

# Survey123 Tricks of the Trade (Live) Create Report Templates

April 19, 2023



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# Survey123 Reports

- **Create custom PDF reports from your data**


- For compliance
- For documentation purposes
- To share information with stakeholders
- To print on paper

- **Reports are configurable**

- You decide what data will be included and how it should be presented
- Choose your headers, footers...
- Add tables, maps, photos, signatures...

- **Available in ArcGIS Online and Enterprise**

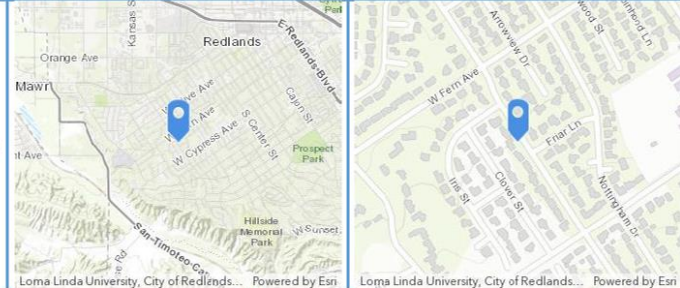
OKLAHOMA HIGHWAY PATROL Criminal Interdiction Report		
<b>CASE DETAILS</b>		
<b>Date:</b> Jul 19, 2019	<b>Time:</b> 11:39	<b>Military Time:</b> 1139 Hours
<b>Criminal Interdiction Case #:</b> CI-1563512400000-A	<b>OHP CR#:</b> CR-000123	<b>Interdiction Type:</b> Narcotic , Weapon Trafficking , Stolen Property , Financial Crimes , Fraudulant Documents , Wanted Person , Human Trafficking , Other
<b>Reason For Stop:</b>		





## Water Violation Report

Submitted by: Ismael on 07/19/2019 2:00 PM  
Date & time of violation: 07/19/2019 1:29 PM  
Offender present: Yes

Location



Violations: Assigned day violation  
Comments: Sprinklers on Friday. Assigned days are Tuesday, Wednesday, Saturday.  
Offender name: John Smith  
Offender email: jsmith@gmail.com



Donec aliquam leo vulputate, auctor urna sed dapibus. Maecenas sit amet egestas lectus metus, egestas vitae libero eu, pret. Donec vel felis efficitur, mattis risus pat odio. In dapibus enim ante, ut vehicula

ales libero, ut ullamcorper sapien. Morbi on. Vestibulum dapibus dictum mauris at ellentesque et metus consectetur. lacinia



# Survey123 Reports

- Create PDF reports from your survey data
  - For compliance
  - For documentation purposes
  - To share information with stakeholders
  - To print on paper
- Reports are configurable
  - You decide what data will be included and how it should be presented
  - Choose your headers, footers...
  - Add tables, maps, photos, signatures...
- Available in ArcGIS Online and Enterprise

3806-FM-8CW0021 122915 MS4 Outfall Field Screening Report

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER



**MS4 OUTFALL FIELD SCREENING REPORT**

BACKGROUND INFORMATION	
Permittee Name: Ismael Chivite	NPDES Permit No.: 9902
Date of Inspection: 04/17/2023	Outfall ID No.: 228909
Land Uses in Outfall Drainage Area (Select All):	Latitude: 117°11'42.8"W
<input checked="" type="checkbox"/> Industrial <input checked="" type="checkbox"/> Urban Residential	Longitude: 34°02'16.6"N
<input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Suburban Residential	Dry Weather Inspection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Open Space <input type="checkbox"/> Other:	Previous Precipitation: 04/02/2023
Inspector Name(s): Joe Adams, Paul Red	Previous Precipitation: 1.2 in

OUTFALL DESCRIPTION				
TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
Closed Pipe	Steel	Box	33in	With Sediment

Dry Weather Flow Present at Outfall During Inspection?  Yes  No

DRY WEATHER FLOW EVALUATION	
Does the dry weather flow contain color? Yes	Brown
Does the dry weather flow contain an odor? No	
Is there an observed change in the receiving waters as a result of the discharge? No	
Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? No	

DRY WEATHER FLOW PHOTOS	
 Filename: OutfallID__228909_230417_001.jpg	 Filename: OutfallID__228909_230417_001.jpg

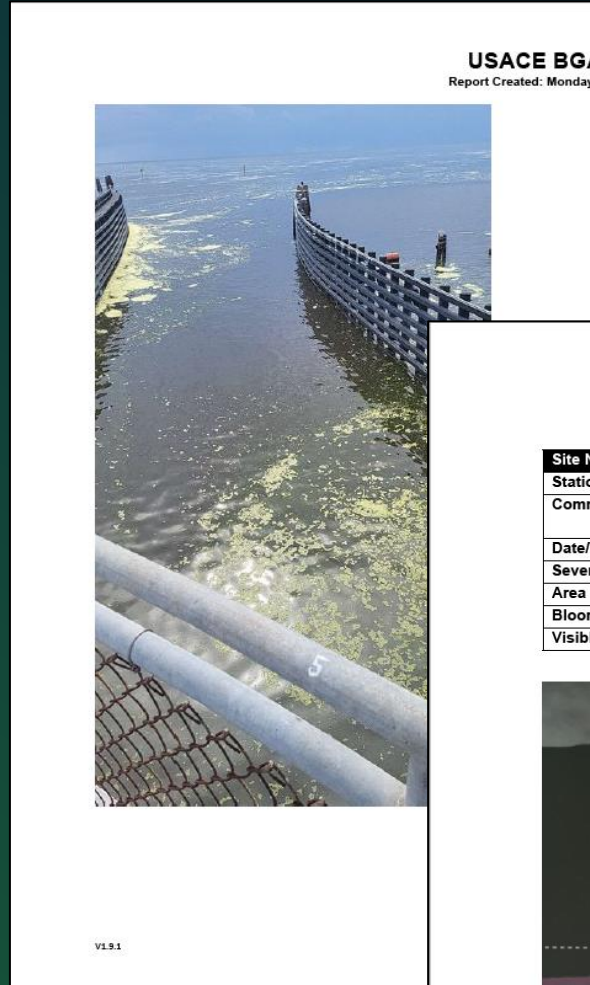
RESPONSIBLE OFFICIAL CERTIFICATION	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa C.S. 4904 (relating to unsworn falsification).	
Responsible Official Name	Signature



# Example: Daily Structure Algae Report

Courtesy of Laci Ursu, SFWMD (South Florida Water Management District)

- Algae presence across Florida waterways is documented daily using Survey123
- PDF reports are created and shared automatically with stakeholders.
- Report on the side for April 17, 2023:
  - The initial page includes a summary
  - Then detailed info including maps and photos is included for every site



## USACE BGA Report

Report Created: Monday, April 17, 2023

### Corps Operators Daily Structure Algae Report

Site	Station	Date/Time 24hr	Visible BGA	Bloom Index
S308C	Port Mayaca Lock	4/16/23 16:27	Yes	12
S308C	Port Mayaca Lock	4/17/23 08:17	Yes	1
S77	Lake and canal	4/17/23 14:25	No	0
S78	Ortona Lock	4/17/23 07:45	No	0
S79	S79- Franklin Lock - Upper Stream	4/17/23 09:44	No	0

