

Effect of Rain Timing and Flow on Available Phosphate AP and Electrical Conductivity (salts) EC 2009/2020

Still Ck Exit					Mansfield Rd Still Ck					Charltons Ck				
Rain	Volume	Flow	AP	EC	Rain	Volume	Flow	AP	EC	Rain	Volume	Flow	AP	EC
Mean All	All	All	0.02	328	Mean All	All	All	0.03	514	Mean All	All	All	0.04	367
Mean <24 hours	All	All	0.029	316	Mean <24 hours	All	All	0.046	501	Mean <24 hours	All	All	0.053	345
Mean 1-7 days	All	All	0.037	297	Mean 1-7 days	All	All	0.048	465	Mean 1-7 days	All	All	0.036	369
Mean 1-3 days	All	All	0.025	328	Mean 1-3 days	All	All	0.038	463	Mean 1-3 days	All	All	0.034	385
Mean 4-7 days	All	All	0.019	327	Mean 4-7 days	All	All	0.033	503	Mean 4-7 days	All	All	0.042	383
Mean >7 days	All	All	0.020	349	Mean >7 days	All	All	0.016	587	Mean >7 days	All	All	0.031	376
% tests <24hrs	32%				% tests <24hrs	27%				% tests <24hrs	37%			
Mean <24 hours	light	All	0.016	342	Mean <24 hours	light	All	0.038	553	Mean <24 hours	light	All	0.012	360
Mean <24 hours	medium	All	0.044	304	Mean <24 hours	medium	All	0.054	415	Mean <24 hours	medium	All	0.058	363
Mean <24 hours	heavy	All	0.037	245	Mean <24 hours	heavy	All	0.087	323	Mean <24 hours	heavy	All	0.159	258
Mean 1-3 days	light	All	0.02	349	Mean 1-3 days	light	All	0.04	463	Mean 1-3 days	light	All	0.02	405
Mean 1-3 days	medium	All	0.02	327	Mean 1-3 days	medium	All	0.05	424	Mean 1-3 days	medium	All	0.03	368
Mean 1-3 days	heavy	All	0.06	187	Mean 1-3 days	heavy	All	0.05	320	Mean 1-3 days	heavy	All	0.13	273
Mean	All	low flow	0.016	367	Mean	All	low flow	0.020	646	Mean	All	low flow	0.022	401
Mean	All	medium flo	0.023	320	Mean	All	medium flo	0.032	463	Mean	All	medium flo	0.038	343
Mean	All	high flow	0.047	231	Mean	All	high flow	0.062	328	Mean	All	high flow	0.132	293

Still Ck Exit					Mansfield Rd Still Ck					Charltons Ck				
Rain	Volume	Flow	AP	EC	Rain	Volume	Flow	AP	EC	Rain	Volume	Flow	AP	EC
within 24 hours	xheavy	xhigh flow	0	330	within 24 hours	xheavy	xhigh flow	0.06	330	within 24 hours	xheavy	xhigh flow	0.02	200
within 24 hours	xheavy	xhigh flow	0.08	220	within 24 hours	xheavy	xhigh flow	0.1	300	within 24 hours	xheavy	xhigh flow	0.11	250
within 24 hours	xheavy	xhigh flow	0.03	220	within 24 hours	xheavy	medium flo	0.1	340	within 24 hours	xheavy	xhigh flow	0.05	320
within 24 hours	xheavy	xhigh flow	0	180	within 24 hours	medium	xhigh flow	0.06	320	within 24 hours	xheavy	xhigh flow	0.07	200
within 24 hours	xheavy	xhigh flow	0.09	190	within 24 hours	medium	xhigh flow	0.14	260	within 24 hours	xheavy	xhigh flow	0.36	220
within 24 hours	xheavy	edium flow	0.02	330	within 24 hours	medium	medium flo	0	500	within 24 hours	xheavy	xhigh flow	0.32	260
within 24 hours	medium	xhigh flow	0.01	310	within 24 hours	medium	medium flo	0.01	540	within 24 hours	xheavy	xhigh flow	0.3	240
within 24 hours	medium	xhigh flow	0.09	210	within 24 hours	medium	medium flo	0	600	within 24 hours	xheavy	medium flo	0.04	370
within 24 hours	medium	xhigh flow	0.07	220	within 24 hours	medium	medium flo	0.15	350	within 24 hours	medium	xhigh flow	0.01	290
within 24 hours	medium	xhigh flow	0.04	230	within 24 hours	medium	low flow	0.04	340	within 24 hours	medium	xhigh flow	0.07	650
within 24 hours	medium	edium flow	0.13	390	within 24 hours	medium	?	0.03	410	within 24 hours	medium	xhigh flow	0.15	280
