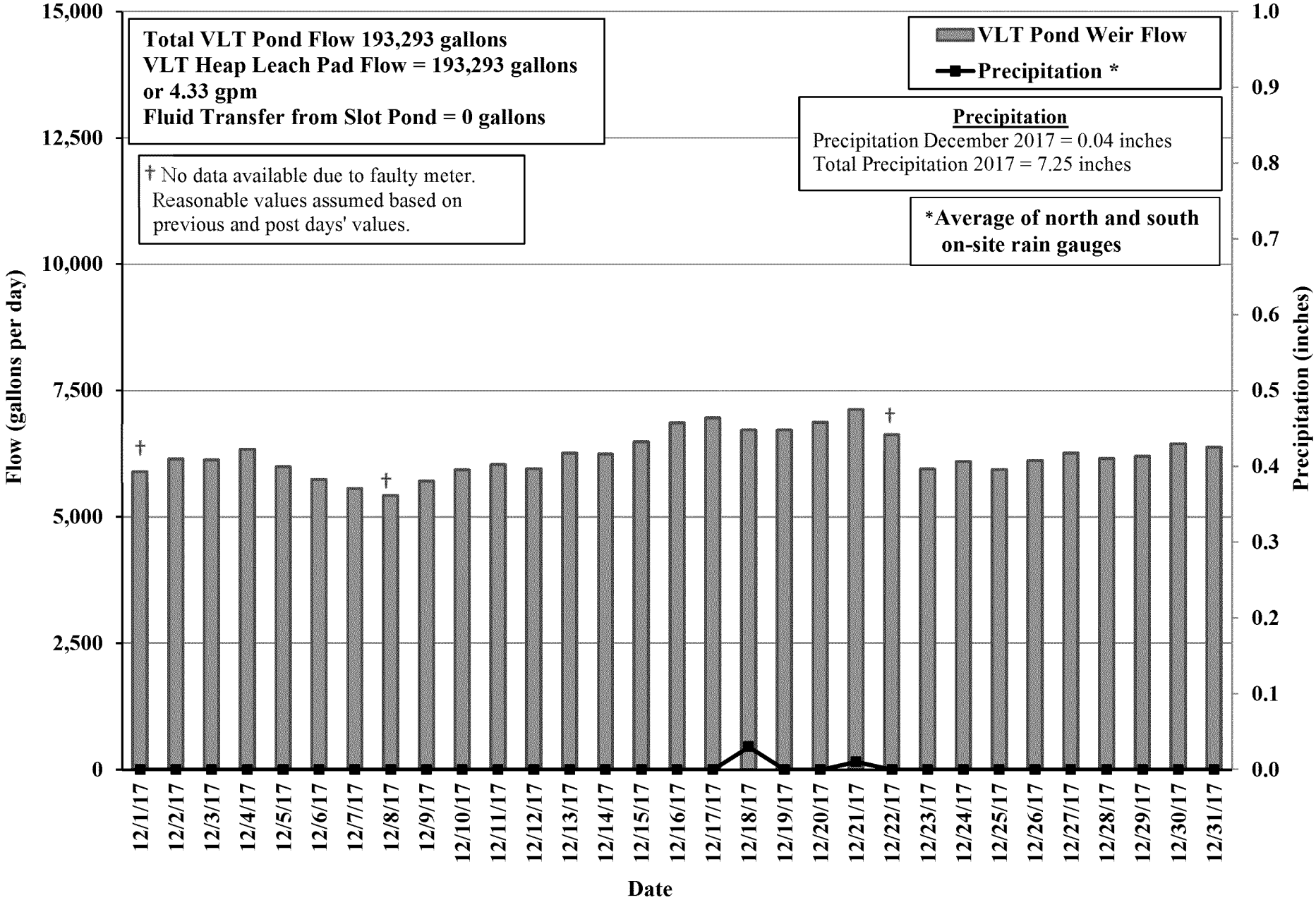
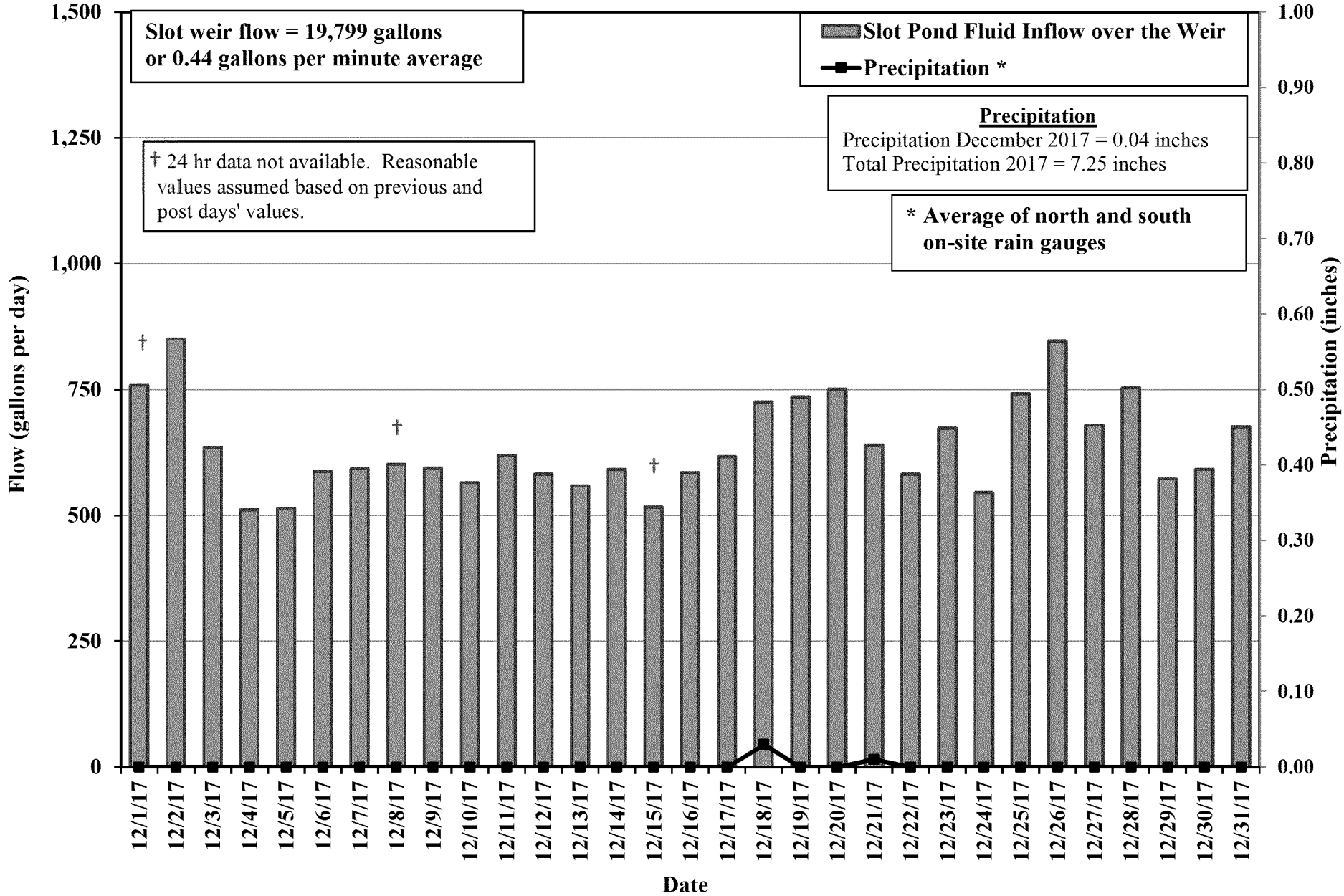
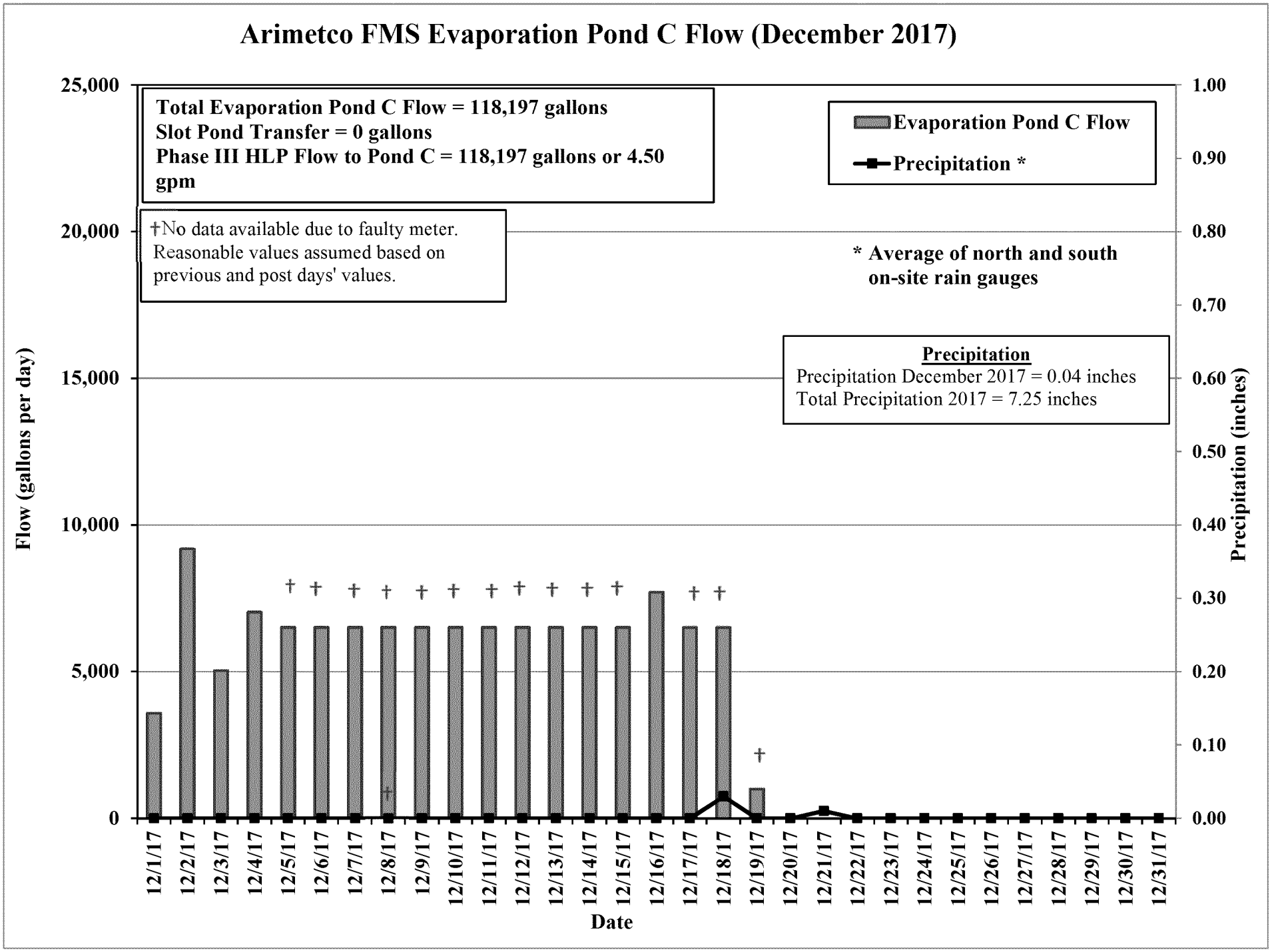
