Appendix D: Field Data Sheets

H-GAC – Ambient Monitoring Data Sheet

Date: _____/_____/_____ Station: TCEQ ID: # 20452 – Caney Creek @ Fire Tower Rd., west of Woodbranch

Time (military): _____ Samples Collected by: _____

Total Water Depth at sampling location	meters		# of Days Since Last Significant Rainfall	
Sampling Depth	meters			
Water Temperature	°C			
Specific Conductance	µS/cm			
pH	standard units			
Dissolved Oxygen	mg/L			

Secchi disk or tube	Observed Turbidity	Water Clarity	Water Color	Water Odor	Present Weather	Wind Intensity	Water Surface	Flow Severity
meters	1 – low 2 – medium 3 – high	1 – excellent 2 – good 3 – fair 4 – poor	1 – brownish 2 – reddish 3 – greenish 4 – blackish 5 – clear 6 – other	1 – sewage 2 – oily/chemical 3 – rotten egg 4 – musky 5 – fishy 6 – none 7 – other	1 – clear 2 – partly cloudy 3 – cloudy 4 – raining 5 – other	1 – calm 2 – slight 3 –moderate 4 – strong	1 – calm 2 – ripples 3 – waves	1 – no flow 2 – low 3 – normal 4 – flood 5 – high 6 – dry

Flow Method	1 – gage 2 – electric 3 – mechanical 4 – weir/flume 5 – Doppler	
Flow Equipment	1 – M9 River Surveyor 2 – Flow Tracker 3 – OTT MF Pro	
Flow (Field)	cfs	
Flow (Post Processing)	cfs	

Maximum Pool Width	meters	
Maximum Pool Depth	meters	
Pool Length	meters	
Percent Pool Coverage in 500 meter Reach	%	
Comments or Observation		

Fresh (non-tidal) ✓

Marine (tidal) _____

Containers	Preservatives	Analyses	Requested
1 x 1 L Plastic	Iced	TSS	
1 x 1 L Plastic	Iced, H_2SO_4	NH3, NO2+NO3, TPO4	
1 x 500 mL Plastic	Iced	CL, SO4 (fresh only), NO2, NO3	
1 x 100 mL Sterile Plastic	Iced	Bacteria: *E. coli*	

Surveyor SN: _____ Sonde SN: _____

H-GAC – 24-Hour Dissolved Oxygen Monitoring Data Sheet

Station: **TCEQ ID: # 21965 – Spring Branch downstream of Shakey Hollow west of Woodbranch Village**

Deployment Date: _____/_____/_____ Time (military):_____ Deployed By _____

Deployed Sonde Serial Number/ID: _____ Fresh (non-tidal) ✓ Tidal _____

Flow (CFS)_____ Flow Method _____ (USGS Gage = 1, ADP=5) Water samples collected? Yes_____ No_____

Flow Severity: _____ (1 – no flow; 2 – low; 3 – normal; 4 – flood; 5 – high; 6 – dry)

Retrieval Date: _____/_____/_____ Time (military):_____ Retrieved By_____

Flow (CFS)_____ Flow Method _____ (USGS Gage = 1, ADP=5) Water samples collected? Yes____ No____

Data Check – Performed In Field At Time Of Retrieval

Date and Time of First Sample in Series _____ DO of First Sample_____

Date and Time of Last Sample in Series _____ DO of Last Sample_____

Series reviewed for depths < 0.00 and complete DO sequences of ≥0.00 _____ (add comments below)

Data Collection Check Performed By _____ Date _____ Time_____

COMMENTS

Sonde Data Downloaded By _____ **Date**_____ **Time**_____

Flow Discharge Summary Reviewed and Printed by _____**Date**_____

Flow Entered in Ambient Database By_____ **Date**_____
Even if NO water samples are collected, enter station ID, date, time, flow and flow method in the ambient monitoring database

Reviewed by QAO _____**Date**_____

QAO COMMENTS

Updated: March 13, 2018

H-GAC Surface Water Quality Monitoring Program

Stream Flow (Discharge) Measurement Form

Stream:_____ Date:_____

Station:_____

Description:_____

Time Begin:_____ Time End:_____ Meter Type:_____

Observers:_____ Stream Width*:_____ Section Width (W):_____

Observations:_____

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft)(m)	Velocity (V)		Flow (Q) (m^3/s) (ft^3/s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	