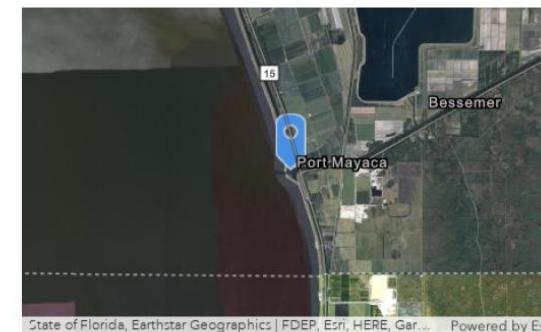
		Severity			
Area	Bloom Index	None Visible	Low	Mod	High
			0	1	2
None Visible	0	0	0	0	0
Car	1	0	1	2	3
Basketball Court	2	0	2	4	6
Football Field	3	0	3	6	9
Larger than Football Field	4	0	4	8	12

Bloom Index (Area \* Severity = Bloom Index)

## USACE BGA Report

Report Created: Monday, April 17, 2023


Site Name	S308C
Station Name	Port Mayaca Lock
Comments	
Date/Time 24hr	4/16/23 16:27
Severity	3-High - dense algal particles or floating mats, clearly visible in
Area	4-Larger than Football Field
Bloom Index	12
Visible BGA	Yes



# Example: Solid Waste Field Inspection Report

Courtesy of Arizona Department of Environmental Quality


- Solid Waste Field Inspection reports conducted with the Survey123 mobile app
- PDF reports strictly follow requirements from the Arizona Department of Environmental Quality
- Report on the side:
  - Custom headers
  - Information organized in tables
  - Signatures
  - Photos



**ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
Douglas A. Doney  
Governor

**Solid Waste Field Inspection**

Company Name: [REDACTED]	Inspection 1
Facility Name: [REDACTED]	Responsible
Place ID: 33221	Responsible
Physical Location: [REDACTED] Phoenix, AZ 85041	Inspector(s)
County: Maricopa	Arrival Date
Mailing Address: [REDACTED] Phoenix, AZ 85041	Place Type: Site
<b>Onsite Contact Information</b>	<b>Reason for</b>
• Name, Title: [REDACTED] tor	<input checked="" type="checkbox"/> Routine
• Phone No.: [REDACTED]	<input type="checkbox"/> Compliance
• E-Mail: [REDACTED]	<input type="checkbox"/> Follow-up
	<input type="checkbox"/> Compliance
	<input type="checkbox"/> Other: Con
	<input type="checkbox"/> Other:
<b>Inspection Report Issued: Field Issued Inspection Report</b>	<b>Facility Info</b>
<b>Results of Inspection:</b>	
<input checked="" type="checkbox"/> No deficiencies were noted during the course of the inspection. No AI	
<input type="checkbox"/> Potential deficiencies were noted during the course of the inspection. An inspection may be forthcoming.	
<input type="checkbox"/> Follow-up action is needed; please submit the requested documentation	
<b>Summary of Inspection:</b>	
<b>Attachments:</b>	
Inspection Checklist, WTCS/OUTS, ,	



**ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NOTICE OF FACILITY INFORMATION**

**Facility Name (Customer):** [REDACTED]

**Facility Location (Place):** [REDACTED], Phoenix, AZ 85041

**Mailing Address:** [REDACTED] Phoenix, AZ 85041

**Responsible Party:** [REDACTED]

**On-Site Representative:** [REDACTED]

**Title:** Operator

**Telephone:** [REDACTED]

**Email:** [REDACTED]

The ADEQ representative(s) identified above was/were present at the above site on [REDACTED] and with me, presented photo identification indicating the purpose of the inspection is to determine:

Compliance with Title 49 of the Arizona Revised Statutes, Title 18 of the Arizona Revised Statutes, Title 44, Chapter 9 & Title 49, Chapter 13, Arizona Administrative Code, Title 18, Chapter 13 Permit/Agreement Number: [REDACTED]

Qualification for a license issued pursuant to: Arizona Revised Statutes, Title 44, Chapter 9 & Title 49, Chapter 13, Arizona Administrative Code, Title 18, Chapter 13

That this inspection is conducted pursuant to the authority granted in Arizona Revised Statutes, Title 49, Chapter 1 & Title 49, Chapter 13, Arizona Administrative Code, Title 18, Chapter 13 Permit/Agreement Number: [REDACTED]

That the state shall not be bound by the statutes of limitations of act 329 concerning certain claims based on navigability of watercourses. Action taken within 5 years after the date the claim first accrued.

Possible applicability of Small Business Bill of Rights pursuant to A.R.S. § 40-201.01.

**That the fee for this inspection is:** No fee for the inspection.

The Arizona Revised Statutes (A.R.S.) can be found on the internet, [www.azleg.gov](http://www.azleg.gov) while the Arizona Administrative Code (A.A.C.) can be found at [www.azstate.gov/public\\_services/13036\\_of\\_Content1.htm](http://www.azstate.gov/public_services/13036_of_Content1.htm)

While I have the right to refuse to sign this form, the ADEQ representative(s) may proceed with this inspection.

I have read this notice and discussed any questions or concerns with the ADEQ representative(s) and I have received the Small Business Bill of Rights.

[Signature]

Signature of Regulated Person or Authorized On-Site Representative

Mar 19, 2020

Date

The regulated person or authorized on-site representative refused to sign.

[Signature]

Name of Regulated Person or Authorized On-Site Representative

Operator

Title

The regulated person or an authorized on-site representative was not present at the facility.

[Signature]

Signature of ADEQ Representative

Mar 19, 2020

Date

**Site Location:** [REDACTED]

**Date:** Mar 19, 2020

**Photographer:** [REDACTED]

**RFID No.:** 79198

**Place ID No.:** 33221

**Photo No.:** 1

**Photo Description:** Main entrance with "No Smoking" 0.26MB



**Site Location:** [REDACTED]

**Date:** Mar 19, 2020

**Photographer:** Justyna\_Beach

**RFID No.:** 79198

**Place ID No.:** 33221

**Photo No.:** 2

**Photo Description:** "No smoking" sign and fire extinguisher. 0.23MB



# Survey123 reports

Live quick tour





# Survey123 Reports in ArcGIS Online

- The Survey123 report service is a Premium service hosted in ArcGIS Online
- Creating reports costs credits

# Survey123 Reports in ArcGIS Enterprise

- The Survey123 report service is NOT included\* with ArcGIS Enterprise, but...
- You can have your Enterprise data be used by the ArcGIS Online report service
  - Hosted feature layers as well as layers from multi-user geodatabases
  - There is NO ArcGIS Online credit cost for Enterprise customers
- Limitations: IWA not supported. Your Web Adaptor must be accessible over the internet

\* Including the Survey123 report service in ArcGIS Enterprise is in the road map for late 2024



