

Wadesville Mine Water Data - Daily Log Summary

(Mine Pool Level = Distance from Ground Level to Water Surface)

Date	Totalized		Specific Conductance (µmhos/cm)	Mine Pool Level (Feet)
	Flow (Million Gallons)	Daily Flow (MG)		
7/13/2008	995.83	0.00	-	-
7/14/2008	1002.38	6.55	-	441.00
7/15/2008	1011.46	9.08	1498	444.00
7/16/2008	1020.37	8.91	1470	447.00
7/17/2008	1029.34	8.97	1440	449.00
7/18/2008	1038.14	8.80	1420	448.00
7/19/2008	1046.94	8.80	-	451.00
7/20/2008	1055.73	8.79	-	454.00
7/21/2008	1064.72	8.99	1368	457.00
7/22/2008	1073.45	8.74	1352	459.00
7/23/2008	1082.31	8.85	1332	461.00
7/24/2008	1090.93	8.62	1312	463.00
7/25/2008	1099.60	8.67	1315	466.00
7/26/2008	1108.20	8.60	-	469.00
7/27/2008	1116.85	8.65	-	471.00
7/28/2008	1125.39	8.54	1290	474.00
7/29/2008	1133.98	8.59	1296	475.00
7/30/2008	1142.38	8.40	1286	476.00
7/31/2008	1150.98	8.60	1280	478.00
8/1/2008	1159.53	8.55	-	480.00
8/2/2008	1168.18	8.65	-	481.00
8/3/2008	1176.78	8.60	-	482.00
8/4/2008	1185.38	8.60	-	484.00
8/5/2008	1187.53	2.15	1138	-
8/6/2008 A	-	-	-	-
8/7/2008 A	-	-	-	-
8/8/2008 A	-	-	-	-
8/9/2008 A	-	-	-	-
8/10/2008 A	-	-	-	-
8/11/2008 A	1187.53	-	-	-
8/12/2008	1195.06	7.53	-	-
8/13/2008	1203.56	8.50	-	-
8/14/2008	1212.41	8.85	-	-
8/15/2008 A	-	-	-	-
8/16/2008 A	-	-	-	-
8/17/2008 A	-	-	-	-
8/18/2008 A	-	-	-	-
8/19/2008 A	-	-	-	-
8/20/2008 A	-	-	-	-
8/21/2008 B	0.00	0.00	-	-
8/22/2008	5.88	5.88	1468	-
8/23/2008	14.17	8.30	-	-

A = Release stopped

B = New Meter Installed - Totalizer reset to 0

Date	Totalized Flow (Million Gallons)	Daily Flow (MG)	Specific Conductance (µmhos/cm)	Mine Pool Level (Feet)
8/24/2008	22.47	8.30	-	-
8/25/2008	29.94	7.47	1426	-
8/26/2008	38.43	8.49	1414	-
8/27/2008	46.19	7.77	1414	-
8/28/2008	53.02	6.83	1414	-
8/29/2008	60.50	7.47	1414	-
8/30/2008	67.97	7.48	-	-
8/31/2008	75.45	7.47	-	-
9/1/2008	82.92	7.47	-	-
9/2/2008	90.20	7.28	1414	496.50
9/3/2008	97.46	7.26	1390	-
9/4/2008	104.58	7.11	1384	-
9/5/2008 A	107.48	2.90	1368	-
9/6/2008 A	-	-	-	-
9/7/2008 A	-	-	-	-
9/8/2008 A	-	-	-	-

A = Release stopped

B = New Meter Installed - Totalizer reset to 0

**Tabulation of Tamaqua Water Authority Data - Daily Log Summary
for Still Creek Reservoir
(Reservoir Surface Level = Elevation above Mean Sea Level)**