Pollution Control Services Department
101 S. Richey, Suite H
Pasadena, TX 77506 Fax: 713-274-6475 Phone: 713-920-2831

Sample Data and Custody Record

Id: _____ Type: _____ Permit No: _____ Date: _____ Time _____ AM PM

Site Id: _____ Name: _____ Key Map: _____

Site Info: _____

Sample Location: _____ Outfall: _____

Sample Location Info: _____

Outcome: ☐ Collected ☐ Collected (sample compromised) ☐ Field Test Only ☐ No Flow

Investigator(s): _____

Tests and Measurements

☐ Temperature (°C) ☐ Dissolved Oxygen (mg/L) ☐ Specific Conductivity (µS) ☐ Water Depth (meters)

☐ pH (standard units) ☐ Salinity (ppt) ☐ SECCHI Disk Transparency (meters)

Field Observations--Water

☐ Water Color 1-Brownish 2-Reddish 3-Greenish 4-Blackish 5-Clear 6-Other _____

☐ Surface Conditions 1-Clear 2-Scum 3-Foam 4-Debris 5-Sheen

☐ Water Odor 1-Sewage 2-Oily/Chemical 3-Rotten Egg 4-Musky 5-Fishy 6-None 7-Other _____

☐ Turbidity 1-Low 2-Medium 3-High

☐ Water Surface 1-Calm 2-Ripples 3-Waves 4-White Caps

Field Observations--Weather and Other

☐ Present Weather 1-Clear 2-Partly Cloudy 3-Cloudy 4-Rain 5-Other _____

☐ Wind Intensity 1-Calm 2-Slight 3-Moderate 4-Strong

☐ Tide Stage 1-Low 2-Falling 3-Slack 4-Rising 5-High

☐ Days Since Last Significant Rainfall Source: _____

☐ 89978(Number of people observed)

☐ 89979 (Evidence of activity)

Matrix: ☐ Air ☐ Drinking Water ☐ Liquid ☐ Oil ☐ Other Solid ☐ Particulate ☐ Sludge ☐ Soil ☐ Water ☐ Other

Collection Method ☐ Grab ☐ Composite

Samples Collected:

Bottle No.	Container Type	Container Size	Preservative	Ice?	Analysis Requested	Direct Coll. Req.	Collection Type	Split	Sampled By
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	

Run No.: 7
Field No.: 5
Station ID: 17482
USGS Gage Station ID: 08072760

City of Houston
Houston Health Department
Bureau of Pollution Control and Prevention
7411 Park Place Blvd
832.393.5730 FAX 832-393-5726
FIELD FORM & CHAIN OF CUSTODY FORM

HOUSTON HEALTH DEPARTMENT

Location Name: Langham Creek @ Hwy 6

Date: _____ **Time (hhmm):** _____ **Samples Collected by:** _____

Number of Days Since Last Rain Fall: _____ **Field Meter #:** _____ **Calibration Date:** _____

FIELD OBSERVATIONS

Flow Severity	Tidal Stage	Color	Odor	Water Surface	Current Weather	Wind Intensity

1 – no flow	1 – low	1 – brownish	1 – sewage	1 – calm	1 – clear	1 – calm
2 – low	2 – falling	2 – reddish	2 – oily/chemical	2 – ripples	2 – partly cloudy	2 – slight
3 – normal	3 – slack	3 – greenish	3 – rotten egg	3 – waves	3 – cloudy	3 – moderate
4 – flood	4 – rising	4 – blackish	4 – musky	4 - whitecaps	4 – rain	4 - strong
5 – high	5 – high	5 – clear	5 – fishy		5 - other	
6 – dry*		6 – other*	6 – none			
			7 – other*			

Flow Method	Flow (cfs)	Secchi Depth (cm)	Sample Depth (ft)	Total Depth (ft)

1 – flow-gauge station
5 - Doppler

INSTRUMENT READINGS

Temp (°C)	Conductivity (mS/cm)	pH (s.u.)	Salinity (PSS)	Dissolved Oxygen (mg/L)
(1.0 to 38.0°C)	(0.03 to 60 mS/cm)	(5.0 to 10.0 s.u.)	(0.009 to 45.0 PSS)	(0.5 to 15.0 mg/L)