Arimetco VLT Pond Flow (December 2017)

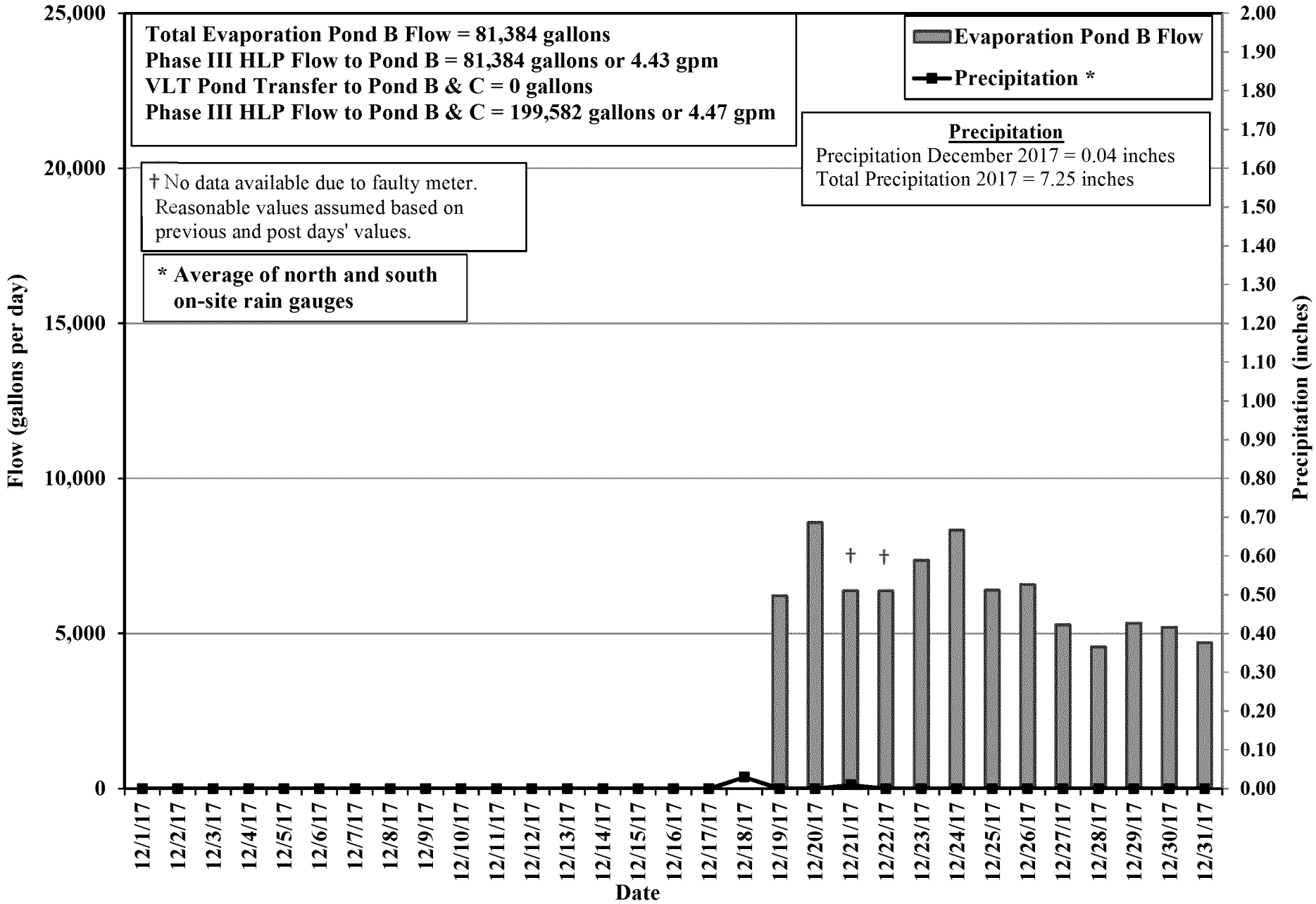


Arimetco Slot Pond Weir Flow (December 2017)