Date	Totalized Flow (Million Gallons)	Reservoir Release, Daily Flow (MG)	Weekly Dissolved Oxygen (mg/l)	Reservoir Surface Level (ft)
6/9/2008	4972.0	0.0	-	-
6/10/2008	4990.0	18.0	-	1182.00
6/11/2008	5009.4	19.4	-	1181.90
6/12/2008	5030.6	21.2	-	1181.70
6/13/2008	5047.7	17.1	-	1181.50
6/14/2008	5066.9	19.2	-	1181.35
6/15/2008	5087.6	20.7	-	1181.20
6/16/2008	5105.5	17.9	9.3	1181.00
6/17/2008	5128.1	22.6	-	1180.80
6/18/2008 A	-	-	-	1180.70
6/19/2008 A	-	-	-	-
6/20/2008 A	-	-	-	-
6/21/2008 A	-	-	-	-
6/22/2008 A	-	-	-	-
6/23/2008 A	-	-	-	-
6/24/2008	5128.1	-	-	-
6/25/2008	5134.3	6.2	-	1180.60
6/26/2008	5152.3	18.0	-	1180.45
6/27/2008	5170.6	18.3	9.8	1180.30
6/28/2008 A	-	-	-	1180.15
6/29/2008 A	-	-	-	-
6/30/2008 A	-	-	-	-
7/1/2008 A	-	-	-	-
7/2/2008	5170.6	-	-	-
7/3/2008	5182.3	11.7	-	1180.20
7/4/2008	5197.4	15.1	-	1180.00
7/5/2008	5210.6	13.2	-	1179.90
7/6/2008	5226.0	15.4	-	1179.70
7/7/2008	5240.3	14.3	-	1179.55
7/8/2008 A	-	-	9.7	1179.40
7/9/2008 A	-	-	-	-
7/10/2008 A	-	-	-	-
7/11/2008 A	-	-	-	-
7/12/2008 A	-	-	-	-
7/13/2008 A	-	-	-	-
7/14/2008 A	-	-	-	-
7/15/2008 A	-	-	-	-
7/16/2008 A	-	-	-	-
7/17/2008 A	-	-	-	-
7/18/2008 A	-	-	-	-
7/19/2008 A	-	-	-	-

A - release stopped

B - Intergrater repaired and reset

Date		Totalized Flow (Million Gallons)	Reservoir Release, Daily Flow (MG)	Weekly Dissolved Oxygen (mg/l)	Reservoir Surface Level (ft)
7/20/2008	A	-	-	-	-
7/21/2008	A	-	-	-	-
7/22/2008	A	-	-	-	-
7/23/2008	A	-	-	-	-
7/24/2008	A	-	-	-	-
7/25/2008	A	-	-	-	-
7/26/2008	A	-	-	-	-
7/27/2008	A	-	-	-	-
7/28/2008	A	-	-	-	-
7/29/2008	A	-	-	-	-
7/30/2008	A	-	-	-	-
7/31/2008		5244.2	-	-	-
8/1/2008		5256.7	12.5	-	1179.40
8/2/2008		5268.0	11.3	-	1179.25
8/3/2008		5280.2	12.2	-	1179.15
8/4/2008		5290.6	10.4	-	1179.00
8/5/2008		5299.6	9.0	-	1178.90
8/6/2008		5304.4	4.8	-	1178.70
8/7/2008		5316.40	12.0	-	1178.40
8/8/2008		5328.30	11.9	9.10	1178.50
8/9/2008		5340.30	12.0	-	1178.40
8/10/2008		5352.30	12.0	-	1178.25
8/11/2008		5364.30	12.0	-	1178.10
8/12/2008		5376.30	12.0	-	1178.00
8/13/2008		5388.40	12.1	-	1177.90
8/14/2008		5400.00	11.6	9.00	1177.75
8/15/2008	A	-	-	-	1177.70
8/16/2008	A	-	-	-	-
8/17/2008	A	-	-	-	-
8/18/2008	A	-	-	-	-
8/19/2008	A	-	-	-	-
8/20/2008	A	-	-	-	-
8/21/2008	A	-	-	-	-
8/22/2008	A	-	-	-	-
8/23/2008	A	-	-	-	-
8/24/2008	A	-	-	-	-
8/25/2008	A	-	-	-	-
8/26/2008	A	-	-	-	-
8/27/2008	A	-	-	-	-
8/28/2008	A	-	-	-	-
8/29/2008	A	-	-	-	-
8/30/2008	A	-	-	-	-
8/31/2008	A	-	-	-	-
9/1/2008	B	5349.00	**	-	-
9/2/2008		5361.00	12.0	-	1177.40