***Other Observations:**
_____
_____
_____
_____
_____

Request for Analysis (circle what is requested)

1 – pH	**5 – Cl^-**	**9 – $N\text{-}NO_2$**
2 – Conductivity	**6 – SO_4**	
3 - TSS	**7 – $N\text{-}NH_3$**	**10 – *E. coli***
4 – $N\text{-}NO_3$	**8 – $T\text{-}PO_4$**	**11 – Enterococcus**

No. of Containers:

____ 100 mL sterile plastic **___ 1 gallon plastic**
____ 1 L plastic **____ 1 L plastic w/ H_2SO_4**
____ 1 L plastic (TKN) bottle w/ H_2SO_4 (Analyzed by H-GAC Contract Lab)

Acid ID#: H_2SO_4

For lab use only:

Samples Received on Ice? Yes / No **Thermometer ID:**_____
Temp (°C) _____ **Corrected Temp (°C)** _____ **Corrected Factor(°C)** _____

Samples relinquished by: _____ **Date/Time:** _____

Lab Sample No.: _____ **Received by:** _____ **Date/Time:** _____

Run No.: 6
Field No.: 4
Station ID: 16479

City of Houston
Houston Health Department
Bureau of Pollution Control and Prevention
7411 Park Place Blvd
832.393.5730 FAX 832-393-5726
FIELD FORM & CHAIN OF CUSTODY FORM

HOUSTON HEALTH DEPARTMENT

Location Name: Brays Bayou @ S. Wayside

Date: _____ **Time (hhmm):** _____ **Samples Collected by:** _____

Number of Days Since Last Rain Fall: _____ **Field Meter #:** _____ **Calibration Date:** _____

FIELD OBSERVATIONS

Flow Severity	Tidal Stage	Color	Odor	Water Surface	Current Weather	Wind Intensity
1 – no flow 2 – low 3 – normal 4 – flood 5 – high 6 – dry*	1 – low 2 – falling 3 – slack 4 – rising 5 – high	1 – brownish 2 – reddish 3 – greenish 4 – blackish 5 – clear 6 – other*	1 – sewage 2 – oily/chemical 3 – rotten egg 4 – musky 5 – fishy 6 – none 7 – other*	1 – calm 2 – ripples 3 – waves 4 - whitecaps	1 – clear 2 – partly cloudy 3 – cloudy 4 – rain 5 - other	1 – calm 2 – slight 3 – moderate 4 - strong

Flow Method	Flow (cfs)	Secchi Depth (cm)	Sample Depth (ft)	Total Depth (ft)

1 – flow-gauge station
5 - Doppler

INSTRUMENT READINGS

Temp (°C)	Conductivity (mS/cm)	pH (s.u.)	Salinity (PSS)	Dissolved Oxygen (mg/L)
(1.0 to 38.0°C)	(0.03 to 60 mS/cm)	(5.0 to 10.0 s.u.)	(0.009 to 45.0 PSS)	(0.5 to 15.0 mg/L)

***Other Observations:**
_____
_____
_____
_____
_____

Request for Analysis (circle what is requested)

1 – pH	**5 – Cl^-**	**9 – $N\text{-}NO_2$**
2 – Conductivity	**6 – SO_4**	
3 - TSS	**7 – $N\text{-}NH_3$**	**10 – *E. coli***
4 – $N\text{-}NO_3$	**8 – $T\text{-}PO_4$**	**11 – Enterococcus**

No. of Containers:

____ 100 mL sterile plastic **___ 1 gallon plastic**
____ 1 L plastic **____ 1 L plastic w/ H_2SO_4**
____ 1 L plastic (TKN) bottle w/ H_2SO_4 (Analyzed by H-GAC Contract Lab)

For lab use only:

Acid ID#: H_2SO_4

Samples Received on Ice? Yes / No **Thermometer ID:**_____
Temp (°C) _____ **Corrected Temp (°C)** _____ **Corrected Factor(°C)** _____