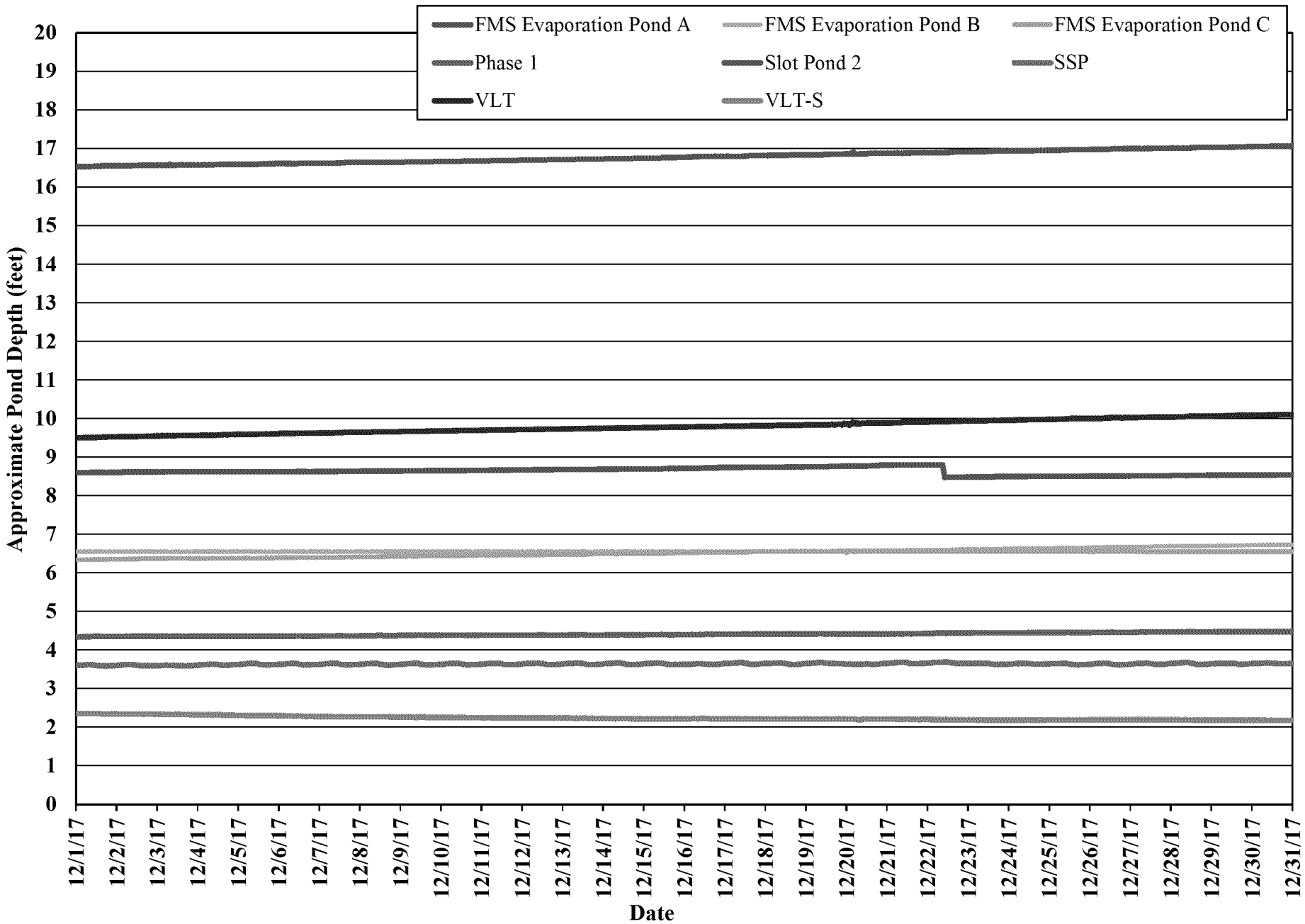



Arimetco FMS Evaporation Pond C Flow (December 2017)
Total Evaporation Pond C Flow = 118,197 gallons
Slot Pond Transfer = 0 gallons
Phase III HLP Flow to Pond C = 118,197 gallons or 4.50 gpm
†No data available due to faulty meter. Reasonable values assumed based on previous and post days' values.
