PotashCorp
Helping Nature Provide

PCS Report Tables

Table 1.

PCS RAINFALL GAGE VOLUMES FOR TROPICAL STORM DEBBY

A. 24-Hour Rainfall Volumes

1. B-Fish – 14.4 inches (1 in 7,340-Year Event) (0.0136% Return Frequency)
2. D-002 – 9.46 inches (1 in 130-Year Event) (0.77% Return Frequency)
3. WSP – 10.86 inches (1 in 410-Year Event) (0.244% Return Frequency)
4. IC-41 – 10.2 inches (1 in 240-Year Event) (0.417% Return Frequency)
5. NWS @ Lab – 12.84 inches (1 in 2,060-Year Event) (0.0423% Return Frequency)
6. SRCC – 11.6 inches (1 in 750-Year Event) (0.133% Return Frequency)
7. SCCC – 9.08 inches (1in 96-Year Event) (1.04% Return Frequency)
8. Average – 11.21 inches (1 in 545-Year Event) (0.183% Return Frequency)

B. 48-Hour Rainfall Volumes

1. B-Fish – 20.7 inches (1 in 82,220-Year Event) (.00122% Return Frequency)
2. D-002 – 12.61 inches (1 in 335-Year Event) (0.3% Return Frequency)
3. WSP – 14.88 inches (1 in 1,570-Year Event) (0.0637% Return Frequency)
4. IC-41 – 15.13 inches (1 in 1,860-Year Event) (0.054% Return Frequency)
5. NWS @ Lab – 18.22 inches (1 in 15,215-Year Event) (0.00657% Return Frequency)
6. SRCC – 17.94 inches (1 in 12,580-Year Event) (0.00795% Return Frequency)
7. SCCC – 13.21 inches (1 in 500-Year Event) (0.2% Return Frequency)
8. Average – 16.1 inches (1 in 5700-Year Event) (0.0175% Return Frequency)

C. 72-Hour Rainfall Volumes

1. B-Fish – 22 inches
2. D-002 – 13.25 inches
3. WSP – 15.89 inches
4. IC-41 – 16.16 inches
5. NWS @ Lab – 21.89 inches
6. SRCC – 21.27 inches
7. SCCC – 17.07 inches

Table 2. pH Measurements Relative to CTC Spill

Time	CTC	#1 Lime Station	OUI-02	OUI-04	OUI-18	D-001	Bridge @ Conf Center	Rainfall	220 Site
6/26/12 8:00	1.83		5.84	5.91		6.09			
6/26/12 9:00	1.91		5.89	5.83	7.07	6.27	6.53		
6/26/12 10:00	1.90		6.04	5.94	7.19	6.26	6.72	5.89	
6/26/12 11:00	1.83		5.99	5.83	6.92	6.21	6.56		
6/26/12 14:00	1.81		6.08	5.75	6.64	6.38	6.41		
6/26/12 16:00	1.96		5.86	5.75	6.87	6.08	6.57		
6/26/12 18:00	1.99		5.35	4.00	6.93	6.20	6.26		
6/26/12 19:00					3.68	6.22			
6/26/12 20:00	1.94		3.03	3.31	6.89	6.22			
6/26/12 21:00			3.03		3.31	6.22			
6/26/12 22:00	1.96		2.86	3.15	6.86	6.16		5.53	
6/27/12 0:00	1.91		2.52	3.00		5.78			
6/27/12 2:00			2.65	2.92		5.68			
6/27/12 4:00			2.60	2.80		4.53			
6/27/12 6:00		1.82	2.35	2.58		3.50			
6/27/12 8:00			2.51	2.92	6.61	3.50			
6/27/12 10:00			2.51	2.89	6.63	3.51			
6/27/12 12:00			3.37	2.88	6.70	3.39			
6/27/12 14:00			4.20	3.73	6.73	3.39			
6/27/12 16:00			3.53	3.39	6.77	3.35			
6/27/12 18:00			2.34	2.93	6.75	3.83			
6/27/12 20:00			2.45	2.96		3.78			
6/27/12 22:00			2.50	2.95		3.77			
6/28/12 0:00			2.58	2.95		3.53			
6/28/12 2:00			2.53	2.97		3.47			
6/28/12 4:00			2.54	2.96		3.42			
6/28/12 6:00			2.55	2.97		3.45			
6/28/12 16:00			3.18	3.04		3.44			3.19
6/28/12 18:00			4.16	3.41		3.40			3.23
6/28/12 22:00			2.59	3.50		3.50			3.26
6/29/12 0:00			2.52	3.28		3.66			3.33
6/29/12 2:00			2.60	3.54		3.70			3.54
6/29/12 4:00			2.58	4.01		3.62			3.4
6/29/12 6:00			2.58	3.33		3.55			3.55
6/29/12 8:00			3.02	3.45	6.25	3.63			3.44
6/29/12 10:00			3.20	3.53		3.56			3.24
6/29/12 16:00			3.6	3.94		3.83			4.02
6/29/12 18:00			No Flow	4.97		3.97			4.18
6/29/12 20:00			No Flow	5.53		4.10			4.17
6/29/12 22:00			No Flow	4.45		4.25			4.45
6/30/12 0:00			No Flow	3.81		4.67			4.89
6/30/12 2:00			No Flow	3.61		5.09			5.26
6/30/12 4:00			No Flow	3.67		5.10			5.43
6/30/12 6:00			No Flow	3.73		4.83			5.65
6/30/12 8:00			No Flow	3.71		4.87			5.63
6/30/12 10:00			No Flow	4.72		4.88			5.76
6/30/12 12:00			No Flow	5.08		5.23			5.85
6/30/12 14:00			No Flow	5.05	5.99	5.34			5.84
6/30/12 16:00			No Flow	5.55	6.06	5.51			6.11
6/30/12 18:00			No Flow	5.64		5.63			6.15
6/30/12 20:00			No Flow	5.66		5.61			6.13
6/30/12 22:00			No Flow	5.67		5.73			6.12