A - release stopped

B - Intergrater repaired and reset

Date	Totalized Flow (Million Gallons)	Reservoir Release, Daily Flow (MG)	Weekly Dissolved Oxygen (mg/l)	Reservoir Surface Level (ft)
9/3/2008	5373.30	12.3	-	1177.30
9/4/2008	5385.6	12.3	-	1177.15
9/5/2008	5398.0	12.4	-	1177.00
9/6/2008 A	-	-	-	1176.90
9/7/2008 A	-	-	-	-
9/8/2008 A	-	-	-	-

A - release stopped

B - Intergrater repaired and reset

**Provisional 2008 Data Subject To Change By USGS
 Tabulation of Schuylkill River Daily Average Flows at four USGS gages
 and Rainfall Accumulation at Landingville, PA**

Date	Avg. Flow (cu. ft./ sec.)				Rainfall (in.) Landingville	DO (mg/l) Vincent Dam	
	Landingville	Berne	Reading	Pottstown		Max	Min
4/11/2008	251	573	1250	1700	0.16	15.6	9.5
4/12/2008	280	667	1420	1930	0.12	13.6	8.3
4/13/2008	248	590	1320	1840	0.00	14.7	8.4
4/14/2008	234	546	1210	1660	0.00	16.4	9.1
4/15/2008	224	508	1130	1570	0.00	16.8	10.3
4/16/2008	212	479	1060	1470	0.00	16.9	10.2
4/17/2008	207	454	1010	1410	0.00	17.3	9.9
4/18/2008	201	438	988	1370	0.00	17.2	9.4
4/19/2008	198	423	951	1340	0.00	16.4	8.7
4/20/2008	207	406	966	1320	0.14	13.3	7.9
4/21/2008	205	436	1070	1520	0.00	12.7	7.0
4/22/2008	189	395	1050	1500	0.00	14.0	7.5
4/23/2008	183	380	937	1310	0.00	15.7	7.8
4/24/2008	180	380	924	1270	0.00	15.7	7.6
4/25/2008	177	338	891	1250	0.00	13.6	7.3
4/26/2008	181	321	830	1170	0.26	10.1	6.5
4/27/2008	242	475	939	1280	0.13	9.4	6.4
4/28/2008	302	551	1240	1820	0.98	8.4	6.8
4/29/2008	300	780	1940	2850	0.00	7.8	7.0
4/30/2008	257	587	1560	2200	0.00	9.4	7.3
5/1/2008	250	545	1310	1780	0.01	10.8	8.2
5/2/2008	247	534	1220	1680	0.00	10.6	8.8
5/3/2008	241	516	1100	1500	0.01	9.5	8.0
5/4/2008	267	609	1140	1460	0.42	9.6	8.1
5/5/2008	233	527	1140	1510	0.00	9.6	8.2
5/6/2008	218	477	1060	1460	0.00	9.2	7.9
5/7/2008	214	458	943	1330	0.00	9.1	7.6
5/8/2008	210	450	906	1230	0.14	8.2	6.9
5/9/2008	252	503	1150	1750	0.57	7.5	7.0
5/10/2008	256	628	1360	1910	0.01	8.7	7.4
5/11/2008	234	514	1190	1650	0.00	9.4	8.3
5/12/2008	224	490	1060	1500	0.09	9.0	8.2
5/13/2008	211	464	960	1370	0.00	9.2	8.0
5/14/2008	203	434	880	1250	0.00	9.2	7.6
5/15/2008	202	422	837	1190	0.03	9.1	7.3
5/16/2008	287	604	1090	1640	1.09	8.4	7.3
5/17/2008	298	819	1660	2260	0.15	10.4	4.0
5/18/2008	316	798	1600	2270	0.34	10.0	9.5
5/19/2008	304	871	1800	2510	0.00	10.6	10.0
5/20/2008	311	806	1770	2410	0.43	11.1	9.4
5/21/2008	316	897	1940	2650	0.02	10.0	9.6
5/22/2008	304	804	1730	2300	0.06	10.0	9.3
5/23/2008	287	747	1550	2070	0.00	10.3	9.3
5/24/2008	277	685	1340	1770	0.00	10.1	9.1

*** = temporarily unavailable

-- = instrument malfunction.

