Field Visit Data sheet and Quality Control

- Complete Field Visit Data Sheet for each maintenance visit or storm sampling
  - Fill out hard copy OR record in field notebook
  - Enter info into online form: https://wikiwatershed.org/drwi/; pass: drwi
- Complete Quality Control
  - Sensor QC *quarterly*
  - Data download –
    - *Every 2-4 weeks*, if not online (or sporadic online)
    - *Quarterly*, if reliable online

STROUD WATER RESEARCH CENTER

Overview

STROUD WATER RESEARCH CENTER
www.stroudcenter.org

EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi; password: drwi

Name(s):

Site ID:
LoggerID:
Stream Name:
Location:
GPS (Lat/Long):
Date: Arrival Time: AM/PM? *EST/EDT?
*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)
Photos? Yes/No
Precipitation last 24 Hours? Yes/No Amount:
Water Clarity (Clear, Cloudy, Muddy):
General Notes/ Photo Descriptions:

SENSOR CLEANING (*Recommended frequency: weekly or biweekly; monthly if only CTD sensor*)

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling*

GRAB SAMPLES (*Rec frequency: Situational; for rating curves, collect when water is high/turbid or higher than normal conductivity*)

Grab Sample Taken? Yes/No
Time collected (to minute): AM/PM? EST/EDT?
Sample Number:
Volume:
Bottle Type:
Date Shipped:
Lab Sent To:
Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (*Complete in field or office*)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU):	Time (military):	Not applicable	Always EST

**For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or download from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).*

QUALITY CONTROL - WATER LEVEL DATA (*Rec frequency: quarterly and/or more frequently as needed*)

[a]Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?

Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):

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QUALITY CONTROL - CHEMISTRY DATA (*Rec frequency: quarterly and/or more frequently as needed*)

Parameter	QC Hand-held Meter Result	QC Time	QC AM/PM?	QC EST/EDT?	Sensor Station Result	Sensor Station-Time (Military, EST)
Conductivity (uS/cm):			AM/PM	EST/EDT		
Temperature (degC):			AM/PM	EST/EDT		
Turbidity (NTU):			AM/PM	EST/EDT		
Dissolved Oxygen (mg/L):			AM/PM	EST/EDT		

QUALITY CONTROL CHEMISTRY FIELD METER INFORMATION

Parameter	Field Meter Brand/Model/Serial # or unique ID	Meter calibrated?	Standard	Calibration
Conductivity (uS/cm):		Yes/No		
Temperature (degC):		Yes/No		
Turbidity (NTU):		Yes/No		
Dissolved Oxygen (mg/L):		Yes/No		

SENSOR STATION MAINTENANCE

Sensors Submerged? Yes/No
If no or partially, describe in Notes.
Location of Sensors Changed? Yes/No
If yes, explain in notes. **Please consult Stroud Center before changing location of sensors.*
Retrieved Memory Card? Yes/No
(*Rec frequency for QC: quarterly if online; biweekly-monthly if not online*)
Changed Batteries? Yes/No
Cleaned Solar Panel? Yes/No
Other sensor station maintenance? Yes/No
(If Yes, describe in Notes)

Notes (Describe specific sensor station management actions and any other issues):

OTHER IN-SITU PARAMETERS (e.g., Nitrate, Phosphate, Chloride, pH, Dissolved Oxygen)

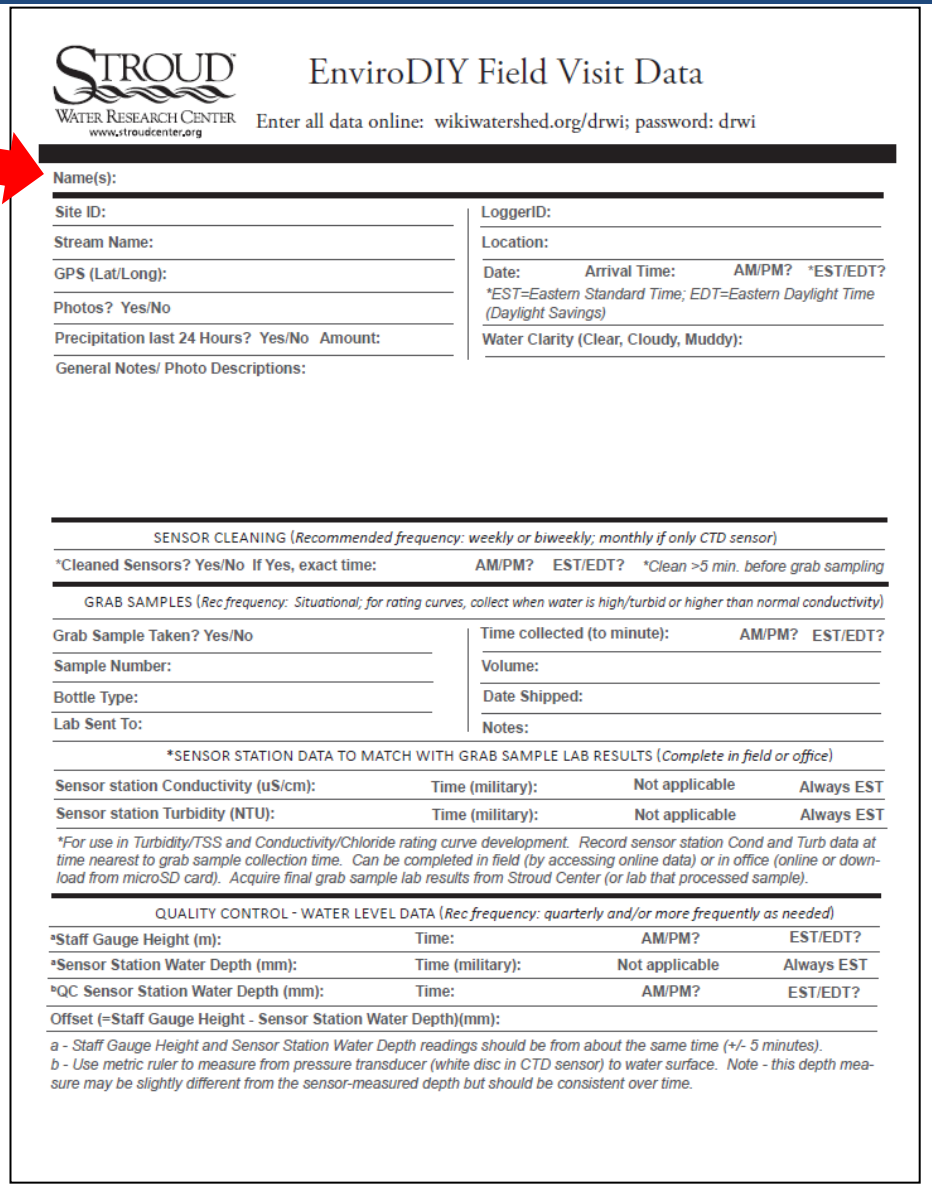
Parameter	Result	Brand/Model

OTHER INFORMATION

Field Duplicate Taken of Grab Sample? Yes/No
Performed Cross Section Survey? Yes/No
Flow Measurement w/ Flow Meter? Yes/No
Flow Measurement w/ Neutrally Buoyant Object? Yes/No
Flow Measurement w/ another method? Yes/No
If Yes, explain in Notes

Header Info

Name(s): All individuals on site – generally crew lead listed first



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GPS (Lat/Long):

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General Notes/ Photo Descriptions:

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Grab Sample Taken? Yes/No

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STROUD WATER RESEARCH CENTER

Header Info

SiteID: Stroud-generated Site Identification – general format is DRWI cluster abbreviation/stream name abbreviation/site number

NHMU9S

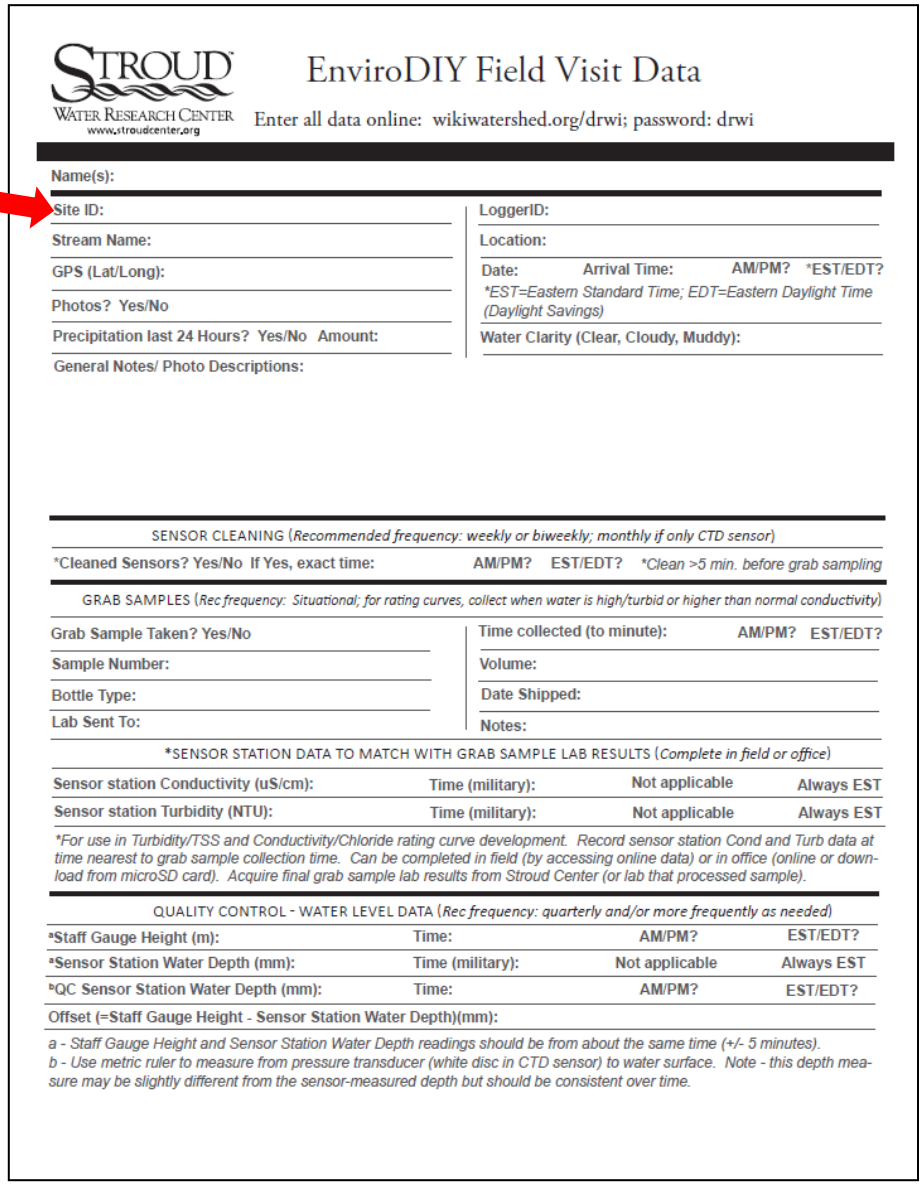
New Jersey Highlands

Musconetcong

SHPK3S

Schuylkill Highlands

Pickering



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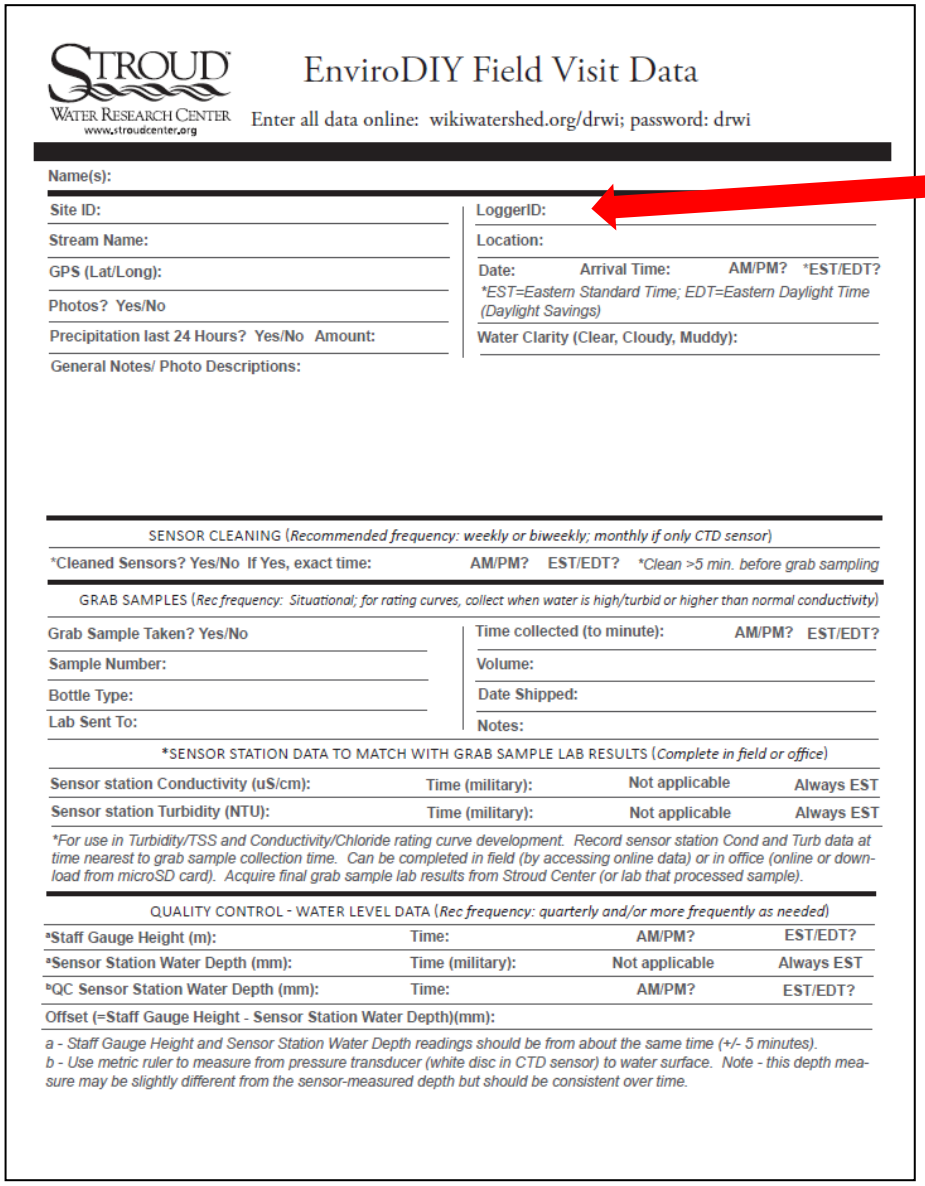

