



Watershed Monitoring Section Sampler Training Data Management

**Tommy Adams
March 2024**



WHAT WILL BE PRESENTED

- Field Data Management Steps
- Trend - Survey123
- Status - Survey123 & Trimble Data Logger
- Station information review - GWIS Database Utilities Application
- Project Data Review & Common Corrections



FIELD DATA MANAGEMENT - OVERVIEW

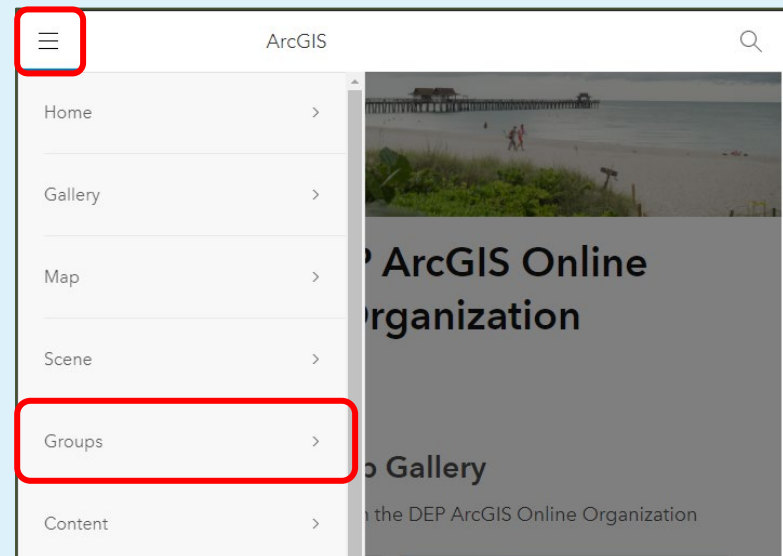
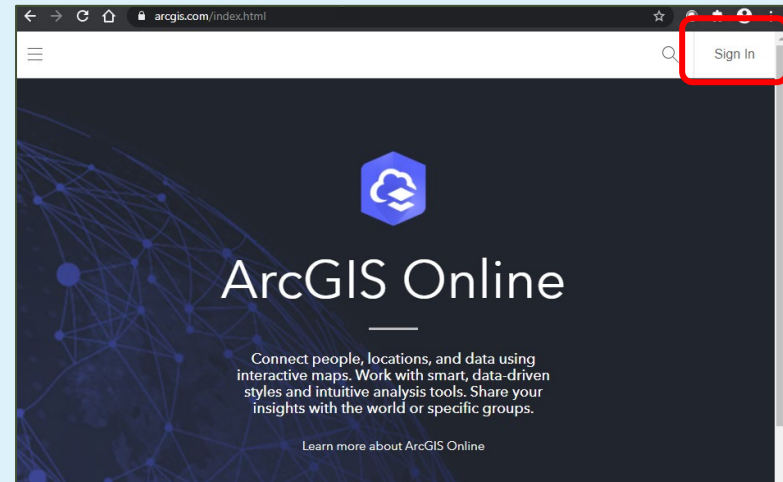
1. Enter data into Survey123.
2. Field sheet and custody sheet automatically generated.
3. Review field sheets & custody sheets. Make sure signature transferred.
4. Email signed custody sheet to DEP lab.
5. Email WMS Data Management staff when each project is complete.

This signals that the data can be exported from Survey123 and loaded into GWIS Oracle database.
6. Field Staff compile project paperwork (transfer from OneDrive to permanent storage location) and send to WMS Project Manager.



Prior to Using Survey123

- Users will need an ArcGIS Online account (managers should request this)
- Use a desktop / laptop computer to sign-in to [ArcGIS Online](#).
- Select **Groups**. Accept invitation to either **Status and Trend Networks Survey123 Users** or **DEAR Tablet Users**





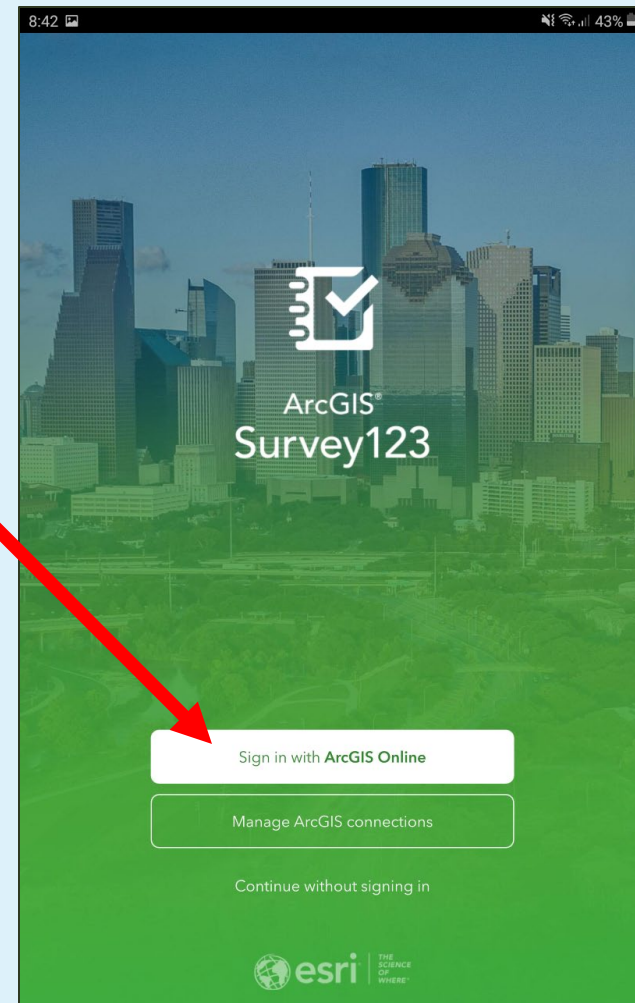
Options and Requirements Setup / Details