Table 2. pH Measurements Relative to CTC Spill

Time	CTC	#1 Lime Station	OUI-02	OUI-04	OUI-18	D-001	Bridge @ Conf Center	Rainfall	220 Site
7/1/12 2:00			No Flow	5.66		5.83			6.16
7/1/12 4:00			No Flow	5.66		5.91			5.61
7/1/12 6:00			No Flow	5.58		5.89			6.2
7/1/12 8:00			No Flow	5.61		5.88			6.22
7/1/12 10:00			No Flow	5.66		5.90			6.33
7/1/12 12:00			No Flow	5.64		5.94			6.38
7/1/12 14:00			No Flow	5.71		6.00			6.46
7/1/12 16:00			No Flow	5.67		6.00			

Table 3. Specific Conductivity Measurements Relative to CTC Spill

Time	Spill	Lime Station	OUI-02	OUI-04	OUI-18	D-001	Bridge @ Conf Center	Rainfall	220 Site
6/26/12 18:00	18,000		246	347	407	75	328		
6/26/12 20:00			2035	1362		292			
6/26/12 22:00	17,580		246	1009	406	153		3.8	
6/27/12 0:00	18,500		1593	1154		213			
6/27/12 2:00			2035	1362		292			
6/27/12 4:00			2406	1446		364			
6/27/12 6:00		17250	2619	1525		429			
6/27/12 8:00			3336	1540	362	571			
6/27/12 10:00			3384	1608	365	650			
6/27/12 12:00			2544	1700	350	697			
6/27/12 14:00			2400	1227	347	670			
6/27/12 16:00			2621	1273	376	696			
6/27/12 18:00			3790	1512	372	611			
6/27/12 20:00			3844	1510		613			
6/27/12 22:00			3814	1482		628			
6/28/12 0:00			3845	1494		675			
6/28/12 2:00			3826	1432		685			
6/28/12 4:00			3949	1434		692			
6/28/12 6:00			4136	1454		688			
6/28/12 16:00			4169	1384		702			893
6/28/12 18:00			2646	1268		728			785
6/28/12 20:00			4230	1155		730			606
6/28/12 22:00			5300	1247		715			731
6/29/12 0:00			5690	1250		662			700