Evaporation Pond C Flow
Precipitation *
* Average of north and south on-site rain gauges
Precipitation
Precipitation December 2017 = 0.04 inches
Total Precipitation 2017 = 7.25 inches
Flow (gallons per day)
Precipitation (inches)
Date
25,000
20,000
15,000
10,000
5,000
0
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
12/1/17
12/2/17
12/3/17
12/4/17
12/5/17
12/6/17
12/7/17
12/8/17
12/9/17
12/10/17
12/11/17
12/12/17
12/13/17
12/14/17
12/15/17
12/16/17
12/17/17
12/18/17
12/19/17
12/20/17
12/21/17
12/22/17
12/23/17
12/24/17
12/25/17
12/26/17
12/27/17
12/28/17
12/29/17
12/30/17
12/31/17

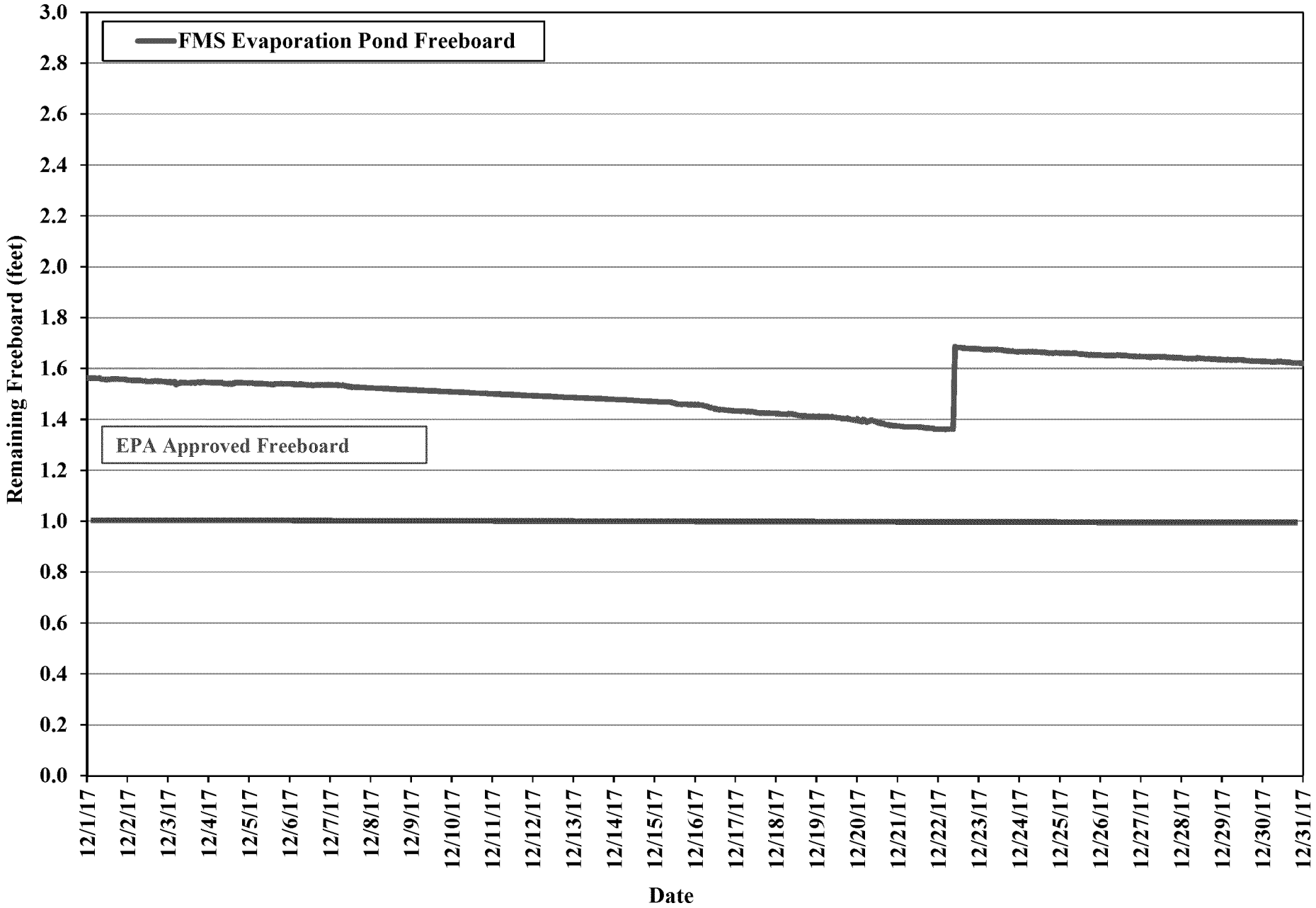
Arimetco FMS Evaporation Pond B Flow (December 2017)



Arimetco FMS Ponds Transducer Levels (December 2017)



Arimetco FMS Evaporation Pond A Freeboard Status (December 2017)



2017 Monthly Leak Detector Data

Leak Detector ID[1]	Jan			Feb			Mar			Apr			May			Jun			Jul			Aug			Sep			Oct			Nov			Dec			Year To Date Total* (Gallons)
Units	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	G/M	G/D	G/Ac-D	
VLTSP	W			W			W			W			W			W			W			W			W			W			W			W			5,258
	325.0	10.5	58.2	481.0	17.2	95.4	341.0	11.0	61.1	439.0	14.6	81.3	498.0	16.1	89.2	496	16.5	91.9	376	12.1	67.4	696	22.5	124.7	621	20.7	115.0	296	9.5	53.0	406	13.5	75.2	283	9.1	50.7	
VLTP1	W			W			W			W			W			W			W			W			W			W			W			W			14,320
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,000.0	300.0	240.0	5,000.0	161.3	129.0	140.0	4.7	3.7	40.0	1.3	1.0	55	1.8	1.4	35	1.2	0.9	40	1.3	1.0	10	0.3	0.3	0	0.0	0.0	
VLTD1	W			W			W			W			W			W			W			W			W			W			W			W			22,209
	3,103.0	100.1		2,688.0	96.0		1,856.0	59.9		1,634.0	54.5		1,508.0	48.6		2,342	78.1		1,949	62.9		1,753	56.5		1,383	46.1		1,067	35.1		819	27.3		2,067	67.3		
VLTD2	W			W			W			W			W			W			W			W			W			W			W			W			3,793
