

Algae screening samples from WV/PA  
 Clemson University  
 Project Number 09-0408  
 Contact Person: Mindy Armstead

Sampling Date	Samples Received	Sample Name	<i>Prymnesium parvum</i> present	Estimated Cells/mL*
11/12/09	11/13/2009	Dunkard at Beal Rd.	NO	
11/12/09	11/13/2009	Dunkard DS Dana Mine	NO	
11/12/09	11/13/2009	Dunkard US Dana Mine	Yes	480
11/12/09	11/13/2009	Dunkard at Mount Morris, PA	NO	
11/12/09	11/13/2009	Dunkard below Mason-Dixon	Yes	320
11/12/09	11/13/2009	Dunkard at Pentress, WV	Yes	160
11/12/09	11/13/2009	Dunkard behind CBHS	Yes	160
11/12/09	11/13/2009	Miracle Run at Bula, WV	NO	
11/12/09	11/13/2009	St Leo DS AMD Plant	NO	
11/12/09	11/13/2009	WV Fork at Wadestown, WV	NO	
11/12/09	11/13/2009	WV Fork US Outlook 005	NO	
11/12/09	11/13/2009	WV Fork at Outlook 005	NO	
11/12/09	11/13/2009	WV Fork DS Outlook 005	NO	
11/12/09	11/13/2009	PA Fork at Shamrock, PA	NO	
11/12/09	11/13/2009	Dunkard at Brave, PA dam	Yes	480

\*Estimates based on concentrated samples (25:1)

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Sampling Date	Samples Received	Sample Name	<i>Prymnesium parvum</i> present	Estimated Cells/mL*
11/10/09	11/12/2009	Dunkard at Beal Rd.	NO	
11/10/09	11/12/2009	Dunkard US Dana Mine	Yes	320
11/10/09	11/12/2009	Dunkard DS Dana Mine	Yes	160
11/10/09	11/12/2009	Dunkard at Mount Morris, PA	NO	
11/10/09	11/12/2009	Dunkard below Mason-Dixon	Yes	< 160
11/10/09	11/12/2009	Dunkard at Pentress, WV	Yes	160
11/10/09	11/12/2009	Dunkard behind CBHS	Yes	160
11/10/09	11/12/2009	Miracle Run at Bula, WV	NO	
11/10/09	11/12/2009	St Leo DS AMD Plant	NO	
11/10/09	11/12/2009	WV Fork at Wadestown, WV	NO	
11/10/09	11/12/2009	WV Fork US Outlook 005	NO	
11/10/09	11/12/2009	WV Fork at Outlook 005	NO	
11/10/09	11/12/2009	WV Fork DS Outlook 005	NO	
11/10/09	11/12/2009	PA Fork at Shamrock, PA	NO	
11/10/09	11/12/2009	Dunkard at Brave, PA dam	Yes	< 160

\*Estimates based on concentrated samples (25:1)





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Sampling Date	Samples Received	Sample Name	<i>Prymnesium parvum</i> present	Low Density Cell Counts (6)	Average Count	Average Cells/mL
10/27/09	10/30/2009	Dunkard at Beal Rd.	NO			
10/27/09	10/30/2009	Dunkard DS Dana Mine	NO			
10/27/09	10/30/2009	Dunkard US Dana Mine	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/27/09	10/30/2009	Dunkard at Mount Morris, PA	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/27/09	10/30/2009	Dunkard below Mason-Dixon	NO			
10/27/09	10/30/2009	Dunkard at Pentress, WV	NO			
10/27/09	10/30/2009	Dunkard behind CBHS	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/27/09	10/30/2009	Miracle Run at Bula, WV	NO			
10/27/09	10/30/2009	St Leo DS AMD Plant	NO			
10/27/09	10/30/2009	WV Fork at Wadestown, WV	NO			
10/27/09	10/30/2009	WV Fork US Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/27/09	10/30/2009	WV Fork at Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/27/09	10/30/2009	WV Fork DS Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/27/09	10/30/2009	PA Fork at Shamrock, PA	NO			
10/27/09	10/30/2009	Dunkard at Brave, PA dam	NO			
10/27/09	10/30/2009	Morris Run Shaft	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000