Samples relinquished by: _____ **Date/Time:** _____

Lab Sample No.: _____ **Received by:** _____ **Date/Time:** _____

CITY OF HOUSTON DRINKING WATER OPERATIONS LABORATORY

1770 Sidney street, Houston, TX 77023

LAKE HOUSTON WATERSHED SITE MONITORING

FIELD SHEET & CHAIN OF CUSTODY

Effective Date: 1 10/02/19 **Document ID:** 150 **Version:** 1.11

Date of Sampling:_____ **Air Temperature :**_____ **Days Since Last Significant Rainfall :**_____ Samples Collected By: _____

Sample Run Collected Bi-Monthly **Note: All samples taken at a one foot depth by plastic bucket unless specifically designated in 'Sample Depth' column below.**

Sample No.	Station Name	TCEQ ID	Time	Sample Depth (ft)	Total Depth (ft)	Water Temp ºC	Sp. Cond. µs/cm	pH	DO mg/L	Secchi Depth (m)	Flow Severity	Obser. Turb.	Water Color	Water Odor	Present Weather	Wind Intensity	Water Surface
1	LUCE BAYOU HUFFMAN / CLEVELAND	11187															
2	EAST FORK SAN JACINTO RIVER @ FM 1485 (gage 8070200)	11235															
3	CANEY CREEK @ FM 1485	11334															
4	PEACH CREEK @ FM 2090	11337															
5	EAST FORK SAN JACINTO @ SH 105 (gage 8070000)	11238															
6	PEACH CREEK @ FM 105	16625															
7	CANEY CREEK @Millmac Rd.	21465															
8	WEST FORK SAN JACINTO @ FM 105 (gage 8067650)	11251															
9	STEWART CREEK @ LOOP 336, CONROE	16626															
10	CRYSTAL CREEK @ FM 1314	11181															
11	WEST FORK SAN JACINTO @ FM 242	11243															
12	SPRING CREEK @ I-45 (gage 8068500)	11313															
13	CYPRESS CREEK @ I-45 (gage 8069000)	11328															

1-no flow	1-low	1-brownish	1-sewage	1-clear	1-calm	1-calm
2-low	2-medium	2-reddish	2-oily/chemical	2-p.cloudy	2-slight	2-ripple
3-normal	3-high	3-greenish	3-rotten egg	3-cloudy	3-mod.	3-wave
4-flood		4-blackish	4-musty	4-rain	4-strong	4-whitecap
5-high		5-clear	5-fishy	5-other		
6-dry		6-other	6-none			
			7-other			

Comments:

Analysis Required: VOC, WQP*, T-phos, Ammonia, Total Coliform, E. coli Matrix: Water

Bottles used: 1-100ml sterilized bottle for Bacti analysis, 1-500ml plastic bottle for WQP analysis, 2-40ml VOA bottles with 1:1 HCl, 1-500 mL plastic bottle acidified with H_2SO_4 for NH_3 analysis, 1-250ml amber bottle for T-phos. & TOC analysis. 1-1000mL plastic bottle for TSS

*** WQP analysis includes:** pH, Cond., TSS, Alk, Hard, NO_2-N, NO_3-N, F, Cl, Br, SO_4 Temperature of Samples when Received at Lab:_____

Biol. Samples Relinquished By :_____ **Date:**_____ **Time :**_____ **Chem. Samples Relinquished By :**_____ **Date:**_____ **Time :**_____

Biol. Samples Received By :_____ **Date:**_____ **Time :**_____ **Chem. Samples Received By :**_____ **Date:**_____ **Time :**_____

San Jacinto River Authority - Lake Conroe Division
LAKE CONROE MONITORING FIELD SHEET

Effective Date: 8/20/2019

Date of Sampling:_____ Samples Collected By:_____ Days Since Last Significant Rainfall:_____

◆Reservoir Stage (Feet above mean sea level:_____ ◆Reservoir Percent Full:_____ ◆Reservoir Accessibility Yes_____ No_____

Sample No.	Total Depth (ft)	Time	Sample Depth (ft)	Temp	Sp Cond	pH	D.O.	Present Weather	Wind Intensity	Water Surface	Water Color	Water Odor
1												
Station Name								1-clear	1-calm	1-calm	1-brownish	1-sewage
								2-partly cloudy	2-slight	2-ripple	2-reddish	2-oily/chemical
								3-cloudy	3-moderate	3-waves	3-greenish	3-rotten egg
Walker County								4-rain	4-strong	4-whitecaps	4-blackish	4-musty
								5-other			5-clear	5-fishy
											6-oter	6-none
TCEQ ID									Secchi Depth (m)			7-other
11344												