- Data Entry Tool Options
 - Tablet computers / Smartphones
 - Laptop / Desktop computers
- Required Apps / Software
 - ArcGIS Survey123 Field App
 - Microsoft One Drive (DEP staff)
 - Adobe Acrobat Reader (Non-DEP staff)
 - Email (e.g., Microsoft Outlook)



Survey123 Setup

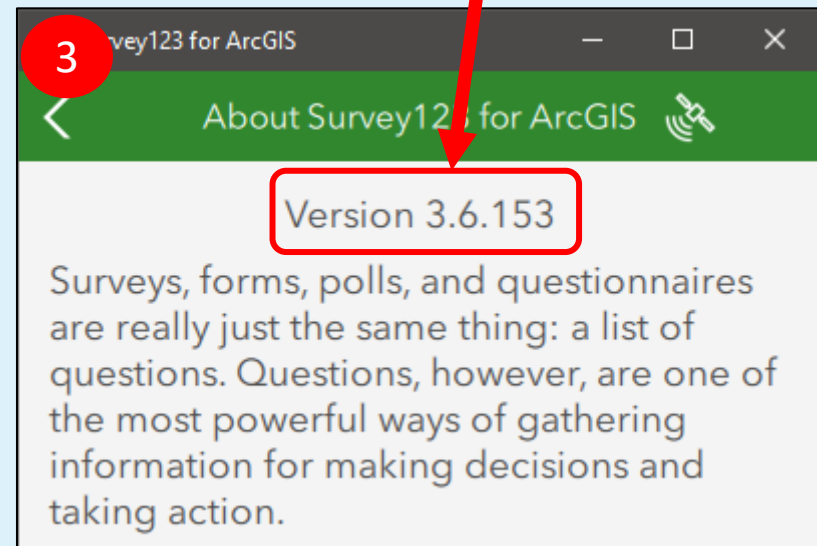
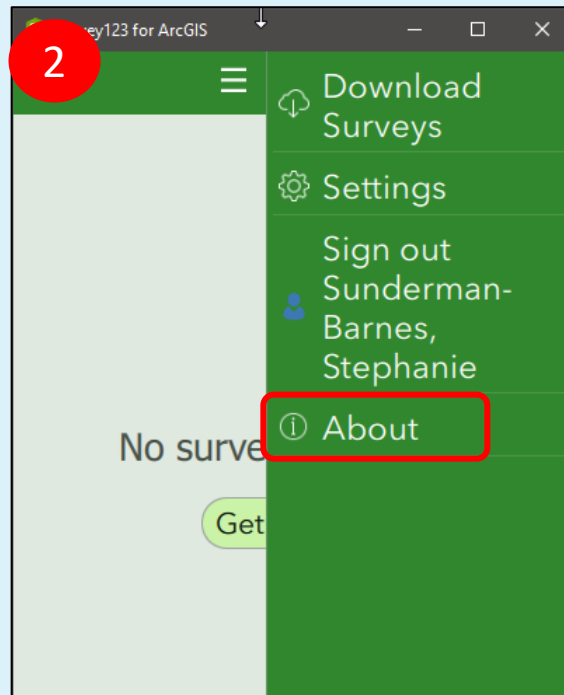
- Sign-in to Survey123 using instructions provided by your organization
- Survey123 sign-in is typically the same process as ArcGIS Online sign-in.





Survey123 Setup

- Check Version of Survey123 App
- Version **3.19** or later recommended.

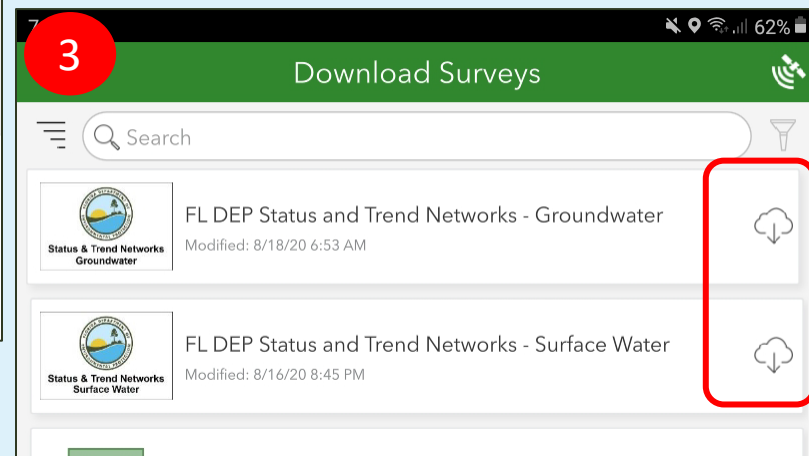
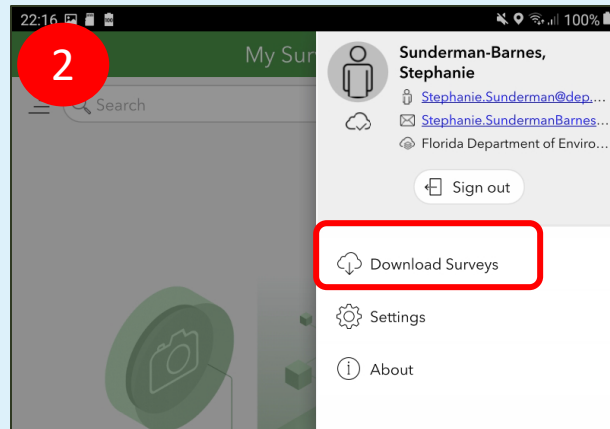
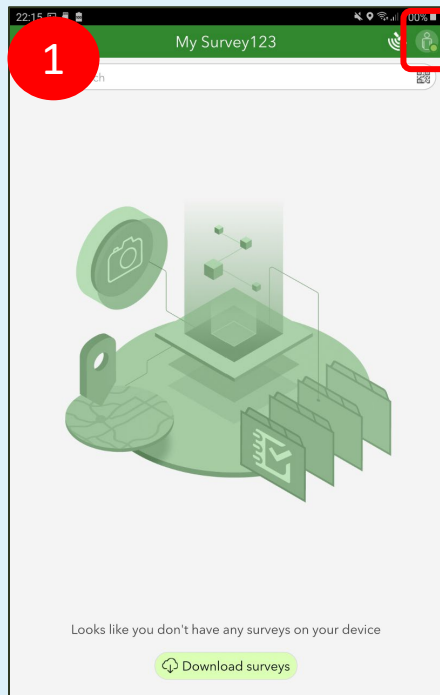