# Agenda

- Introducing Survey123 reports
- Report syntax: The Basics
- Report syntax: Repeats and conditional visibility
- A few tips and live Q&A



# Survey123 report syntax

- Survey123 report templates are created using Microsoft Word
- Set the headers, footers and add static content
- Survey123 report syntax is used to:
  - Insert dynamic content that will feed from your data
  - Create conditional visibility rules in your report
  - Configure repeatable blocks of content
- Report templates need to be syntactically correct
- You need to upload your template to check its syntax
- You can create report previews in PDF format for free

Dynamic content

City of Gilantro Water Department  
3030 Basil st, OR, 22090. USA



## Water Hydrant Report

General Characteristics	
Asset ID: <code>{asset_id}</code>	Address: <code>{address}</code>
Owner: <code>{owner}</code>	Type: <code>{hydrant_type}</code>
Status: <code>{last_status}</code>	
<code>{location   size:620:400   map:"4d2f569d1ed84c11b6abb7ce809f85aa"   mapScale:5000}</code>	
Installed on: <code>{install_date}</code>	Last Inspection: <code>{last_inspection_date}</code>

Inspections		
Date	Status	Comments
<code>{#inspections} {inspection_date}</code>	<code>{status}</code>	<code>{comments}{/}</code>

Repeatable section with dynamic content



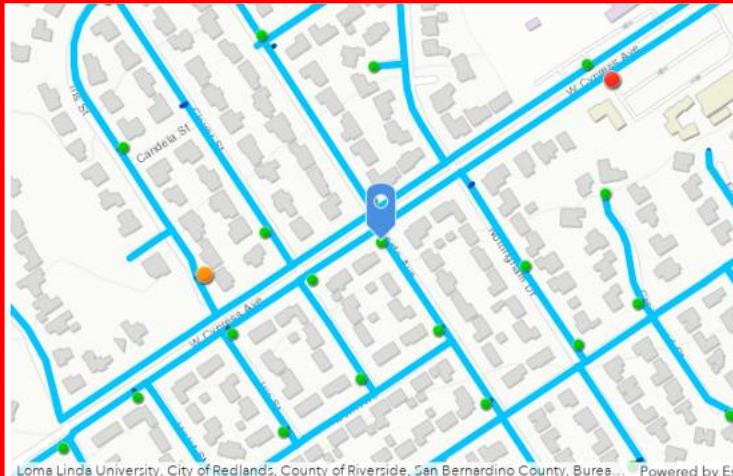
## Water Hydrant Report

General Characteristics	
Asset ID: <code>\$(asset_id)</code>	Address: <code>\$(address)</code>
Owner: <code>\$(owner)</code>	Type: <code>\$(hydrant_type)</code>
Status: <code>\$(last_status)</code>	
<code>\$(location   size:620:400   map:"4d2f569d1ed84c11b6abb7ce809f85aa"   mapScale:5000)</code>	
Installed on: <code>\$(install_date)</code>	Last Inspection: <code>\$(last_inspection_date)</code>

Inspections		
Date	Status	Comments
<code>\$(#inspections)</code>	<code>\$(status)</code>	<code>\$(comments)\$(/)</code>
<code>\$(inspection_date)</code>		



## Water Hydrant Report

General Characteristics	
Asset ID: <code>2141</code>	Address: 220 Lakeside Ave
Owner: Public	Type: Dry Barrell - Slide-Gate
Status: Good	
	
Installed on: June 5, 2020	Last Inspection: February 20, 2023

Inspections		
Date	Status	Comments
January 12, 2020	Needs Repair	Missing caps. Needs paint.
February 20, 2023	Good	



# Simple attribute expressions

## `#{comments}`

Extracts the value of the *comments* field from a record

Tip: The font formatting (size, color...) of the \$ sign is applied to the value inserted in the output report





# Simple attribute expressions

**`#{comments}`**

Extracts the value of the *comments* field from a record and **the output font color will be red**

Tip: The font formatting (size, color...) of the \$ sign is applied to the value inserted in the output report



# Simple attribute expressions

**\$**{comments}

Extracts the value of the *comments* field from a record and the output font color will be blue, italics and **BIG**

Tip: The font formatting (size, color...) of the \$ sign is applied to the value inserted in the output report



# Methods

`${hor_accuracy | round:2}`

Extracts the value of the *hor\_accuracy* field and rounds it to 2 decimal places







# Methods

```
${installDate | locale:"de"}
```

Extracts the value of *installDate* using German locale

If no locale is specified, the locale of the user in the ArcGIS profile is used, if missing the org's locale.





# Multiple Methods

```
${price | round:2 | locale:"es"}
```

Extracts the value of the *hor\_accuracy* field, rounds it to 2 decimal places and applies Spanish locale

Tip: You can add multiple modifiers



# Working with time (Highlights)

Gets the time and applies an UTC offset. Highly recommended to always set it.

```
${observ_time | utcOffset:"+08:00"}
```

```
${observ_time | locale:"fr" | utcOffset:"+08:00"}
```

Time with UTC offset plus locale



# Working with lists (Highlights)

Returns a checked checkbox if *Industrial* is selected

```
#{landUses | checked:"Industrial"}
```

BACKGROUND INFORMATION	
Permittee Name: Ismael Chivite	NPDES Permit No.: 9902
Date of Inspection: 04/17/2023	Outfall ID No.: 228909
Land Uses in Outfall Drainage Area (Select All):	Latitude: 117°11'42.8"W
<input checked="" type="checkbox"/> Industrial	Longitude: 34°02'16.6"N
<input checked="" type="checkbox"/> Commercial	Dry Weather Inspection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Open Space	Previous Precipitation: 04/02/2023
<input checked="" type="checkbox"/> Urban Residential	Previous Precipitation: 1.2 in
<input type="checkbox"/> Suburban Residential	
<input type="checkbox"/> Other:	

## Working with maps (Highlights)

Returns a map centered at the *outfall\_location*. Size will be 400 width x 300 height.

```
{outfall_location | size:400:300}
```

Other useful methods:

```
| mapScale:1000
```

```
| map: "10df2279f9684e4a9f6a7f08febac2a9"
```

For the map scale, do not add thousand separators. The map modifier takes a web map item id

# Working with photos and signatures (Highlights)

Returns a photo. Size will be 400 width.  
Height will be set dynamically to preserve the aspect ratio

```
#{photo | size:400:0}
```

```
#{photo | size:400:600}
```