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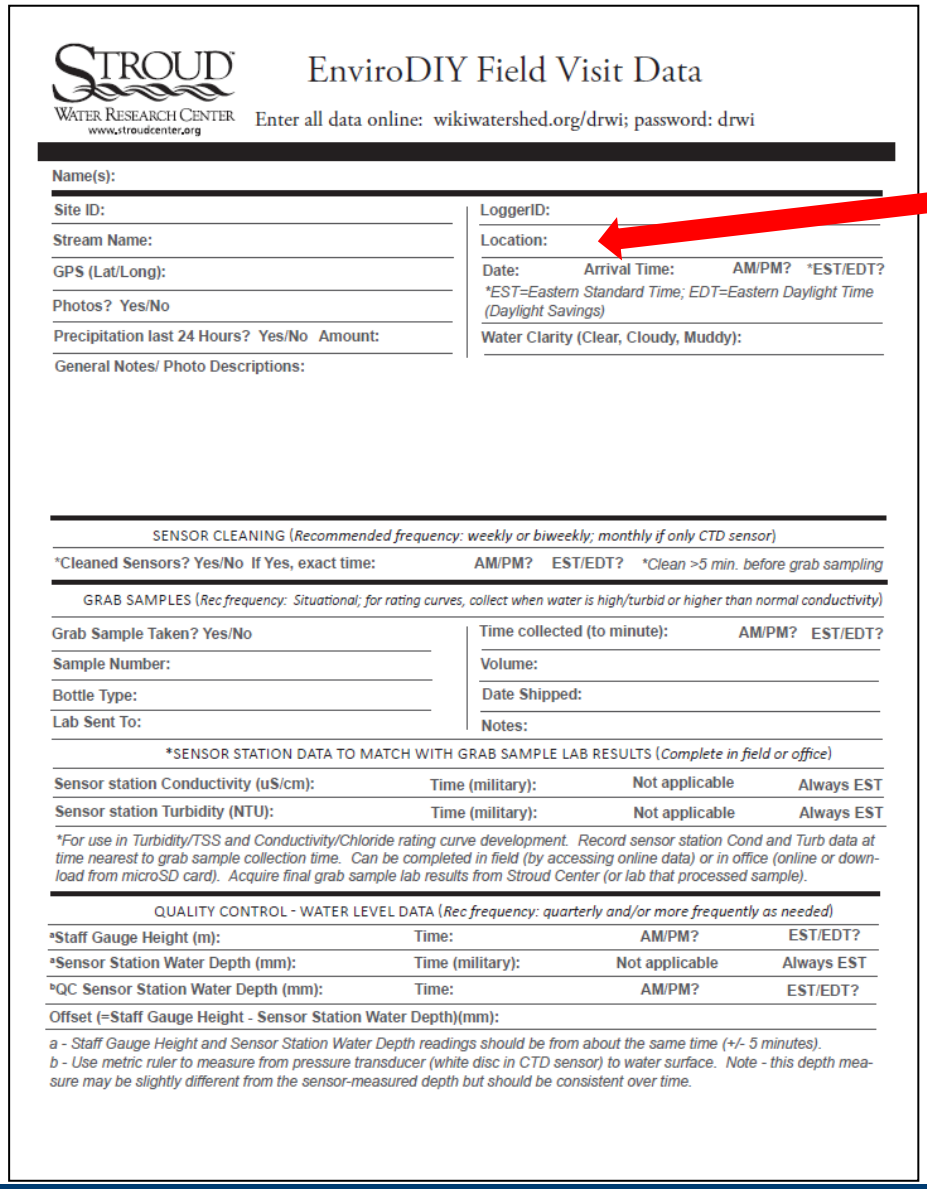
LoggerID: Specific permanent ID of the particular sensor station

- The station can be moved and SiteID would change but this LoggerID will stay the same.
- Shannon Hick's tally of sensor stations built – currently at about SL175

STROUD WATER RESEARCH CENTER

Header Info



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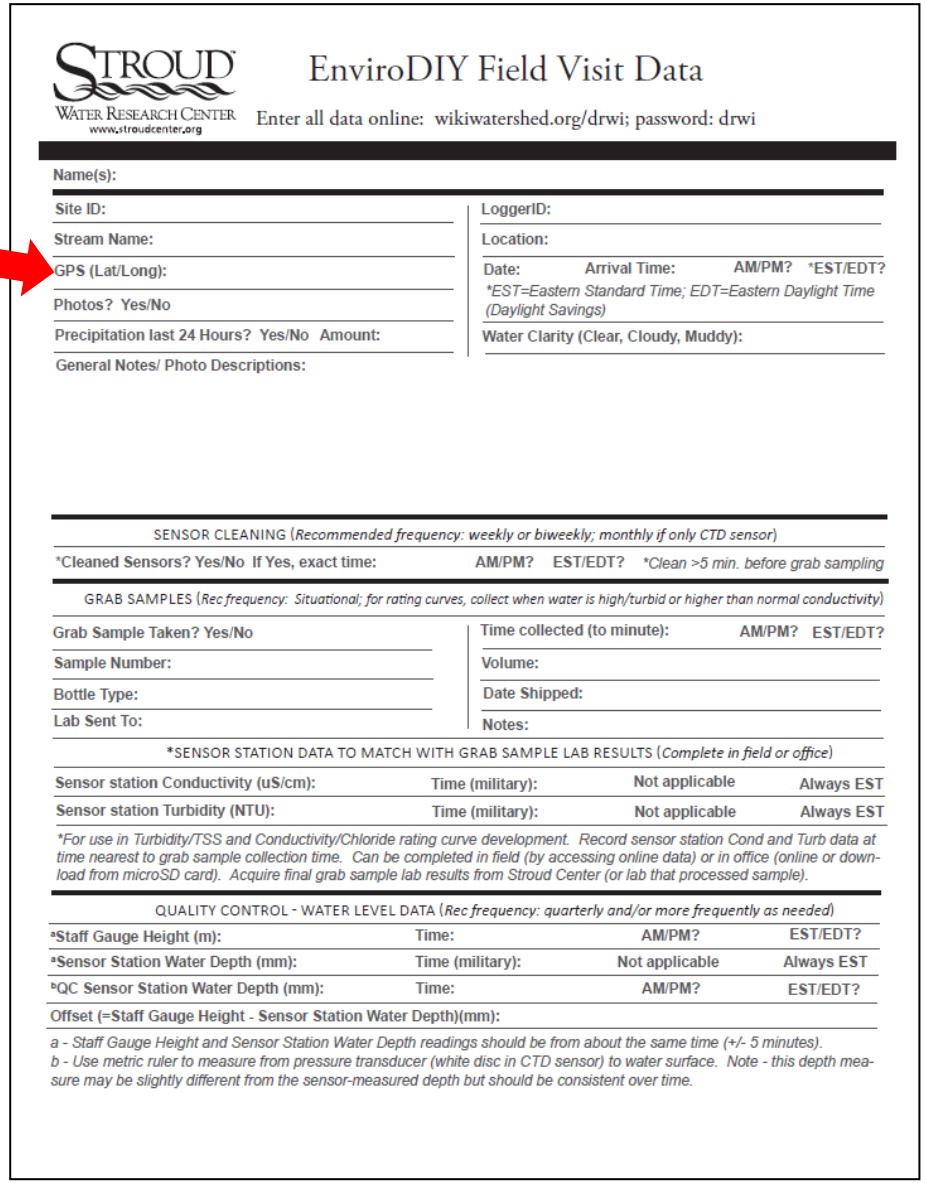
Location: Simple description of location of site – e.g., Woodlawn Rd, Roy-Chester Park, Upstream, Downstream, etc.

STROUD WATER RESEARCH CENTER

Header Info

GPS (Lat/Long) – the most precise record of location; generally only needs to be recorded when station is installed, but can be recorded on other visits if site number/location is in question

- Latitude/Longitude – Decimal Degrees is the most commonly used and accessible format Lat format ##.#####, Long format -##.######
- e.g., 40.680840, -75.107810



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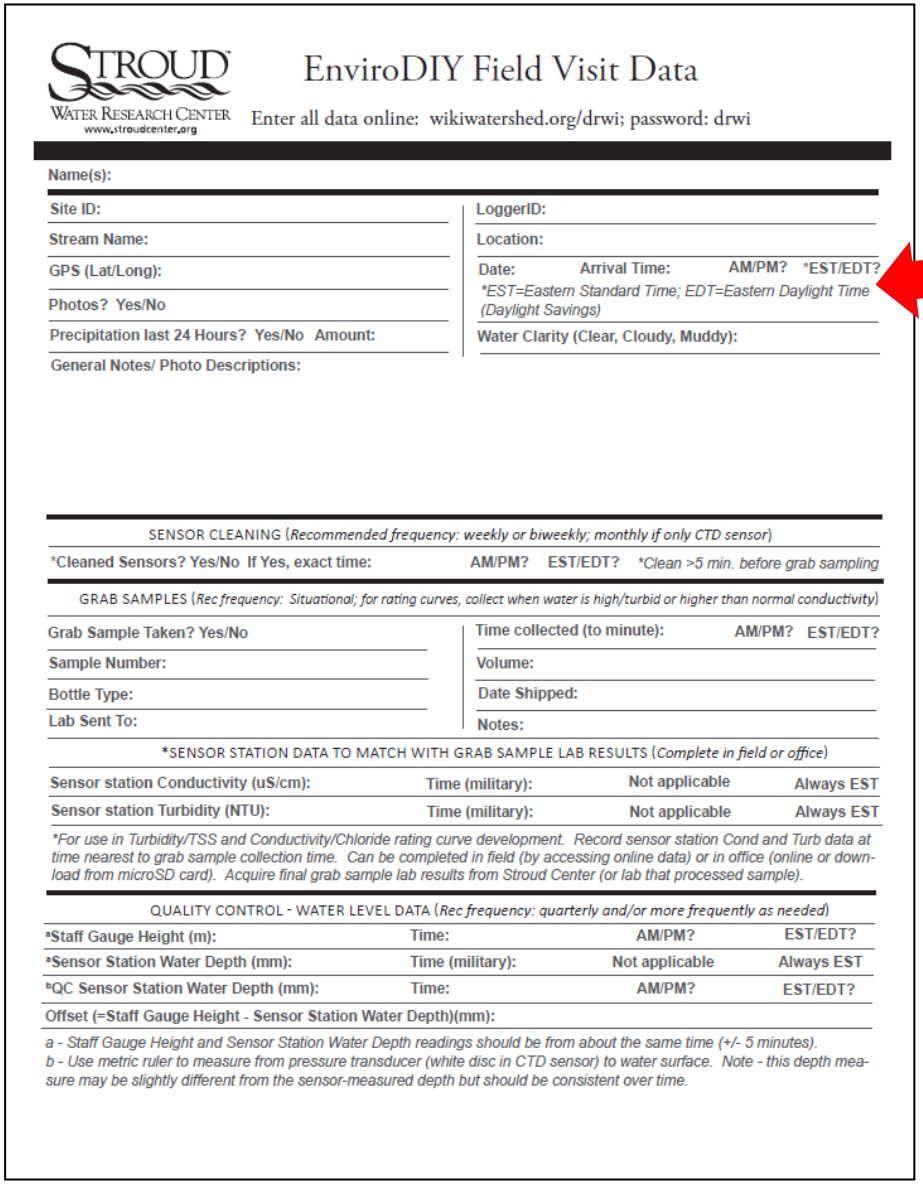

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Date: Date of site visit
Arrival Time: Time when crew arrived at site
AM/PM: Circle one
EST/EDT: Circle one

- EST = Eastern Standard Time - for 2017/2018 EST was from November 5, 2017 to March 11, 2018
- EDT = Eastern Daylight Time – for 2018 EST is from Sunday, March 11, 2:00am to Sunday, November 4, 2:00am
- "Spring Forward, Fall Back" – *During EDT (Daylight Savings, "Spring Forward") current time will be 1 hour ahead of sensor station data, which are always in EST*

STROUD WATER RESEARCH CENTER

Header Info

Photos: Clear photos very useful for documenting station and site conditions, documenting occurrences, showing stormflow, seasonal changes, damage to station, use for educational/instructional purposes

