

# Appendix D: Field Data Sheets

**Environmental Institute of Houston - University of Houston Clear Lake**  
**Clean Rivers Program Field Data/Sampling Sheet**

Station ID: \_\_\_\_\_ Date: \_\_\_\_\_ Time: arrive \_\_\_\_\_ sample \_\_\_\_\_ depart \_\_\_\_\_

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**

<input type="text"/> TOTAL DEPTH (m)	<input type="text"/> PRESENT WEATHER	1-clear 2-partly cloudy 3-cloudy 4-rain 5-other
<input type="text"/> SAMPLING DEPTH (m)	<input type="text"/> DAYS SINCE LAST SIG. RAINFALL	
<input type="text"/> % CLOUD COVER	<input type="text"/> FLOW SEVERITY	1-no flow 2-low 3-normal 4-flood 5-high 6-dry
<input type="text"/> WIND SPEED	<input type="text"/> FLOW (cfs)	
<input type="text"/> WIND DIRECTION	<input type="text"/> FLOW METHOD	1-gage 2-electric 3-mechanical 4-weir/flume 5-doppler
<input type="text"/> AIR TEMP (C)	<input type="text"/> SECCHI DISK (m)	
<input type="text"/> WATER ODOR 1-sewage 2-oily/chemical 3-rotten egg 4-musky 5-fishy 6-none 7-other	<input type="text"/> 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
<input type="text"/> WATER SURFACE 1-calm 2-ripples 3-waves 4-whitcap	<input type="text"/> Primary Contact Rec. Observed	(enter number of people)
<input type="text"/> WIND INTENSITY 1-calm 2-slight 3-moderate 4-strong	<input type="text"/> Evidence of Primary Contact Rec. Observed	0= no evidence observed, 1= evidence observed
<input type="text"/> WATER COLOR 1-brownish 2-reddish 3-greenish 4-blackish 5-clear 6-other	<input type="text"/> Forel-Ule Color	
<input type="text"/> TIDE STAGE 1-low 2-falling 3-ebb 4-rising 5-high	<input type="text"/> HACH Color Wheel	HR / LR

**WATER SAMPLES**

<input type="checkbox"/> FRESH (Non-Tidal)	<input checked="" type="checkbox"/> MARINE (Tidal)	<input type="text"/> TURBIDITY (NTU) BOTTLE # _____
<input type="checkbox"/> <i>E. coli</i>	<input checked="" type="checkbox"/> <i>Enterococcus</i>	<input type="text"/> CHL-A, AVG (µg/L) (1) _____ (2) _____ (3) _____
		<input type="text"/> NO Field Split Collected (yes/no)

Container	Preservative	Analysis Requested	Comments
1 x 1L - Plastic	Ice	TSS	
1 x 1L - Plastic	Ice, 2 mL H <sub>2</sub> SO <sub>4</sub> added	NH <sub>3</sub> , TPC <sub>x</sub> , NO <sub>2</sub> +NO <sub>3</sub>	
1 x 500ml - Plastic	Ice, 1 mL H <sub>2</sub> SO <sub>4</sub> added	TKN	
1 x 500ml - Plastic	Ice	Cl, SO <sub>4</sub> (fresh water only)	
1 x 4L - Plastic (amber)	Ice	Chlorophyll-a (select sites)	
1 x 100ml - Plastic	Ice, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> tablet	Bacteria (Enteroc and/or <i>E. coli</i> )	

**ADDITIONAL INFORMATION & REMARKS**

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  
 Maximum pool width \_\_\_\_\_ (m), Maximum pool depth \_\_\_\_\_ (m), Pool length \_\_\_\_\_ (m), and percent pool coverage in 500m reach \_\_\_\_\_ %.



