



Storm Event Summary Report

City and County of Honolulu Kaelepulu Pond Monitoring

Site Location: Keolu Lined Channel

Sample ID: **Keolu**
Sample Date: 2/3/2015
Event Rainfall: 0.28-inches

Sampling Results Summary Table

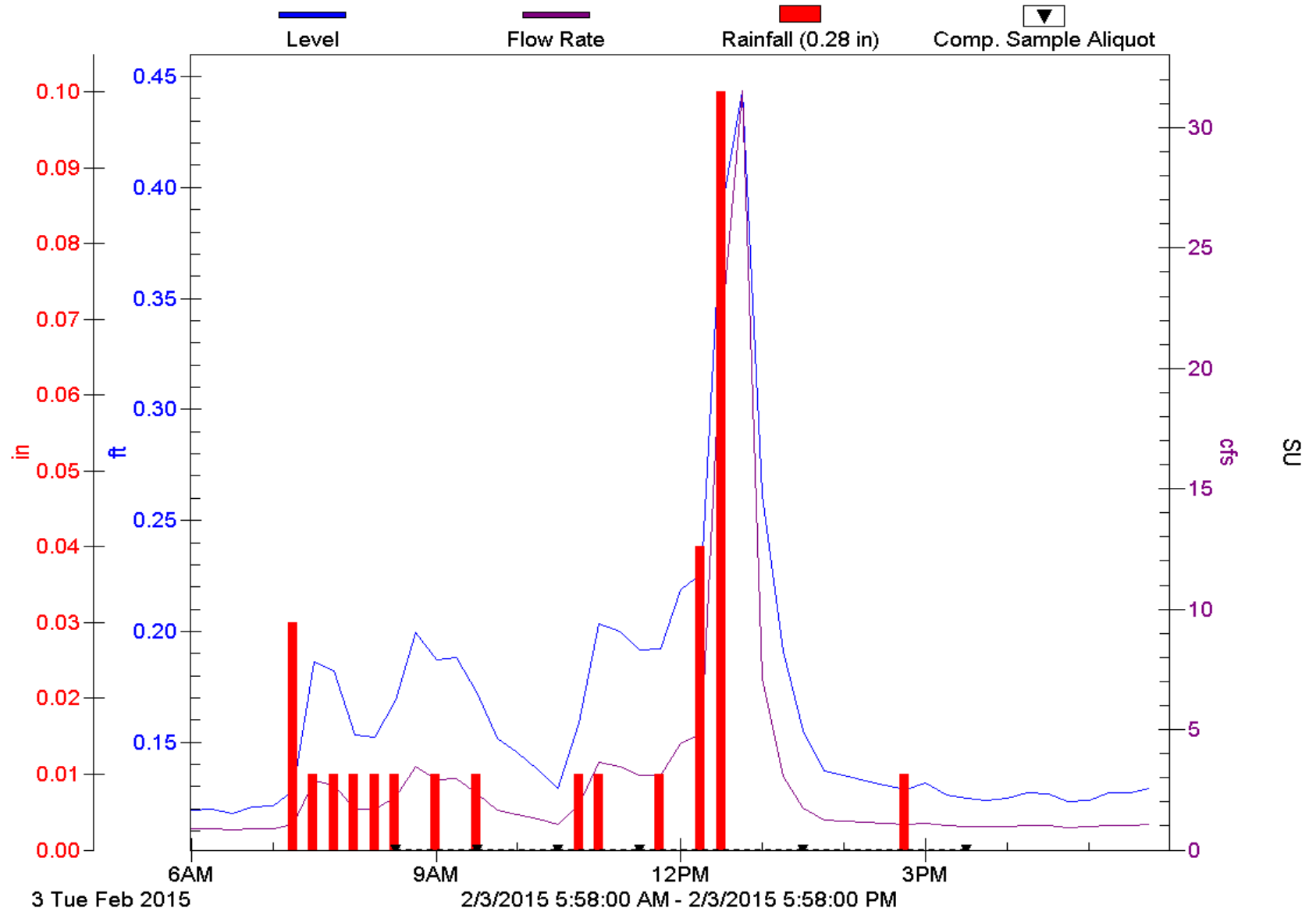
	Parameter (units)	Analytical Result	Method
	Enterococcus (count)	14000	Grab--EPA 1600
C O M P 1	Total Suspended Solids (mg/l)	42	SM 2540 D
	Ammonia Nitrogen (mg/l)	0.057	EPA 350.1
	Nitrate + Nitrite as Nitrogen (mg/l)	0.18	EPA 353.2
	Total Phosphorous (mg/l)	0.239	EPA 365.3
C O M P 2	Total Suspended Solids (mg/l)	22	SM 2540 D
	Ammonia Nitrogen (mg/l)	0.039	EPA 350.1
	Nitrate + Nitrite as Nitrogen (mg/l)	0.1	EPA 353.2
	Total Phosphorous (mg/l)	0.194	EPA 365.3
C O M P 3	Total Suspended Solids (mg/l)	11.3	SM 2540 D
	Ammonia Nitrogen (mg/l)	0.044	EPA 350.1
	Nitrate + Nitrite as Nitrogen (mg/l)	0.085	EPA 353.2
	Total Phosphorous (mg/l)	0.154	EPA 365.3
C O M P 4	Total Suspended Solids (mg/l)	8.5	SM 2540 D
	Ammonia Nitrogen (mg/l)	0.043	EPA 350.1
	Nitrate + Nitrite as Nitrogen (mg/l)	0.071	EPA 353.2
	Total Phosphorous (mg/l)	0.144	EPA 365.3
C O M P 5	Total Suspended Solids (mg/l)	47.3	SM 2540 D
	Ammonia Nitrogen (mg/l)	0.041	EPA 350.1
	Nitrate + Nitrite as Nitrogen (mg/l)	0.151	EPA 353.2
	Total Phosphorous (mg/l)	0.211	EPA 365.3
C O M P 6	Total Suspended Solids (mg/l)	6.5	SM 2540 D
	Ammonia Nitrogen (mg/l)	0.055	EPA 350.1
	Nitrate + Nitrite as Nitrogen (mg/l)	0.385	EPA 353.2
	Total Phosphorous (mg/l)	0.166	EPA 365.3