Example shows an older version - Update Recommended



Survey123 Setup

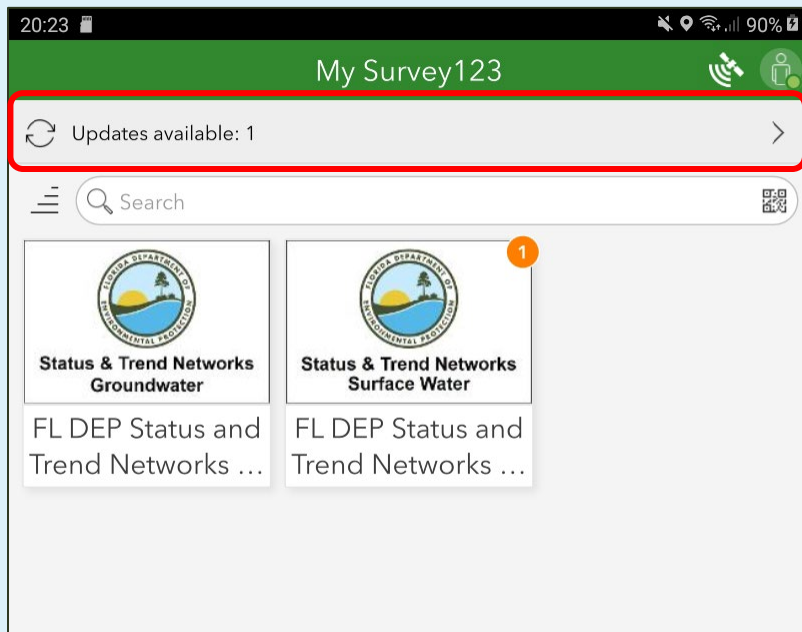
- Download Surveys
 - “FL DEP Status & Trend Networks – Surface Water”
 - “FL DEP Status & Trend Networks – Groundwater”



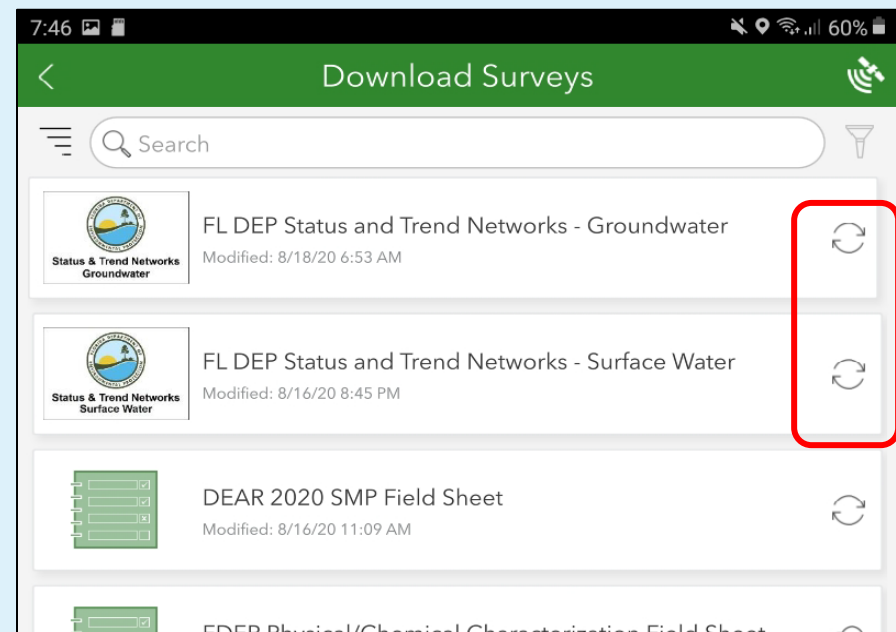


Survey123 Setup

- First day of work week – Update Surveys
 - Requires data connection (Wi-Fi or Cellular Data Signal)



OR





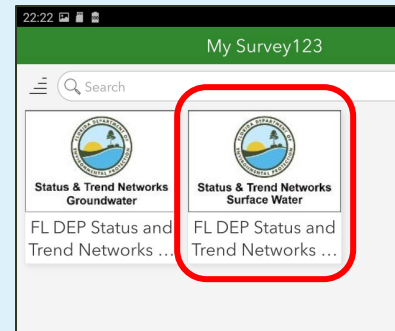
Survey123 Details

- Collect Data

- **Complete 1 survey response for each site visit.**
- A single survey response documents:

- Owner/Contact Info (Status Only)
- Field data
- Water samples
- Field / equipment blanks
- Photos
- Micro Land Use (GW only)
- Sediment samples (SW only)
- Bioassessment samples (SCI, algal) (SW only)

- **Status & Trend survey does not include bioassessment details** – use paper bioassessment field sheets (i.e. Habitat Assessment, Phys-Chem Sheet)





Survey123 Details

- Collect Data
 - **Please be patient while survey loads** (typically 1 - 2 min).
 - Red asterisk indicates required fields.
 - Choices for Station / RQ / Equipment ID / Field Staff are loaded after selecting monitoring network, collection agency, and project name.
 - **Please be patient when responding to these questions.** Click answer selection button once and wait for associated info. to load.

A screenshot of the Survey123 for ArcGIS mobile application interface. The title bar at the top reads "Survey123 for ArcGIS". Below it, a green header bar contains the text "FL DEP Status and Trend Networks - Surface Water". The main form area includes a "Data Collection Date: *" field with a calendar icon and the date "Tuesday, September 29, 2020". Below this is a "Time Zone: *" section with radio buttons for "ETZ" and "CTZ". A "Project Information" section is expanded, showing a "Monitoring Network: *" field with radio buttons for "STATUS" and "TREND", and a "Collection Agency: *" field with a dropdown menu. A green bar at the bottom right contains a white checkmark icon.