# Pollution Control Services Department

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## SAMPLING RECORD: Clean Rivers Program Sites

ID NO.: \_\_\_\_\_ PERMIT NO.: \_\_\_\_\_ OUTFALL: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

NAME: \_\_\_\_\_ KEY MAP: \_\_\_\_\_ MS4?(Y/N): \_\_\_\_\_  
LATITUDE: \_\_\_\_\_ LONGITUDE: \_\_\_\_\_

SITE: \_\_\_\_\_ KEYS: \_\_\_\_\_

SITE DIRECTIONS: \_\_\_\_\_

### TESTS AND MEASUREMENTS

<input type="checkbox"/>	TEMPERATURE °C	<input type="checkbox"/>	SALINITY (ppt)
<input type="checkbox"/>	pH (standard units)	<input type="checkbox"/>	SPECIFIC CONDUCTIVITY (us/cm)
<input type="checkbox"/>	DISSOLVED OXYGEN (mg/l)	<input type="checkbox"/>	SECCHI DISK TRANSPARENCY (meters)

### FIELD OBSERVATIONS

<input type="checkbox"/>	SURFACE CONDITIONS: 1-clear 2-scum 3-foam 4-debris 5-sheen	<input type="checkbox"/>	PRESENT WEATHER: 1-clear 2-partly cloudy 3-cloudy 4-rain 5-other _____
<input type="checkbox"/>	TURBIDITY: 1-low 2-medium 3-high	<input type="checkbox"/>	DAYS SINCE LAST SIGNIFICANT RAINFALL(Runoff)
<input type="checkbox"/>	WATER SURFACE: 1-calm 2-ripples 3-waves	<input type="checkbox"/>	WIND INTENSITY: 1-calm 2-slight 3-moderate 4-strong
<input type="checkbox"/>	WATER COLOR: 1-brownish 2-reddish 3-greenish 4-blackish 5-clear 6-other	<input type="checkbox"/>	TIDE STAGE: 1-low 2-falling 3-slack 4-rising 5-high
<input type="checkbox"/>	WATER ODOR: 1-sewage 2-chemical 3-rotten egg 4-musky 5-fishy 6-none 7-other	_____ - Total depth (meters)	

### SAMPLES

GRAB                       DIRECT                      REPORT:  YES  NO  
 SPLIT                       INDIRECT

Amt. Col.	Container	Preservative	Analysis Requested	Comments

### REMARKS

89978 =  
89979 =  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### NOTIFICATION

CONTACT PERSON: \_\_\_\_\_ PHONE: \_\_\_\_\_ DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_ AM/PM  
PERSON CONTACTED/TITLE: \_\_\_\_\_ AFFILIATION: \_\_\_\_\_  
RESPONSE: \_\_\_\_\_

### CUSTODY

INSPECTED/SAMPLED BY: \_\_\_\_\_ RECEIVED IN LABORATORY BY: \_\_\_\_\_  
DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM RUN NUMBER: \_\_\_\_\_

# H-GAC – Ambient Monitoring Data Sheet

Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ Station: \_\_\_\_\_

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			
Salinity	‰			
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	Tide Stage
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	1 - low 2 - falling 3 - slack 4 - rising 5 - high

Flow	cfs	
Flow Method	1 - gage 2 - electric 3 - mechanical 4 - weir/flume 5 - Doppler	
Chlorine Residual		
Primary Contact, # of People Observed (1-10, >10)		
Evidence of Primary Contact, (1- Observed, 0 - Not Observed)		

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 500 mL Plastic	Iced	TSS	
1 x 1 L Plastic	Iced, H <sub>2</sub> SO <sub>4</sub>	TKN, NH <sub>3</sub> , NO <sub>2</sub> +NO <sub>3</sub> , TPO <sub>4</sub>	
1 x 500 mL Plastic	Iced	CL, SO <sub>4</sub> (fresh only)	
1 x 100 mL Sterile Plastic	Iced	Bacteria: <i>E. coli</i> Enterococcus	

Field Split? Yes \_\_\_\_\_ No \_\_\_\_\_

If no,  
Date of last split: \_\_\_\_\_ Surveyor SN: \_\_\_\_\_ Sonde SN: \_\_\_\_\_

# 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 <sup>3</sup> /s) (ft <sup>3</sup> /s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	

### Stream Flow (Discharge) Measurement Form

Station: \_\_\_\_\_ Date: \_\_\_\_\_

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

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



Date of Sample \_\_\_\_\_ Sampler \_\_\_\_\_

Run Number \_\_\_\_\_ Station ID \_\_\_\_\_ Time Sampled \_\_\_\_\_ (24 hr.)