Comments:

Sample No.	Total Depth (ft)	Time	Sample Depth (ft)	Temp	Sp Cond	pH	D.O.	Present Weather	Wind Intensity	Water Surface	Water Color	Water Odor
2												
Station Name								1-clear	1-calm	1-calm	1-brownish	1-sewage
								2-partly cloudy	2-slight	2-ripple	2-reddish	2-oily/chemical
								3-cloudy	3-moderate	3-waves	3-greenish	3-rotten egg
T. James Creek								4-rain	4-strong	4-whitecaps	4-blackish	4-musty
								5-other			5-clear	5-fishy
											6-oter	6-none
TCEQ ID									Secchi Depth (m)			7-other
16645												

Comments:

Surveyor SN:_____ Sonde SN:_____ Sheet reviewed by:_____ Data entered by:_____Date:_____ Data reviewed by:_____ Date:_____

Water Quality Laboratory
San Jacinto River Authority
Woodlands - Clean Rivers Program Field Sheet

Date of Sampling: _____ Samples Collected By:_____ Days Since Last Significant Rainfall:_____

◆Reservoir Stage (FT above Mean Sea Level)_____
◆Reservoir Percent Full:_____

◆Reservoir Accessible?
Yes_____ No_____

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Secchi Depth (m)	Water Color	Water Odor	Present Weather	Water Surface	Wind Intensity
LW # 1	Lake Woodlands # 1 - North end, downstream of Research Forest Dr.	16484								

	Sample Depth	Temp	Cond.	pH	D.O.	Comments:
Surface						
Mid-Depth						
Bottom						

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Secchi Depth (m)	Water Color	Water Odor	Present Weather	Water Surface	Wind Intensity
LW # 2	Lake Woodlands # 2 - Mid point in lake	16483								

	Sample Depth	Temp	Cond.	pH	D.O.	Comments:
Surface						
Mid-Depth						
Bottom						

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Secchi Depth (m)	Water Color	Water Odor	Present Weather	Water Surface	Wind Intensity
LW # 3	Lake Woodlands # 3 - Western reach near Meadow Cove & Pleasure Cove Drives	16481								

	Sample Depth	Temp	Cond.	pH	D.O.	Comments:
Surface						
Mid-Depth						
Bottom						

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Secchi Depth (m)	Water Color	Water Odor	Present Weather	Water Surface	Wind Intensity
LW # 4	Lake Woodlands # 4 - South end, near West end of dam	16482								

	Sample Depth	Temp	Cond.	pH	D.O.	Comments:
Surface						
Mid-Depth						
Bottom						

Present Weather: 1 = clear, 2 = partly cloudy, 3 = cloudy, 4 = rain , 5 = other
Water Color: 1 = brownish, 2 = reddish, 3 = greenish, 4 = blackish, 5 = clear, 6 = other
Water Odor: 1 = sewage, 2 = oily / chemical, 3 = rotten egg, 4 = musky, 5 = fishy, 6 = none, 7 = other

Water Surface: 1 = calm, 2 = ripples, 3 = waves
Wind intensity: 1 = calm, 2 = slight, 3 = moderate, 4 = strong

Surveyor SN:_____ **Sonde SN:**_____ Sheet reviewed by: _____ Data enter by:_____ Date:_____ Data Reviewed by:_____ Date:_____

Form Updated: August 16, 2019

Water Quality Laboratory
San Jacinto River Authority
Woodlands - Clean Rivers Program Field Sheet

Date of Sampling:_____ Samples Collected By:_____ Days Since Last Significant Rainfall:_____

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Trans Tube (m)	Water Color	Water Odor	Present Weather	Sample Depth	Temp	Cond.	pH	D.O.	Flow Severity
LPB # 2	Lower PB (footbridge) upstream of Sawdust Rd. & WWTP #1	16627												
		Comments:												