Survey123 Details

- Each survey includes many QA Checks

9:46 FL DEP Status and Trend Networks - Surface Water

Surface Specific Conductance (µmhos/cm)

500

Surface Specific Conductance Qualifiers & Comments

! pH must be between 0 and 14.

Surface pH (SU)

15

Surface pH Qualifiers & Comments

Bottom Sample
(Field Measurements only.)

Select "No Bottom Sample" if bottom field measurements were not collected.

☒ No Bottom Sample

Reason for no bottom field measurements *

☒ Too shallow. Total depth < 1.5m.

☐ Fast current.

☐ Documentation error.

☐ Other (describe in primary sample comments).

Qualifier / Comment Check
PASSED

Water Sample Collection Information

Water sample collected? *

☐ YES ☐ NO

Primary (Surface) Sample Comments:

10:06 FL DEP Status and Trend Networks - Surface Water

Bottom pH (SU)

7.16

Bottom pH Qualifiers & Comments

Bottom pH Qualifier

☐ O ☒ J ☐ R ☐ JR

Reason for qualifier

☐ Quantitative bracketing requirements not met.

☐ Chronological bracketing requirements not met.

☐ Use of expired calibration standard.

☐ CCV failure.

☐ ICV failure.

☐ Meter calibrated incorrectly.

☐ Other (describe in result comments).

Bottom pH Comment

Qualifier / Comment Check
ERROR - Bottom pH - Result comment required when using data qualifiers.

Water Sample Collection Information

Water sample collected? *

☒ YES ☐ NO

Primary (Surface) Sample Collection Time (24 hr.)
(This information is entered in the field measurements section above.)



Survey123 Details

- When response is complete
 - **Preferred - Send Now**
(requires data connection)
 - **Alternate - Save In Outbox**
 - If no data connection available.
 - Edits anticipated (e.g. field data qualifiers) / additional review needed.
 - Remember to check outbox at end of each day. Send all responses after reviewing.



Field Sheets & Custody Sheets

- DEP staff: files auto saved to shared One Drive folder **"Status Trend Field Sheets"**
- Non-DEP Staff: files emailed to person identified as "Field Staff 1".

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATUS & TREND NETWORKS FIELD SHEET - SURFACE WATER
Effective: October 2020

Collection Agency: 8025 Project Name: Z11L2005 Date: 06/29/2020

Trend Network Station Name: Z1-L1-14100
OR Status Network Random ID: Z1-L1-14100

Waterbody Name: LAKE TALQUIN RQ: 2020-05-04-31

Waterbody Type: LARGE LAKE

Sampling Team Member Names	Field Assessment	Documentation	Field Sample	Field Equipment	Collection	Preservation	Signatures or Initials
Jason Storms							
Cody Johnson	X	X	X	X	X	X	

Additional Personnel / Visitors On site: _____

Weather Conditions: Cloudy

Photos Taken: NO (Required for all Status stations, Required annually for all Trend stations.)

Water Level: NORMAL Flow: N/A Tide: N/A

QA/QC Blank Collected at this station? FIELD BLANK

QA/QC Blank Field ID: QA/QC BLANK SW 3 Collection Time (24 hr): 13:10 ETZ

Van Dorn Equip. ID / Name: _____ Cleaning: _____

Bioassessment Data Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ LVS ☐ LVI

Sediment Sample Collected: YES Sed. Collection Time (24hr): 13:55 ETZ

Sed. Collection Depth (m) (total water depth): 1.2 Number of Grabs (minimum 3): 4

Sed. Collection Interval: Top 3.5 cm

Sed. Collection Area Description: Northeast quadrant

Sed. Collection Device: Ekman Grab Device ID: Ekman1

Dominant Sed. Type (select one): CLAY / SILT

Sediment Odors (select one): NORMAL

Sediment Color: Dark brown

Sediment Sample Comments: _____

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Status & Trend Networks - Chain of Custody Form - October 2020 version

Date Collected: 06/29/2020 Collected By (Agency Code): 8025

Customer: AMBIENT Sampler Names: Jason Storms, Cody Johnson

RQ: RQ-2020-05-04-31 Lab Project ID: STATUS

Project Name: Z11L2005 # Coolers Shipped: 1 Shipping Method: Hand Delivered

Instructions: Please return the original of this form to the lab along with sample inventory portion of field sheet for each station sampled.
Load digital labels into fields below for all samples & blanks submitted under this RQ for this collection date.
Email completed documentation to: lab.receiving@floridadep.gov.
OR Print completed documentation and place in zipper bag taped to inside lid of cooler.

Site Location	Field ID
Z1-L1-14100	Z1-L1-14100
8025/2020/03/01/000	QA/QC BLANK SW 3

Relinquished By Signature: _____ Date: 06/30/2020 Time: 8:30 ETZ

Relinquished By: Jason Storms

THIS SECTION IS TO BE COMPLETED BY THE LABORATORY

Received/ Inspected By: _____ Date: _____ Time: _____ ETZ



Field Sheets & Custody Sheets

- Field Sheet name: ProjectName_FieldID_CollectionDate
- Custody Sheet name: RQ_CollectionDate_FieldStaff1

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATUS & TREND NETWORKS FIELD SHEET - SURFACE WATER
Effective: October 2020

Collection Agency: 8025 Project Name: Z1LL2005 Date: 06/29/2020
Trend Network Station Name: Z1-L1-14100
OR: Status Network Random ID:
Waterbody Name: LAKE TALQUIN RQ: 2020-05-04-31
Waterbody Type: LARGE LAKE

Sampling Team Member Names	Field Accessories	Water Sample	Water Depth	Water Temperature	Water pH	Water Dissolved Oxygen	Water Turbidity	Water Color	Water Odor	Water Taste	Water Smell	Signatures or Initials
Jason Storms	X	X	X	X	X	X	X	X	X	X	X	
Cody Johnson												

Additional Personnel / Visitors On-site: _____
Weather Conditions: Cloudy
Photos Taken: NO (Required for all Status stations. Required annually for all Trend stations.)