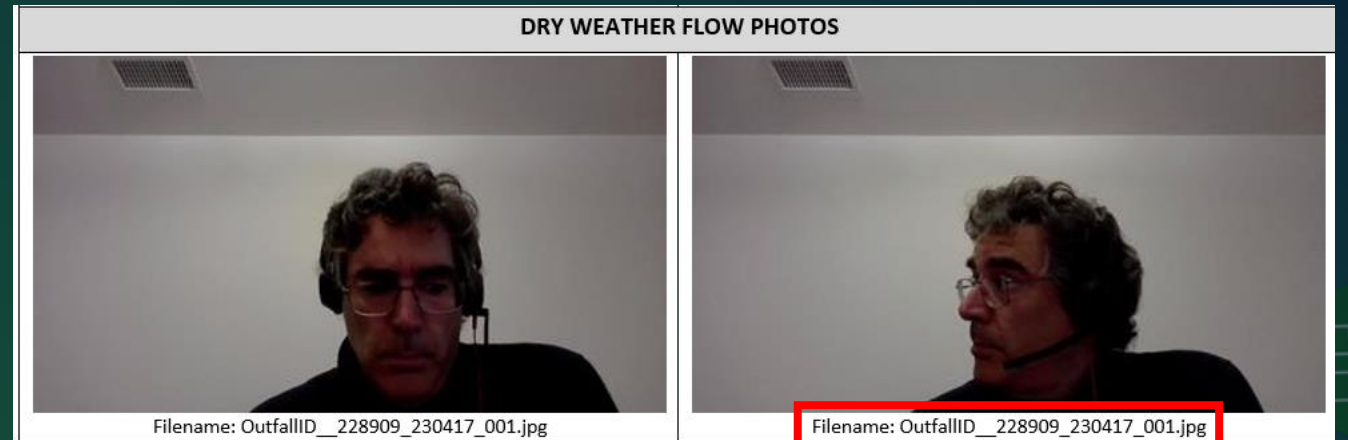
Returns a photo. Size will be 400 width and 600 in height.



# Working with photos and signatures (Highlights)

Returns the image file name

```
${photo1 | getValue: "name"}
```



DRY WEATHER FLOW PHOTOS	
<code>\${photo1   size:365:0}</code> Filename: <code>\${photo1   getValue:"name"}</code>	<code>\${photo2   size:365:0}</code> Filename: <code>\${photo1   getValue:"name"}</code>



## Working with photos (Highlights)

Returns the direction (azimuth) of the photo (if present in the photo EXIF)

```
${photo | getValue:"direction"}
```

```
${photo | getValue:"time"}
```

Returns the time when the photo was taken (if present in the photo EXIF)  
Date and time outputs cannot be formatted

### Other values:

- date
- time
- direction
- x, y, width, height, and size

# Survey123 creates report syntax help dynamically

MS4 v3 - Report quick reference

Filter questions

▼ Background Information

- Permittee Name:
- NPDES Permit No:
- Date Of Inspection:
- Outfall ID No:
- Land Uses In Outfall Drainage Area:
- Inspector Names:
- Outfall location:
- Specify other:
- Dry Weather Inspection?
- Date Of Previous Precipitation:
- Amount Of Previous Precipitation:

▼ Outfall Description:

- Outfall Description:
- OutfallMaterial
- OutfallShape

This page provides examples of syntax that can be used in your report template.

**Syntax examples that you can copy**

Survey layer name: MS4\_v3  
The survey layer name is used for statistics or to iterate records in this layer.

- Permittee Name:**  
The following syntax returns the value as text.  
\${Outfall\_Permittee}
- NPDES Permit No:**  
The following syntax returns the value as text.  
\${Outfall\_PermitNO}
- Date Of Inspection:**  
The following syntax returns the date in the default format.  
\${Inspection\_Date}

Additional syntax	Description
\${Inspection_Date   format:"MM/DD/YYYY"}	Returns the date in the specified format. For example, 08/15/2008.
\${Inspection_Date   format:"YYYY"}	Returns 4-digit year. For example, 1970.

List of questions in your survey

# Report Syntax I

Live demo





# Agenda

- Introducing Survey123 reports
- Report syntax: The Basics
- Report syntax: Repeats and conditional visibility
- A few tips and live Q&A



# Repeat blocks

Use a `${#LayerName}... ${/}` block to iterate over multiple records in a repeat

```
${#inspections} ID:${asset_id} Condition:${condition}${/}
```



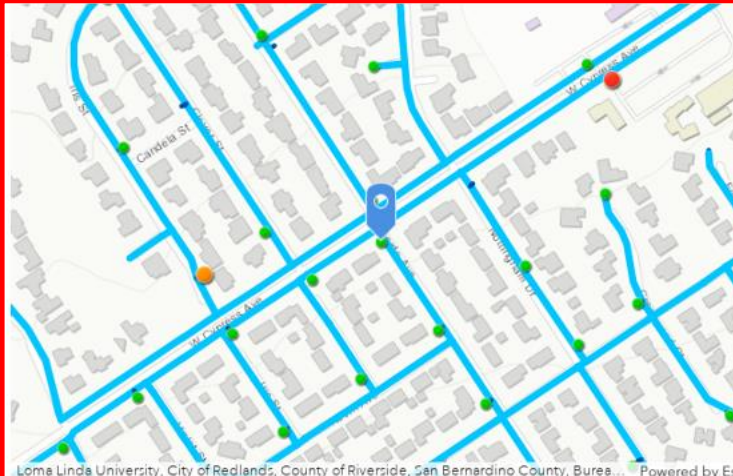
## Water Hydrant Report

General Characteristics	
Asset ID: <code>\$(asset_id)</code>	Address: <code>\$(address)</code>
Owner: <code>\$(owner)</code>	Type: <code>\$(hydrant_type)</code>
Status: <code>\$(last_status)</code>	
<code>\$(location   size:620:400   map:"4d2f569d1ed84c11b6abb7ce809f85aa"   mapScale:5000)</code>	
Installed on: <code>\$(install_date)</code>	Last Inspection: <code>\$(last_inspection_date)</code>

Inspections		
Date	Status	Comments
<code>\$(#inspections)</code>	<code>\$(status)</code>	<code>\$(comments)\$(/)</code>
<code>\$(inspection_date)</code>		



## Water Hydrant Report

General Characteristics	
Asset ID: <code>2141</code>	Address: 220 Lakeside Ave
Owner: Public	Type: Dry Barrell - Slide-Gate
Status: Good	
	
Installed on: June 5, 2020	Last Inspection: February 20, 2023

Inspections		
Date	Status	Comments
January 12, 2020	Needs Repair	Missing caps. Needs paint.
February 20, 2023	Good	

# Repeat blocks

Use a `${#LayerName}... ${/}` block to iterate over multiple records in a repeat

```
${#defects} Priority: ${priority} Assigned to:${technician}  
Asset ID: ${assetLayer.asset_id}${/}
```

Note: It is expected that the *priority* and *technician* fields exist within the defects layer  
Do you need to display data from the parent record within a repeat? Then use a fully qualified attribute name.  
For example: `hydrant.asset_id` (layername.fieldname)

# Repeat blocks

Use the *orderByFields* method to sort records in a repeat

```
${#defects | orderByFields:"dueDate DESC"} Priority: ${priority}  
Assigned to:${technician}${/}
```

You can also filter records in the repeat with the *where* method

```
${#defects | where:"condition='Needs repair'"} Priority: ${priority}  
Assigned to:${technician}${/}
```

As usual, you can combine multiple methods. For example, *orderByFields* and *where*

Learn more in the help: [Repeats section in Report Templates topic](#)



# Report Syntax II

Live demo



# Conditional report elements

Use the if statement to dynamically show and hide sections of your report

```
if{ priority | selected:"High"} High priority issues must be addressed within seven days. ${/}
```

If priority is high, a brief static message is displayed

# Conditional report elements

Use the if statement to dynamically show and hide sections of your report

ILLICIT DISCHARGES	
Is the dry weather flow an illicit discharge?	<code> \${Illicit   checked:"Yes"}Yes  \${Illicit   checked:"No"}No</code>
<code> \${if Illicit   selected:"Yes"}Describe corrective actions taken by the permittee in response to the finding of an illicit discharge:  \${Corrective   appearance:"multiline"}  \${/}</code>	
Inspector comments:	<code> \${Comments   appearance:"multiline"}</code>

If illicit, a brief static message is displayed followed by dynamic content from the corrective question.