EXELON NUCLEAR

Date	Avg. Flow (cu. ft./ sec.)				Rainfall (in.) Landingville	DO (mg/l) Vincent Dam	
	Landingville	Berne	Reading	Pottstown		Max	Min
	5/25/2008	261	635	1240		1640	0.00
5/26/2008	251	593	1150	1540	0.01	10.2	8.4
5/27/2008	214	563	1140	1470	0.04	9.7	7.6
5/28/2008	207	545	1180	1580	0.00	10.0	7.4
5/29/2008	190	482	1030	1440	0.00	10.6	7.7
5/30/2008	183	454	907	1260	0.00	10.6	7.8
5/31/2008	190	446	885	1250	0.51	9.2	7.4
6/1/2008	193	491	973	1320	0.00	9.8	7.1
6/2/2008	167	420	863	1240	0.00	10.2	7.0
6/3/2008	157	382	821	1100	0.28	9.9	7.0
6/4/2008	190	460	948	1310	0.34	8.1	5.9
6/5/2008	204	504	1560	2510	0.03	7.9	4.7
6/6/2008	161	426	1320	1920	0.00	8.1	6.6
6/7/2008	153	375	915	1220	0.00	8.5	6.8
6/8/2008	150	355	817	1100	0.00	7.8	5.9
6/9/2008	142	332	757	979	0.00	7.7	5.2
6/10/2008	131	305	742	939	0.00	8.2	4.6
6/11/2008	128	307	672	1050	0.00	8.8	6.4
6/12/2008	122	297	634	887	0.00	8.4	4.8
6/13/2008	120	284	587	822	0.00	8.9	5.3
6/14/2008	119	276	556	773	0.00	9.2	5.6
6/15/2008	123	286	556	826	0.00	8.8	5.6
6/16/2008	123	283	543	761	0.21	9.3	5.8
6/17/2008	120	290	550	737	0.00	9.4	6.1
6/18/2008	112	269	530	740	0.00	9.3	6.5
6/19/2008	113	246	508	715	0.00	10.2	7.0
6/20/2008	111	229	478	670	0.00	10.6	7.3
6/21/2008	112	221	467	637	0.00	10.8	7.2
6/22/2008	115	223	464	625	0.00	10.8	6.8
6/23/2008	112	195	461	623	0.20	10.9	6.5
6/24/2008	114	199	485	689	0.04	10.1	6.5
6/25/2008	106	182	464	637	0.00	10.3	6.4
6/26/2008	105	185	435	595	0.01	9.8	6.2
6/27/2008	105	199	450	588	0.14	10.3	6.2
6/28/2008	110	199	450	639	0.04	9.6	5.8
6/29/2008	111	200	457	615	0.02	9.7	5.3
6/30/2008	107	183	438	607	0.04	9.6	5.6
7/1/2008	101	164	421	571	0.00	10.2	5.7
7/2/2008	100	156	391	531	0.00	10.6	5.6
7/3/2008	99	149	364	473	0.24	11.1	5.7
7/4/2008	110	186	403	490	0.18	9.5	5.2
7/5/2008	104	229	468	612	0.07	9.8	5.4
7/6/2008	106	205	459	689	0.00	9.1	5.8
7/7/2008	86	-	439	702	0.00	8.8	5.8
7/8/2008	81	189	459	788	0.00	9.1	6.2
7/9/2008	79	168	477	684	0.01	8.4	5.5
7/10/2008	80	166	433	721	0.00	9.6	5.9
7/11/2008	77	149	401	577	0.00	9.9	6.1
7/12/2008	76	142	376	508	0.00	10.2	5.7

*** = temporarily unavailable

-- = instrument malfunction.