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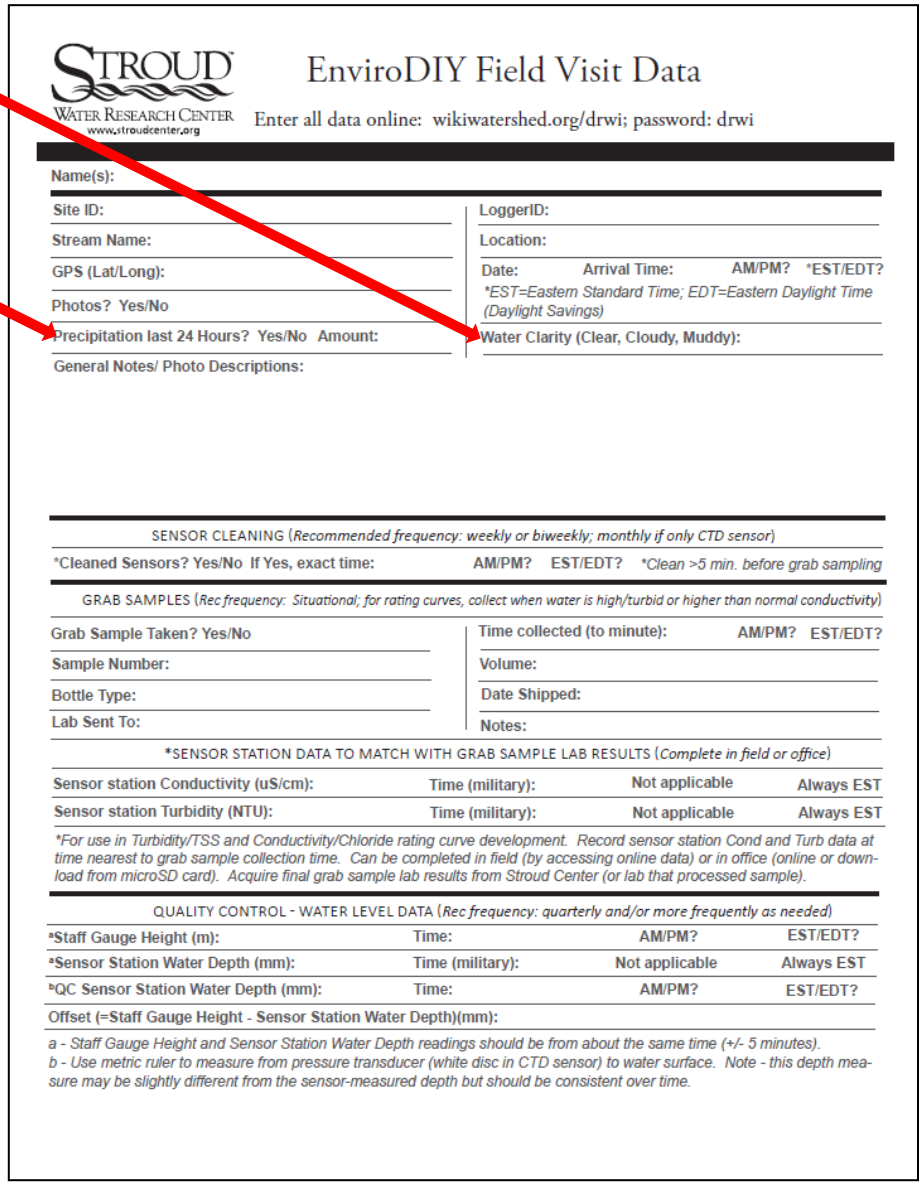
Precipitation and **Water Clarity**: for general context when reviewing data. Can help to have this type of info when trying to recall site activities from the past



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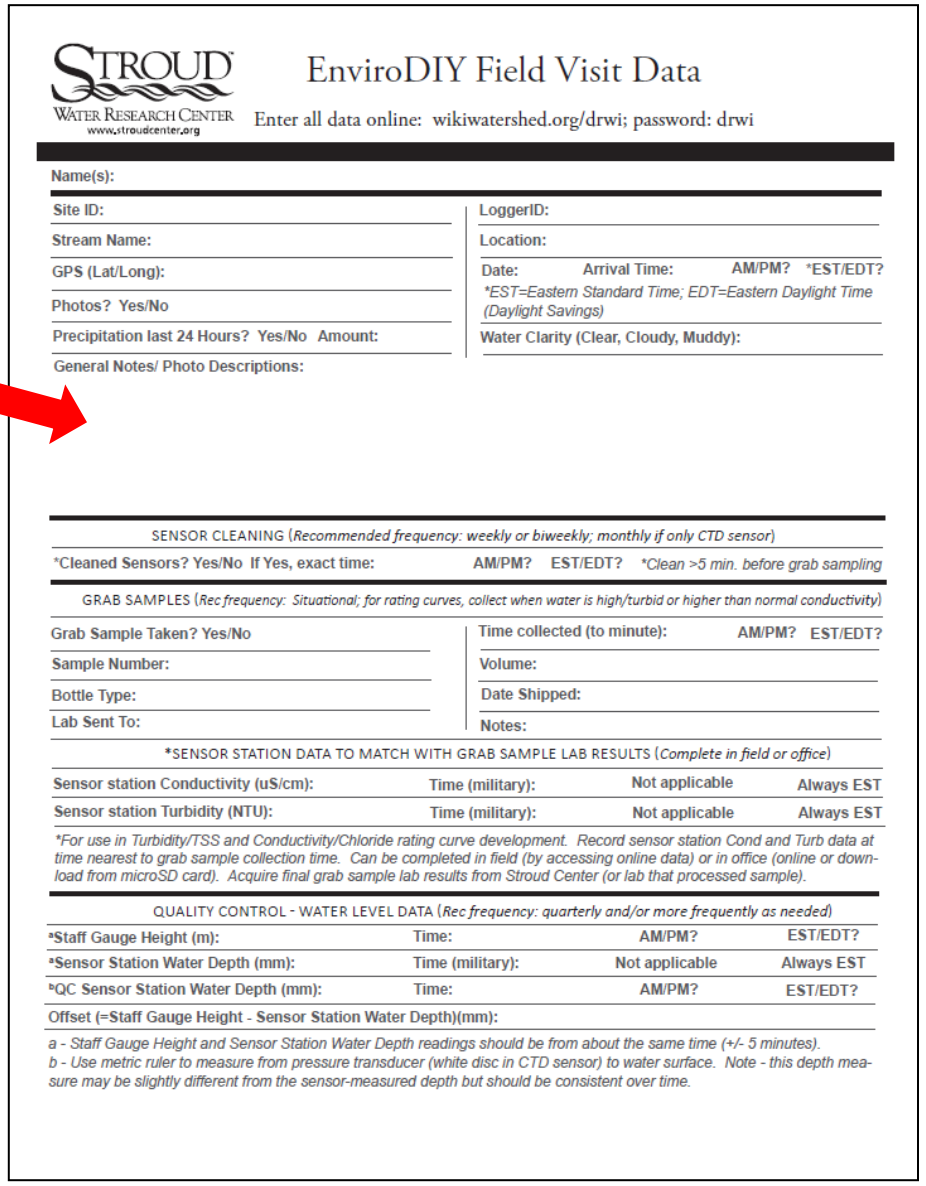
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

Header Info

General Notes/Photo Descriptions: Space to describe what was done at the site, mention anything outstanding, intent of visit (e.g., cleaning station, storm sampling, troubleshooting, etc.). Again, this type of info can be helpful when going back in time and trying to recall specific site visits



STROUD WATER RESEARCH CENTER
www.stroudcenter.org

EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi; password: drwi

Name(s):

Site ID:
Stream Name:
GPS (Lat/Long):
Photos? Yes/No
Precipitation last 24 Hours? Yes/No Amount:
General Notes/ Photo Descriptions:

LoggerID:
Location:
Date: Arrival Time: AM/PM? *EST/EDT?
*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)
Water Clarity (Clear, Cloudy, Muddy):

SENSOR CLEANING (*Recommended frequency: weekly or biweekly; monthly if only CTD sensor*)

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling*

GRAB SAMPLES (*Rec frequency: Situational; for rating curves, collect when water is high/turbid or higher than normal conductivity*)

Grab Sample Taken? Yes/No
Sample Number:
Bottle Type:
Lab Sent To:

Time collected (to minute): AM/PM? EST/EDT?
Volume:
Date Shipped:
Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (*Complete in field or office*)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU):	Time (military):	Not applicable	Always EST

*For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or download from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).

QUALITY CONTROL - WATER LEVEL DATA (*Rec frequency: quarterly and/or more frequently as needed*)

[a]Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?

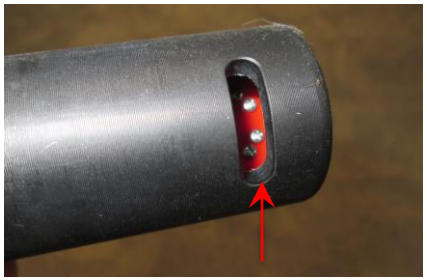
Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):

a - Staff Gauge Height and Sensor Station Water Depth readings should be from about the same time (+/- 5 minutes).
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

SENSOR STATION – SENSOR CLEANING

Cleaned Sensors?: Yes/No

- **Monitor data and understand patterns to know when to clean**
- **Record exact time of sensor cleaning**
- To clean use a brush or fingertips. Clean slot of CTD sensor and Turbidity sensor window
- **If grab sample is being taken, make sure to clean sensors at least 5 minutes before grab sampling – this ensures that sensor data are good at the time the grab sample is collected.*



STROUD WATER RESEARCH CENTER
www.stroudcenter.org

EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi; password: drwi

Name(s):

Site ID:	LoggerID:
Stream Name:	Location:
GPS (Lat/Long):	Date: Arrival Time: AM/PM? *EST/EDT?
Photos? Yes/No	*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)
Precipitation last 24 Hours? Yes/No Amount:	Water Clarity (Clear, Cloudy, Muddy):
General Notes/ Photo Descriptions:	

SENSOR CLEANING (*Recommended frequency: weekly or biweekly; monthly if only CTD sensor*)

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling*

GRAB SAMPLES (*Rec frequency: Situational; for rating curves, collect when water is high/turbid or higher than normal conductivity*)

Grab Sample Taken? Yes/No	Time collected (to minute): AM/PM? EST/EDT?
Sample Number:	Volume:
Bottle Type:	Date Shipped:
Lab Sent To:	Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (*Complete in field or office*)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU):	Time (military):	Not applicable	Always EST

**For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or download from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).*

QUALITY CONTROL - WATER LEVEL DATA (*Rec frequency: quarterly and/or more frequently as needed*)

[a]Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?
Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):			

a - Staff Gauge Height and Sensor Station Water Depth readings should be from about the same time (+/- 5 minutes).
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

GRAB SAMPLE INFORMATION

GRAB SAMPLE INFORMATION: Grab samples for developing turbidity/TSS and cond/Cl rating curves

STROUD WATER RESEARCH CENTER www.stroudcenter.org

EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi; password: drwi

Name(s):

Site ID: | LoggerID:

Stream Name: | Location:

GPS (Lat/Long): | Date: Arrival Time: AM/PM? *EST/EDT?

*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)

Photos? Yes/No | Water Clarity (Clear, Cloudy, Muddy):

Precipitation last 24 Hours? Yes/No Amount:

General Notes/ Photo Descriptions:

SENSOR CLEANING (*Recommended frequency: weekly or biweekly; monthly if only CTD sensor*)

Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling

GRAB SAMPLES (*Rec frequency: Situational; for rating curves, collect when water is high/turbid or higher than normal conductivity*)

Grab Sample Taken? (Yes)/No | Time collected (to minute): 9:47 (AM)/PM? (EST)/EDT?

Sample Number: 1700189 | Volume: 1L or 500mL

Bottle Type: Square Nalgene | Date Shipped: Mm/dd/yy

Lab Sent To: Stroud (or other) | Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (*Complete in field or office*)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU):	Time (military):	Not applicable	Always EST

**For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or download from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).*

QUALITY CONTROL - WATER LEVEL DATA (*Rec frequency: quarterly and/or more frequently as needed*)

[a]Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?

Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):

a - Staff Gauge Height and Sensor Station Water Depth readings should be from about the same time (+/- 5 minutes).
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

GRAB SAMPLE INFORMATION

STROUD WATER RESEARCH CENTER www.stroudcenter.org

EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi; password: drwi

Name(s):

Site ID: | LoggerID:

Stream Name: | Location:

GPS (Lat/Long): | Date: Arrival Time: AM/PM? *EST/EDT?

*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)

Photos? Yes/No | Water Clarity (Clear, Cloudy, Muddy):

Precipitation last 24 Hours? Yes/No Amount:

General Notes/ Photo Descriptions:

SENSOR CLEANING (*Recommended frequency: weekly or biweekly; monthly if only CTD sensor*)

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min before grab sampling

GRAB SAMPLES (*Rec frequency: Situational; for rating curves, collect when water is high/turbid or higher than normal conductivity*)

Grab Sample Taken? Yes/No | Time collected (to minute): 12:33 AM/PM? EST/EDT?

Sample Number: ###### | Volume: 500mL

Bottle Type: Square Nalgene | Date Shipped: Mm/dd/yy

Lab Sent To: Stroud (or other) | Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (*Complete in field or office*)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU):	Time (military):	Not applicable	Always EST

*For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or download from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).

QUALITY CONTROL - WATER LEVEL DATA (*Rec frequency: quarterly and/or more frequently as needed*)

[a]Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?