Table 3. Specific Conductivity Measurements Relative to CTC Spill

Time	Spill	Lime Station	OUI-02	OUI-04	OUI-18	D-001	Bridge @ Conf Center	Rainfall	220 Site
6/29/12 4:00			5720	1262		661			616
6/29/12 6:00			5630	1340		667			584
6/29/12 8:00			5170	1546	296	660			567
6/29/12 10:00			5120	1478		664			640
6/29/12 20:00				743		490			413
6/29/12 22:00				778		462			405
6/30/12 0:00				819		423			393
6/30/12 2:00				797		411			386
6/30/12 4:00				725		411			383
6/30/12 6:00				686		413			382
6/30/12 10:00				525		410			386
6/30/12 12:00				483		380			363
6/30/12 14:00				485	274	375			369
6/30/12 16:00				423	284	363			362
6/30/12 18:00				404		353			351
6/30/12 20:00				387		348			351
6/30/12 22:00				377		341			358
7/1/12 0:00				367		333			294
7/1/12 2:00				374		326			346
7/1/12 4:00				382		322			352
7/1/12 6:00				385		325			350
7/1/12 8:00				381		325			347
7/1/12 10:00				383		324			344
7/1/12 12:00				380		324			340
7/1/12 14:00				363		321			343
7/1/12 16:00				367		323			

Table 4. Results from Continuing Sampling Program Relating to TS Debby

Sampling Point on 7-8-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	2.68	9.45	7.02	319	1.19	0.06	1.25	0.13
Inlet to Eagle Lake	2.20	11.50	7.16	315	1.83	0.11	1.94	0.71
SW 21	3.11	26.60	7.15	369	0.87	0.02	0.89	0.07
SW 13	1.22	12.70	7.18	320	4.40	0.20	4.60	2.67
Culvert (#4 corridor)	3.32	9.93	6.47	351	0.73	0.01	0.74	0.07
Million Dollar Hole	2.28	46.10	6.72	166	1.09	0.03	1.12	0.08
Altman Bay	57.90	9.59	5.16	554	9.52	0.19	9.71	7.07
OUI-4			6.53	274				
OUI-6			4.11	674				
OUI-7			7.83	243				
OUI-9			6.90	172				
Purvis Lake Outfall								
Sec. 28 Spillway to Hogan Lake								

Sampling Point on 7-9-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	2.56	7.97	7.26	295	1.34	0.08	1.42	0.18
Inlet to Eagle Lake	2.33	6.72	7.57	306	2.31	0.15	2.46	0.70
SW 21	2.47	15.60	7.40	333	1.11	0.01	1.12	0.07
SW 13	1.28	9.00	7.65	306	4.18	0.26	4.44	2.09
Culvert (#4 corridor)	3.71	7.32	7.14	348	1.11	0.01	1.12	0.17
Million Dollar Hole	2.64	51.20	6.87	159	1.29	0.04	1.33	0.17
Altman Bay	68.00	9.01	4.98	547	10.65	0.19	10.84	8.68
OUI-4			6.61	260				
OUI-6			4.23	629				
OUI-7			7.47	253				
OUI-9			7.15	151				
Purvis Lake Outfall	0.79	9.41	7.09	160	2.38	0.02	2.40	0.29
Sec. 28 Spillway to Hogan Lake		7.51	7.22	283		0.03		

Sampling Point on 7-10-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	2.57	6.37	7.23	348	1.62	0.10	1.72	0.30
Inlet to Eagle Lake	2.54	5.24	7.31	330	1.89	0.14	2.03	0.34
SW 21	1.70	11.70	7.88	323	1.12	0.02	1.14	0.08
SW 13	1.31	8.99	7.51	317	3.93	0.35	4.28	1.62
Culvert (#4 corridor)	4.06	6.73	6.97	432	1.65	0.02	7.67	0.48
Million Dollar Hole	2.46	37.40	6.73	158	1.85	0.04	1.89	0.24
Altman Bay	72.40	8.50	4.46	662	11.68	0.20	11.88	9.92
OUI-4			7.32	226				
OUI-6								
OUI-7			7.71	260				
OUI-9								
Purvis Lake Outfall								
Sec. 28 Spillway to Hogan Lake	0.83	7.51	7.22	283	2.43	0.03	2.46	0.19