EXELON NUCLEAR

Date	Avg. Flow (cu. ft./ sec.)				Rainfall (in.) Landingville	DO (mg/l) Vincent Dam	
	Landingville	Berne	Reading	Pottstown		Max	Min
7/13/2008	81	139	367	480	0.29	10.6	5.7
7/14/2008	128	274	540	960	0.39	7.5	5.6
7/15/2008	84	188	537	830	0.00	9.1	5.3
7/16/2008	80	158	411	623	0.00	10.5	5.9
7/17/2008	78	149	385	537	0.00	10.8	5.7
7/18/2008	79	144	372	504	0.00	10.8	5.2
7/19/2008	75	144	359	474	0.00	11.2	5.1
7/20/2008	74	137	352	458	0.03	11.3	4.8
7/21/2008	87	155	333	509	0.00	11.0	4.7
7/22/2008	75	142	338	444	0.00	10.8	4.5
7/23/2008	129	165	365	684	0.95	9.3	4.7
7/24/2008	121	298	494	1270	0.11	8.0	5.7
7/25/2008	86	195	468	804	0.00	9.6	5.7
7/26/2008	81	158	380	600	0.00	10.4	5.7
7/27/2008	99	188	507	896	0.68	8.9	5.4
7/28/2008	82	169	426	914	0.00	9.5	5.7
7/29/2008	79	147	366	596	0.00	11.3	5.8
7/30/2008	80	142	396	523	0.00	12.0	5.4
7/31/2008	79	140	393	637	0.00	11.5	4.8
8/1/2008	76	135	379	554	0.00	12.5	5.0
8/2/2008	94	147	376	564	0.29	11.9	4.6
8/3/2008	84	206	408	587	0.00	12.9	5.2
8/4/2008	75	157	385	594	0.00	13.0	5.3
8/5/2008	76	146	354	535	0.01	13.8	5.4
8/6/2008	81	161	344	519	0.33	14.3	5.0
8/7/2008	72	155	339	491	0.00	14.2	4.9
8/8/2008	73	144	325	484	0.09	***	***
8/9/2008	70	144	329	454	0.00	***	***
8/10/2008	103	149	329	555	0.93	***	***
8/11/2008	133	294	470	771	0.39	***	***
8/12/2008	90	254	-	854	0.00	13.5	8.6
8/13/2008	83	177	-	716	0.00	14.0	6.1
8/14/2008	129	205	473	581	0.70	14.4	4.5
8/15/2008	120	287	576	959	0.00	10.1	3.8
8/16/2008	85	184	476	824	0.00	11.3	4.8
8/17/2008	78	142	386	646	0.00	11.8	4.2
8/18/2008	75	134	348	544	0.00	8.8	7.9
8/19/2008	71	127	324	483	0.00	8.5	8.0
8/20/2008	71	116	308	444	0.00	9.3	8.4
8/21/2008	71	114	291	411	0.00	9.5	8.3
8/22/2008	71	113	291	398	0.00	15.2	8.5
8/23/2008	72	115	298	401	0.00	15.9	4.9
8/24/2008	71	116	292	407	0.00	14.4	5.0
8/25/2008	70	116	287	404	0.00	12.7	4.2
8/26/2008	69	114	288	399	0.00	13.9	4.6
8/27/2008	67	110	280	389	0.00	13.8	5.7
8/28/2008	67	106	275	385	0.00	12.3	5.3
8/29/2008	69	110	288	384	0.16	9.3	4.6
8/30/2008	73	130	301	524	0.01	10.9	3.7

*** = temporarily unavailable
 -- = instrument malfunction.

EXELON NUCLEAR

Date	Avg. Flow (cu. ft./ sec.)				Rainfall (in.) Landingville	DO (mg/l) Vincent Dam	
	Landingville	Berne	Reading	Pottstown		Max	Min
	8/31/2008	70	118	298		459	0.00
9/1/2008	69	109	277	427	0.00	12.7	4.9
9/2/2008	69	108	278	390	0.00	13.4	6.2
9/3/2008	68	108	314	386	0.00	13.1	5.2
9/4/2008	65	119	398	505	0.00	13.2	5.3
9/5/2008	65	116	366	598	0.00	--	--
9/6/2008	153	192	787	1650	1.83	--	--
9/7/2008	107	426	1030	2750	0.00	--	--
9/8/2008	70	162	501	1090	0.00	--	--