within 24 hours	medium	edium flow	0.12	400	within 24 hours	light	xhigh flow	0.08	350	within 24 hours	medium	xhigh flow	0.09	320
within 24 hours	medium	edium flow	0	390	within 24 hours	light	xhigh flow	0.09	300	within 24 hours	medium	medium flo	0	280
within 24 hours	medium	edium flow	0	310	within 24 hours	light	xhigh flow	0.06	350	within 24 hours	medium	medium flo	0.1	710
within 24 hours	medium	edium flow	0.05	230	within 24 hours	light	xhigh flow	0.13	270	within 24 hours	medium	medium flo	0.07	450

within 24 hours	medium	medium flow	0	290		within 24 hours	light	medium flow	0.02	560		within 24 hours	medium	medium flow	0	360
within 24 hours	medium	medium flow	0.11	200		within 24 hours	light	medium flow	0.02	450		within 24 hours	medium	medium flow	0.01	350
within 24 hours	medium	medium flow	0	350		within 24 hours	light	medium flow	0.09	420		within 24 hours	medium	medium flow	0.06	310
within 24 hours	medium	medium flow	0	390		within 24 hours	light	medium flow	0.02	490		within 24 hours	medium	medium flow	0.04	320
within 24 hours	medium	medium flow	0.01	290		within 24 hours	light	medium flow	0	560		within 24 hours	medium	medium flow	0.1	240
within 24 hours	medium	low flow	0	410		within 24 hours	light	medium flow	0.01	550		within 24 hours	medium	medium flow	0	340
within 24 hours	medium	?	0.07	250		within 24 hours	light	low flow	0.02	340		within 24 hours	medium	medium flow	0.1	370
within 24 hours	light	xhigh flow	0.09	250		within 24 hours	light	low flow	0.04	780		within 24 hours	medium	medium flow	0.07	320
within 24 hours	light	medium flow	0	270		within 24 hours	light	low flow	0.04	740		within 24 hours	medium	medium flow	0.02	370
within 24 hours	light	medium flow	0	350		within 24 hours	light	low flow	0.01	740		within 24 hours	medium	medium flow	0.05	320
within 24 hours	light	medium flow	0	330		within 24 hours	light	low flow	0.02	620		within 24 hours	medium	medium flow	0.06	340
within 24 hours	light	medium flow	0.04	270		within 24 hours	light	low flow	0	780		within 24 hours	medium	medium flow	0.06	320
within 24 hours	light	medium flow	0	340		within 24 hours	light	low flow	0	530		within 24 hours	medium	medium flow	0.1	310
within 24 hours	light	medium flow	0.02	300		within 24 hours	light	low flow	0.07	520		within 24 hours	light	medium flow	0	340
within 24 hours	light	medium flow	0	360		within 24 hours	light	low flow	0	660		within 24 hours	light	medium flow	0.02	310
within 24 hours	light	medium flow	0	390		within 24 hours	light	?	0.06	590		within 24 hours	light	medium flow	0	370
within 24 hours	light	low flow	0	370		within 24 hours	light	?	0.03	840		within 24 hours	light	medium flow	0.01	370
within 24 hours	light	low flow	0.05	330		within 24 hours	light	?	0.03	590		within 24 hours	light	medium flow	0.01	310
within 24 hours	light	Low flow	0.03	390		within 24 hours	light	?	0.03	700		within 24 hours	light	medium flow	0.06	300
within 24 hours	light	low flow	0.01	380		?	?	medium flow	0.07	350		within 24 hours	light	medium flow	0.04	360
within 24 hours	light	low flow	0	380		4-7 days	xheavy	xhigh flow	0.08	410		within 24 hours	light	low flow	0	350
within 24 hours	light	low flow	0	370		4-7 days	xheavy	low flow	0	620		within 24 hours	light	low flow	0.03	350