Stream Name & Intersecting Street \_\_\_\_\_

Field Meter #: \_\_\_\_\_

**FIELD OBSERVATIONS**

**Aqueous Matrix**

Number of days since significant rainfall \_\_\_\_\_

Flow Severity	Tidal Stage	Color	Odor	Water Surface	Current Weather
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

Wind Intensity \_\_\_\_\_

Flow Method \_\_\_\_\_

Flow \_\_\_\_\_ cfs

Sample Depth \_\_\_\_\_ ft

- 1 - calm
- 2 - slight
- 3 - moderate
- 4 - strong

- 1 - flow-gauge station
- 2 - electronic
- 3 - mechanical
- 4 - weir or flume
- 5 - Doppler

Secchi Depth \_\_\_\_\_ cm

Total Depth \_\_\_\_\_ ft

Evidence of Primary Contact Rec \_\_\_\_\_

- 1 - Observed
- 0 - Not Observed

# people observed \_\_\_\_\_  
(1-10, >10)

\*Other Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**INSTRUMENT READINGS**

Temp \_\_\_\_\_ (1.0 to 38.0 °C)    Conductivity \_\_\_\_\_ (0.03 to 60 mS/cm)    DO \_\_\_\_\_ (0.5 to 15.0 mg/L)    pH \_\_\_\_\_ (5.0 to 10.0)    Salinity \_\_\_\_\_ (0.09 to 45.0 PSS)

**REQUEST FOR ANALYSIS (Circle what is requested)**

- |                 |          |        |          |                          |
|-----------------|----------|--------|----------|--------------------------|
| 1--pH           | 3--TSS   | 5--Cl- | 7--N-NH3 | 9-- E. coli/Enterococcus |
| 2--Conductivity | 4--N-NO3 | 6--SO4 | 8--T-PO4 |                          |

Number of Containers: \_\_\_ 100 mL sterilized bottle \_\_\_ 1 L plastic \_\_\_ 1 L plastic w/2 mL H<sub>2</sub>SO<sub>4</sub> \_\_\_ 200 mL sterilized bottle  
 Samples Received on Ice: Yes / No

Samples delivered by: \_\_\_\_\_ Date: \_\_\_\_\_  
(signature only)

Microbiology  
 Sample No. \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_  
(signature only)

Chemistry  
 Sample No. \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_  
(signature only)

**WATER QUALITY LABORATORY**  
 San Jacinto River Authority - Lake Conroe Division  
**LAKE CONROE MONITORING**  
**FIELD SHEET & CHAIN OF CUSTODY**

Effective Date: 09/01/2013

Document ID: 150      Version: 1.06

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

Sample Run Collected Monthly      Reservoir Stage: \_\_\_\_\_ Reservoir % Full: \_\_\_\_\_ Release in CFS: \_\_\_\_\_

Note: All hydrolab field data is stored on Surveyor in the field, downloaded to computer as a text file, and sent to H-GAC.

Sampling Depth: All water samples collected from 1 foot (0.3 meter).

Hydrolab field measurements include: Time, Depth of Measurement, Water Temperature, Specific Conductance, pH, and DO.

Sample No.	Station Name	Watershed ID	TCEQ ID	Time	Total Depth (ft)	Number of Profile readings	Secchi Depth (m)	Water Color	Water Odor	Present Weather	Wind Intensity	Water Surface	Primary Contact	Evidence Contact
1	Walker County	23	11344											
2	T. James Creek	25	16645											
3	Weir Creek	3	16644											
4	Caney Creek	6	16643											
5	Tim Cude Creek	26	16642											
6	Lost Lake Creek	33	16640											
7	Lewis Creek	4	16641											
8	W.C. Clark Creek	27	16639											
9	Atkin Creek	5	16638											
10	Intake Lake Conroe	24	11342											
	SPLIT SAMPLE													
Comments:								1-brownish	1-sewage	1-clear	1-calm	1-calm	# of People	1- Observed
								2-reddish	2-oily/chemical	2-p.cloudy	2-slight	2-ripple	1-10, >10	0-NotObserved
								3-greenish	3-rotten egg	3-cloudy	3-mod	3-wave		
								4-blackish	4-musty	4-rain	4-strong	4-whitecap		
								5-clear	5-fishy	5-other				
								6-other	6-none					
									7-other					

Analysis Required:  
 Bottles used:

WQP\*, T-phos, Ammonia, Total Coliform, E. coli      Matrix: Water  
 1-100ml sterilized bottle for Bacti analysis, 1-500ml plastic bottle for WQP analysis, 1-500 mL plastic bottle acidified with H<sub>2</sub>SO<sub>4</sub> for  
 NH<sub>3</sub> analysis, 1-250ml amber bottle acidified with H<sub>2</sub>SO<sub>4</sub> for T-phos. & TOC analysis.  
 \* WQP analysis includes: pH, Cond., TSS, Alk, Hard, NO<sub>2</sub>-N, NO<sub>3</sub>-N, F, Cl, Br, SO<sub>4</sub>

Temperature of Samples when Received at Lab: \_\_\_\_\_

Biological Samples Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Chemical Samples Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Biological Samples Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Chemical Samples Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_



**SAN JACINTO RIVER AUTHORITY  
LAKE WOODLANDS 1 AND 2 WATER QUALITY MONITORING**

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_      Atmos. Temperature Deg. F: \_\_\_\_      Days Since Last Rain: \_\_\_\_      Date: \_\_\_\_      Inches: \_\_\_\_  
           MONTH DAY YEAR      Present Weather: \_\_\_\_\_  
 Instrument Person: \_\_\_\_\_      Sampler: \_\_\_\_\_

MILITARY TIME: _____	GPS COORDINATES = 30 1030.584 N / 95 2818.768 W						SECCHI DISK:
<b>SAMPLE LOCATION NO. 1 (Station ID No. 16484 - LW#1)</b>	FT.	M.	TEMP.	D.O.	pH	CONDUC	DOWN (IN.) _____
CONVENTIONAL CHEM. SAMPLES: YES / NO	SURFACE		°C				UP (IN.) _____
BACTERIOLOGICAL SAMPLES: YES / NO	MID-DEPTH		°C				AVG. (IN.) _____
ADDIT'L PARAMETERS & METALS YES / NO	BOTTOM		°C				AVG. M.(0.00) _____

COMMENTS (FIELD OBSERVATIONS / UNUSUAL OCCURRENCES / SAMPLE COLLECTION PROBLEMS): \_\_\_\_\_

Primary Contact (Code # 89978) \_\_\_\_\_ Evidence of Primary Contact Recreation (Code # 89979) \_\_\_\_\_  
 Water Color: \_\_\_\_\_      Total Depth: \_\_\_\_\_      Water Odor: \_\_\_\_\_

MILITARY TIME: _____	GPS COORDINATES = 30 0945.096 N / 95 2841.156 W						SECCHI DISK:
<b>SAMPLE LOCATION NO. 2 (Station ID No. 16483 - LW#2)</b>	FT.	M.	TEMP.	D.O.	pH	CONDUC	DOWN (IN.) _____
CONVENTIONAL CHEM. SAMPLES: YES / NO	SURFACE		°C				UP (IN.) _____
BACTERIOLOGICAL SAMPLES: YES / NO	MID-DEPTH		°C				AVG. (IN.) _____
ADDIT'L PARAMETERS & METALS YES / NO	BOTTOM		°C				AVG. M.(0.00) _____

COMMENTS (FIELD OBSERVATIONS / UNUSUAL OCCURRENCES / SAMPLE COLLECTION PROBLEMS): \_\_\_\_\_

Primary Contact (Code # 89978) \_\_\_\_\_ Evidence of Primary Contact Recreation (Code # 89979) \_\_\_\_\_  
 Water Color: \_\_\_\_\_      Total Depth: \_\_\_\_\_      Water Odor: \_\_\_\_\_

**Field Measurements Depth: <1.5 Ft (=1/3 depth) >1.5' & <5.0' (=1' deep) 5'-10' (= 1' deep, middle, & 1' above btm.)**

**Fecal Coliform Sampling Depth = 1 Ft. (0.3 M)**

**Ft. x 0.3048 = Meters**

**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**

**Primary Contact, Observed Activity (# of People Observed) = 0-10, >10**

**Evidence of Primary Contact Recreation (1 = Observed, 0 = Not Observed)**

**SAN JACINTO RIVER AUTHORITY  
LAKE WOODLANDS 3 AND 4 WATER QUALITY MONITORING**

MILITARY TIME: _____		GPS COORDINATES = 30 0936.345 N / 95 2908.586 W					SECCHI DISK:	
<b>SAMPLE LOCATION NO. 3 (Station ID No. 16481 - LW#3)</b>	FT.	M.	TEMP.	D.O.	pH	CONDUC	DOWN (IN.) _____	
CONVENTIONAL CHEM. SAMPLES: YES / NO	SURFACE		°C				UP (IN.) _____	
BACTERIOLOGICAL SAMPLES: YES / NO	MID-DEPTH		°C				AVG. (IN.) _____	
ADDIT'L PARAMETERS & METALS YES / NO	BOTTOM		°C				AVG. M.(0.00) _____	