Water Level: NORMAL Flow: N/A Tide: N/A
QA/QC Blank Collected at this station? FIELD BLANK
QA/QC Blank Field ID: QA/QC BLANK SW 3 Collection Time (24 hr): 13:10 ETZ
Van Dorn Equip. ID / Name: _____ Cleaning: _____
Bioassessment Data Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ LVS ☐ LVI

Sediment Sample Collected: YES Sed. Collection Time (24hr): 13:55 ETZ
Sed. Collection Depth (m) (total water depth): 1.2 Number of Grabs (minimum 3): 4
Sed. Collection Interval: Top 3-5 cm
Sed. Collection Area Description: Northeast quadrant
Sed. Collection Device: Ekman Grab Device ID: Ekman1
Dominant Sed. Type (subject only): CLAY / SILT
Sediment Odors (subject only): NORMAL
Sediment Color: Dark brown
Sediment Sample Comments:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Status & Trend Networks - Chain of Custody Form - October 2020 version

Date Collected: 06/29/2020 Collected By (Agency Code): 8025
Customer: AMBIENT Sampler Names: Jason Storms, Cody Johnson
RQ: Lab Project ID: STATUS
RQ: 2020-05-04-31
Project Name: Z1LL2005 # Coolers Shipped: 1 Shipping Method: Hand Delivered

Instructions: Please return the original of this form to the lab along with sample inventory portion of field sheet for each station sampled.
Load digital labels into fields below for all samples & blanks submitted under this RQ for this collection date.
Email completed documentation to: lab.receiving@floridadep.gov.
OR Print completed documentation and place in zipper bag taped to inside lid of cooler.

Site Location	Field ID
Z1-L1-14100	Z1-L1-14100
80250050301000	QA/QC BLANK SW 3

Relinquished By Signature: _____ Date: 06/30/2020 Time: 8:30 ETZ
Relinquished By: Jason Storms

THIS SECTION IS TO BE COMPLETED BY THE LABORATORY

Received/ Inspected By: _____ Date: _____ Time: _____ ETZ

- Custody Sheet groups samples by RQ, collection date, and name of first field staff member.

Same person must be listed first for all samples collected on a single day.



Review & Sign

- Retrieve Field Sheet(s) and Custody Sheet(s).
- Review and use comment tools in One Drive or Adobe Reader to make corrections.
- After last sample each day, use signature tool to sign Custody Sheet cover page.
- If collecting samples from multiple RQs on same day, separate Custody Sheet is needed for each RQ.

The screenshot shows a digital form titled "FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION Status & Trend Networks - Chain of Custody Form - October 2020 version". The form is displayed in a web browser window with a "Fill & Sign" toolbar at the top. The form contains the following information:

Date Collected: 06/29/2020 Collected By (Agency Code): 8025
Customer: AMBIENT Sampler Names: Jason Storts, Cody Johnson
RQ: [Barcode] Lab Project ID: STATUS
RQ: 2020-05-04-31
Project Name: Z11L2005 # Coolers Shipped: 1 Shipping Method: Hand Delivered

Instructions: Please return the original of this form to the lab along with sample inventory portion of field sheet for each station sampled.
Load digital labels into fields below for all samples & blanks submitted under this RQ for this collection date.
Email completed documentation to: lab.receiving@floridadep.gov.
OR Print completed documentation and place in zipper bag taped to inside lid of cooler.

Site Location	Field ID
[Barcode] Z11L14100	[Barcode] Z11L14100
[Barcode] 802520050301000	[Barcode] QA/QC BLANK SW 3

Relinquished By Signature: [Signature] Relinquished By: Jason Storts Date: 06/30/2020 Time: 8:30 ETZ



Details – Final Steps

- Email Custody Sheet to lab.receiving@floridadep.gov.
 - Email subject = Custody Sheet File Name.
 - If samples collected from multiple RQs in a single day, new custody sheet produced for each RQ, & new email needed for each RQ.
- Transfer Field Sheets and Custody Sheets to a more permanent storage space.
 - If edits / signatures were added, remember to transfer the edited version



Troubleshooting

Q: What if I do not receive a field sheet email after I submit a survey response?

A: These data are not lost. Data are saved in the ArcGIS Online feature layer.

Contact Stephanie Sunderman-Barnes with request to rerun process that generates field sheets / custody sheets.





Troubleshooting

Q: What if I get to a field site and the computer is not working?

A: Keep paper copies of most recent versions S&T Field Sheet and Custody Sheet in vehicle.

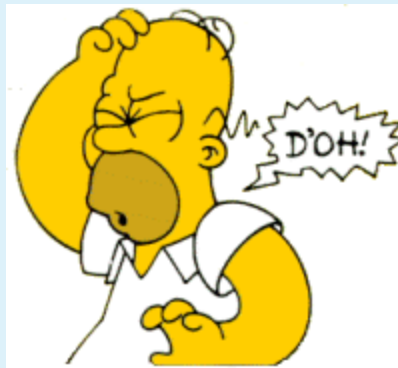
- Complete paper forms – use barcode labels on forms.
- Make a copy / photo of completed forms for your records.
- Assemble custody sheet packet
- Place custody sheet packet in Ziploc bag taped inside lid of cooler. **DO NOT email lab scanned forms completed on paper.**
- After returning to the office, enter data into Survey123 Field App.



Troubleshooting

Q: What if I notice an error after I have submitted a survey response? (Error discovered same day.)

A: Use “copy sent data to a new survey” in Survey123 sent items folder.





Troubleshooting

Q: What if I notice an error after I have submitted a survey response? (Error discovered days later.)

A: Make corrections on field sheets and custody sheets (use single line strikethrough & initials).

Request Survey123 data corrections by contacting Data Management staff. Include a copy of corrected documents in request email.