# Conditional report elements

<b><code>#{if Dry_Weather_Flow   selected:"Yes"}</code> DRY WEATHER FLOW EVALUATION</b>	
Does the dry weather flow contain color? <code>#{Dry_Weather_Flow}</code>	<code>#{Flow_Color_Desc}</code>
Does the dry weather flow contain an odor? <code>#{Flow_Odor}</code>	<code>#{Flow_Odor_Desc}</code>
Is there an observed change in the receiving waters as a result of the discharge? <code>#{Observed_Change_On_Discharge}</code>	<code>#{Floating_Solids_Desc}</code>
Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? <code>#{Floating_Solids}</code>	<code>#{Floating_Solids_Desc}</code>
<b><code>#{/}</code> RESPONSIBLE OFFICIAL CERTIFICATION</b>	

The Dry Weather Flow Evaluation section is only shown if `Dry_Weather_Flow` is Yes



# Agenda

- Introducing Survey123 reports
- Report syntax: The Basics
- Report syntax: Repeats and conditional visibility
- A few tips and live Q&A



# Tip 1: Start with a complete report, and insert report syntax in it

3800-FM-BCW0521 12/2015 COMMONWEALTH OF PENNSYLVANIA  
MS4 Outfall Field Screening Report DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

**MS4 OUTFALL FIELD SCREENING REPORT**

BACKGROUND INFORMATION				
Permittee Name: _____		NPDES Permit No.: PA-_____		
Date of Inspection: _____		Outfall ID No.: _____		
Land Uses in Outfall Drainage Area (Select All):		Latitude: _____		
<input type="checkbox"/> Industrial	<input type="checkbox"/> Urban Residential	Longitude: _____		
<input type="checkbox"/> Commercial	<input type="checkbox"/> Suburban Residential	Dry Weather Inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Open Space	<input type="checkbox"/> Other: _____	Date of Previous Precipitation: _____		
Inspector Name(s): _____		Amount of Previous Precipitation: _____ in		
		Were Photographs Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No		
		Are Photographs Attached? <input type="checkbox"/> Yes <input type="checkbox"/> No		
OUTFALL DESCRIPTION				
TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other	<input type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other <input type="checkbox"/> Other	Diameter: _____ in	<input type="checkbox"/> In Water <input type="checkbox"/> With Sediment
<input type="checkbox"/> Open Channel	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-Rap <input type="checkbox"/> Other	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	
Dry Weather Flow Present at Outfall During Inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No (If No, skip to Certification Section)				
Description of Flow Rate: <input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Significant <input type="checkbox"/> N/A				
DRY WEATHER FLOW EVALUATION				
Does the dry weather flow contain color? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide a description below. _____				
Does the dry weather flow contain an odor? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide a description below. _____				
Is there an observed change in the receiving waters as a result of the discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide a description below. _____				
Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide a description below. _____				

- 1 -

3800-FM-BCW0521 12/2015 COMMONWEALTH OF PENNSYLVANIA  
MS4 Outfall Field Screening Report DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

**MS4 OUTFALL FIELD SCREENING REPORT**

BACKGROUND INFORMATION				
Permittee Name: \${Outfall_Permittee}		NPDES Permit No.: \${Outfall_PermitNO}		
Date of Inspection: \${Inspection_Date   format:"MM/DD/YYYY"}		Outfall ID No.: \${Outfall_ID}		
Land Uses in Outfall Drainage Area (Select All):		Latitude: \${LatDMS}		
<input type="checkbox"/> Industrial		Longitude: \${LongDMS}		
<input type="checkbox"/> Urban Residential		Dry Weather Inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Commercial		Date of Previous Precipitation: \${Previous_Precip   format:"MM/DD/YYYY"}		
<input type="checkbox"/> Suburban Residential		Amount of Previous Precipitation: \${Previous_Precip_Amount   round:1} in		
<input type="checkbox"/> Open Space		Were Photographs Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Other: \${LandUse_Other}		Are Photographs Attached? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Inspector Name(s): \${InspectorN}				
OUTFALL DESCRIPTION				
TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
\${OutfallDes}	\${OutfallMaterial}	\${OutfallShape}	\${Dimensions}	\${PipeSubmer}
Dry Weather Flow Present at Outfall During Inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No				
<b>DRY WEATHER FLOW EVALUATION</b>				
Does the dry weather flow contain color? \${Dry_Weather_Flow}		\${Flow_Color_Desc}		
Does the dry weather flow contain an odor? \${Flow_Odor}		\${Flow_Odor_Desc}		
Is there an observed change in the receiving waters as a result of the discharge? \${Observed_Change_On_Discharge}		\${Floating_Solids_Desc}		
Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? \${Floating_Solids}		\${Floating_Solids_Desc}		
DRY WEATHER FLOW PHOTOS				
<b>\$(if photo1)\${photo1   size:365:0}</b> Filename: \${photo1   getValue:"name"}:S/U		<b>\$(if photo2)\${photo2   size:365:0}</b> Filename: \${photo1   getValue:"name"}:S/U		
<b>\$(if photo3)\${photo3   size:365:0}</b> Filename: \${photo2   getValue:"name"}:S/U		<b>\$(if photo4)\${photo4   size:365:0}</b> Filename: \${photo4   getValue:"name"}:S/U		

# Tip 2: Use the quick reference to copy common syntax

MS4 v3 - Report quick reference

Filter questions

Background Information

- Permittee Name:
- NPDES Permit No:
- Date Of Inspection:
- Outfall ID No:
- Land Uses In Outfall Drainage Area:
- Inspector Names:
- Outfall location:
- Specify other:
- Dry Weather Inspection?
- Date Of Previous Precipitation:
- Amount Of Previous Precipitation:

Outfall Description:

- Outfall Description:
- OutfallShape

This page provides examples of syntax that can be used in your report template. [Learn more](#)

**Syntax examples that you can copy**

Survey layer name: MS4\_v3  
The survey layer name is used for statistics or to iterate records in this layer.

- Permittee Name:**  
The following syntax returns the value as text.  
`\${Outfall\_Permittee}`
- NPDES Permit No:**  
The following syntax returns the value as text.  
`\${Outfall\_PermitNO}`
- Date Of Inspection:**  
The following syntax returns the date in the default format.  
`\${Inspection\_Date}`

Additional syntax	Description
<code>\${Inspection_Date   format:"MM/DD/YYYY"}</code>	Returns the date in the specified format. For example, 08/15/2008.
<code>\${Inspection_Date   format:"YYYY"}</code>	Returns 4-digit year. For example, 1970.