Sampling Point on 7-11-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	2.56	6.86	7.06	329	1.68	0.14	1.82	0.31
Inlet to Eagle Lake	2.76	4.73	7.24	331	1.60	0.10	1.70	0.44
SW 21	1.93	13.40	7.50	327	1.02	0.00	1.02	0.09
SW 13	1.41	10.10	7.42	332	3.85	0.44	4.29	1.33
Culvert (#4 corridor)	4.18	8.57	6.94	370	1.60	0.02	1.62	0.31
Million Dollar Hole	1.22	14.10	6.77	141	1.50	0.00	1.50	0.08
Altman Bay	70.70	26.20	4.32	691	13.44	0.20	13.64	9.74
OUI-4			7.26	279				
QUI-6								
OUI-7			7.46	282				
OUI-9								
Purvis Lake Outfall	0.46	9.87	7.45	154	2.38	0.03	2.41	0.13
Sec. 28 Spillway to Hogan Lake	0.91	11.40	7.12	285	2.80	0.02	2.20	0.06

Sampling Point on 7-12-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	2.51	8.58	7.05	331	1.62	0.15	1.77	0.27
Inlet to Eagle Lake	2.95	4.58	7.16	359	1.78	0.08	1.86	0.38
SW 21	1.99	13.60	7.57	330	1.29	0.02	0.13	0.11
SW 13	1.29	7.00	7.15	333	3.56	0.47	4.03	1.40
Culvert (#4 corridor)	3.66	7.30	6.93	352	1.85	0.03	1.88	0.19
Million Dollar Hole	8.42	12.20	6.78	351	2.21	0.13	2.34	0.59
Altman Bay	84.50	11.60	4.22	742	14.78	0.17	14.95	12.01
OUI-4			7.09	289				
OUI-6								
OUI-7			7.47	285				
OUI-9								
Purvis Lake Outfall								
Sec. 28 Spillway to Hogan Lake								

Sampling Point on 7-13-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	2.57	4.41	7.12	336	1.28	0.20	1.48	0.38
Inlet to Eagle Lake	3.17	7.10	7.10	324	1.33	0.16	1.49	0.36
SW 21	1.78	15.10	7.56	331	0.75	0.01	0.76	0.05
SW 13	1.28	6.64	7.29	331	3.21	0.44	3.65	1.71
Culvert (#4 corridor)	3.30	5.60	6.99	348	0.86	0.03	0.89	0.24
Million Dollar Hole	12.30	22.70	6.98	508	1.56	0.15	1.71	0.85
Altman Bay	91.90	13.50	4.29	783	14.59	0.19	14.78	12.56
OUI-4			7.22	285				
OUI-6								
OUI-7			7.60	281				
OUI-9			6.82	156				
Purvis Lake Outfall								
Sec. 28 Spillway to Hogan Lake								

Table 4. Results from Continuing Sampling Program Relating to TS Debby

Sampling Point on 7-2-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	7.96	19.2	6.48	324	238	0.07	2.45	1.22
Inlet to Eagle Lake	4.61	38.9	6.93	368	1.55	0.05	1.6	0.44
SW 21	2.22	33.9	7.59	321	1.13	0.02	1.15	0.12
SW 13	2.45	16.5	7.29	347	2.25	0.08	2.33	0.16
Culvert (#4 corridor)	4.22	7.19	6.80	326	1.39	0.02	1.41	0.38
Million Dollar Hole	2.68	34.1	6.73	174	1.68	0.04	1.72	0.18
Altman Bay	No Samples Today							
OUI-4			5.44	431				
OUI-6			4.04	749				
OUI-7			7.52	198				
OUI-9			6.96	168				
Purvis Lake Outfall	No Samples Today							
Sec. 28 Spillway to Hogan Lake	0.78	15.5	7.47	319	1.54	0.02	1.56	0.04

Sampling Point on 7-3-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	5.66	11.60	6.49	329		0.05		0.80
Inlet to Eagle Lake	4.12	39.70	6.70	155		0.04		0.21
SW 21	2.00	22.70	7.57	314		0.01		0.40
SW 13	2.84	26.30	7.15	359		0.06		0.24
Culvert (#4 corridor)	3.64	8.70	6.49	326		0.01		0.63
Million Dollar Hole	3.16	33.20	6.50	155		0.02		0.12
Altman Bay	71.50							
OUI-4			5.76	393				
OUI-6			4.07	747				
OUI-7			7.83	191				
OUI-9			6.78	173				
Purvis Lake Outfall	0.37	17.20	9.00	101		0.01	1.56	0.06
Sec. 28 Spillway to Hogan Lake	0.78	15.50	7.47	319	1.54	0.02		0.04