within 24 hours	light	low flow	0	360		4-7 days	medium	xhigh flow	0.04	340		within 24 hours	light	low flow	0	350
within 24 hours	light	low flow	0	320		4-7 days	medium	medium flow	0	540		within 24 hours	light	low flow	0.02	320
within 24 hours	light	low flow	0	350		4-7 days	medium	medium flow	0.04	330		within 24 hours	light	low flow	0.01	490
within 24 hours	light	low flow	0	330		4-7 days	medium	medium flow	0.06	470		within 24 hours	light	low flow	0.01	440
within 24 hours	light	low flow	0.06	320		4-7 days	light	medium flow	0	480		within 24 hours	light	low flow	0.01	340
within 24 hours	light	?	0.02	360		4-7 days	light	medium flow	0	430		within 24 hours	light	low flow	0	350
within 24 hours	light	?	0	420		4-7 days	light	medium flow	0.06	510		within 24 hours	light	low flow	0	350
within 24 hours	light	?	0.05	330		4-7 days	light	low flow	0.01	590		within 24 hours	light	low flow	0	360
4-7 days	xheavy	xhigh flow	0.03	300		4-7 days	light	?	0.04	430		within 24 hours	light	low flow	0	370
4-7 days	xheavy	medium flow	0	210		4-7 days	light	?	0.01	720		within 24 hours	light	low flow	0.01	370
4-7 days	medium	medium flow	0	230		4-7 days	light	?	0.02	680		within 24 hours	light	low flow	0	360
4-7 days	medium	medium flow	0	240		4-7 days	?	xhigh flow	0.05	370		within 24 hours	light	low flow	0	380
4-7 days	Medium	medium flow	0.02	240		4-7 days	?	medium flow	0	340		within 24 hours	light	low flow	0.04	360
4-7 days	medium	low flow	0.01	370		4-7 days	?	medium flow	0.12	350		within 24 hours	light	?	0	390
4-7 days	light	medium flow	0.01	360		4-7 days	?	medium flow	0	380		4-7 days	xheavy	medium flow	0	260
4-7 days	light	medium flow	0.07	240		4-7 days	?	medium flow	0	470		4-7 days	medium	medium flow	0	290
4-7 days	light	medium flow	0.02	270		4-7 days	?	medium flow	0.04	390		4-7 days	medium	medium flow	0.05	350
4-7 days	light	medium flow	0	390		4-7 days	?	low flow	0.01	760		4-7 days	medium	medium flow	0.07	320
4-7 days	light	medium flow	0.1	300		4-7 days	?	low flow	0.11	620		4-7 days	light	medium flow	0.04	270
4-7 days	light	medium flow	0.02	360		4-7 days	?	low flow	0.01	870		4-7 days	light	medium flow	0.07	320

4-7 days	light	medium flow	0.02	370		4-7 days	?	?	0.05	460		4-7 days	light	medium flow	0.04	340
4-7 days	light	low flow	0.03	330		1-7 days	medium	?	0.06	380		4-7 days	light	low flow	0	290
4-7 days	light	low flow	0.07	410		1-7 days	light	medium flow	0.1	390		4-7 days	light	low flow	0.01	470
4-7 days	light	low flow	0.02	420		1-7 days	light	?	0.02	620		4-7 days	light	low flow	0.08	950
4-7 days	light	low flow	0	390		1-7 days	light	?	0.01	470		4-7 days	light	low flow	0	380
4-7 days	light	low flow	0.02	420		1-3 days	xheavy	xhigh flow	0.05	270		4-7 days	light	low flow	0	370
4-7 days	light	?	0	390		1-3 days	xheavy	xhigh flow	0	320		4-7 days	light	low flow	0.04	390
4-7 days	?	xhigh flow	0.04	250		1-3 days	xheavy	xhigh flow	0.03	330		4-7 days	light	low flow	0.02	430
4-7 days	?	medium flow	0	310		1-3 days	xheavy	xhigh flow	0.1	360		4-7 days	?	medium flow	0.05	350
4-7 days	?	medium flow	0.01	310		1-3 days	xheavy	low flow	0	450		4-7 days	?	medium flow	0.05	370
4-7 days	?	medium flow	0	330		1-3 days	xheavy	low flow	0.05	530		4-7 days	?	medium flow	0.08	360
4-7 days	?	medium flow	0.01	330		1-3 days	xheavy	?	0.15	260		4-7 days	?	low flow	0.08	390