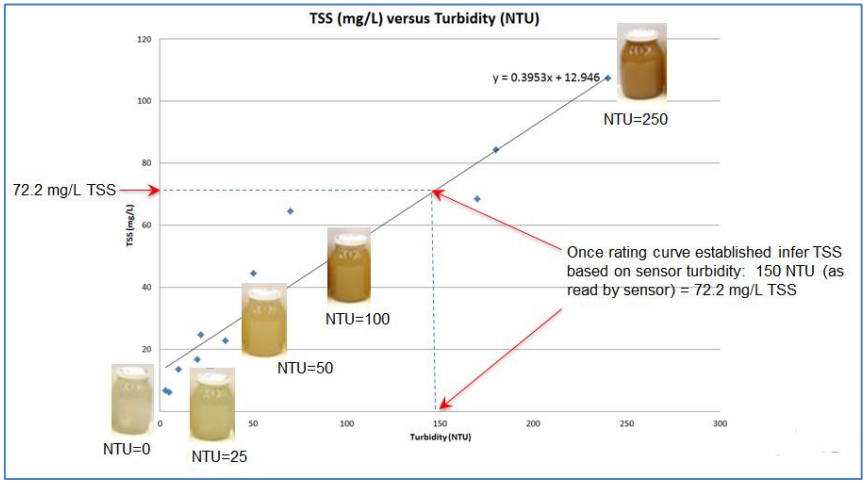
Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):

a - Staff Gauge Height and Sensor Station Water Depth readings should be from about the same time (+/- 5 minutes).
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

Time collected (to minute): Exact time when grab sample collected. Need it to the minute so that grab results can be matched up with sensor data from the same time

Grab sample analyzed to get this number

Sensor reading Date/Time	Grab Date/Time	Sensor Turbidity (NTU)	Grab sample TSS (mg/L)
8/1/##, 12:35pm	8/1/##, 12:33pm	3	7
7/5/##, 2:50pm	7/5/##, 2:50pm	5	6
3/2/##, 11:00am	3/2/##, 11:01am	240	107
3/2/##, 10:10am	3/2/##, 10:11am	50	45
3/2/##, 10:40am	3/2/##, 10:40am	70	65
3/2/##, 9:45am	3/2/##, 9:45am	22	25
4/5/##, 10:10am	4/5/##, 10:10am	10	14
4/5/##, 10:40am	4/5/##, 10:40am	20	17
4/5/##, 12:05pm	4/5/##, 12:04pm	180	84
4/5/##, 10:55pm	4/5/##, 10:55pm	35	23
4/5/##, 11:50am	4/5/##, 11:50am	170	69



SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS

STROUD WATER RESEARCH CENTER
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EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi; password: drwi

Name(s):

Site ID: | LoggerID:

Stream Name: | Location:

GPS (Lat/Long): | Date: Arrival Time: AM/PM? *EST/EDT?

*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)

Photos? Yes/No | Water Clarity (Clear, Cloudy, Muddy):

Precipitation last 24 Hours? Yes/No Amount:

General Notes/ Photo Descriptions:

SENSOR STATION - SENSOR CLEANIN

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling

GRAB SAMPLE INFORMATION (COLLECT IF WATER IS HIGH/TURBID OR HIGHER THAN NORMAL CONDUCTIVITY)

Grab Sample Taken? Yes/No | Time collected (to minute): 12:33 AM/PM? EST/EDT?

Sample Number: 1700189 | Volume: 1L or 500mL

Bottle Type: Square Nalgene | Date Shipped: Mm/dd/yy

Lab Sent To: Stroud (or other) | Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (COMPLETE IN FIELD OR OFFICE)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU): 3	Time (military): 11:35	Not applicable	Always EST

*For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or download from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).

QUALITY CONTROL WATER LEVEL DATA (STAFF GAUGE AND SENSOR DEPTH)

[a]Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?

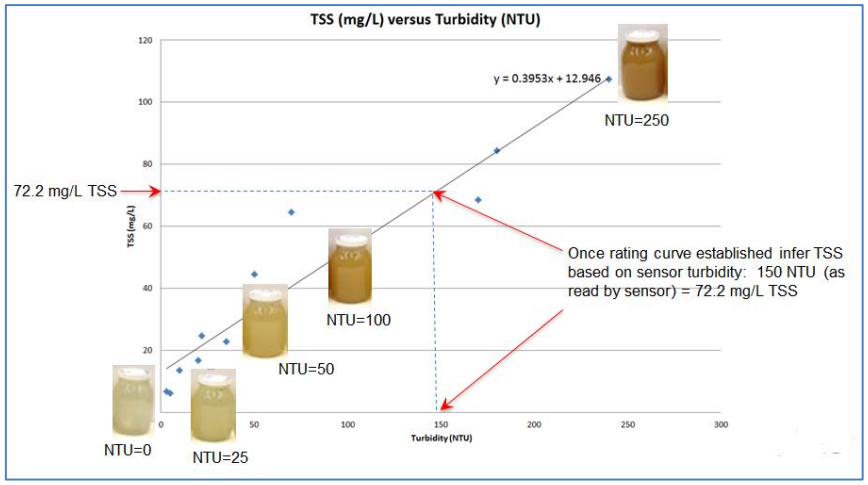
Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):

a - Staff Gauge Height and Sensor Station Water Depth readings should be from about the same time (+/- 5 minutes).
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS: Turbidity and Conductivity sensor data from same approximate time when grab sample collected – to be used along with grab sample lab results to develop rating curves

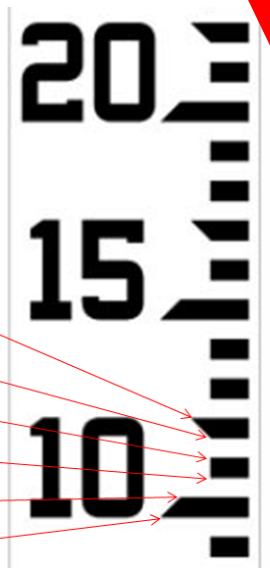
This number comes from sensor and is matched up with grab sample taken at this time

Sensor reading Date/Time (24hr)	Grab Date/Time	Sensor Turbidity (NTU)	Grab sample TSS (mg/L)
8/1/##, 11:35 EST	8/1/##, 12:33pm EDT	3	7
7/5/##, 13:50 (1:50pm EST)	7/5/##, 2:50pm EDT	5	6
3/2/##, 11:00 EST	3/2/##, 11:01am EST	240	107
3/2/##, 10:10 EST	3/2/##, 10:11am EST	50	45
3/2/##, 10:40 EST	3/2/##, 10:40am EST	70	65
3/2/##, 09:45 EST	3/2/##, 9:45am EST	22	25
4/5/##, 09:10 EST	4/5/##, 10:10am EDT	10	14
4/5/##, 09:40 EST	4/5/##, 10:40am EDT	20	17
4/5/##, 11:05 EST	4/5/##, 12:04pm EDT	180	84
4/5/##, 21:55 EST (9:55pm EST)	4/5/##, 10:55pm EDT	35	23
4/5/##, 10:50 EST	4/5/##, 11:50am EDT	170	69



QUALITY CONTROL WATER LEVEL DATA

Staff Gauge Height:
On-site visual measure of water depth; this is used for QC of sensor depth and also used for discharge/depth rating curve



12.5cm = 0.125m
12.0cm = 0.120m
11.5cm = 0.115m
11.0cm = 0.110m
10.5cm = 0.105m
10.0cm = 0.100m

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EnviroDIY Field Visit Data

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Name(s):

Site ID:
Stream Name:
GPS (Lat/Long):
Photos? Yes/No
Precipitation last 24 Hours? Yes/No Amount:
General Notes/ Photo Descriptions:

LoggerID:
Location:
Date: Arrival Time: AM/PM? *EST/EDT?
*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)
Water Clarity (Clear, Cloudy, Muddy):

SENSOR STATION - SENSOR CLEANING

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling

GRAB SAMPLE INFORMATION (COLLECT IF WATER IS HIGH/TURBID OR HIGHER THAN NORMAL CONDUCTIVITY)

Grab Sample Taken? Yes/No
Sample Number:
Bottle Type:
Lab Sent To:

Time collected (to minute): AM/PM? EST/EDT?
Volume:
Date Shipped:
Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (COMPLETE IN FIELD OR OFFICE)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU):	Time (military):	Not applicable	Always EST

*For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or download from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).

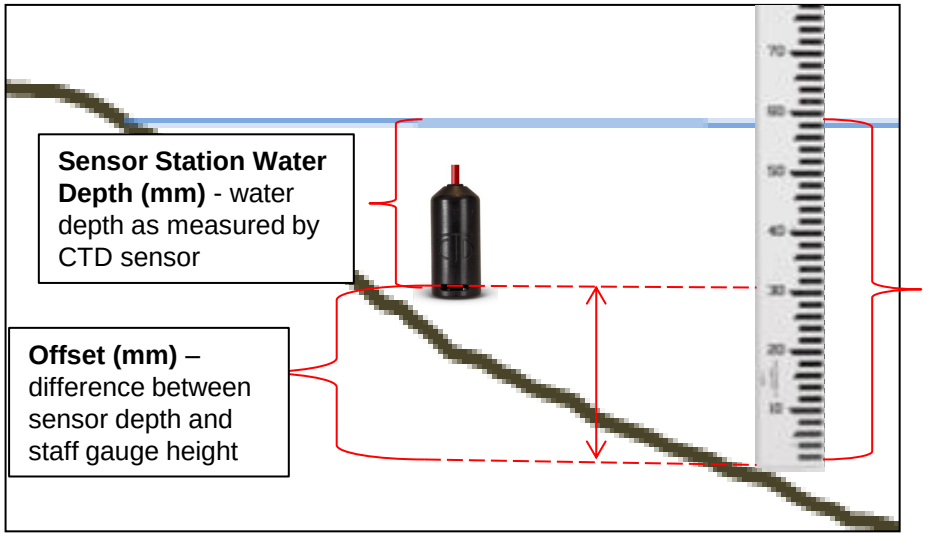
QUALITY CONTROL WATER LEVEL DATA (STAFF GAUGE AND SENSOR DEPTH)

[a]Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?

Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):

a - Staff Gauge Height and Sensor Station Water Depth readings should be from about the same time (+/- 5 minutes).
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

QUALITY CONTROL WATER LEVEL DATA



Staff Gauge Height – on-site visual measure of water depth; this is used for QC of sensor depth and also used for discharge/depth rating curve

Sensor Station Water Depth – water depth as measured by the CTD sensor

Offset – difference between water depth as measured by staff gauge and water depth as measured by CTD sensor (*see above diagram)*

NOTE – RECOMMENDATION IS TO DO QUALITY CONTROL ON AT LEAST A QUARTERLY BASIS (EVERY 3 MONTHS)

STROUD WATER RESEARCH CENTER
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EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi; password: drwi

Name(s):

Site ID:

LoggerID:

Location:

Date: Arrival Time: AM/PM? *EST/EDT?

*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)

Water Clarity (Clear, Cloudy, Muddy):

rs? Yes/No Amount:

scriptions:

SENSOR STATION - SENSOR CLEANING

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling

GRAB SAMPLE INFORMATION (COLLECT IF WATER IS HIGH/TURBID OR HIGHER THAN NORMAL CONDUCTIVITY)

Grab Sample Taken? Yes/No	Time collected (to minute): AM/PM? EST/EDT?
Sample Number:	Volume:
Bottle Type:	Date Shipped:
Lab Sent To:	Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (COMPLETE IN FIELD OR OFFICE)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU):	Time (military):	Not applicable	Always EST

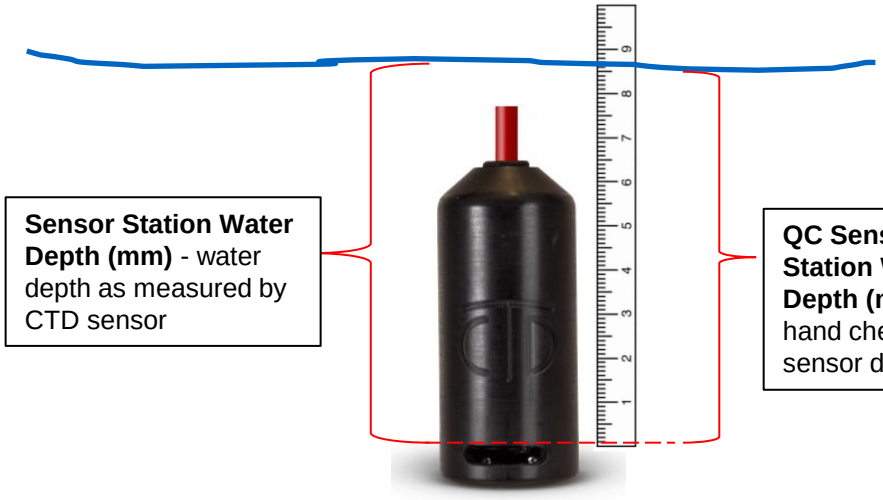
*For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or download from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).

QUALITY CONTROL WATER LEVEL DATA (STAFF GAUGE AND SENSOR DEPTH)

[a]Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?
Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):			

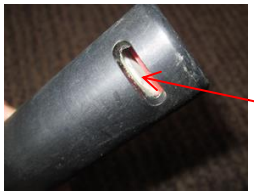
a - Staff Gauge Height and Sensor Station Water Depth readings should be from about the same time (+/- 5 minutes).
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

QUALITY CONTROL WATER LEVEL DATA



Sensor Station Water Depth (mm) - water depth as measured by CTD sensor

QC Sensor Station Water Depth (mm) – hand check of sensor depth



Pressure transducer (white disc)

QC Sensor Station Water Depth – hand check of sensor depth – use metric ruler to measure from top of sensor window (where pressure transducer [white disc] is located) to water surface. Compare this number to the depth produced by CTD sensor.

This is intended as a coarse check of sensor function and also is a calibration to the individual sensor function (i.e., it may not be exactly the same as the ruler measurement but the difference should be consistent over time).

STROUD WATER RESEARCH CENTER
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EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi; password: drwi

Name(s):

Site ID:	LoggerID:
Stream Name:	Location:
GPS (Lat/Long):	Date: Arrival Time: AM/PM? *EST/EDT?
Photos? Yes/No	*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)
Precipitation last 24 Hours? Yes/No Amount:	Water Clarity (Clear, Cloudy, Muddy):
General Notes/ Photo Descriptions:	

SENSOR STATION - SENSOR CLEANING

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling

GRAB SAMPLE INFORMATION (COLLECT IF WATER IS HIGH/TURBID OR HIGHER THAN NORMAL CONDUCTIVITY)

Grab Sample Taken? Yes/No	Time collected (to minute): AM/PM? EST/EDT?
Sample Number:	Volume:
Bottle Type:	Date Shipped:
Lab Sent To:	Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (COMPLETE IN FIELD OR OFFICE)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU):	Time (military):	Not applicable	Always EST

*For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or down-load from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).

QUALITY CONTROL WATER LEVEL DATA (STAFF GAUGE AND SENSOR DEPTH)

[a]Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?

Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):

a - Staff Gauge Height and Sensor Station Water Depth readings should be from about the same time (+/- 5 minutes).
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

*24 hr time stamp on sensor station data

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EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi; password: drwi

Name(s):

Site ID: | LoggerID:

Stream Name: | Location:

GPS (Lat/Long): | Date: Arrival Time: AM/PM? *EST/EDT?

*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)

Photos? Yes/No | Water Clarity (Clear, Cloudy, Muddy):

Precipitation last 24 Hours? Yes/No Amount:

General Notes/ Photo Descriptions:

SENSOR STATION - SENSOR CLEANING

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling

GRAB SAMPLE INFORMATION (COLLECT IF WATER IS HIGH/TURBID OR HIGHER THAN NORMAL CONDUCTIVITY)

Grab Sample Taken? Yes/No | Time collected (to minute): AM/PM? EST/EDT?

Sample Number: | Volume:

Bottle Type: | Date Shipped:

Lab Sent To: | Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (COMPLETE IN FIELD OR OFFICE)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU):	Time (military):	Not applicable	Always EST

*For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or down-load from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).

QUALITY CONTROL WATER LEVEL DATA (STAFF GAUGE AND SENSOR DEPTH)

*Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?

Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):

a - Staff Gauge Height and Sensor Station Water Depth readings should be from about the same time (+/- 5 minutes).
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

Time for Sensor Station data is always in 24hr time (aka military)(0:00-24:00) and always EST online (dreamhoster.com) and on microSD card

- *Note that the data.wikiwatershed.org (data.envirodiy.org) site currently lists time in UTC (Coordinated Universal Time = 4hrs ahead of EDT, 5hrs ahead of EST) – this may be changed in the future*

	A	B	C	D	E	F	G	H	I	J
1	SL081 - Mayfly CTD & Turbidity Logger									
2	DateTime_EST	TZ-Offset	Loggertime	BoardTemp	Battery_V	CTD_Depth_mm	CTD_temp_DegC	CTD_cond_dS/m	Turb_low_NTU	Turb_high_NTU
3	6/7/2017 15:55	-5	550166100	22.8	4.03	120.3	16.4	447.3	7.2	7.1
4	6/7/2017 16:00	-5	550166400	20.8	4.03	119.7	16.4	449	8.3	8.3
5	6/7/2017 16:05	-5	550166700	20.3	4.03	120.7	16.4	447.7	7.6	7.7
6	6/7/2017 16:10	-5	550167000	19.8	4.03	120.7	16.4	450.3	6.8	6.8
7	6/7/2017 16:15	-5	550167300	19.8	4.03	120.3	16.4	452	7	7
8	6/7/2017 16:20	-5	550167600	19.5	4.03	120	16.4	449.3	4.6	4.5
9	6/7/2017 16:25	-5	550167900	19.5	4.03	119	16.4	450.7	5.5	5.4
10	6/7/2017 16:30	-5	550168200	19.3	4.03	118.3	16.4	449	6.4	6.4
11	6/7/2017 16:35	-5	550168500	19.3	4.03	119.7	16.4	448.7	6.3	6.2
12	6/7/2017 16:40	-5	550168800	19.3	4.03	119.7	16.4	449.7	3.7	3.7
13	6/7/2017 16:45	-5	550169100	19	4.03	120	16.4	449.7	2.4	2.2
14	6/7/2017 16:50	-5	550169400	18.8	4.03	118.3	16.4	447.7	3.8	3.6
15	6/7/2017 16:55	-5	550169700	18.8	4.03	119	16.4	448.3	3.1	3
16	6/7/2017 17:00	-5	550170000	18.5	4.03	118	16.4	449.3	3.4	3.3
17	6/7/2017 17:05	-5	550170317	19.8	4.47	116.3	16.4	448.7	1.1	0.9
18	6/7/2017 17:10	-5	550170600	19	4.05	116.3	16.4	449	1	0.8
19	6/7/2017 17:15	-5	550170900	18.5	4.05	116	16.3	449	0.9	0.7
20	6/7/2017 17:20	-5	550171200	18.5	4.05	117	16.3	449	0.9	0.7
21	6/7/2017 17:25	-5	550171500	18.3	4.05	116.3	16.3	449.3	0.9	0.7
22	6/7/2017 17:30	-5	550171800	18.3	4.05	116.3	16.3	448.3	0.9	0.7
23	6/7/2017 17:35	-5	550172100	18	4.05	117	16.3	449.3	1	0.7
24	6/7/2017 17:40	-5	550172400	18	4.05	116.7	16.3	450	0.9	0.7
25	6/7/2017 17:45	-5	550172700	18	4.05	117.7	16.3	448.3	0.9	0.7
26	6/7/2017 17:50	-5	550173000	17.8	4.05	117.3	16.3	448.7	0.9	0.7
27	6/7/2017 17:55	-5	550173300	17.8	4.05	116	16.3	447.7	0.9	0.7

STROUD WATER RESEARCH CENTER

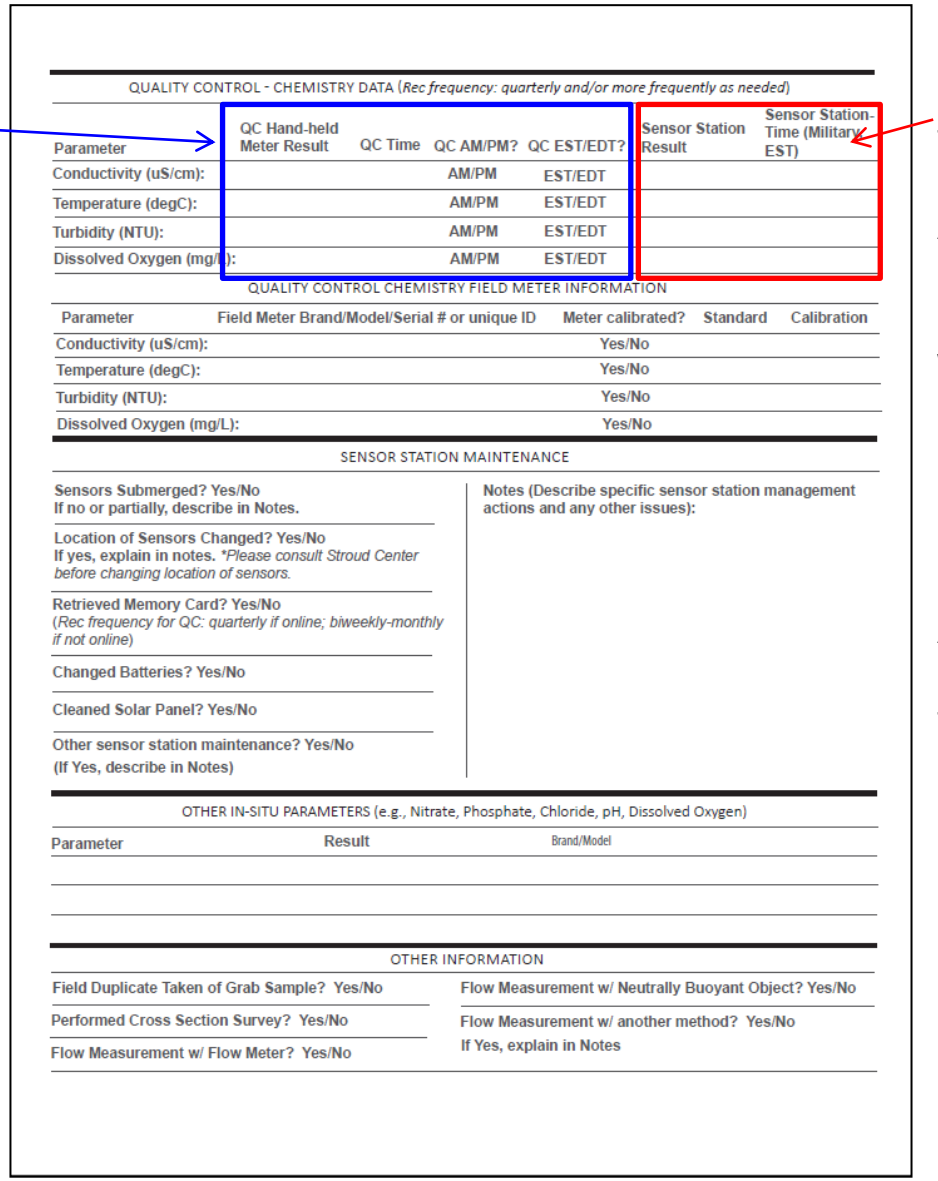
QUALITY CONTROL CHEMISTRY DATA

Use *calibrated* hand held field meter to measure the same parameters as are measured by the sensor station. Sensor station data and field meter data should be from the same time (+/- 5 minutes)

This type of QC is ***very*** important for confirming validity of sensor station data

*See Appendix D in manual for list of meters (https://docs.google.com/document/d/17iWKFOjD6tSFT6-a5mItXlgO8uhXjsA_voGDVRxEBTI/edit?usp=sharing)

NOTE – RECOMMENDATION IS TO DO QUALITY CONTROL ON AT LEAST A QUARTERLY BASIS (EVERY 3 MONTHS)



QUALITY CONTROL - CHEMISTRY DATA (*Rec frequency: quarterly and/or more frequently as needed*)

Parameter	QC Hand-held Meter Result	QC Time	QC AM/PM?	QC EST/EDT?	Sensor Station Result	Sensor Station-Time (Military EST)
Conductivity (uS/cm):			AM/PM	EST/EDT		
Temperature (degC):			AM/PM	EST/EDT		
Turbidity (NTU):			AM/PM	EST/EDT		
Dissolved Oxygen (mg/L):			AM/PM	EST/EDT		

QUALITY CONTROL CHEMISTRY FIELD METER INFORMATION

Parameter	Field Meter Brand/Model/Serial # or unique ID	Meter calibrated?	Standard	Calibration
Conductivity (uS/cm):		Yes/No		
Temperature (degC):		Yes/No		
Turbidity (NTU):		Yes/No		
Dissolved Oxygen (mg/L):		Yes/No		

SENSOR STATION MAINTENANCE

Sensors Submerged? Yes/No
If no or partially, describe in Notes.

Location of Sensors Changed? Yes/No
If yes, explain in notes. **Please consult Stroud Center before changing location of sensors.*

Retrieved Memory Card? Yes/No
(*Rec frequency for QC: quarterly if online; biweekly-monthly if not online*)

Changed Batteries? Yes/No

Cleaned Solar Panel? Yes/No

Other sensor station maintenance? Yes/No
(If Yes, describe in Notes)

Notes (Describe specific sensor station management actions and any other issues):

OTHER IN-SITU PARAMETERS (e.g., Nitrate, Phosphate, Chloride, pH, Dissolved Oxygen)

Parameter	Result	Brand/Model

OTHER INFORMATION

Field Duplicate Taken of Grab Sample? Yes/No

Performed Cross Section Survey? Yes/No

Flow Measurement w/ Flow Meter? Yes/No

Flow Measurement w/ Neutrally Buoyant Object? Yes/No

Flow Measurement w/ another method? Yes/No
If Yes, explain in Notes

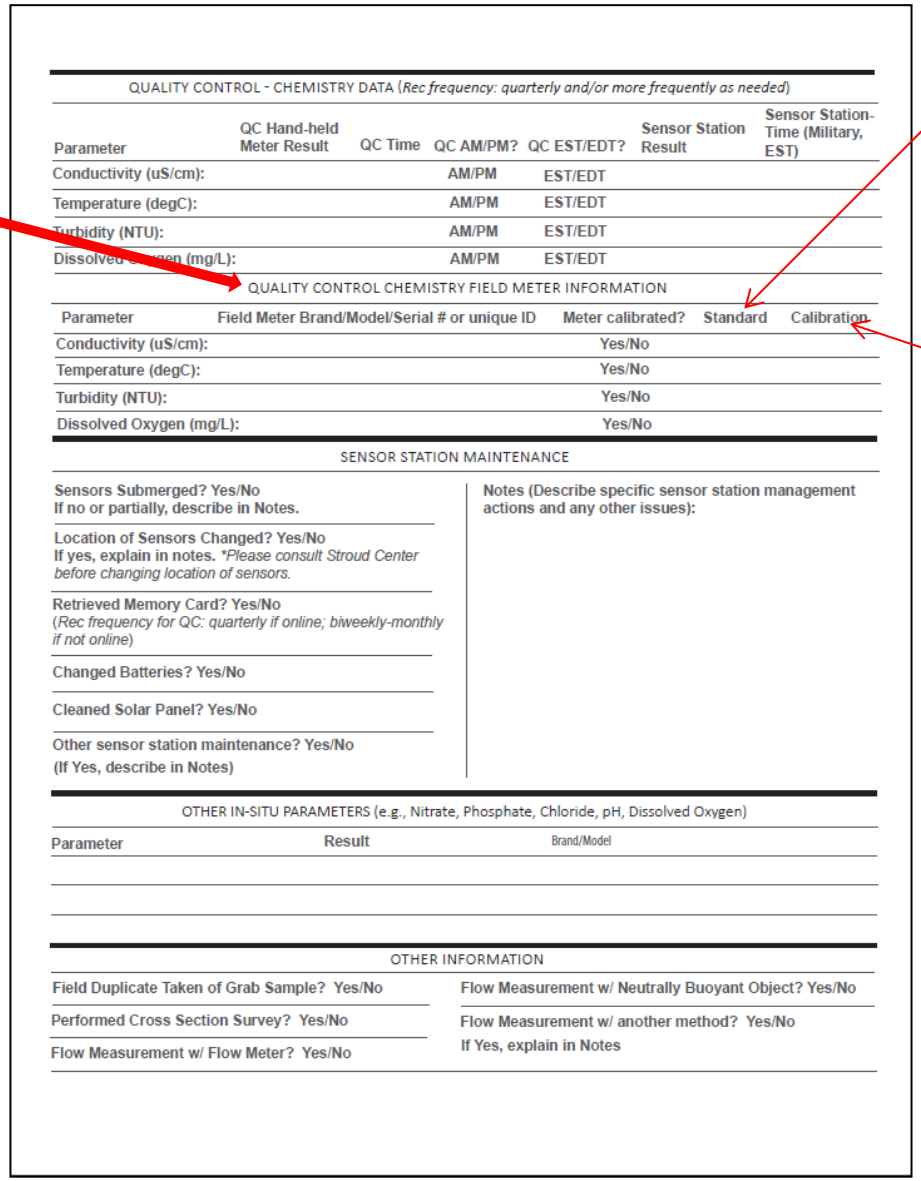
Sensor station data from online or from microSD card. Access data while on-site if possible (via cell phone access to websites or via microSD card [bring replacement card, adaptor, and computer])

All sensor station data recorded here from same time

STROUD WATER RESEARCH CENTER

QUALITY CONTROL CHEMISTRY FIELD METER INFO

Field meter calibration information. This is metadata associated with the QC measurements (previous section)



QUALITY CONTROL - CHEMISTRY DATA (*Rec frequency: quarterly and/or more frequently as needed*)

Parameter	QC Hand-held Meter Result	QC Time	QC AM/PM?	QC EST/EDT?	Sensor Station Result	Sensor Station-Time (Military, EST)
Conductivity (uS/cm):			AM/PM	EST/EDT		
Temperature (degC):			AM/PM	EST/EDT		
Turbidity (NTU):			AM/PM	EST/EDT		
Dissolved Oxygen (mg/L):			AM/PM	EST/EDT		

QUALITY CONTROL CHEMISTRY FIELD METER INFORMATION

Parameter	Field Meter Brand/Model/Serial # or unique ID	Meter calibrated?	Standard	Calibration
Conductivity (uS/cm):		Yes/No		
Temperature (degC):		Yes/No		
Turbidity (NTU):		Yes/No		
Dissolved Oxygen (mg/L):		Yes/No		

SENSOR STATION MAINTENANCE

Sensors Submerged? Yes/No
If no or partially, describe in Notes.