GPS Data Collection via the Trimble Data Logger



User Manual Location

https://publicfiles.dep.state.fl.us/DEAR/DEARweb/WMS/Reports_Docs_SOPs/Standard%20Operating%20Procedures/GPS%20Manual/WMS-GPSBasicsManual.pdf



GPS Manual pg. 22
Create New Data File

OR

Sampling Manual
pg. 102 – File
Nomenclature

Be sure to use upper
case and include the
dashes in the file name

TerraSync 11:30

Data

New

Create New Data File

File Type: Rover

Location: Default

File Name:

Z2-SL-18001

Dictionary Name:

2024 STATUS NET

Create



Choose your Zone
and the Resource
abbreviation.

Type in the Random
Site ID

TerraSync 11:48

Data Collect Options

1 Lake Cancel

Zone: Z2-

Resource: SL-

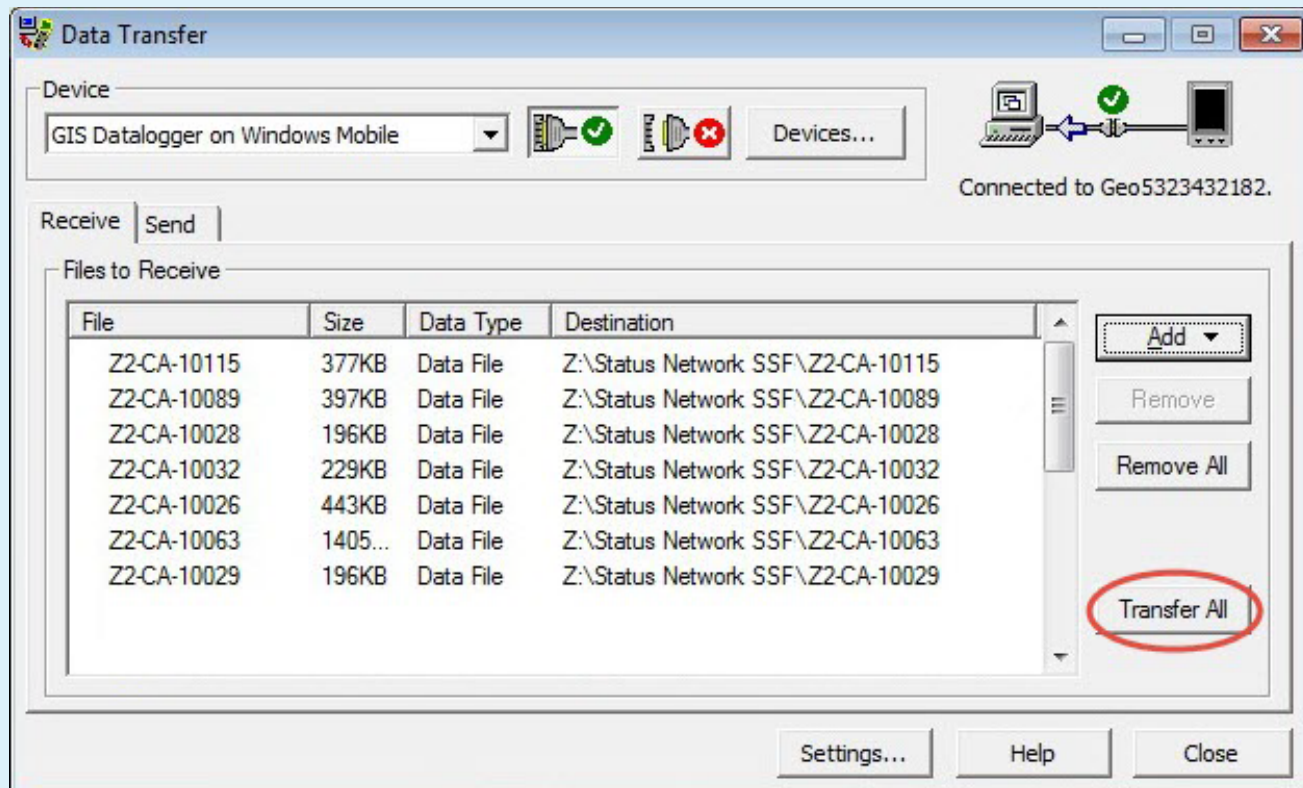
5 Digit Random ID: 18001

Done



Where the Trimble Data Logger Information Goes

- A separate file is generated for each site visit
- After sampling, transfer all files to computer





Combined SSF Files Example

AutoSave Off Z4CN2401_SSF.xlsx Search

File Home Insert Page Layout Formulas Data Review View Automate Help Power Pivot

Clipboard Font Alignment Number Styles Cells

H7

	A	B	C	D	E	F	G	H	I	J
1	Latitude	Longitude	Zone	Resource	5 Digit Random ID	Collection_Method				
2	27 48 37.047 N	82 43 18.091 W	Z4-	CN-	18019	DGPS				
3	28 00 40.187 N	82 21 03.449 W	Z4-	CN-	18006	DGPS				
4	27 12 47.523 N	82 24 28.021 W	Z4-	CN-	18015	DGPS				
5	27 10 04.098 N	82 24 59.799 W	Z4-	CN-	18007	DGPS				
6	29 01 31.656 N	82 36 38.156 W	Z4-	CN-	18018	DGPS				
7	28 49 50.435 N	82 12 04.549 W	Z4-	CN-	18010	DGPS				
8	28 38 06.722 N	81 59 48.682 W	Z4-	CN-	18012	DGPS				
9	27 44 05.641 N	82 00 00.062 W	Z4-	CN-	18021	DGPS				
10	28 45 08.037 N	82 13 48.058 W	Z4-	CN-	18014	DGPS				
11	26 54 45.899 N	82 01 43.951 W	Z4-	CN-	18001	DGPS				
12	28 00 40.186 N	82 21 03.449 W	Z4-	CN-	18006	DGPS				
13	28 18 24.535 N	82 41 54.948 W	Z4-	CN-	18002	AGPS				
14	27 28 39.399 N	82 37 07.149 W	Z4-	CN-	18003	DGPS				
15	27 43 47.843 N	82 21 49.249 W	Z4-	CN-	18004	DGPS				
16	27 54 16.425 N	82 22 31.485 W	Z4-	CN-	18020	DGPS				
17										
18										
19										