	574.0	18.5		766.0	27.4		417.0	13.5		343.0	11.4		214.0	6.9		251	8.4		214	6.9		238	7.7		182	6.1		168	5.4		195	6.5		231	7.5		
VLTD3	D			D			D			D			D			D			D			D			D			D			D			D			0
	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0	0.0		0.0	0.0		0	0.0		0.0	0.0		
Tot VLTD1 + D2 + D3	3,677.0	118.6	2.1	3,454.0	123.4	2.2	2,273.0	73.3	1.3	1,977.0	65.9	1.2	1,722.0	55.5	1.0	2,593.0	86.4	1.5	2,163.0	69.8	1.2	1,991.0	64.2	1.1	1,565.0	52.2	0.9	1,255.0	40.5	0.7	1,014.0	33.8	0.6	2,318.0	74.8	1.3	
EP"B"	W			W			W			W			W			W			W			W			W			W			W			W			30
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	1.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	
EP"C"	W			W			W			W			W			W			W			W			D			D			W			D			0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	
I FX	W			W			W			W			W			W			W			W			W			W			W			W			747
	128.0	4.1		139.0	5.0		104.0	3.4		81.0	2.7		72.0	2.3		0	0.0		28	0.9		36.0	1.2		0	0.0		18	0.6		93	3.1		48	1.5		
II FX	W			W			W			W			W			W			W			W			W			W			W			W			444
	54.0	1.7		78.0	2.8		95.0	3.1		75.0	2.5		40.0	1.3		0.0	0.0		22	0.7		0.0	0.0		0	0.0		0.0	0.0		15	0.5		65.0	2.1		
III FX	W			W			W			W			W			W			W			W			W			D			W			D			35
	35.0	1.1		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0	0.0		0.0	0.0		0	0.0		0.0	0.0		
Tot 1FX+ 2FX + 3FX	217.0	7.0	0.1	217.0	7.8	0.2	199.0	6.4	0.1	156.0	5.2	0.1	112.0	3.6	0.1	0.0	0.0	0.0	50.0	1.6	0.0	36.0	1.2	0.0	0.0	0.0	0.0				108.0	3.6	0.1				
SSP1	W			W			W			W			W			W			W			W			W			W			W	W		D			33
	0.0	0.0	0.0	33.0	1.2	6.5	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	
SD1	W			W			W			W			W			W			W			W			W			W			W	W		W			281,302
	26,640.0	859.4		26,204.0	935.9		21,283	686.5		22,405.0	746.8		22,426.0	723.4		26,929	897.6		21,244	685.3		26,484	854.3		21,120	704.0		21,184	683.4		26,820	894.0		18,563	598.8		
SD2	D			D			D			D			D			D			D			D			D			D			D	D		D			0