Location of Sensors Changed? Yes/No
If yes, explain in notes. **Please consult Stroud Center before changing location of sensors.*

Retrieved Memory Card? Yes/No
(*Rec frequency for QC: quarterly if online; biweekly-monthly if not online*)

Changed Batteries? Yes/No

Cleaned Solar Panel? Yes/No

Other sensor station maintenance? Yes/No
(If Yes, describe in Notes)

Notes (Describe specific sensor station management actions and any other issues):

OTHER IN-SITU PARAMETERS (e.g., Nitrate, Phosphate, Chloride, pH, Dissolved Oxygen)

Parameter	Result	Brand/Model

OTHER INFORMATION

Field Duplicate Taken of Grab Sample? Yes/No

Performed Cross Section Survey? Yes/No

Flow Measurement w/ Flow Meter? Yes/No

Flow Measurement w/ Neutrally Buoyant Object? Yes/No

Flow Measurement w/ another method? Yes/No
If Yes, explain in Notes

Standard used for performing calibration (e.g., conductivity 1413 uS/cm)

Reading from the meter after calibration – serves as a confirmation that calibration worked

STROUD WATER RESEARCH CENTER

OTHER SENSOR STATION MAINTENANCE AND QUALITY CONTROL

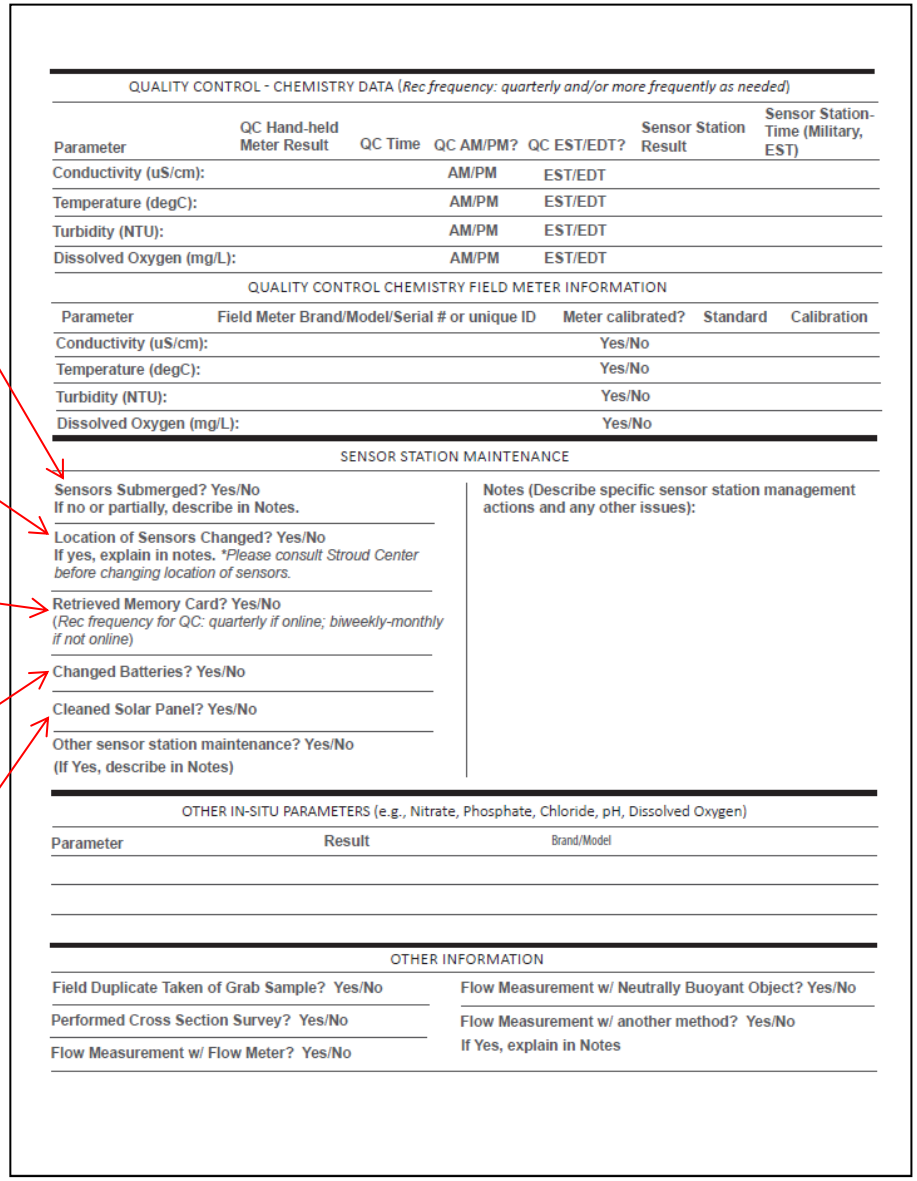
Sensors Submerged? Sensors need to be submerged to work properly and may need to be repositioned if they are not fully submerged.

Location of Sensors Changed? This may be necessary if channel changes or water levels change dramatically. Offset can be affected if sensors are changed so this needs to be done carefully and before and after staff gauge and sensor depths need to be recorded.

Retrieved Memory Card? Quality Control procedure (download data from SD card every 2-4 weeks if not online, quarterly if online). Turn Mayfly logger off, remove microSD card, insert new blank microSD card, turn logger back on. Acquire data from memory card when online data are missing or unavailable.

Changed Batteries? Battery level should be >3.7v – below this sensor station function may be impaired. In high shade areas or areas where cell signal is low (and repeated attempts to send data occur) battery may not be fully charged by solar and changing batteries may be required to sustain proper power.

Cleaned Solar Panel? Clean solar panel of dust, debris, etc.



QUALITY CONTROL - CHEMISTRY DATA (*Rec frequency: quarterly and/or more frequently as needed*)

Parameter	QC Hand-held Meter Result	QC Time	QC AM/PM?	QC EST/EDT?	Sensor Station Result	Sensor Station-Time (Military, EST)
Conductivity (uS/cm):			AM/PM	EST/EDT		
Temperature (degC):			AM/PM	EST/EDT		
Turbidity (NTU):			AM/PM	EST/EDT		
Dissolved Oxygen (mg/L):			AM/PM	EST/EDT		

QUALITY CONTROL CHEMISTRY FIELD METER INFORMATION

Parameter	Field Meter Brand/Model/Serial # or unique ID	Meter calibrated?	Standard	Calibration
Conductivity (uS/cm):		Yes/No		
Temperature (degC):		Yes/No		
Turbidity (NTU):		Yes/No		
Dissolved Oxygen (mg/L):		Yes/No		

SENSOR STATION MAINTENANCE

Sensors Submerged? Yes/No
If no or partially, describe in Notes.

Location of Sensors Changed? Yes/No
If yes, explain in notes. **Please consult Stroud Center before changing location of sensors.*

Retrieved Memory Card? Yes/No
(*Rec frequency for QC: quarterly if online; biweekly-monthly if not online*)

Changed Batteries? Yes/No

Cleaned Solar Panel? Yes/No

Other sensor station maintenance? Yes/No
(If Yes, describe in Notes)

Notes (Describe specific sensor station management actions and any other issues):

OTHER IN-SITU PARAMETERS (e.g., Nitrate, Phosphate, Chloride, pH, Dissolved Oxygen)

Parameter	Result	Brand/Model

OTHER INFORMATION

Field Duplicate Taken of Grab Sample? Yes/No

Performed Cross Section Survey? Yes/No

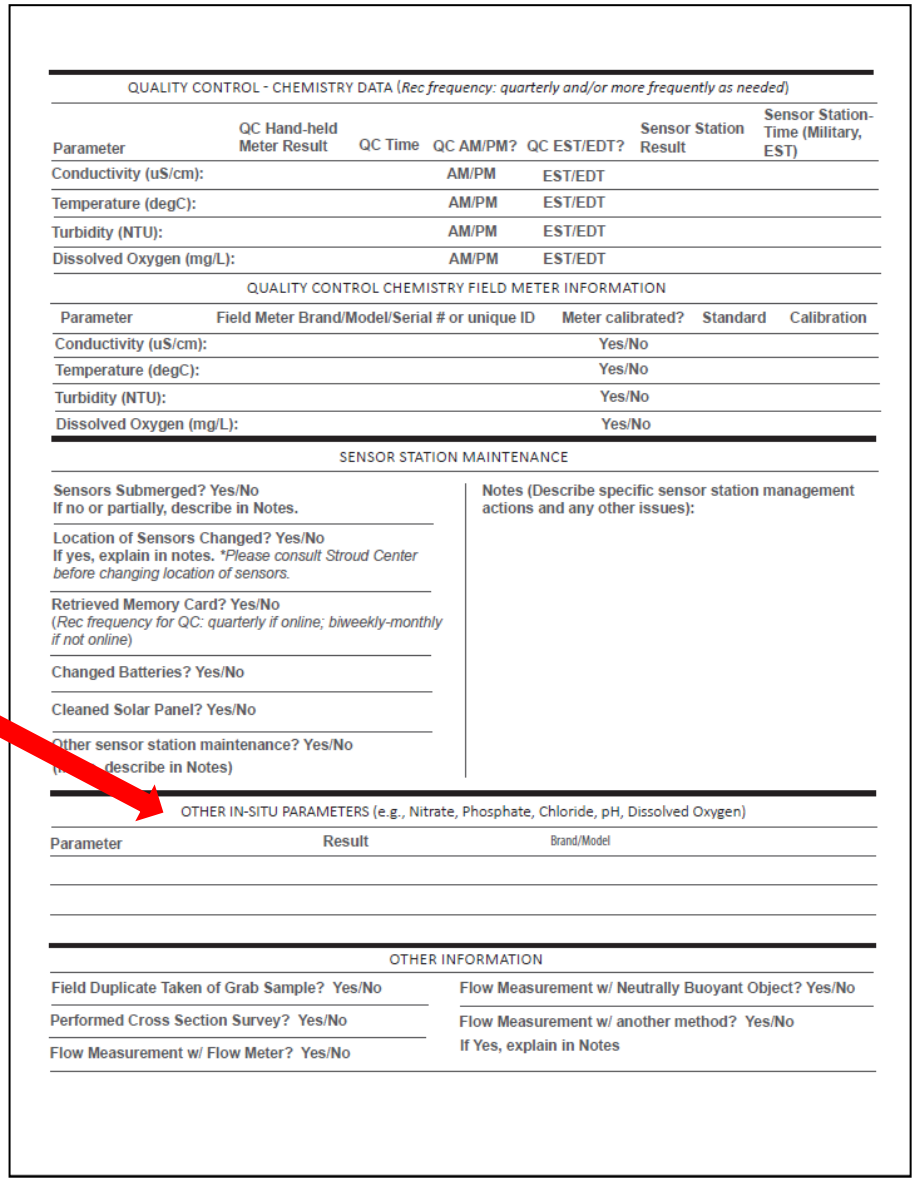
Flow Measurement w/ Flow Meter? Yes/No

Flow Measurement w/ Neutrally Buoyant Object? Yes/No

Flow Measurement w/ another method? Yes/No
If Yes, explain in Notes

OTHER IN-SITU PARAMETERS

Record any other chemistry measurements here including meters, test strips, etc.



QUALITY CONTROL - CHEMISTRY DATA (*Rec frequency: quarterly and/or more frequently as needed*)

Parameter	QC Hand-held Meter Result	QC Time	QC AM/PM?	QC EST/EDT?	Sensor Station Result	Sensor Station-Time (Military, EST)
Conductivity (uS/cm):			AM/PM	EST/EDT		
Temperature (degC):			AM/PM	EST/EDT		
Turbidity (NTU):			AM/PM	EST/EDT		
Dissolved Oxygen (mg/L):			AM/PM	EST/EDT		

QUALITY CONTROL CHEMISTRY FIELD METER INFORMATION

Parameter	Field Meter Brand/Model/Serial # or unique ID	Meter calibrated?	Standard	Calibration
Conductivity (uS/cm):		Yes/No		
Temperature (degC):		Yes/No		
Turbidity (NTU):		Yes/No		
Dissolved Oxygen (mg/L):		Yes/No		

SENSOR STATION MAINTENANCE

Sensors Submerged? Yes/No
If no or partially, describe in Notes.