Flowing Water



Trimble Data Logger Data Flow

Deliver all Files to WMS contact by mutually agreed upon method
(*e.g.*, email, ftp)

GPS Coordinator post processes and sends combined and
corrected file to Project Manager

Site information is reviewed. Project Manager sends to Data
Manager for import into GWIS

Data Manager Loads to GWIS – creates stations



Reviewing Existing Station Information

If you can procure more recent or additional data specific to the station, please inform your Project Manager of any updates needed. For example:

- A well that was previously classified as confined is determined to be unconfined
- You affix a FLUWID tag to a well and later find out it already has one associated that has been removed
- The well or property owner has changed
- Even small updates such as misspellings

******These conflicts and questions should be routed through your Project Manager for discussion and resolution



Reviewing Existing Station Information

- Review existing station information in the Generalized Watershed Information System (GWIS) Database Utilities application.
<https://prodapps.dep.state.fl.us/gwis/>
- Notify Project Manager of updates needed
- DEP employees - use network username and password if prompted. Request access to make updates to information through Thomas Adams



Reviewing Existing Station Information

Florida Department of Environmental Protection

A-Z Index Forms News Events Contact Us



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[Parks & Rec](#) [Waste](#) [Water](#)

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[Recon Tracking](#)
[Existing Station](#)
[New SW Station](#)
[New GW Station](#)

[Home](#) [Help](#) [Logged in as ADAMS_TL](#)

Hello, Thomas Adams

Welcome to the Oracle Generalized Water Information System (OGWIS) Database Utilities Web Application.

This application is used to maintain the OGWIS database. Users include the staff working for the Watershed Monitoring and Data Management Section of the Florida Department of Environmental Protection (FDEP), the Florida Water Management Districts, and County Agencies.

GWIS — 1.0.35

Florida Department of Environmental Protection — For Business Issues or for Technical Assistance, call Service Desk (850) 245-7555 or Contact Us via email

Some content provided in alternative formats. The following icons link to free Reader/Viewer software:
[PDF](#) | [Word](#) | [Excel](#)

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Search for Stations to Review

Existing Station

Station ID:

Station Name:

Status Random Site ID:

Water Resource:

Waterbody Name:

County:

Agency Maintaining Info:

Hydrologic Unit Name:

Florida Unique Well ID:

[Reset Form](#)

[View Results](#)

[CSV](#)



Has the Station Been Sampled?

Selection Criteria:

Status Random Site ID = Z2-UA-17002;

CSV

Data not found!

Station ID	Station Name	County	WMD	District	Waterbody Type	Water Resource	Waterbody Name	FLUWID	Randon Sample Location
------------	--------------	--------	-----	----------	----------------	----------------	----------------	--------	------------------------

Selection Criteria:

Status Random Site ID = Z1-CA-17003;

CSV

Station ID	Station Name	County	WMD	District	Waterbody Type	Water Resource	Waterbody Name	FLUWID	Randon Sample Location
4298	295122084395101	FRANKLIN	NORTHWEST FLORIDA WMD	NORTHWEST DISTRICT	AQUIFER	CONFINED AQUIFER	FLORIDAN AQUIFER SYSTEM	AAJ6761	Z1-CA-17003



Station Identifier and Owner

Ground Water Station Update for # 4298

Changes to any information not editable in this form should be routed through the Project Manager and Database Manager.

Identifier

STATION ID: 4298
STORET ID: 295122084395101
RANDOM SAMPLE LOCATION ID: Z1-CA-17003
FL UNIQUE WELL ID: AAJ6761
STATION NAME: 295122084395101
STATION DESCRIPTION:

Owner

OWNER NAME:
PROPERTY OWNER: MARK DANIELS
MAIL ADDRESS: 112 NE AVE D
CITY: CARABELLE
STATE: FL
ZIP: 32322
TELEPHONE:
SECONDARY TELEPHONE:
EMAIL:
CONTACT NAME:
CONTACT AGENCY:

We need a physical address even if they want results via email



Locational Information

Ground Water Station Update for # 4298

Lat/Long

LATITUDE: 29° 51' 22.363"
LONGITUDE: 84° 39' 50.458"
LOCATION METHOD: DGPS
LOCATIONAL DATUM: WGS84

Geographic

COUNTY: FRANKLIN
WATER MGMT DISTRICT: NORTHWEST FLORIDA WMD
DEP DISTRICT OFFICE: NORTHWEST DISTRICT
TMDL BASIN: APALACHICOLA - CHIPOLA
REPORTING UNIT: ZONE 1

Hydro

WATER BODY NAME: FLORIDAN AQUIFER SYSTEM
WATER RESOURCE: CONFINED AQUIFER
HYDROLOGIC UNIT NAME: NEW
SUBAQUIFER:
GRID CELL: 20725
TOP OF AQUIFER:
BOTTOM OF AQUIFER:



Hydrologic/Well Information

Ground Water Station Update for # 4298

Hydro II

DRILL DATE:	mm 06 dd 09 yyyy 1988
WELL STATUS:	NON-FLOWING, ACTIVELY PUMPED
WELL TYPE:	PRIVATE DRINKING WATER WELL
CONSTRUCTION METHOD:	
LIFT TYPE:	
TOTAL DEPTH:	120 ←
CASING DEPTH:	98 ←
SCREEN BEGIN DEPTH:	98
SCREEN END DEPTH:	120

Hydro III

FINISH:	
SCREEN MATERIAL:	
SCREEN DIAMETER:	
CASING MATERIAL:	STEEL ←
CASING DIAMETER:	4 ←
LAND SURFACE ELEVATION:	



Project Information

Ground Water Station Update for # 4298

Project Info

SAMPLED TV:

SAMPLED WQAS:

SAMPLED BACKGROUND:

SAMPLED VISA:

SAMPLED HRSPWS:

SAMPLED STATUS:

DATA SOURCE: GWIS

AGENCY:

Comments

COMMENTS:

T7S/R4W/Sec 20; #12 ; longitude corrected from 81 to 84 - SPH 8/23/00

Save

Reset

Show Map



Station Comments

Ground Water Station Update for # 57359

Comments

COMMENTS:

L. Miller 9/29/20: Land Surface Elevation retrieved from Digital Map Model By A. Woerber (Topographic Map Interpolation). Measuring point elevation calculated as LSE + Stickup.