List of questions in your survey

# Tip 3: Check syntax often while authoring your template

123 My surveys Organization Help

### Manage Templates

A report template defines the layout and content of your report. You can associate multiple report templates with this survey. Templates are available to all users who can view the results of this survey.

A report template is a Microsoft Word file (.docx) that provides placeholder text with specific syntax. When printing a report, this placeholder text is replaced with the contents of the corresponding fields from the survey response. [Learn more about report templates](#)

[+ New template](#) [Quick reference](#) [Download sample template](#)

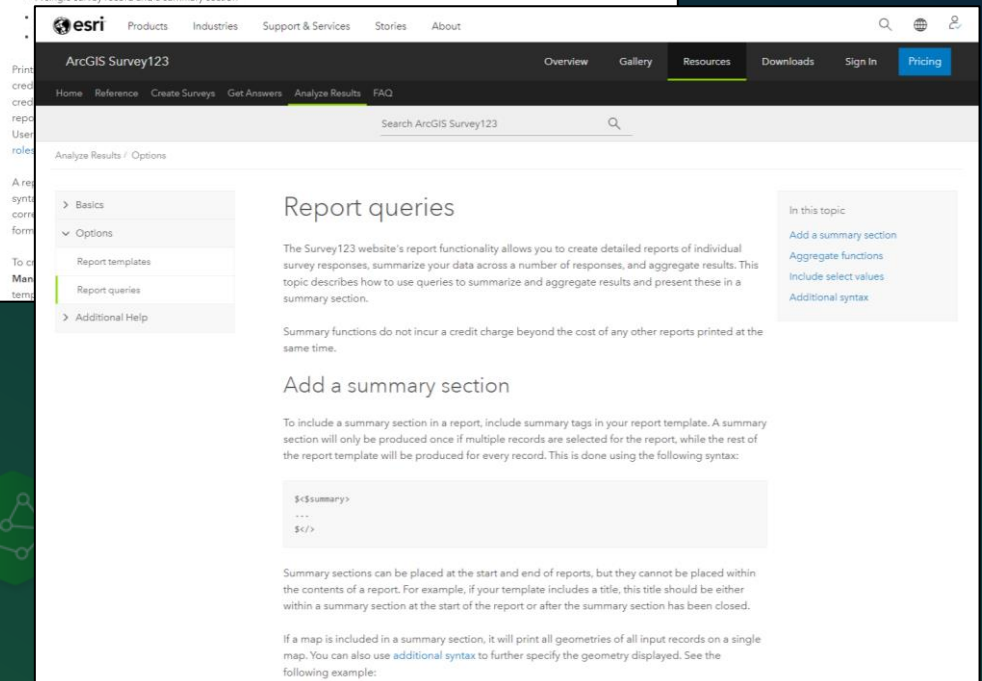
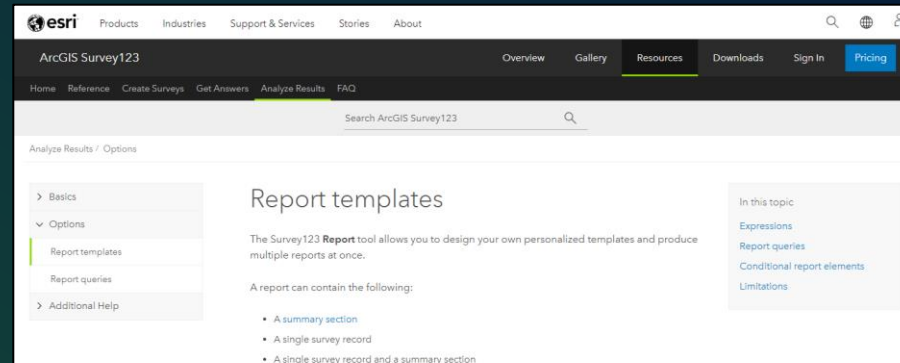
Template name	Last modified	Operations
Individual Report v4	Apr 18, 2023	
Summary Report	Apr 18, 2023	
Individual Report	Apr 17, 2023	

Installation



# Tip 4: Learn from the help, blogs and samples

- [Report syntax help](#)
- QuickReference
- Blogs:
  - [Understanding Feature Reports](#)
  - [Summary Sections](#)
- Connect samples with templates



# Tip 4: Learn from the help, blogs and samples

- [Report syntax help](#)
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  - [Understanding Feature Reports](#)
  - [Summary Sections](#)
- Connect samples with templates

MS4 v3 - Report quick reference

Filter questions

▼ Background Information

- ☞ Permittee Name:
- ☞ NPDES Permit No:
- ☞ Date Of Inspection:
- ☞ Outfall ID No:
- Land Uses In Outfall Drainage Area:
- Inspector Names:
- ☞ Outfall Location:
- ☞ Specify other:
- Dry Weather Inspection?
- ☞ Date Of Previous Precipitation:
- ☞ Amount Of Previous Precipitation:

▼ Outfall Description:

- Outfall Description:
- Pipe Submerged:
- ☞ OutfallMaterial
- ☞ OutfallShape

This page provides examples of syntax that can be used in your report template. [Learn more about report template syntax](#)

Survey layer name: MS4\_v3  
The survey layer name is used for statistics or to iterate records in this layer.

- **Permittee Name:**  
The following syntax returns the value as text.  
\${Outfall\_Permittee}
- **NPDES Permit No:**  
The following syntax returns the value as text.  
\${Outfall\_PermitNO}
- **Date Of Inspection:**  
The following syntax returns the date in the default format.  
\${Inspection\_Date}

Additional syntax	Description
`\${Inspection_Date   format:"MM/DD/YYYY"}`	Returns the date in the specified format. For example, 08/15/2008.
`\${Inspection_Date   format:"YYYY"}`	Returns 4-digit year. For example, 1970.

# Tip 4: Learn from the help, blogs and samples


- [Report syntax help](#)
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- Connect samples with templates

Home > All Communities > Products > ArcGIS Survey123 > ArcGIS Survey123 Blog  
> Survey123 Tricks of the Trade: Summary sections in...

## Survey123 Tricks of the Trade: Summary sections in reports

11354 19 08-26-2020 09:49 AM

Subscribe

by IsmaelChivite  Esri Notable Contributor

The original release of the Survey123 report capabilities allowed you to view individual records. With each Survey123 update, you build better reports. In this blog, I want to explain how you can use the [July 2020 update](#). The content of the blog is not just about creating your own report templates. If not, I suggest you read the following:


- [ArcGIS Survey123: Create Feature Reports](#)
- <https://community.esri.com/groups/survey123-reports> A 15 minute read.

Summary sections are generally used to create a report that is commonly referred to as a 'summary report'. This blog post illustrates this concept. Note that tables are used to display data inspected within a certain period. You can click on the following link to see a sample report.