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10/23/09	10/26/2009	Dunkard at Beal Rd.	NO			
10/23/09	10/26/2009	Dunkard DS Dana Mine	NO			
10/23/09	10/26/2009	Dunkard US Dana Mine	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/23/09	10/26/2009	Dunkard at Mount Morris, PA	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/23/09	10/26/2009	Dunkard below Mason-Dixon	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/23/09	10/26/2009	Dunkard at Pentress, WV	NO			
10/23/09	10/26/2009	Dunkard behind CBHS	NO			
10/23/09	10/26/2009	Miracle Run at Bula, WV	NO			
10/23/09	10/26/2009	St Leo DS AMD Plant	NO			
10/23/09	10/26/2009	WV Fork at Wadestown, WV	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/23/09	10/26/2009	WV Fork US Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/23/09	10/26/2009	WV Fork at Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/23/09	10/26/2009	WV Fork DS Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/23/09	10/26/2009	PA Fork at Shamrock, PA	NO			
10/23/09	10/26/2009	Dunkard at Brave, PA dam	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000

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10/20/09	10/21/2009	Dunkard at Beal Rd.	NO			
10/20/09	10/21/2009	Dunkard DS Dana Mine	NO			
10/20/09	10/21/2009	Dunkard US Dana Mine	NO			
10/20/09	10/21/2009	Dunkard at Mount Morris, PA	NO			
10/20/09	10/21/2009	Dunkard below Mason-Dixon	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/20/09	10/21/2009	Dunkard at Pentress, WV	NO			
10/20/09	10/21/2009	Dunkard behind CBHS	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/20/09	10/21/2009	Miracle Run at Bula, WV	NO			
10/20/09	10/21/2009	St Leo DS AMD Plant	NO			
10/20/09	10/21/2009	WV Fork at Wadestown, WV	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/20/09	10/21/2009	WV Fork US Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/20/09	10/21/2009	WV Fork at Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/20/09	10/21/2009	WV Fork DS Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/20/09	10/21/2009	PA Fork at Shamrock, PA	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/20/09	10/21/2009	Dunkard at Brave, PA dam	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000

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Sampling Date	Samples Received	Sample Name	<i>Prymnesium parvum</i> present	Low Density Cell Counts (6)	Average Count	Average Cells/mL
10/16/09	10/19/09	St Leo DS AMD Plant	NO			
10/16/09	10/19/09	WV Fork at Wadestown, WV	NO			
10/16/09	10/19/09	WV Fork US Outlook 005	NO			
10/16/09	10/19/09	WV Fork at Outlook 005	NO			
10/16/09	10/19/09	WV Fork DS Outlook 005	NO			
10/16/09	10/19/09	PA Fork at Shamrock, PA	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/16/09	10/19/09	Dunkard at Brave, PA dam	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/16/09	10/19/09	Miracle Run at Bula, WV	NO			
10/16/09	10/19/09	Dunkard behind CBHS	NO			
10/16/09	10/19/09	Dunkard at Pentress, WV	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000
10/16/09	10/19/09	Dunkard below Mason-Dixon	NO			
10/16/09	10/19/09	Dunkard at Mount Morris, PA	NO			
10/16/09	10/19/09	Dunkard DS Dana Mine	NO			
10/16/09	10/19/09	Dunkard US Dana Mine	NO			
10/16/09	10/19/09	Dunkard at Beal Rd.	NO			



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Sampling Date	Samples Received	Sample Name	<i>Prymnesium parvum</i> present	Low Density Cell Counts (6)	Average Count	Average Cells/mL	
10/13/09	10/15/09	Dunkard at Beal Rd.	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	Dunkard US Dana Mine	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	Dunkard DS Dana Mine	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	Dunkard at Mount Morris, PA	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	Dunkard below Mason-Dixon	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	Dunkard at Pentress, WV	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	Dunkard behind CBHS	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	Miracle Run at Bula, WV	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	St Leo DS AMD TP	NO				
10/13/09	10/15/09	WV Fork at Wadestown, WV	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	WV Fork US Outlook 005	NA	Amber bottle broke during shipment			
10/13/09	10/15/09	WV Fork at Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	WV Fork DS Outlook 005	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	PA Fork at Shamrock, PA	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	
10/13/09	10/15/09	Dunkard at Brave, PA dam	Yes	< 5 < 5 < 5 < 5 < 5 < 5	< 5	< 10,000	