COMMENTS (FIELD OBSERVATIONS / UNUSUAL OCCURRENCES / SAMPLE COLLECTION PROBLEMS): \_\_\_\_\_

Primary Contact (Code # 89978) \_\_\_\_\_ Evidence of Primary Contact Recreation (Code # 89979) \_\_\_\_\_

Water Color: \_\_\_\_\_ Total Depth: \_\_\_\_\_ Water Odor: \_\_\_\_\_

MILITARY TIME: _____		GPS COORDINATES = 30 0918.657 N / 95 2858.184 W					SECCHI DISK:	
<b>SAMPLE LOCATION NO. 4 (Station ID No. 16482 - LW#4)</b>	FT.	M.	TEMP.	D.O.	pH	CONDUC	DOWN (IN.) _____	
CONVENTIONAL CHEM. SAMPLES: YES / NO	SURFACE		°C				UP (IN.) _____	
BACTERIOLOGICAL SAMPLES: YES / NO	MID-DEPTH		°C				AVG. (IN.) _____	
ADDIT'L PARAMETERS & METALS YES / NO	BOTTOM		°C				AVG. M.(0.00) _____	

COMMENTS (FIELD OBSERVATIONS / UNUSUAL OCCURRENCES / SAMPLE COLLECTION PROBLEMS): \_\_\_\_\_

Primary Contact (Code # 89978) \_\_\_\_\_ Evidence of Primary Contact Recreation (Code # 89979) \_\_\_\_\_

Water Color: \_\_\_\_\_ Total Depth: \_\_\_\_\_ Water Odor: \_\_\_\_\_

**Field Measurements Depth: <1.5 Ft (=1/3 depth) >1.5' & <5.0' (=1' deep) 5'-10' (= 1' deep, middle, & 1' above btm.)**

**Fecal Coliform Sampling Depth = 1 Ft. (0.3 M)**

**Ft. x 0.3048 = Meters**

**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**

**Primary Contact, Observed Activity (# of People Observed) = 0-10, >10**

**Evidence of Primary Contact Recreation (1 = Observed, 0 = Not Observed)**

**SAN JACINTO RIVER AUTHORITY  
UPPER PANTHER BRANCH WATER QUALITY MONITORING**

Date: \_\_\_ / \_\_\_ / \_\_\_ Instrument Person: \_\_\_\_\_ Sampler: \_\_\_\_\_  
MONTH DAY YEAR

Present Weather: \_\_\_\_\_ Atmos. Temperature Deg. F: \_\_\_\_\_

Days Since Last Rain: \_\_\_\_\_ Date: \_\_\_\_\_ In. \_\_\_\_\_

Total Depth: \_\_\_\_\_ Ft \_\_\_\_\_ M  
 Depth of Measurements: \_\_\_\_\_ Ft \_\_\_\_\_ M  
 Transparency Tube: \_\_\_\_\_ cm \_\_\_\_\_ M

**UPPER PANTHER BRANCH # 1 (UPSTREAM WWTP #2 OUTFALL)**

Station ID No. 16629 (UPB1) GPS COORDINATES: = 30 1145.435 N 95 2918.592 W

MILITARY TIME	TEMP. C	pH	D.O.	CONDUCTIVITY	COLOR	ODOR	FLOW SEVERITY	AQUATIC ACTIVITY

COMMENTS (FIELD OBSERVATIONS / UNUSUAL OCCURRENCES / SAMPLE COLLECTION PROBLEMS):

Primary Contact (Code # 89978) \_\_\_\_\_ Evidence of Primary Contact Recreation (Code # 89979) \_\_\_\_\_

Total Depth: \_\_\_\_\_ Ft \_\_\_\_\_ M  
 Depth of Measurements: \_\_\_\_\_ Ft \_\_\_\_\_ M  
 Transparency Tube: \_\_\_\_\_ cm \_\_\_\_\_ M

