



Storm Event Summary Report

City and County of Honolulu Kaelepulu Pond Monitoring

Site Location: Keolu Lined Channel

Sample ID: Keolu Lined Channel

Sample Date: 1/3/2015

Event Rainfall: 0.96-inches

Sampling Results Summary Table

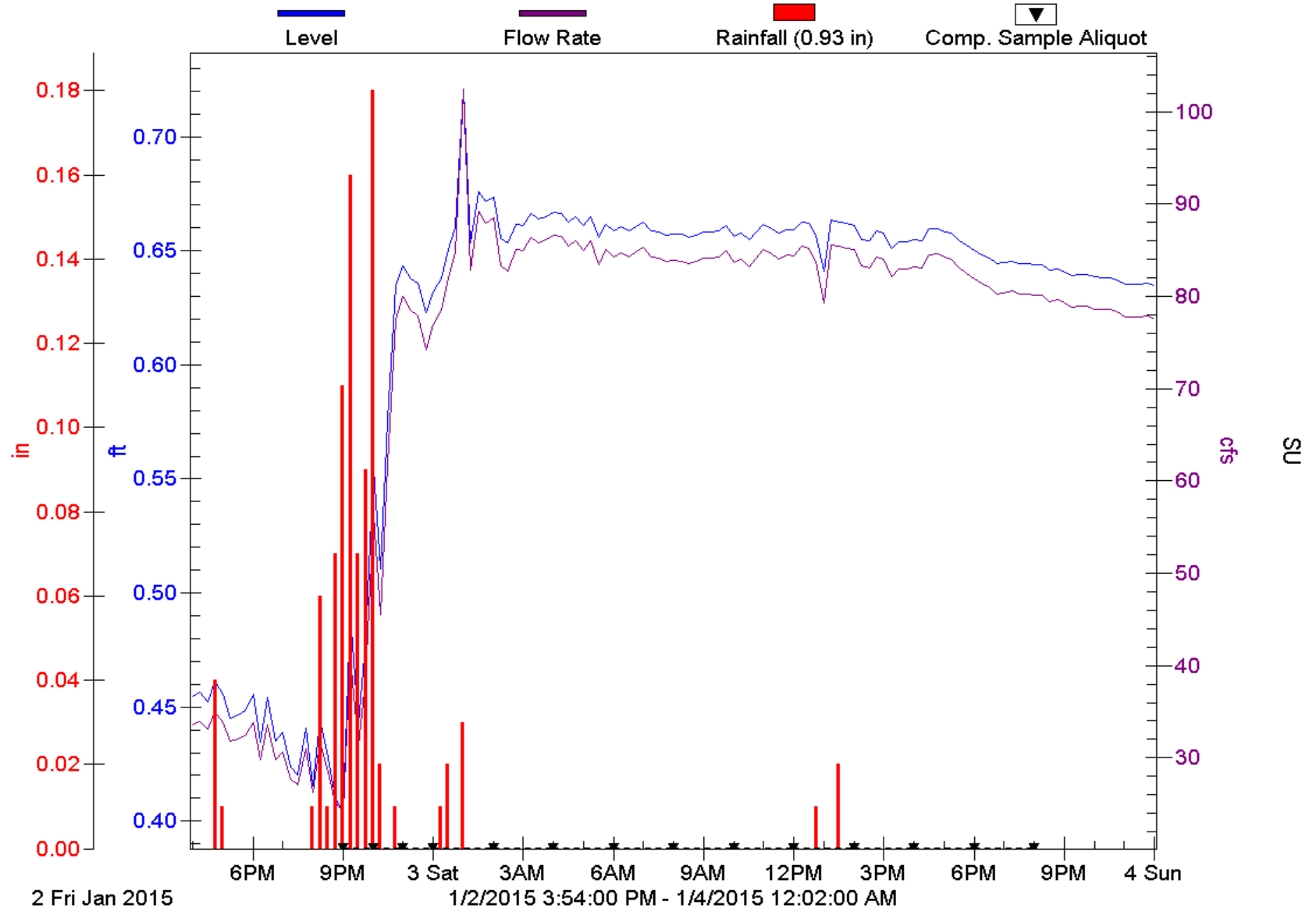
	Parameter (units)	Analytical Result	Method
C O M P	Total Suspended Solids (mg/l)	35	<i>SM 2540 D</i>
	Ammonia Nitrogen (mg/l)	0.088	<i>EPA 350.1</i>
	Nitrate + Nitrite as Nitrogen (mg/l)	0.217	<i>EPA 353.2</i>
	Total Phosphorous (mg/l)	0.429	<i>EPA 365.3</i>

*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 Lined Channel
 Sample Start Date: 1/2/2015
 Sample Team: EP/BB?BK
 Last Significant Rain Event: 12/30/2015 23:00
 Rain Event Start Date/Time: 1/2/2015 10:45
 Sampler Enable Date/Time: 1/2/2015 20:00
 Grab Sample Date/Time: Not collected due to lab closure.
 Composite Sample Date/Time: **1/3/2015 20:00**

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)
1/2/2015 21:00	1	98543.70	27.373	2.60%	51.95	25.97	12.99
1/2/2015 22:00	2	150431.40	41.786	3.96%	79.30	39.65	19.82
1/2/2015 23:00	3	238369.50	66.214	6.28%	125.66	62.83	31.41
1/3/2015 0:00	4	276709.50	76.864	7.29%	145.87	72.93	36.47
1/3/2015 2:00	5	626515.20	87.016	8.26%	165.13	82.57	41.28
1/3/2015 4:00	6	612931.50	85.129	8.08%	161.55	80.78	40.39
1/3/2015 6:00	7	613476.90	85.205	8.08%	161.70	80.85	40.42
1/3/2015 8:00	8	607695.30	84.402	8.01%	160.17	80.09	40.04
1/3/2015 10:00	9	605123.10	84.045	7.97%	159.49	79.75	39.87
1/3/2015 12:00	10	606496.50	84.236	7.99%	159.86	79.93	39.96
1/3/2015 14:00	11	607532.40	84.379	8.01%	160.13	80.06	40.03
1/3/2015 16:00	12	599204.70	83.223	7.90%	157.93	78.97	39.48
1/3/2015 18:00	13	601160.40	83.495	7.92%	158.45	79.22	39.61
1/3/2015 20:00	14	579797.10	80.527	7.64%	152.82	76.41	38.20
Storm Total:	14	6823987.20	1053.895	100%	2000	1000	500

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