Save

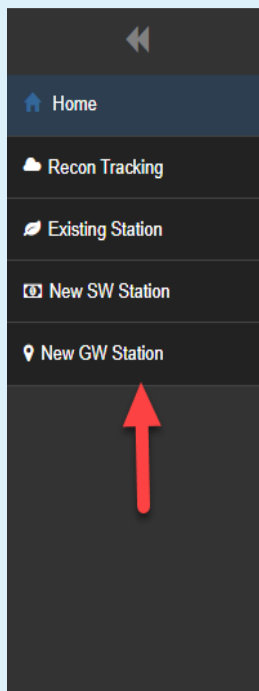
Reset

Show Map



New Stations

Rare to create a new station through application
and only done by Project Managers



Hello, Thomas Adams

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This application is used to maintain the OGWIS database. Users include the staff working for the Watershed Monitoring and Data Management Section of the Florida Department of Environmental Protection (FDEP), the Florida Water Management Districts, and County Agencies.

Specific instructions concerning the use of this application are found in the Watershed Monitoring and Data Management Section's document Data Management Protocols Version 2.

If you have questions concerning the general use of the application, please contact your FDEP Project Manager.



GWIS Database Utilities

- When using the GWIS Database Utilities, please.....
 - Check all the information you have available
 - We may contact you for information that wasn't required but we need
 - Owner/Contact information are input directly into the Survey123 app. If insufficient owner/contact information has been provided, we will reach out to you.



GWIS Database Utilities

Recon Tracking

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Recon Tracking

Resource Type:

Reporting Unit:

Reporting Cycle:

Site Location Range: -

Leave empty to return all records if creating an export file.
If creating a map for more than one site, limit range to less than 140 sites.



GWIS Database Utilities

Recon Tracking Results

Recon Tracking Results				
<i>Selection Criteria:</i> Resource Type = CONFINED AQUIFER; Reporting Unit = Zone 1; Reporting Cycle = 17;				
				Show Map CSV
RANDOM SAMPLE LOCATION	LATITUDE	LONGITUDE	SAMPLEABLE	STATION ID
Z1-CA-17001	30° 25' 19.023"	87° 11' 6.002"	NO	
Z1-CA-17002	30° 39' 19.96"	85° 47' 6.12"	NO	
Z1-CA-17003	29° 51' 22"	84° 39' 51"	YES	4298
Z1-CA-17004	30° 43' 51.51"	85° 20' 34.96"	NO	
Z1-CA-17005	30° 56' .809"	86° 5' 34.84"	NO	
Z1-CA-17006	30° 26' 30.183"	85° 57' 43.925"	NO	
Z1-CA-17007	30° 35' 31"	84° 48' 45"	NO	4352
Z1-CA-17008	30° 34' 22"	84° 21' 17"	YES	7004



Project Data Review

Project Managers' Tasks

- Review station data in combined SSF file after post-processing
- Review merged field and lab data for completeness and accuracy
- Provide final approval of data for public release





Project Data Review

Station Comments

- **STATION COMMENT** – Any information that is relevant to the station itself, not one particular sampling event.
 - Physical attributes of the station such as the presence of a water softener at a well or an obstruction on a river
 - Location information to aid in future navigation to the site
 - Access information such as the need to get a gate key prior to sampling or the location of a nearby boat ramp



Project Data Review

Sample Comments

- **SAMPLE COMMENT** – Any information that is relevant to the sampling of a station on that particular date
 - Weather conditions that could affect results (i.e. heavy rain, dust)
 - Unusual conditions at the site (e.g. homeless camp, heavy bird population) that could affect results
 - Bottom measurements not collected (e.g. Too Shallow to Collect Bottom Measurements or Water Current Too Fast To Collect Bottom Measurements)
 - Reasons why specific analytes (e.g. sediments) not collected.



Project Data Review

Result Comments

- **RESULT COMMENT** – Any information that is relevant to a particular analyte or group of analytes collected at the site
 - YSI malfunctioning
 - Container or lid cracked
 - Extra ½ vial of H₂SO₄ added to nutrient sample to achieve pH < 2



Project Data Review

Common Data Correction Requests General

- For J-qualified field measurements:
 - Spell out CCV – Continuing Calibration Verification
 - State the reason for the J-qualifier (i.e. did the calibration fail, was it not quantitatively bracketed or some other reason)
 - Dissolved Oxygen Failed Continuing Calibration Verification
 - Specific Conductance Not Quantitatively Bracketed During Continuing Calibration Verification

(Survey123 requires comments and has common comments spelled out)



Project Data Review

Common Data Correction Requests Surface Water

- If Secchi is S-qualified, comment should be Secchi Visible On Bottom. Do not use the abbreviation VOB.
- If waterbody is < 1.5 m deep, include the sample comment 'Too Shallow To Collect Bottom Field Measurements'
 - Note: this comment should be entered as a PRIMARY **sample** comment and a **result** comment for PRIMARY Total Depth in Survey123
- Please do not change standard comments. Other comments can be added if needed.

Other common question and answers can be found on our FTP site



Project Data Review

Reviewing Your Data Entry

- Status Network - before downloading the .SSF file to computer, look site names over.
- Status & Trend Networks - review the custody and field sheets generated by Survey123 files BEFORE sending to WMS Project Manager
- Notify your Project Manager of any corrections needed to electronic data and make corrections in electronic files.



Questions?

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Information Overload