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Trans Tube (m)	Water Color	Water Odor	Present Weather	Sample Depth	Temp	Cond.	pH	D.O.	Flow Severity
LPB # 3	Panther Branch - 295 M downstream of Sawdust Rd.	16422												
		Comments:												

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Trans Tube (m)	Water Color	Water Odor	Present Weather	Sample Depth	Temp	Cond.	pH	D.O.	Flow Severity
UPB # 3	Bear Branch upstream of Research Forest Dr. 20 M	16631												
		Comments:												

Gage 8068400 Reading= CFS

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Trans Tube (m)	Water Color	Water Odor	Present Weather	Sample Depth	Temp	Cond.	pH	D.O.	Flow Severity
UPB # 1	Upper Panther Branch - 80 M upstream of WWTP #2 on Research Forest Dr.	16629												
		Comments:												

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Trans Tube (m)	Water Color	Water Odor	Present Weather	Sample Depth	Temp	Cond.	pH	D.O.	Flow Severity
UPB # 2	Upper PB (footpath) - 170 M downstream of WWTP #2 on Research Forest Dr.	16630												
		Comments:												

Water Color: 1 = brownish, 2 = reddish, 3 = greenish, 4 = blackish, 5 = clear, 6 = other
Water Odor: 1 = sewage, 2 = Oily / chemical, 3 = rotten egg, 4 = musky, 5 = fishy, 6 = none, 7 = other
Present Weather: 1 = clear, 2 = partly cloudy, 3 = cloudy, 4 = rain , 5 = other
Flow Severity: 1 = no flow, 2 = low, 3 = normal, 4 = flood, 5 = high, 6 = dry

Surveyor SN:_____ **Sonde SN:**_____ Sheet reviewed by: _____ Data enter by:_____ Date:_____ Data Reviewed by:_____ Date:_____

Environmental Institute of Houston, University of Houston-Clear Lake

Clean Rivers Program Field Datasheet

Station ID:_____ Date (mm/dd/yyyy):_____ Sample Time (hh:mm): _____

Location:_____ Lat:_____ Long:_____

Collected By (First initial, last name):_____

FIELD MEASUREMENTS If depth <0.5: take one measurement at 1/3 total depth. If ≥ 0.5 but < 1.5: take one measurement at 0.3m from surface
If ≥ 1.5m deep - perform profile at 0.3m from bottom, middle, and 0.3m from surface
If ≥ 3m deep take profile at 0.3m from bottom, then every whole meter until 0.3m from surface (eg:4.2 = 3.9m, 3m, 2m, 1m, 0.3m)

	1	2	3	4	5	6
Temp (C)						
Conductivity (uS)						
Salinity (psu)						
DO (%sat)						
DO mg/L						
pH						
Depth (m)						

FIELD OBSERVATIONS

_____ TOTAL DEPTH (m)

_____ WATER ODOR 1-sewage 2-oily/chemical 3-rotten egg 4-musky 5-fishy 6-none 7-other

_____ WATER SURFACE 1-calm 2-ripples 3-waves 4-whitecap

_____ WIND INTENSITY 1-calm 2-slight 3-moderate 4-strong

_____ WATER COLOR 1-brownish 2-reddish 3-greenish 4-blackish 5-clear 6-other

_____ DAYS SINCE LAST SIG. RAINFALL

_____ PRESENT WEATHER 1-clear 2-partly cloudy 3-cloudy 4-rain 5-other

_____ FLOW SEVERITY 1-no flow 2-low 3-normal 4-flood 5-high 6-dry

_____ FLOW (cfs)

_____ FLOW METHOD 1-gage 2-electric 3-mechanical 4-weir/flume 5-doppler

_____ SECCHI DISK appear (m)

_____ SECCHI DISK disappear (m)

_____ RECREATIONAL USE 1=1° observed, 2=2° observed, 3=non-contact observed, 4=1° evidence, 5=2° evidence, 6=non-contact evidence, 7=no evidence

_____ TIDE STAGE 1-low 2-falling 3-slack 4-rising 5-high

WATER SAMPLES

☐ **FRESH** (Non-Tidal) ☐ *E. coli* ☐ **MARINE** (Tidal) ☐ *Enterococcus*

Container	Preservative	Analysis Requested	Comments

ADDITIONAL INFORMATION & REMARKS

* If site has isolated pools (> 10 m in length and 0.4m deep) record:
Lat _____ Long_____ of largest pool in reach. Maximum pool width_____(m), Maximum pool depth _____ (m), Pool length _____(m), and percent pool coverage in 500m reach _____%.