4-7 days	?	medium flow	0	400		1-3 days	xheavy	?	0.15	280		4-7 days	?	low flow	0.05	360
4-7 days	?	medium flow	0	320		1-3 days	medium	xhigh flow	0.04	220		4-7 days	?	?	0.1	400
1-3 days	xheavy	xhigh flow	0.06	200		1-3 days	medium	xhigh flow	0	420		1-7 days	xheavy	medium flow	0.06	330
1-3 days	xheavy	xhigh flow	0.06	220		1-3 days	medium	xhigh flow	0.09	400		1-7 days	medium	medium flow	0.01	390
1-3 days	medium	xhigh flow	0	220		1-3 days	medium	medium flow	0.01	490		1-7 days	medium	low flow	0.06	330
1-3 days	medium	medium flow	0	350		1-3 days	medium	medium flow	0.14	380		1-7 days	medium	low flow	0.01	390
1-3 days	medium	medium flow	0.03	280		1-3 days	medium	medium flow	0.09	300		1-7 days	medium	low flow	0.01	390
1-3 days	medium	medium flow	0.05	420		1-3 days	medium	medium flow	0	800		1-7 days	medium	low flow	0.02	400
1-3 days	medium	medium flow	0.03	370		1-3 days	medium	medium flow	0.04	380		1-7 days	medium	?	0.07	310
1-3 days	medium	medium flow	0.01	320		1-3 days	light	xhigh flow	0.02	300		1-7 days	light	medium flow	0.05	370
1-3 days	medium	medium flow	0.03	330		1-3 days	light	xhigh flow	0.05	300		1-7 days	light	low flow	0.03	410
1-3 days	light	medium flow	0	380		1-3 days	light	xhigh flow	0.1	340		1-3 days	xheavy	xhigh flow	0.19	220
1-3 days	light	medium flow	0.04	320		1-3 days	light	medium flow	0.01	550		1-3 days	xheavy	xhigh flow	0.12	280
1-3 days	light	medium flow	0	280		1-3 days	light	medium flow	0	480		1-3 days	xheavy	xhigh flow	0.09	320
1-3 days	light	medium flow	0.02	270		1-3 days	light	medium flow	0	460		1-3 days	medium	xhigh flow	0.03	350
1-3 days	light	medium flow	0.05	310		1-3 days	light	medium flow	0	510		1-3 days	medium	medium flow	0.01	370
1-3 days	light	medium flow	0.02	410		1-3 days	light	medium flow	0	520		1-3 days	medium	medium flow	0.07	370
1-3 days	light	medium flow	0.04	260		1-3 days	light	low flow	0.06	410		1-3 days	medium	low flow	0	380
1-3 days	light	medium flow	0.04	360		1-3 days	light	low flow	0	870		1-3 days	light	medium flow	0	340
1-3 days	light	low flow	0.06	310		1-3 days	light	low flow	0	650		1-3 days	light	medium flow	0.06	310
1-3 days	light	low flow	0.07	350		1-3 days	light	low flow	0	570		1-3 days	light	medium flow	0	320
1-3 days	light	low flow	0	450		1-3 days	light	low flow	0.02	670		1-3 days	light	medium flow	0	310
1-3 days	light	low flow	0.02	450		1-3 days	light	low flow	0	810		1-3 days	light	medium flow	0.01	360
1-3 days	light	low flow	0	430		1-3 days	light	?	0.01	560		1-3 days	light	medium flow	0.05	310
1-3 days	light	low flow	0	410		1-3 days	light	?	0.02	640		1-3 days	light	low flow	0.05	380
1-3 days	light	low flow	0.02	370		>7 days	xheavy	xhigh flow	0	350		1-3 days	light	low flow	0.05	330
1-3 days	light	low flow	0.03	340		>7 days	light	medium flow	0.01	420		1-3 days	light	low flow	0.02	470
1-3 days	light	low flow	0	260		>7 days	light	medium flow	0	630		1-3 days	light	low flow	0.03	690
1-3 days	light	low flow	0.01	270		>7 days	light	medium flow	0	380		1-3 days	light	low flow	0.07	920
1-3 days	light	low flow	0	400		>7 days	light	low flow	0.01	590		1-3 days	light	low flow	0	410

1-3 days	light	low flow	0	350		>7 days	light	low flow	0.02	580		1-3 days	light	low flow	0	350
1-3 days	heavy	xhigh flow	0.06	140		>7 days	light	low flow	0.07	530		1-3 days	light	low flow	0	360