**UPPER PANTHER BRANCH # 2 (DOWNSTREAM WWTP #2 OUTFALL)**

Station ID No. 16630 (UPB2) GPS COORDINATES: = 30 1138.175 N 95 2917.488 W

MILITARY TIME	TEMP. C	pH	D.O.	CONDUCTIVITY	COLOR	ODOR	FLOW SEVERITY	AQUATIC ACTIVITY

COMMENTS (FIELD OBSERVATIONS / UNUSUAL OCCURRENCES / SAMPLE COLLECTION PROBLEMS):

Primary Contact (Code # 89978) \_\_\_\_\_ Evidence of Primary Contact Recreation (Code # 89979) \_\_\_\_\_

USGS Gauge (cfs): \_\_\_\_\_  
 Total Depth: \_\_\_\_\_ Ft \_\_\_\_\_ M  
 Depth of Measurements: \_\_\_\_\_ Ft \_\_\_\_\_ M  
 Transparency Tube: \_\_\_\_\_ cm \_\_\_\_\_ M

**UPPER PANTHER BRANCH # 3 (BEAR BRANCH - E.OF BRIDGE)**

Station ID No. 16631 (UPB3) GPS COORDINATES: = 30 1125.450 N 95 2926.883 W

MILITARY TIME	TEMP. C	pH	D.O.	CONDUCTIVITY	COLOR	ODOR	FLOW SEVERITY	AQUATIC ACTIVITY

COMMENTS (FIELD OBSERVATIONS / UNUSUAL OCCURRENCES / SAMPLE COLLECTION PROBLEMS):

Primary Contact (Code # 89978) \_\_\_\_\_ Evidence of Primary Contact Recreation (Code # 89979) \_\_\_\_\_

*Field Measurements Depth: <1.5 Ft (=1/3 depth) >1.5' & <5.0' (=1' deep) 5'-10' (= 1' deep, middle, & 1' above btm.)*

*Fecal Coliform Sampling Depth = 1 Ft. (0.3 M). Ft. x 0.3048 = Meters*

**Present Weather:** 1 = clear, 2 = partly cloudy, 3 = cloudy, 4 = rain, 5 = other

**Water Clarity:** 1 = excellent, 2 = good, 3 = fair, 4 = poor, 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

**Flow Severity:** 1 = no flow, 2 = low, 3 = normal, 4 = flood, 5 = high, 6 = dry

**Primary Contact, Observed Activity (# of People Observed)** = 0-10, >10

**Evidence of Primary Contact Recreation** (1 = Observed, 0 = Not Observed)

**SAN JACINTO RIVER AUTHORITY  
LOWER PANTHER BRANCH WATER QUALITY MONITORING**

Date:      /      /      Instrument Person:    Sampler:     
MONTH DAY YEAR

Present Weather:                      Atmos. Temperature Deg. F:                     

Days Since Last Rain:              Date:                      In.                     

Total Depth:          Ft          M  
 Depth of Measurements:          Ft          M  
 Transparency Tube:                  cm          M

**LOWER PANTHER BRANCH # 2 (UPSTREAM WWTP # 1 OUTFALL)**

Station ID No. 16627 (LPB2) GPS COORDINATES: = 30 0806.888 N 95 2841.820 W

MILITARY TIME	TEMP. C	pH	D.O.	CONDUCTIVITY	COLOR	ODOR	FLOW SEVERITY	AQUATIC ACTIVITY

COMMENTS (FIELD OBSERVATIONS / UNUSUAL OCCURRENCES / SAMPLE COLLECTION PROBLEMS):  
 \_\_\_\_\_  
 \_\_\_\_\_

Primary Contact (Code # 89978)    Evidence of Primary Contact Recreation (Code # 89979)   

USGS Gauge (cfs):                       
 Total Depth:          Ft          M  
 Depth of Measurements:          Ft          M  
 Transparency Tube:                  cm          M

**LOWER PANTHER BRANCH # 3 (DOWNSTREAM WWTP # 1 OUTFALL)**

Station ID No. 16628 (LPB3) GPS COORDINATES: = 30 0759.490 N 95 2837.803 W

MILITARY TIME	TEMP. C	pH	D.O.	CONDUCTIVITY	COLOR	ODOR	FLOW SEVERITY	AQUATIC ACTIVITY

COMMENTS (FIELD OBSERVATIONS / UNUSUAL OCCURRENCES / SAMPLE COLLECTION PROBLEMS):  
 \_\_\_\_\_  
 \_\_\_\_\_

Primary Contact (Code # 89978)    Evidence of Primary Contact Recreation (Code # 89979)   