Sampling Point on 7-4-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	4.03	9.34	6.86	328	1.38	0.05	1.43	0.48
Inlet to Eagle Lake	2.67	16.30	7.02	332	1.18	0.03	1.21	0.25
SW 21	1.58	22.30	7.57	309	0.82	0.01	0.83	0.07
SW 13	2.17	22.40	7.23	347	1.43	0.05	1.48	0.47
Culvert (#4 corridor)	2.77	7.24	6.94	321	1.09	0.01	1.10	0.24
Million Dollar Hole	3.05	28.40	6.81	183	1.28	0.02	1.30	0.15
Altman Bay	32.90	14.30	6.54	368	1.80	0.10	1.81	3.37
OUI-4			5.76	398				
OUI-6			4.25	677				
OUI-7			7.77	193				
OUI-9			6.70	182				
Purvis Lake Outfall	0.31	13.70	8.81	156	1.97	0.01	1.98	0.07
Sec. 28 Spillway to Hogan Lake	0.77	10.70	7.53	288	1.76	0.01	1.77	0.07

Sampling Point on 7-5-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	3.35	8.33	6.93	319	1.57	0.01	1.62	0.40
Inlet to Eagle Lake	2.55	10.60	7.10	321	1.53	0.03	1.56	0.26
SW 21	1.93	20.40	7.44	310	0.89	0.01	0.90	0.07
SW 13	1.80	12.50	7.40	337	2.28	0.07	2.35	0.72
Culvert (#4 corridor)	2.76	7.46	6.71	323	1.11	0.01	1.12	0.28
Million Dollar Hole	3.23	25.10	6.52	181	1.57	0.03	1.60	0.35
Altman Bay	41.40	17.70	5.91	496	7.43	0.15	7.58	2.21
OUI-4			3.96	662				
OUI-6			4.36	635				
OUI-7			7.35	198				
OUI-9			6.96	195				
Purvis Lake Outfall	0.31							
Sec. 28 Spillway to Hogan Lake	0.77							

Sampling Point on 7-6-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	3.06	8.16	6.91	333	1.32	0.06	1.38	0.26
Inlet to Eagle Lake	2.51	10.50	6.96	318	1.32	0.02	1.34	0.17
SW 21	1.77	26.80	7.30	314	0.74	0.01	0.75	0.05
SW 13	1.26	11.60	7.20	334	5.53	0.01	5.54	3.49
Culvert (#4 corridor)	2.78	8.18	6.65	241	1.02	0.01	1.03	0.12
Million Dollar Hole	2.51	22.90	6.66	163	1.42	0.01	1.43	0.17
Altman Bay	44.90	13.30	5.80	479	7.39	0.16	7.55	5.17
OUI-4			6.06	343				
OUI-6			4.23	631				
OUI-7			7.30	226				
OUI-9			6.77	172				
Purvis Lake Outfall								
Sec. 28 Spillway to Hogan Lake								

Sampling Point on 7-7-12	TP	TURB	pH	COND	TKN	NO3	TN	NH3
OUI-18	2.71	8.83	6.98	330	1.30	0.06	1.36	0.25
Inlet to Eagle Lake	2.94	29.20	6.98	323	3.39	0.12	3.51	1.79
SW 21	3.08	20.50	7.19	373	1.22	0.02	1.24	0.15
SW 13	1.19	12.00	7.22	324	6.54	0.02	6.56	4.45
Culvert (#4 corridor)	2.90	8.23	6.83	319	1.26	0.21	1.47	0.21
Million Dollar Hole	2.89	36.10	6.65	121	1.61	0.03	1.64	0.18
Altman Bay	48.90	8.92	5.72	511	8.43	0.17	8.60	6.33
OUI-4			5.31	443				
OUI-6			4.09	651				
OUI-7			7.65	234				
OUI-9			6.78	172				
Purvis Lake Outfall								
Sec. 28 Spillway to Hogan Lake								