Location of Sensors Changed? Yes/No
If yes, explain in notes. **Please consult Stroud Center before changing location of sensors.*

Retrieved Memory Card? Yes/No
(*Rec frequency for QC: quarterly if online; biweekly-monthly if not online*)

Changed Batteries? Yes/No

Cleaned Solar Panel? Yes/No

Other sensor station maintenance? Yes/No
(describe in Notes)

Notes (Describe specific sensor station management actions and any other issues):

OTHER IN-SITU PARAMETERS (e.g., Nitrate, Phosphate, Chloride, pH, Dissolved Oxygen)

Parameter	Result	Brand/Model

OTHER INFORMATION

Field Duplicate Taken of Grab Sample? Yes/No

Performed Cross Section Survey? Yes/No

Flow Measurement w/ Flow Meter? Yes/No

Flow Measurement w/ Neutrally Buoyant Object? Yes/No

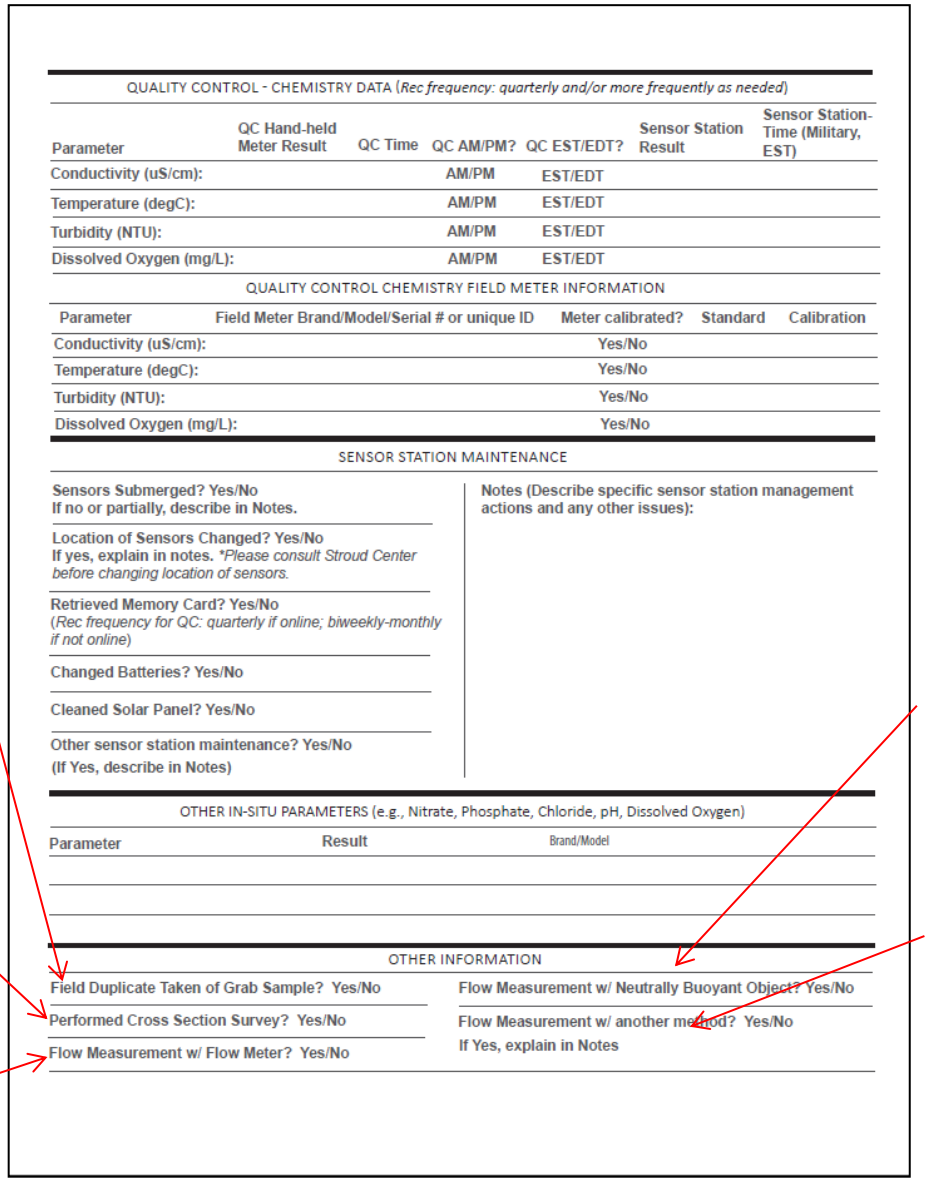
Flow Measurement w/ another method? Yes/No
If Yes, explain in Notes

OTHER INFORMATION

Field duplicates taken for QC purposes – work with Stroud Center on this

Cross section survey – usually done at time of installation – allows prediction of cross sectional wetted area for discharge calculations during unwadeable conditions. This info goes into the StagetoAreaPredictor spreadsheet (see manual)

Discharge measurements using a flow meter – see Stream Discharge Data form (see manual)



QUALITY CONTROL - CHEMISTRY DATA (*Rec frequency: quarterly and/or more frequently as needed*)

Parameter	QC Hand-held Meter Result	QC Time	QC AM/PM?	QC EST/EDT?	Sensor Station Result	Sensor Station-Time (Military, EST)
Conductivity (uS/cm):			AM/PM	EST/EDT		
Temperature (degC):			AM/PM	EST/EDT		
Turbidity (NTU):			AM/PM	EST/EDT		
Dissolved Oxygen (mg/L):			AM/PM	EST/EDT		

QUALITY CONTROL CHEMISTRY FIELD METER INFORMATION

Parameter	Field Meter Brand/Model/Serial # or unique ID	Meter calibrated?	Standard	Calibration
Conductivity (uS/cm):		Yes/No		
Temperature (degC):		Yes/No		
Turbidity (NTU):		Yes/No		
Dissolved Oxygen (mg/L):		Yes/No		

SENSOR STATION MAINTENANCE

Sensors Submerged? Yes/No
If no or partially, describe in Notes.

Location of Sensors Changed? Yes/No
If yes, explain in notes. **Please consult Stroud Center before changing location of sensors.*

Retrieved Memory Card? Yes/No
(*Rec frequency for QC: quarterly if online; biweekly-monthly if not online*)

Changed Batteries? Yes/No

Cleaned Solar Panel? Yes/No

Other sensor station maintenance? Yes/No
(If Yes, describe in Notes)

Notes (Describe specific sensor station management actions and any other issues):

OTHER IN-SITU PARAMETERS (e.g., Nitrate, Phosphate, Chloride, pH, Dissolved Oxygen)

Parameter	Result	Brand/Model

OTHER INFORMATION

Field Duplicate Taken of Grab Sample? Yes/No

Performed Cross Section Survey? Yes/No

Flow Measurement w/ Flow Meter? Yes/No

Flow Measurement w/ Neutrally Buoyant Object? Yes/No

Flow Measurement w/ another method? Yes/No
If Yes, explain in Notes

Discharge measurements using a timed neutral buoyant object – see Stream Discharge Data form (see manual)

Discharge measurements using a another method, e.g., timed fill (see manual)

STROUD WATER RESEARCH CENTER

Data entry: Wikiwatershed.org/drwi

STROUD WATER RESEARCH CENTER
www.stroudcenter.org

EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi; password: drwi

Name(s):

Site ID:

Stream Name:

GPS (Lat/Long):

Photos? Yes/No

Precipitation last 24 Hours? Yes/No Amount:

General Notes/ Photo Descriptions:

LoggerID:

Location:

Date: Arrival Time: AM/PM? *EST/EDT?

*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)

Water Clarity (Clear, Cloudy, Muddy):

SENSOR CLEANING (*Recommended frequency: weekly or biweekly; monthly if only CTD sensor*)

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling

GRAB SAMPLES (*Rec frequency: Situational; for rating curves, collect when water is high/turbid or higher than normal conductivity*)

Grab Sample Taken? Yes/No

Sample Number:

Bottle Type:

Lab Sent To:

Time collected (to minute): AM/PM? EST/EDT?

Volume:

Date Shipped:

Notes:

*SENSOR STATION DATA TO MATCH WITH GRAB SAMPLE LAB RESULTS (*Complete in field or office*)

Sensor station Conductivity (uS/cm):	Time (military):	Not applicable	Always EST
Sensor station Turbidity (NTU):	Time (military):	Not applicable	Always EST

*For use in Turbidity/TSS and Conductivity/Chloride rating curve development. Record sensor station Cond and Turb data at time nearest to grab sample collection time. Can be completed in field (by accessing online data) or in office (online or download from microSD card). Acquire final grab sample lab results from Stroud Center (or lab that processed sample).

QUALITY CONTROL - WATER LEVEL DATA (*Rec frequency: quarterly and/or more frequently as needed*)

[a]Staff Gauge Height (m):	Time:	AM/PM?	EST/EDT?
[a]Sensor Station Water Depth (mm):	Time (military):	Not applicable	Always EST
[b]QC Sensor Station Water Depth (mm):	Time:	AM/PM?	EST/EDT?

Offset (=Staff Gauge Height - Sensor Station Water Depth)(mm):

a - Staff Gauge Height and Sensor Station Water Depth readings should be from about the same time (+/- 5 minutes).
b - Use metric ruler to measure from pressure transducer (white disc in CTD sensor) to water surface. Note - this depth measure may be slightly different from the sensor-measured depth but should be consistent over time.

QUALITY CONTROL - CHEMISTRY DATA (*Rec frequency: quarterly and/or more frequently as needed*)

Parameter	QC Hand-held Meter Result	QC Time	QC AM/PM?	QC EST/EDT?	Sensor Station Result	Sensor Station-Time (Military, EST)
Conductivity (uS/cm):			AM/PM	EST/EDT		
Temperature (degC):			AM/PM	EST/EDT		
Turbidity (NTU):			AM/PM	EST/EDT		
Dissolved Oxygen (mg/L):			AM/PM	EST/EDT		

QUALITY CONTROL CHEMISTRY FIELD METER INFORMATION

Parameter	Field Meter Brand/Model/Serial # or unique ID	Meter calibrated?	Standard	Calibration
Conductivity (uS/cm):		Yes/No		
Temperature (degC):		Yes/No		
Turbidity (NTU):		Yes/No		
Dissolved Oxygen (mg/L):		Yes/No		

SENSOR STATION MAINTENANCE

Sensors Submerged? Yes/No
If no or partially, describe in Notes.

Location of Sensors Changed? Yes/No
If yes, explain in notes. *Please consult Stroud Center before changing location of sensors.*

Retrieved Memory Card? Yes/No
(*Rec frequency for QC: quarterly if online; biweekly-monthly if not online*)

Changed Batteries? Yes/No

Cleaned Solar Panel? Yes/No

Other sensor station maintenance? Yes/No
(If Yes, describe in Notes)

Notes (Describe specific sensor station management actions and any other issues):

OTHER IN-SITU PARAMETERS (e.g., Nitrate, Phosphate, Chloride, pH, Dissolved Oxygen)