Enclosures:

1. Storm Event Hydrograph with Rainfall Data and Composite Aliquot Sample Markers
2. Storm event *Composite and Flow Calculation Form*
3. Columbia Analytical Services (CAS) Laboratory *COC and Analytical Report*

Keolu Lined Channel

Kaelepulu Watershed Study





Composite and Flow Calculation Form
City and County of Honolulu Kaelepulu Pond Monitoring

Site Location: Keolu Lined Channel

Sample ID: Keolu
 Sample Start Date: 2/3/2015
 Sample Team: BB/BK
 Last Significant Rain Event: 1/24/2015 22:15
 Rain Event Start Date/Time: 2/3/2015 7:15
 Sampler Enable Date/Time: 2/3/2015 7:30
 Grab Sample Date/Time: 2/3/2015 10:38
 Composite Sample Date/Time: SEE NOTE BELOW

Sampler Part A- Sample Interval (hrs):	1.00
Sampler Part A- Number of Samples	4
Sampler Part B- Sample Interval (hrs):	2.00
Sampler Part B- Number of Samples	2
Sample- Total Time (hrs):	8.00
Total Samples:	6

Composite

Sample Period Date/Time	Sample Number	Aliquot Period Flow - Q _A (CF)	Aliquot Period Average Flow Intensity (CFS)	Aliquot Period % Q _A /Total Q (percent)	Volume for 2000 mL Composite Bottle (mL)	Volume for 1000 mL Composite Bottle (mL)	Volume for 500 mL Composite Bottle (mL)
2/3/2015 8:30	1	7463	2.073	10.29%	205.77	102.89	51.44
2/3/2015 9:30	2	10457	2.905	14.42%	288.34	144.17	72.08
2/3/2015 10:30	3	4937	1.371	6.81%	136.12	68.06	34.03
2/3/2015 11:30	4	10862	3.017	14.98%	299.50	149.75	74.88
2/3/2015 13:30	5	69615	9.669	47.99%	959.76	479.88	239.94
2/3/2015 15:30	6	8015	1.113	5.53%	110.51	55.25	27.63
Storm Total:	6	111349	20.148	100%	2000	1000	500

*Submitted each aliquot separately, as time-interval samples--Keolu 1-6

**Storm Event flow rate data corrected using Manning's Formula, due to noise and/or gaps with velocity data.