Algae screening samples from WV/PA  
 Clemson University  
 Project Number 09-0408  
 Contact Person: Beth Burdette

Sampling Date	Samples Received	Sample Name	<i>Prymnesium parvum</i> present	Low Density Cell Counts (6)						Average Count	Average Cells/mL
10/6/09	10/10/09	WV Fork at Outlook 005	Yes	18	14	20	12	16	10	15	30000
10/6/09	10/10/09	St Leo DS AMD TP	NO								
10/6/09	10/10/09	WV Fork US Outlook 005	Yes	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10,000
10/6/09	10/10/09	WV Fork at Wadestown	Yes	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10,000
10/6/09	10/10/09	Miracle Run at Bula, WV	Yes	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10,000
10/6/09	10/10/09	Dunkard at Bobtown, PA	Yes	27	30	41	24	20	22	27.33	54667
10/6/09	10/10/09	Dunkard DS Miracle Run	Yes	35	26	28	21	32	23	27.50	55000
10/6/09	10/10/09	Dunkard behind CBHS	Yes	53	41	46	44	42	50	46.00	92000
10/6/09	10/10/09	Dunkard below Mason-Dixon Park	Yes	106	91	88	98	111	101	99.17	198333
10/6/09	10/10/09	Dunkard at Brave, PA dam	Yes	9	12	16	14	11	18	13.33	26667
10/6/09	10/10/09	Dunkard on Gas Company Rd	Yes	40	33	45	37	38	44	39.50	79000
10/6/09	10/10/09	Dunkard at Pentress, WV	Yes	73	77	83	91	85	88	82.83	165667
10/6/09	10/10/09	WV Fork DS Outlook 005	Yes	9	5	6	8	10	6	7.33	14667
10/6/09	10/10/09	Dunkard Mount Morris, PA	Yes	41	51	45	42	29	38	41.00	82000
10/6/09	10/10/09	PA Fork at Shamrock, PA	NO								

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9/29/09	10/2/09	St Leo DS AMD TP	NO			
9/29/09	10/2/09	WV Fork Wadestown	Yes	< 5 < 5 < 5 < 5 < 5 < 5		< 10,000
9/29/09	10/2/09	WV Fork US Outlook 005	Yes	16 10 15 11 13 17	13.67	27333
9/29/09	10/2/09	Blacksville #2 Outlet 005	Yes	14 15 17 12 15 19	15.33	30667
9/29/09	10/2/09	PA Fork Shamrock, PA	NO			
9/29/09	10/2/09	Dunkard Brave, PA	Yes	75 65 85 71 77 69	73.67	147333
9/29/09	10/2/09	Dunkard DS Miracle Run	Yes	33 20 28 31 25 22	26.50	53000
9/29/09	10/2/09	Dunkard behind CBHS	Yes	52 54 48 58 55 50	52.83	105667
9/29/09	10/2/09	Dunkard Pentress, WV	Yes	51 38 53 48 42 50	47.00	94000
9/29/09	10/2/09	Dunkard below Mason Dixon Park	Yes	58 55 55 51 57 50	54.33	108667
9/29/09	10/2/09	Dunkard Mount Morris, PA	Yes	< 5 < 5 < 5 < 5 < 5 < 5		< 10,000
9/29/09	10/2/09	Dunkard Gas Company Rd	Yes	77 71 68 67 73 82	73.00	146000
9/29/09	10/2/09	Dunkard Bobstown, PA	Yes	41 30 40 37 39 40	37.83	75667
9/29/09	10/2/09	Whitely Run	Yes	26 22 30 28 20 22	24.67	49333