*Field Measurements Depth: <1.5 Ft (=1/3 depth) >1.5' & <5.0' (=1' deep) 5'-10' (= 1' deep, middle, & 1' above btm.)*  
*Fecal Coliform Sampling Depth = 1 Ft. (0.3 M) Ft. x 0.3048 = Meters*  
 Present Weather: 1 = clear, 2 = partly cloudy, 3 = cloudy, 4 = rain, 5 = other  
 Water Clarity: 1 = excellent, 2 = good, 3 = fair, 4 = poor, 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  
 Flow Severity: 1 = no flow, 2 = low, 3 = normal, 4 = flood, 5 = high, 6 = dry  
 Primary Contact, Observed Activity (# of People Observed) = 0-10, >10  
 Evidence of Primary Contact Recreation (1 = Observed, 0 = Not Observed)



**CITY OF HOUSTON**  
**DRINKING WATER OPERATIONS LABORATORY**  
**LAKE HOUSTON RECREATIONAL SITE MONITORING**  
**FIELD SHEET & CHAIN OF CUSTODY**

Effective Date: 02/14/2013

Document ID: 150

Version: 1.08

Date of Sampling: \_\_\_\_\_ Air Temperature : \_\_\_\_\_ Days Since Last Significant Rainfall : \_\_\_\_\_ Samples Collected By \_\_\_\_\_

Sample Run Collected 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 °C	Sp. Cond. µs/cm	pH	DO mg/L	Secchi Depth (m)	Flow Severity	Obs. Turb.	Water Color	Water Odor	Present Weather	Wind Intensity	Water Surface	CL Residual	
1	LAKE PATROL MARINA																		
2	RAILROAD BRIDGE MIDDLE OF LAKE	11208																	
3	LAKE SHADOWS MIDDLE OF LAKE	16668																	
4	DUESSEN PARK MARINA																		
5	WEST FORK McKAY BRIDGE	11211																	
6	ATASCOCITA POINT	18667																	
7	KINGWOOD MARINA																		
8	WEST FORK Belleau Wood Dr.	20782																	
9	LUCES BAYOU WATER WONDERLAND	18670																	
10	TREASURE ISLAND MAGNOLIA PT.	16623																	
11	BJ'S MARINA																		
12	LAKE HOUSTON MARINA																		
13	EAST FORK McKAY BRIDGE	11212																	
14	INTAKE TOWER																		
15	LAKEWELL																		
	SPLIT SAMPLE ONE																		
	SPLIT SAMPLE TWO																		

Comments:

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-ripples
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-whitcap
5-high			5-clear	5-fishy	5-other	
6-dry			6-dry	6-none		
			7-other			

Analysis Required: VOC, WQP\*, T-phos, Ammonia, Total Coliform, *E. coli*, Enterococci (Qtrly) Matrix Water  
 Bottles used: 1-100ml sterilized bottle for Bactr analysis, 1-500ml plastic bottle for WQP analysis, 2-40ml VOA bottles with 1:1 HCl, 1-500 mL plastic bottle acidified with H<sub>2</sub>SO<sub>4</sub> for NH<sub>3</sub> analysis, 1-250ml amber bottle acidified with H<sub>2</sub>SO<sub>4</sub> for T-phos. & TOC analysis.  
 \* WQP analysis includes: pH, Cond, TSS, Alk, Hard, NO<sub>2</sub>-N, NO<sub>3</sub>-N, F, Cl, Br, SO<sub>4</sub> Temperature of Samples when Received at Lab \_\_\_\_\_

Biot. Samples Relinquished By : \_\_\_\_\_ Date: \_\_\_\_\_ Time : \_\_\_\_\_

Chem. Samples Relinquished By : \_\_\_\_\_ Date: \_\_\_\_\_ Time : \_\_\_\_\_

Biot. Samples Received By : \_\_\_\_\_ Date: \_\_\_\_\_ Time : \_\_\_\_\_

Chem. Samples Received By : \_\_\_\_\_ Date: \_\_\_\_\_ Time : \_\_\_\_\_