Environmental Institute of Houston,
University of Houston-Clear Lake

Stream Flow (Discharge) Measurement Form

Environmental Institute of Houston

Stream:_____ Date:_____

Station:_____

Description:_____

Time Begin:_____ Time End:_____ Meter Type:_____

Observers:_____ Stream Width*:_____ Section Width (W):_____

Observations:_____

_____

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft) (m)	Velocity (V)		Flow (Q) (m^3/s) (ft^3/s) Q = (W)(D)(V)
			At Point (ft/s) (m/s)	Average (ft/s) (m/s)	

m3/s x 35.3 =ft3/s

Total Flow (Discharge) (Σ Q)	*
Field Discharge (Σ Q)	

***See Attached Discharge Sheet**

Modified from TCEQ-20117 (Rev. 04/22/2004)

Page 1 of 1

Texas Research Institute for Environmental Studies - Sam Houston State University

Clean Rivers Program Field Data/Sampling Sheet

Station ID:_____ Date:_____ Sample Time: _____

Location:_____ Lat:_____ Long:_____

Collected By:_____

FIELD MEASUREMENTS (If < 1.5m deep - record @ 0.3m from surface; If≥ 1.5m deep - perform profile @ 0.3m from bottom, @ middle, and @ 0.3m from surface)

	1	2	3	4	5
Temp (C)					
Conductivity (uS)					
Salinity (psu)					
DO (%sat)					
DO mg/L					
pH					
Depth (m)					

FIELD OBSERVATIONS

	TOTAL DEPTH (m)		PRESENT WEATHER 1-clear 2-partly cloudy 3-cloudy 4-rain 5-other
	WATER ODOR 1-sewage 2-oily/chemical 3-rotten egg 4-musky 5-fishy 6-none 7-other		FLOW SEVERITY 1-no flow 2-low 3-normal 4-flood 5-high 6-dry
	WATER SURFACE 1-calm 2-ripples 3-waves 4-whitecap		FLOW (cfs)
	WIND INTENSITY 1-calm 2-slight 3-moderate 4-strong		FLOW METHOD 1-gage 2-electric 3-mechanical 4-weir/flume 5-doppler
	WATER COLOR 1-brownish 2-reddish 3-greenish 4-blackish 5-clear 6-other		SECCHI DISK (m)
	TIDE STAGE 1-low 2-falling 3-slack 4-rising 5-high		RECREATIONAL USE 1=1° observed, 2=2° observed, 3=non-contact observed, 4=1° evidence, 5=2° evidence, 6=non-contact evidence, 7=no evidence
	DAYS SINCE LAST SIG. RAINFALL		Primary Contact Rec. Observed (enter number of people)
			Evidence of Primary Contact Rec. Observed 0= no evidence observed, 1= evidence observed

WATER SAMPLES

☐ **FRESH** (Non-Tidal) ☐ **MARINE** (Tidal)

☐ *E. coli* ☐ *Enterococcus*

Field Split Collected (yes/no)

Container	Preservative	Analysis Requested	Comments
2 x 1L - Plastic	Ice	TSS	
2 x 1L - Plastic	Ice, 2 mL H_2SO_4 added	NH_3, TPO_4, NO_2+NO_3	
2 x 500ml - Plastic	Ice, 1 mL H_2SO_4 added	TKN	
2 x 500ml - Plastic	Ice	Cl, SO_4 (fresh water only)	
2 x 4L - Plastic (amber)	Ice	Chlorophyll-a (select sites)	
1 x 100ml - Plastic	Ice, $Na_2S_2O_3$ tablet	Bacteria (Entero and/or *E. coli*)	

ADDITIONAL INFORMATION & REMARKS

* If site is dry, determine if there is any pool with 500m reach, If pool(s) exists (> 10 m in length and 0.4m deep) record: Lat _____ Long_____ of largest pool in reach Maximum pool width_____(m), Maximum pool depth _____ (m), Pool length _____(m), and percent pool coverage in 500m reach _____%.