1 - 7 days	medium	?	0.04	250		>7 days	light	low flow	0	770		1-3 days	light	low flow	0	360
1 - 7 days	light	edium flow	0.06	240		>7 days	light	low flow	0	850		1-3 days	light	low flow	0	370
1 - 7 days	light	?	0.01	400		>7 days	light	low flow	0.01	710		1-3 days	light	low flow	0.03	340
>7 days	xheavy	edium flow	0.04	280		>7 days	light	low flow	0.04	710		1-3 days	light	low flow	0.02	390
>7 days	medium	edium flow	0.05	270		>7 days	light	low flow	0	530		1-3 days	light	low flow	0.01	370
>7 days	medium	edium flow	0.02	410		>7 days	?	no flow	0.01	570		1-3 days	light	low flow	0.03	440
>7 days	medium	low flow	0.02	330		>7 days	?	low flow	0.03	520		1-3 days	light	low flow	0.02	370
>7 days	light	edium flow	0	280		>7 days	?	low flow	0.04	740		>7 days	not record	low flow	0.05	340
>7 days	light	low flow	0	350		> 7 days	xheavy	?	0.04	430		>7 days	medium	medium fl	0.05	370
>7 days	light	low flow	0.05	380		> 7 days	light	low flow	0.01	680		>7 days	medium	low flow	0	340
>7 days	light	low flow	0.06	280		> 7 days	light	?	0.04	500		>7 days	medium	low flow	0.06	320
>7 days	light	low flow	0.01	280		> 7 days	light	?	0.04	480		>7 days	medium	low flow	0.01	340
>7 days	light	low flow	0.01	340		> 7 days	light	?	0.02	540		>7 days	light	low flow	0.08	310
>7 days	light	low flow	0.01	300		> 7 days	light	?	0.02	580		>7 days	light	low flow	0.04	340
>7 days	light	low flow	0	440		> 7 days	?	medium fl	0	510		>7 days	light	low flow	0.06	330
>7 days	light	low flow	0	480		> 7 days	?	medium fl	0.03	440		>7 days	light	low flow	0.03	830
>7 days	light	low flow	0.01	370		> 7 days	?	low flow	0	790		>7 days	light	low flow	0	490
>7 days	light	low flow	0	490		> 7 days	?	low flow	0	680		>7 days	light	low flow	0.03	380
>7 days	light	?	0.05	310		> 7 days	?	low flow	0.01	840		> 7 days	light	?	0.09	390
>7 days	light	?	0.03	370		> 7 days	?	low flow	0	650		> 7 days	?	medium fl	0.01	340
>7 days	light	?	0.02	350		> 7 days	?	low flow	0.03	580		> 7 days	?	medium fl	0.1	360
>7 days	light	?	0.05	460		> 7 days	?	low flow	0.01	680		> 7 days	?	medium fl	0	340
>7 days	?	edium flow	0	350		> 7 days	?	?	0	630		> 7 days	?	medium fl	0.01	300
>7 days	?	edium flow	0	340		> 7 days	?	?	0.01	650		> 7 days	?	medium fl	0.03	340
>7 days	?	edium flow	0.02	320		> 7 days	?	?	0.01	480		> 7 days	?	low flow	0	370
>7 days	?	edium flow	0	340		> 7 days	?	?	0.01	410		> 7 days	?	low flow	0	370
>7 days	?	edium flow	0.02	330		> 7 days	?	?	0.01	660		> 7 days	?	low flow	0.05	370
>7 days	?	edium flow	0.02	320		> 7 days	?	?	0.04	480		> 7 days	?	low flow	0	380
>7 days	?	edium flow	0.06	280		> 7 days	?	?	0.02	570		> 7 days	?	low flow	0.05	370
>7 days	?	edium flow	0.05	260								> 7 days	?	low flow	0.05	400
>7 days	?	edium flow	0.02	410		Note: x is added just for sorting						> 7 days	?	low flow	0	360
>7 days	?	low flow	0.04	340		?: not recorded						> 7 days	?	low flow	0.04	370
>7 days	?	low flow	0	350								> 7 days	?	low flow	0.02	310
>7 days	?	low flow	0	340								> 7 days	?	low flow	0.04	380
>7 days	?	low flow	0	310								> 7 days	?	low flow	0.02	350
>7 days	?	low flow	0 na									> 7 days	?	low flow	0	400
>7 days	?	low flow	0.04	380								> 7 days	?	low flow	0.03	390
>7 days	?	low flow	0.01	360								> 7 days	?	low flow	0.01	380
>7 days	?	low flow	0.01	450												
>7 days	?	?	0.03	310												