Home > All Communities > Products > ArcGIS Survey123 > ArcGIS Survey123 Blog  
> Understanding Survey123 Feature Reports

## Understanding Survey123 Feature Reports

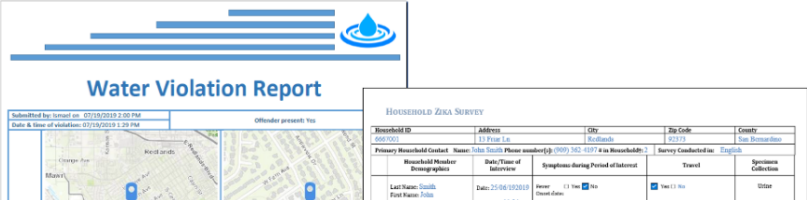
39389 77 07-23-2019 02:10 PM

by IsmaelChivite  Esri Notable Contributor

Post Options ▾

Survey123 includes out of the box functionality to help you generate high quality documents out of submitted surveys. This is extremely useful when you need to present your survey123 data following strict formatting guidelines, for example when mimicking legacy paper forms or to comply with legal documents.

In this blog post I will describe how you can configure this feature report functionality against your own surveys, defining the content and look & feel of your own feature reports.



The image shows a sample 'Water Violation Report' document. It includes a header with a blue bar and a water drop icon. Below the header, there is a map showing a location in Chicago, IL. To the right of the map is a table with the following data:

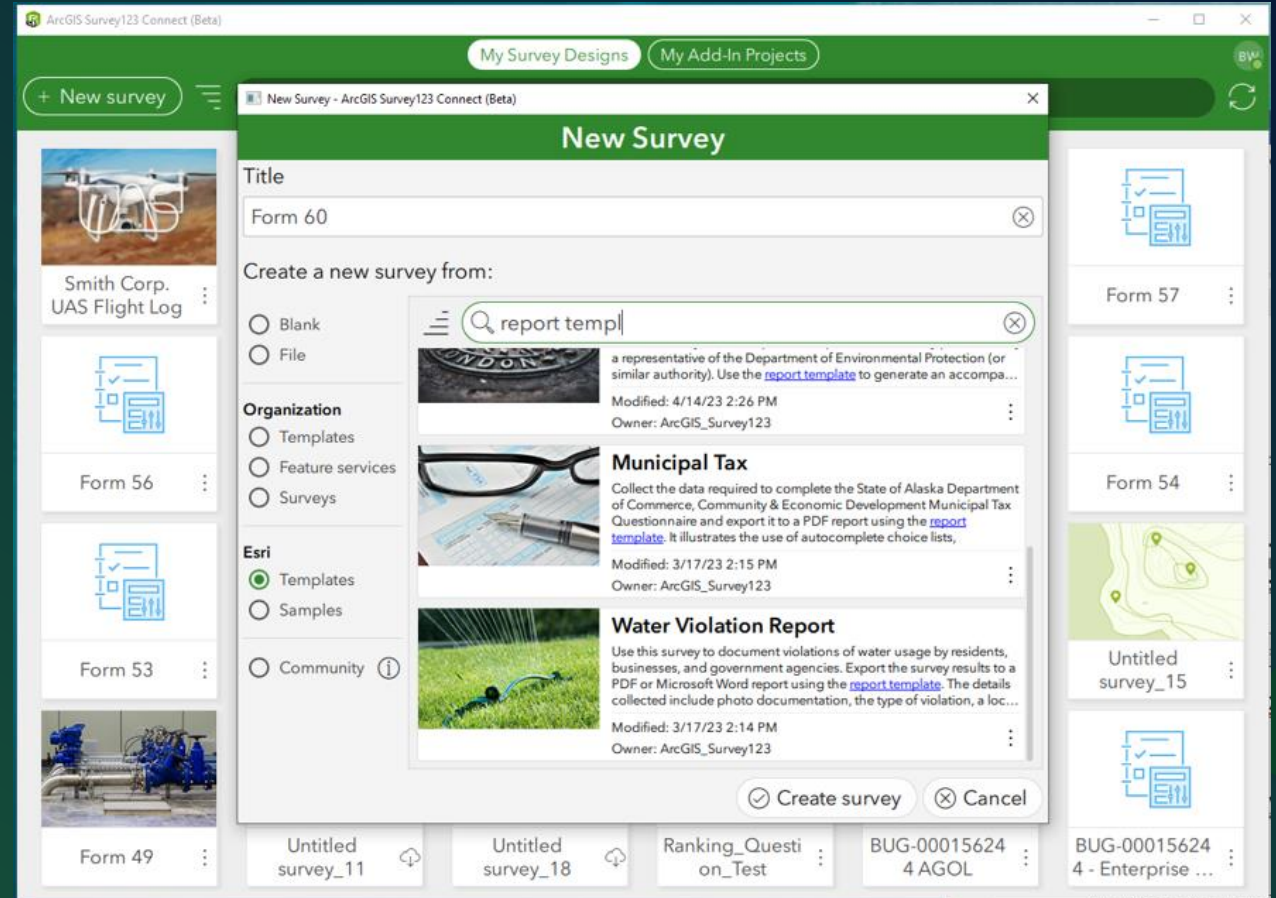
Household ID	Address	City	Zip Code	County
000001	111 First St.	Rockdale	60573	Stp. Bernard

Below the table, there is another table with the following data:

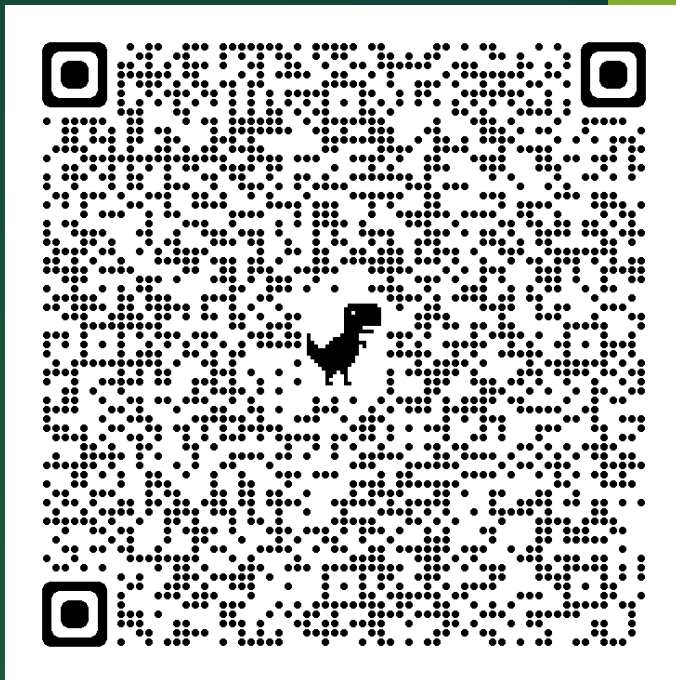
Household Member Demographics	Date/Time of Interview	Symptoms during Period of Interest	Travel	Specimen Collection
Last Name: Smith First Name: John	Date: 25/08/2019 Time: 11:30	None	Yes	None

