FIRST ENVIRONMENT	Daily Sampling Calibration Log QEH&S MS

PROJECT NUMBER: _____ **Date:** _____

Project Name/Location: _____ **PM/LSRP:** _____

PID/FID Model and Unit ID: _____

Horiba Model and Unit ID: _____

PID/FID Calibration Time: _____ Initials: _____

Zero Reading	Span Gas Conc.	Span Reading

Horiba Calibration

Temperature Adjustment Value: _____ °C

Auto Calibration – [Not required in NJ; check with LSRP] Time: _____ Initials: _____

Autocal Solution Temperature Reading: _____°C Adjusted Temperature: _____ °C

Analysis	Standard	Reading	Standard Value	Acceptable Reading	Recovery (%)	Acceptable Recovery
pH	Autocal Solution		4	3.9 – 4.1		
Dissolved Oxygen	Air		8-12 mg/L	8 – 12 mg/L		
Specific Conductance	Autocal Solution		4.49 mS/cm	4.35 – 4.63 mS/cm		+/- 3%
Turbidity	Autocal Solution		0.0 NTU	0.0 – 0.5 NTU		+/- 10%

Manual Calibration/Check – [Required in NJ; non-NJ, check local requirements]

Dissolved Oxygen				
Analysis	Standard	Reading	Time	Initials
Calibration	0 mg/L (Na_2SO_3 Solution)			
	8.8 mg/L summer/ 8.2 mg/L winter (Air)			
Check (Acceptable Range)	0 mg/L (0.0-0.3 mg/L)			

Specific Conductance				
Analysis	Standard	Reading	Time	Initials
Calibration	0.0 mScm (air)			
	1.413 mS/cm			
Check (Acceptable Range)	1.413 mS/cm (1.399 – 1.427 mS/cm)			

Turbidity				
Analysis	Standard	Reading	Time	Initials
Calibration	0 NTU (DI water)			
	100 NTU			
Check (Acceptable Range)	100 NTU (90 – 110 NTU)			

FIRST ENVIRONMENT

Daily Sampling Calibration Log

QEH&S MS

pH														
Buffer Standard	**Zero** [pH **4**]				**Span** [pH **10**]				**Check** [pH **7**]				**Time**	**Initials**
	Temp (ºC)	Adj. Temp **T** (ºC)	pH **4** **@ T** (from table)	Reading	Temp (ºC)	Adj. Temp, **T** (ºC)	pH **10** **@ T** (from table)	Reading	Temp (ºC)	Adj. Temp, **T** (ºC)	pH **7** **@ T** (from table)	Reading	--	--
Acceptable Range				+/- 0.05				+/- 0.05				Calibration: +/- 0.1 3-hr check: +/- 0.2	--	--
Initial Calibration														
Recalibration (if check failed)														
2nd Recalibration (if check failed*)														
1st 3-hr check														
Recalibration (if check failed)														
2nd Recalibration (if check failed*)														
2nd 3-hr check														
Recalibration (if check failed)														
2nd Recalibration (if check failsed*)														
3rd 3-hr check														
Recalibration (if check failed)														
2nd Recalibration (if check failed*)														

*Call vendor before performing 3rd recalibration

Comments: _____

QA/QC Review by: **PML.LSRP/Lab Manager (circle one)** **Initials:** _____ **Date:** _____