



Storm Event Summary Report

City and County of Honolulu Kaelepulu Pond Monitoring

Site Location: Keolu Lined Channel

Sample ID: Keolu
Sample Date: 7/20/2014
Event Rainfall: 5.74-inches

Sampling Results Summary Table

	Parameter (units)	Analytical Result	Method
	Enterococcus (MPN/100 ml)	>2400	Grab--EPA 1600
C O M P	Total Suspended Solids (mg/l)	56.5	SM 2540 D
	Ammonia Nitrogen (mg/l)	0.07	EPA 350.1
	Nitrate + Nitrite as Nitrogen (mg/l)	0.38	EPA 353.2
	Total Phosphorous (mg/l)	0.271	EPA 365.3

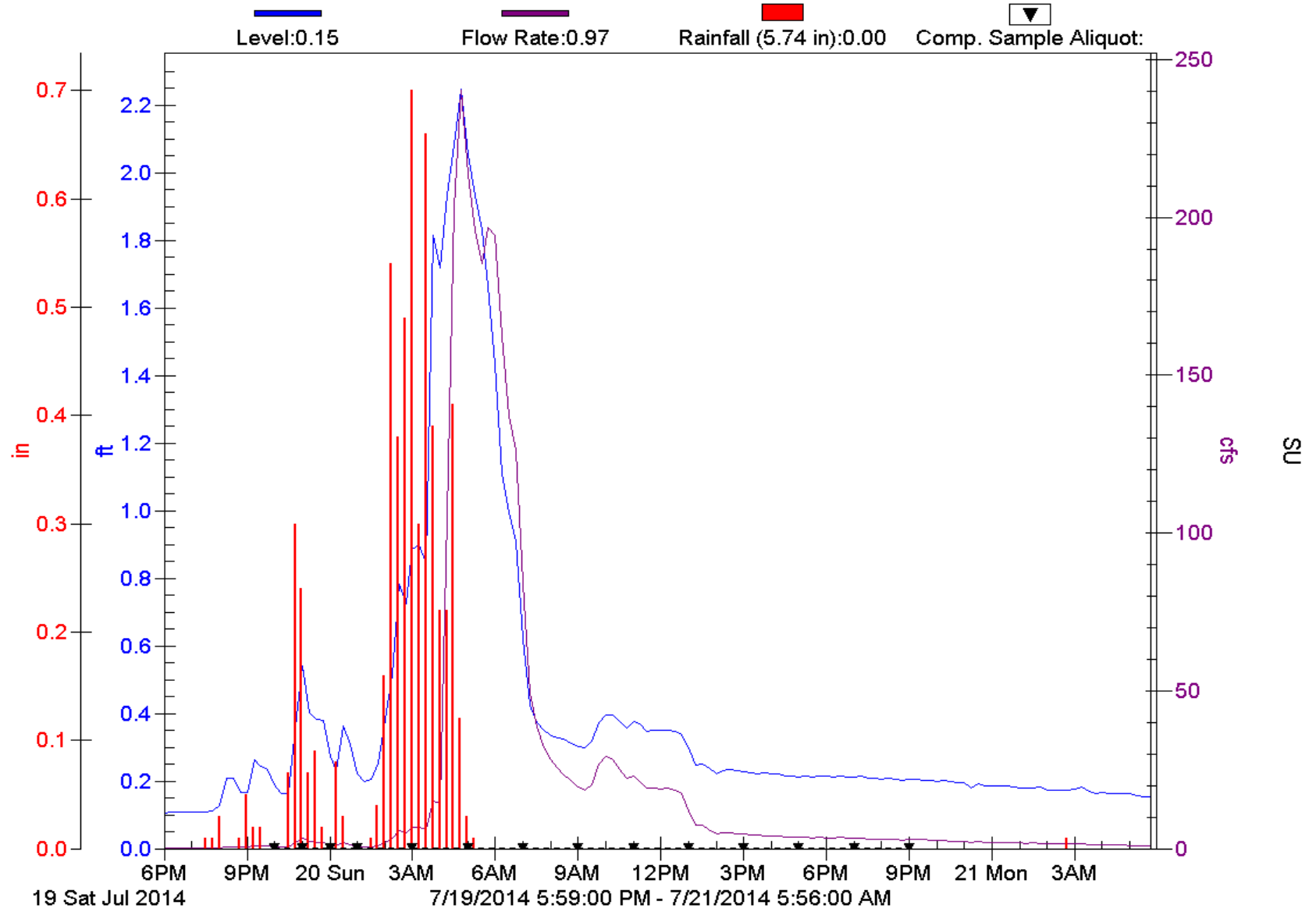
*Composite parameters analytical results represent event mean concentration (EMC).

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 Date: 7/20/2014
 Sample Team: BB/BK
 Last Significant Rain Event: 6/20/2014 9:15
 Rain Event Start Date/Time: 7/19/2014 19:30
 Sampler Enable Date/Time: 7/19/2014 21:01
 Grab Sample Date/Time: 7/20/2014 0:10
 Composite Sample Date/Time: **7/20/2014 21:01**

Sampler Part A- Aliquot Interval (hrs): 1.00
 Sampler Part A- Number of Aliquots: 4

Sampler Part B- Aliquot Interval (hrs): 2.00
 Sampler Part B- Number of Aliquots: 10

Composite Sample- Total Time (hrs): 24.00
 Composite Sample- Total Aliquots: 14

Composite

Aliquot Period Date/Time	Aliquot (Bottle) 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)
7/19/2014 22:01	1	435	0.121	0.03%	0.64	0.32	0.16
7/19/2014 23:01	2	5265	1.462	0.39%	7.76	3.88	1.94
7/20/2014 0:01	3	6212	1.726	0.46%	9.15	4.58	2.29
7/20/2014 1:01	4	3951	1.097	0.29%	5.82	2.91	1.46
7/20/2014 3:01	5	21822	3.031	0.80%	16.08	8.04	4.02
7/20/2014 5:01	6	724471	100.621	26.68%	533.68	266.84	133.42
7/20/2014 7:01	7	1153805	160.251	42.50%	849.95	424.97	212.49
7/20/2014 9:01	8	214039	29.728	7.88%	157.67	78.84	39.42
7/20/2014 11:01	9	173861	24.147	6.40%	128.07	64.04	32.02
7/20/2014 13:01	10	173861	24.147	6.40%	128.07	64.04	32.02
7/20/2014 15:01	11	131286	18.234	4.84%	96.71	48.36	24.18
7/20/2014 17:01	12	39954	5.549	1.47%	29.43	14.72	7.36
7/20/2014 19:01	13	28674	3.983	1.06%	21.12	10.56	5.28
7/20/2014 21:01	14	21504	2.987	0.79%	15.84	7.92	3.96
Storm Total:	14	2699140	377.094	100%	2000	1000	500