	0.0	0.0		0.0	0.0		0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0	0.0		0.0	0.0		0	0.0		0.0	0.0		
SD3	D			D			D			D			W			D			W			W			D			D			D	D		D			38
	0.0	0.0		0.0	0.0		0	0.0		0.0	0.0		38.0	1.2		0.0	0.0		0.0	0.0		0.0	0.0		0	0.0		0.0	0.0		0	0.0		0.0	0.0		
Tot SD1 + SD2 + SD3	26,640.0	859.4	13.0	26,204.0	935.9	14.2	21,283.0	686.5	10.4	22,405.0	746.8	11.3	22,464.0	724.6	11.0	26,929.0	897.6	13.6	21,244.0	685.3	10.4	26,484.0	854.3	12.9	21,120.0	704.0	10.7	21,184.0	683.4	10.4	26,820.0	894.0	13.5	18,563.0	598.8	9.1	
MD1	W			W			D			W			W			D			W			W			D			D			D	W		W			43
	0	0.0	0.00	0	0.0	0.00	0.0	0.0	0.00	10.0	0.3	0.01	8.0	0.3	0.01	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0	0.0	0.00	0.0	0.0	0.00	0	0.0	0.00	25.0	0.8	0.02	
Total	30,859			30,389			24,096			33,987			29,834			30,158			23,873			29,262			23,341			22,793			28,358			21,302			328,252

Notes:

1) Leak Detector Locations shown on Figure 2-1 of the 2015 Annual O&M Report (March 31, 2015)
2) W = Wet; and D = Dry ("Wet" and "Dry" visual observations)
3) G/M = Gallons per Month
4) G/D = Gallons Per Day
5) G/Ac-D = Gallons per Acre per Day (monthly average)
6) VLT Sediment Pond Area = 0.18 acres
7) VLT Pond Area = 1.25 acres
8) Slot Sediment Pond Area = 0.18 acres
9) Slot Pond 2 Area = 1.1 acres
10) Evaporation Pond B Area = 1.1 acres
11) Evaporation Pond C Area = 1.1 acres
12) Slot Heap Leach Pad (HLP) Area = 66 acres
13) VLT HLP Area = 56 acres
14) Phase III 4X HLP Area= 47 acres
15) Phase III South HLP Area = 48 acres
16) Individual HLP perimeter collection ditch leak detector flows combined (Tot VLT D1+D2+D3, Tot 1FX+2FX+3FX, and Tot SD1+SD2+SD3) for estimating flows in Gallons per Acre per Day (G/Ac-D)

RED= Leak in liner found.

*Previous months' reports did not include VLTP1 data in the totals in this spreadsheet. A correction was made and the totals are not updated.