# Tip 4: Learn from the help, blogs and samples

- [Report syntax help](#)
- QuickReference
- Blogs:
  - [Understanding Feature Reports](#)
  - [Summary Sections](#)
- Connect samples with templates



Don't miss our next Tricks of the Trade session next week



LIVE STREAM

## ArcGIS Survey123 Tricks of the Trade: Automate Your Reports

April 26, 2023

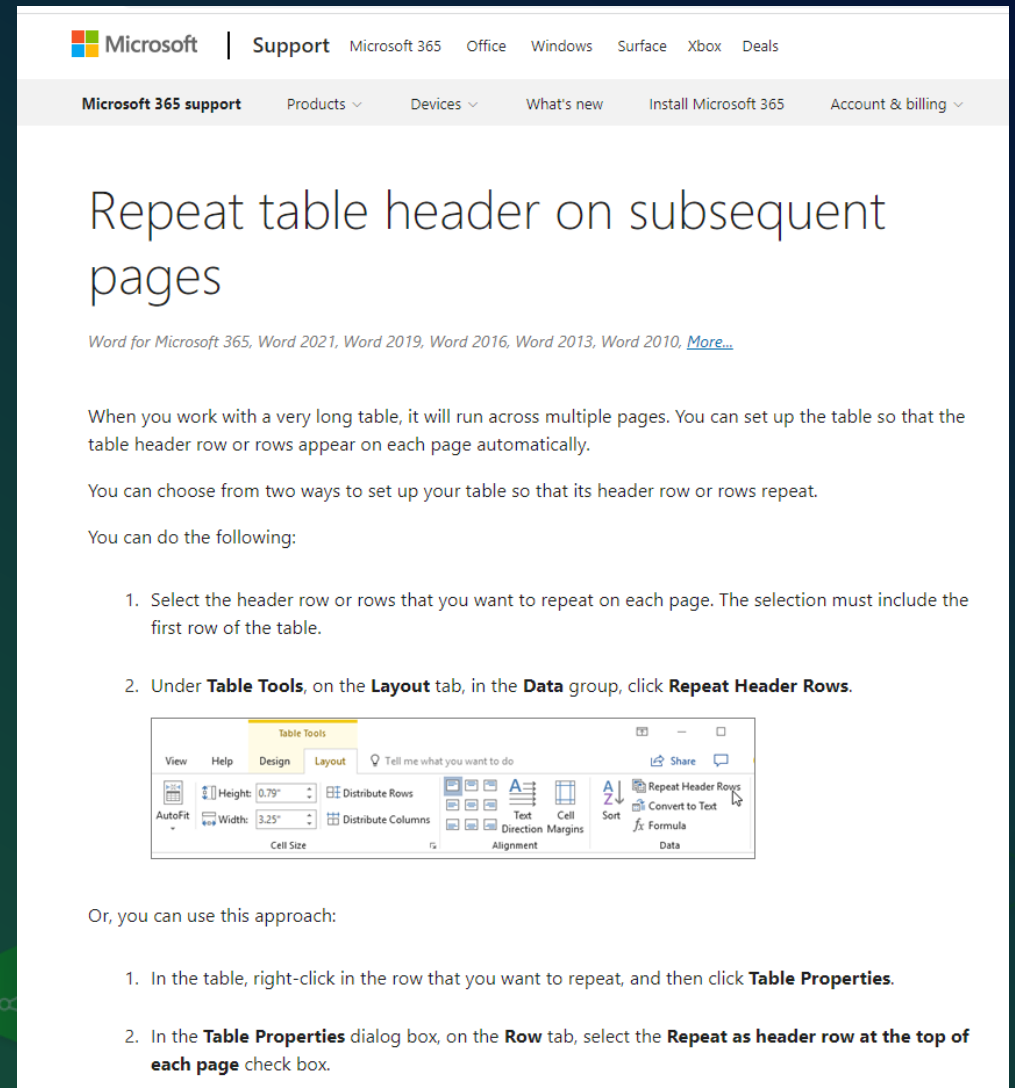
9:00 AM - 10:00 AM (PDT)

[REGISTER NOW](#)



# Tip 5: Learn Microsoft Word too!

- How to style headers and footers
- Formatting of tables
- Working with page breaks
- Etc.



The screenshot shows the Microsoft Support website. The main heading is "Repeat table header on subsequent pages". Below the heading, there is a link for "Word for Microsoft 365, Word 2021, Word 2019, Word 2016, Word 2013, Word 2010, [More...](#)". The text explains that when working with a very long table, it can span multiple pages, and users can set up the table so that the header row or rows appear on each page automatically. It then lists two ways to set up the table:

1. Select the header row or rows that you want to repeat on each page. The selection must include the first row of the table.
2. Under **Table Tools**, on the **Layout** tab, in the **Data** group, click **Repeat Header Rows**.

An image of the Microsoft Word ribbon is shown, highlighting the **Table Tools** ribbon, specifically the **Layout** tab and the **Data** group. The **Repeat Header Rows** button is clearly visible and highlighted with a mouse cursor.

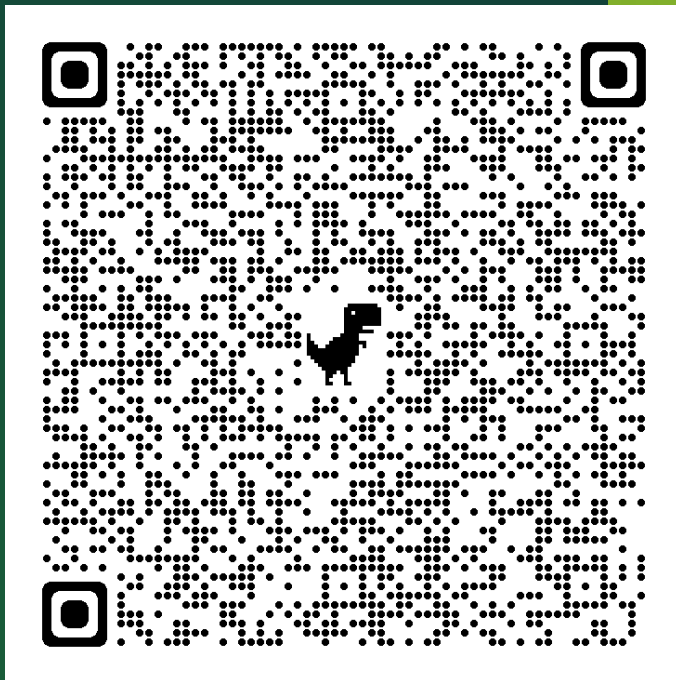
Or, you can use this approach:

1. In the table, right-click in the row that you want to repeat, and then click **Table Properties**.
2. In the **Table Properties** dialog box, on the **Row** tab, select the **Repeat as header row at the top of each page** check box.

# Live Q&A



Don't miss our next Tricks of the Trade session next week



LIVE STREAM

## ArcGIS Survey123 Tricks of the Trade: Automate Your Reports

April 26, 2023

9:00 AM - 10:00 AM (PDT)

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