Parameter	Result	Brand/Model

OTHER INFORMATION

Field Duplicate Taken of Grab Sample? Yes/No

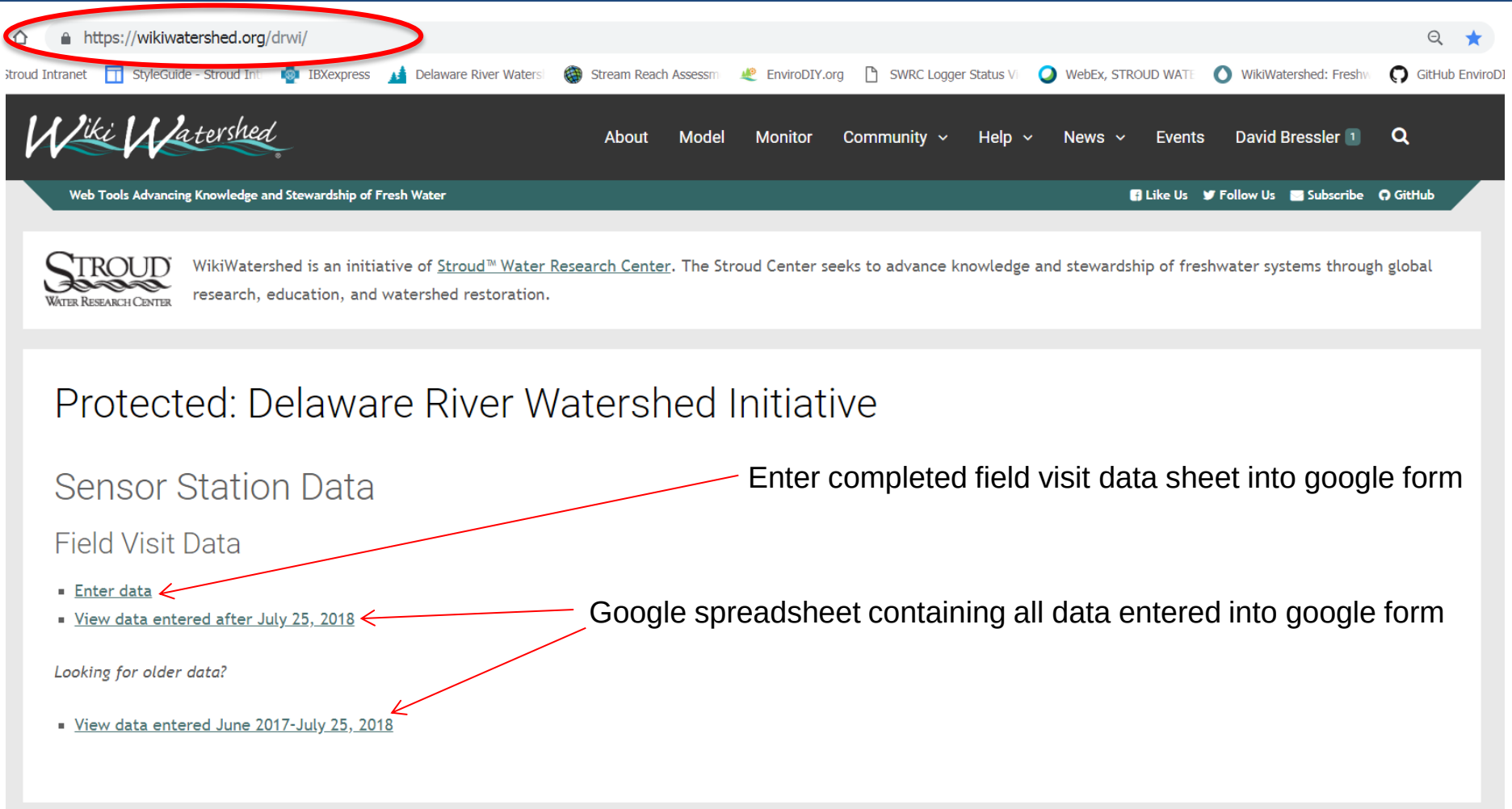
Performed Cross Section Survey? Yes/No

Flow Measurement w/ Flow Meter? Yes/No

Flow Measurement w/ Neutrally Buoyant Object? Yes/No

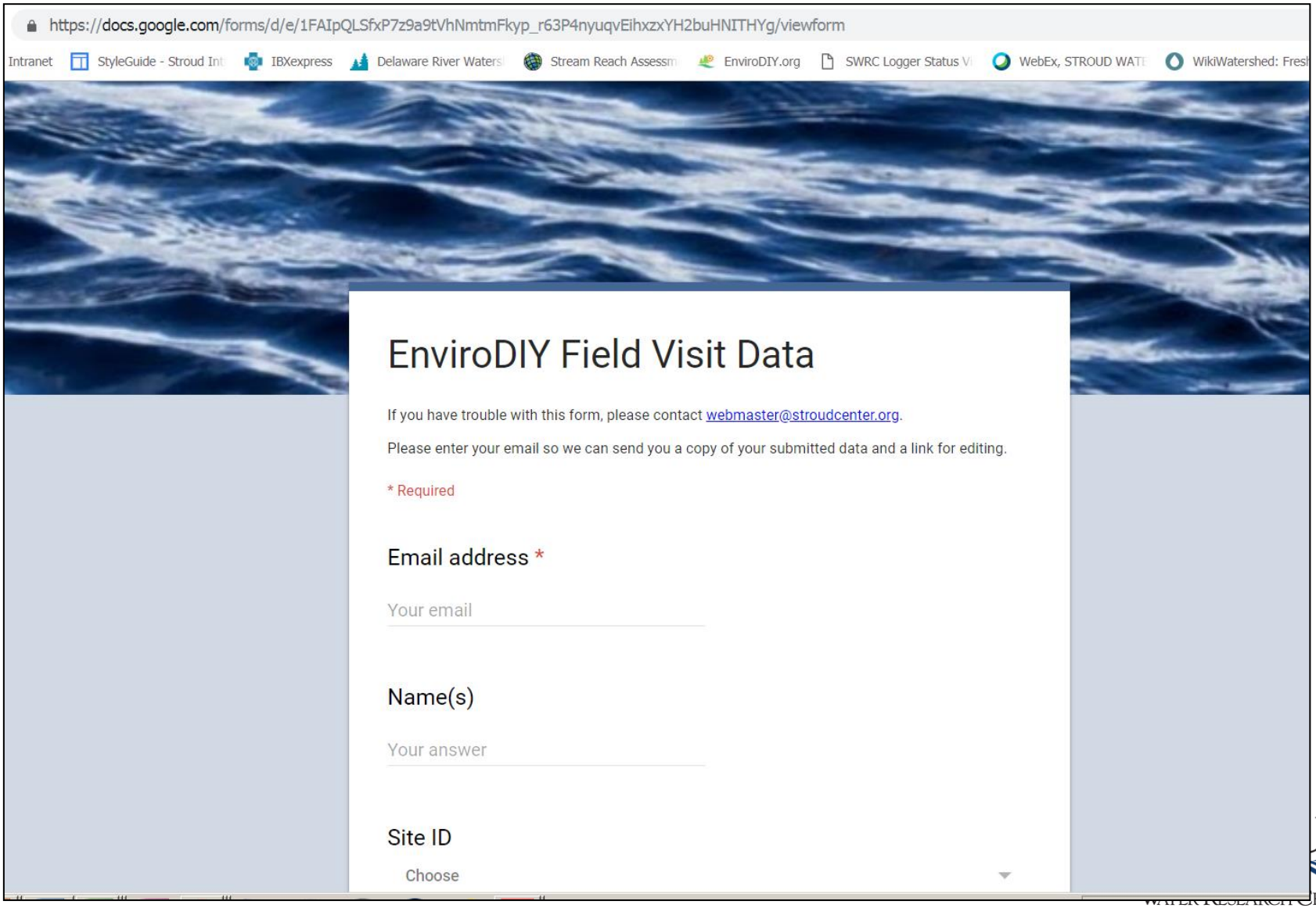
Flow Measurement w/ another method? Yes/No
If Yes, explain in Notes

Data entry: Wikiwatershed.org/drwi

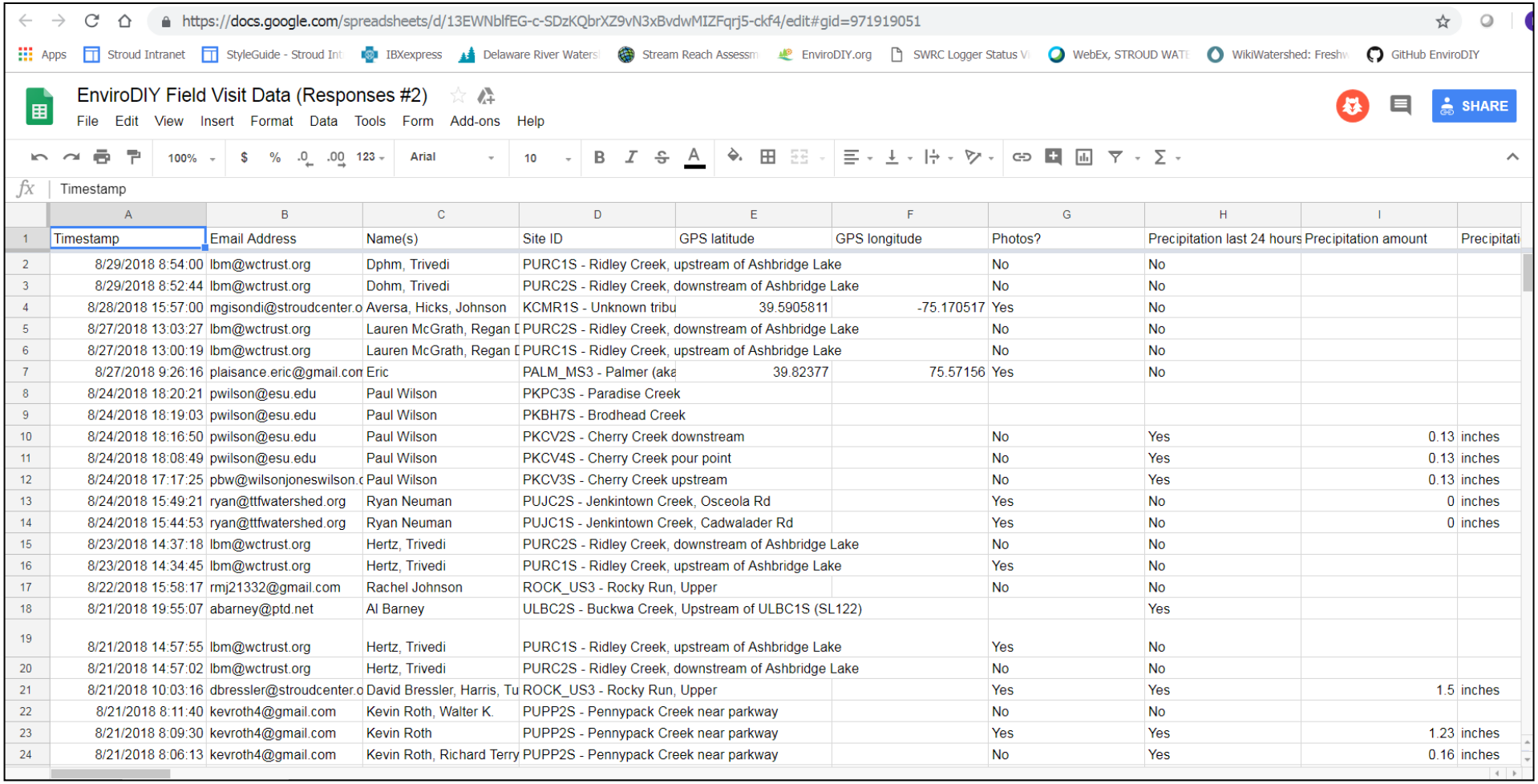


STROUD WATER RESEARCH CENTER

Wikiwatershed.org/drwi – google form



Wikiwatershed.org/drwi – google summary spreadsheet



https://docs.google.com/spreadsheets/d/13EWNblfEG-c-SDzKQbrXZ9vN3xBvdwMIZFqrj5-ckf4/edit#gid=971919051

Apps | Stroud Intranet | StyleGuide - Stroud Int | IBXexpress | Delaware River Waters | Stream Reach Assessm | EnviroDIY.org | SWRC Logger Status Vi | WebEx, STROUD WATE | WikiWatershed: Freshw | GitHub EnviroDIY

EnviroDIY Field Visit Data (Responses #2)

File Edit View Insert Format Data Tools Form Add-ons Help

SHARE

Timestamp

	A	B	C	D	E	F	G	H	I	
1	Timestamp	Email Address	Name(s)	Site ID	GPS latitude	GPS longitude	Photos?	Precipitation last 24 hours	Precipitation amount	Precipitati
2	8/29/2018 8:54:00	lbm@wctrust.org	Dphm, Trivedi	PURC1S - Ridley Creek, upstream of Ashbridge Lake			No	No		
3	8/29/2018 8:52:44	lbm@wctrust.org	Dohm, Trivedi	PURC2S - Ridley Creek, downstream of Ashbridge Lake			No	No		
4	8/28/2018 15:57:00	mgisondi@stroudcenter.o	Aversa, Hicks, Johnson	KCMR1S - Unknown tribu	39.5905811	-75.170517	Yes	No		
5	8/27/2018 13:03:27	lbm@wctrust.org	Lauren McGrath, Regan [	PURC2S - Ridley Creek, downstream of Ashbridge Lake			No	No		
6	8/27/2018 13:00:19	lbm@wctrust.org	Lauren McGrath, Regan [	PURC1S - Ridley Creek, upstream of Ashbridge Lake			No	No		
7	8/27/2018 9:26:16	plaisance.eric@gmail.com	Eric	PALM_MS3 - Palmer (aka	39.82377	75.57156	Yes	No		
8	8/24/2018 18:20:21	pwilson@esu.edu	Paul Wilson	PKPC3S - Paradise Creek						
9	8/24/2018 18:19:03	pwilson@esu.edu	Paul Wilson	PKBH7S - Brodhead Creek						
10	8/24/2018 18:16:50	pwilson@esu.edu	Paul Wilson	PKCV2S - Cherry Creek downstream			No	Yes	0.13	inches
11	8/24/2018 18:08:49	pwilson@esu.edu	Paul Wilson	PKCV4S - Cherry Creek pour point			No	Yes	0.13	inches
12	8/24/2018 17:17:25	pbw@wilsonjoneswilson.c	Paul Wilson	PKCV3S - Cherry Creek upstream			No	Yes	0.13	inches
13	8/24/2018 15:49:21	ryan@ttfwatershed.org	Ryan Neuman	PUJC2S - Jenkintown Creek, Osceola Rd			Yes	No	0	inches
14	8/24/2018 15:44:53	ryan@ttfwatershed.org	Ryan Neuman	PUJC1S - Jenkintown Creek, Cadwalader Rd			Yes	No	0	inches
15	8/23/2018 14:37:18	lbm@wctrust.org	Hertz, Trivedi	PURC2S - Ridley Creek, downstream of Ashbridge Lake			No	No		
16	8/23/2018 14:34:45	lbm@wctrust.org	Hertz, Trivedi	PURC1S - Ridley Creek, upstream of Ashbridge Lake			Yes	No		
17	8/22/2018 15:58:17	rmj21332@gmail.com	Rachel Johnson	ROCK_US3 - Rocky Run, Upper			No	No		
18	8/21/2018 19:55:07	abarney@ptd.net	Al Barney	ULBC2S - Buckwa Creek, Upstream of ULBC1S (SL122)				Yes		
19	8/21/2018 14:57:55	lbm@wctrust.org	Hertz, Trivedi	PURC1S - Ridley Creek, upstream of Ashbridge Lake			Yes	No		
20	8/21/2018 14:57:02	lbm@wctrust.org	Hertz, Trivedi	PURC2S - Ridley Creek, downstream of Ashbridge Lake			No	No		
21	8/21/2018 10:03:16	dbressler@stroudcenter.o	David Bressler, Harris, Tu	ROCK_US3 - Rocky Run, Upper			Yes	Yes	1.5	inches
22	8/21/2018 8:11:40	kevroth4@gmail.com	Kevin Roth, Walter K.	PUPP2S - Pennypack Creek near parkway			No	No		
23	8/21/2018 8:09:30	kevroth4@gmail.com	Kevin Roth	PUPP2S - Pennypack Creek near parkway			Yes	Yes	1.23	inches
24	8/21/2018 8:06:13	kevroth4@gmail.com	Kevin Roth, Richard Terry	PUPP2S - Pennypack Creek near parkway			No	Yes	0.16	inches

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