet...	Opp...	HH...		1
18-...	211...	Bed...	Bed...		Mac...								0
18-...	211...	Bed...	Bed...		Mac...								0
18-...	211...	Bed...	Bed...		Mac...								5
18-...	211...	Bed...	Bed...		Mac...								0
18-...	211...	Bed...	Bed...		Mac...								5
18-...	211...	Bed...	Bed...		Mac...								1
18-...	211...	Bre...	Bre...		Mac...								17

An important thing to keep in mind is that deleting a value from the sample viewer cannot be undone via the sample viewer, but setting the value to a missing will.  
Since 2022.01 the option "Delete selected record until reimport" has been added, that also gives the possibility to reimport (an updated value of) this record.

Filter for Selection	Insert
Delete selected record	F1
Delete selected record until reimport	
Edit selected value	F2

Delete samples

Since 2021.02 samples can be deleted via the right mouse menu, this will also delete all values belonging to the sample.

For this editing must be enabled.

Start Time: 01-01-1900 01:

Time ^	Sample Id	Loca
11-07-2018 00:00:00	18-21095_WD95_OR ECO	21095 Woerden Wijkda
11-07-2018 00:00:00	18-21095_WD95	
11-07-2018 00:00:00	18-21296_HT296	
11-07-2018 00:00:00	18-21296_HT296	
25-07-2018 00:00:00	18-21230_IJ230_	
25-07-2018 00:00:00	18-21230_IJ230_	
Total: 20, Filtered: 20		
Sampl Id	Locati Name	Param Group

Select Time Series  
Filter Tree...  
Export Time Series  
Export time series of all samples  
Remove all Filters  
Remove Filter for Column  
Delete selected samples

Comments

Since 2021.01 it is also possible to view, add and edit comments directly from the table via the right mouse menu.

The comment column will appear automatically when at least 1 comment is present.

For this editing must be enabled.

Sampl Id	Locati Name	Param Group	Param Name	Commer	Taxo
1	1	2	2	1	1
18-...	211...	Bed...	Bed...	Edited	Macr
18-...	211...	Bed...	Bed...		Mac.
18-...	211...	Bed...	Bed...		Mac.
18-...	211...	Bed...	Bed...		Mac.
18-...	211...	Bed...	Bed...		Mac.
18-...	211...	Bed...	Bed...		Mac.
18-...	211...	Bed...	Bed...		Mac.

Values 9

Map
 Grafiek
 Monste

Logs Erik Pelgrim Current syste

Type here to search

Filter for Selection Insert  
 Delete selected record F1  
 Edit selected value F2  
 Remove Filter for Column F3  
 Remove all Filters F6  
 Sort Column F7  
 Show Editor F10  
 Show Spatial Display F11  
 Show Rating Curve F12  
 Show History  
 Edit comment  
 Copy TimeSeriesSet xml to Clipboard  
 Export to CSV

## Flags

Since 2021.01 flags are automatically shown (if present) in the Quality column, unreliable values are shown as missing in the Sample Viewer, but the value (if not a real missing) can be exported from the database:




Sample Id	Location Name	Parameter Group	Parameter Name	Comment	Compartment	Unit equivalent	Quantity	Value	Unit	Quality
2	1	1	2	3	1	2	1	3.671	1	2
Sample_1A	Lobith (Rijn)	Concentrat...	Phosphoru...	Unreliable	Surface wa...	expressed i...	Concentrat...		mg/l	unreliable
Sample_1B	Lobith (Rijn)	Concentrat...	Nitrogen C...	Doubtfull	Surface wa...	expressed i...	Concentrat...	3.671	mg/l	doubtful
Sample_1A	Lobith (Rijn)	Concentrat...	Nitrogen C...	Reliable	Surface wa...	expressed i...	Concentrat...	3.580	mg/l	
Sample_1B	Lobith (Rijn)	Concentrat...	Phosphoru...	Reliable	Surface wa...	expressed i...	Concentrat...	0.090	mg/l	

## History


Since 2021.01 the option to show the history of a value is also added to the right mouse menu

Sampl Id	Locatic Name	Param Group	Param Name	Commer	Tax
1	1	2	2	1	1
18-...	211...	Bed...	Bed...	Edited	Ma
18-...	211...	Bed...	Bed...		Ma
18-...	211...	Bed...	Bed...		Ma
18-...	211...	Bed...	Bed...		Ma
18-...	211...	Bed...	Bed...		Ma
18-...	211...	Bed...	Bed...		Ma
18-...	211...	Bed...	Bed...		Ma

Values 9


 Map
  Grafiek
  Mons

Logs Erik Pelgrim Current sy

 Type here to search

Filter for Selection Insert  
 Delete selected record F1  
 Edit selected value F2  
 Remove Filter for Column F3  
 Remove all Filters F6  
 Sort Column F7  
 Show Editor F10  
 Show Spatial Display F11  
 Show Rating Curve F12  
 Show History  
 Edit comment  
 Copy TimeSeriesSet xml to Clipboard  
 Export to CSV

This will show the history window in the same way as can be done via the Time Series Dialog:

 History 21112 BEDKG[%] (%) ACO\_39\*BN\_16917\*GH\_20\*HH\_492\*TT\_1\*WB\_1\*WP\_37 nonequidistant Impc

Modified at	Workflow/User	Value	Flag	Validation	Comments
05-11-2021 11:25:53	Erik Pelgrim	3	original reliable		Edited
30-07-2021 10:27:22	wf_Import_IMmetingen_Biologie	3	original reliable		