*** = temporarily unavailable
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SCHUYLKILL RIVER DO DATA 2008

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/8/2008	0:00:00	6.21	77.8	7.93	6.57	77.6	7.95	6.59	83.7	8.25	6.16	82.5	7.62	***	***	***
8/8/2008	1:00:00	5.96	77.3	7.86	6.31	77.1	7.84	6.26	83.2	8.17	6.13	82.2	7.62	***	***	***
8/8/2008	2:00:00	5.73	76.9	7.79	6.08	76.6	7.75	6.06	82.9	8.10	6.10	82.0	7.61	***	***	***
8/8/2008	3:00:00	5.59	76.5	7.74	5.81	76.2	7.68	5.80	82.5	8.04	5.92	81.8	7.60	***	***	***
8/8/2008	4:00:00	5.43	76.1	7.70	5.67	75.7	7.55	5.59	82.1	7.97	5.97	81.6	7.59	***	***	***
8/8/2008	5:00:00	5.34	75.7	7.67	5.57	75.3	7.49	5.33	81.8	7.87	5.85	81.4	7.58	***	***	***
8/8/2008	6:00:00	5.24	75.2	7.64	5.46	75.0	7.53	5.22	81.5	7.80	5.81	81.2	7.54	***	***	***
8/8/2008	7:00:00	5.21	74.8	7.61	5.49	74.7	7.54	5.24	81.5	7.80	5.80	81.0	7.56	***	***	***
8/8/2008	8:00:00	5.22	74.5	7.60	6.25	74.8	7.64	5.57	81.6	7.81	5.85	80.9	7.53	***	***	***
8/8/2008	9:00:00	5.42	74.2	7.62	7.43	75.2	7.87	6.28	82.1	7.88	5.78	80.8	7.59	***	***	***
8/8/2008	10:00:00	5.74	74.0	7.67	9.03	76.1	8.20	6.59	82.6	7.95	5.94	81.1	7.61	***	***	***
8/8/2008	11:00:00	6.82	74.7	7.84	10.32	77.0	8.49	6.85	83.3	8.01	6.07	81.4	7.59	***	***	***
8/8/2008	12:00:00	8.11	76.1	8.13	10.73	77.7	8.59	7.10	83.7	8.11	6.37	81.9	7.70	***	***	***
8/8/2008	13:00:00	9.25	77.5	8.38	11.75	78.7	8.75	7.65	84.5	8.23	6.29	82.1	7.69	***	***	***
8/8/2008	14:00:00	9.77	78.4	8.51	12.01	79.3	8.82	7.85	84.8	8.31	6.10	82.2	7.67	***	***	***
8/8/2008	15:00:00	10.23	79.2	8.60	11.94	79.4	8.85	7.75	84.9	8.33	6.48	82.7	7.72	***	***	***
8/8/2008	16:00:00	10.52	79.5	8.69	11.47	79.2	8.83	7.76	84.7	8.35	6.26	82.7	7.72	***	***	***
8/8/2008	17:00:00	10.64	79.8	8.74	10.93	78.8	8.80	7.70	84.7	8.36	6.25	82.5	7.67	***	***	***
8/8/2008	18:00:00	10.76	79.9	8.77	10.71	78.5	8.77	7.75	84.5	8.39	6.43	82.4	7.70	***	***	***
8/8/2008	19:00:00	10.75	79.7	8.79	10.19	78.0	8.73	7.54	84.1	8.36	6.05	82.1	7.62	***	***	***
8/8/2008	20:00:00	9.65	78.6	8.68	9.14	77.3	8.59	7.39	83.7	8.36	6.03	81.9	7.66	***	***	***
8/8/2008	21:00:00	8.41	77.6	8.47	8.26	76.6	8.39	7.13	83.2	8.32	6.13	81.7	7.66	***	***	***
8/8/2008	22:00:00	7.30	76.8	8.24	7.55	76.2	8.22	7.02	82.9	8.32	6.26	81.4	7.68	***	***	***
8/8/2008	23:00:00	6.74	76.2	8.08	7.13	75.7	8.07	7.00	82.5	8.34	6.42	81.2	7.70	***	***	***
8/9/2008	0:00:00	6.32	75.7	7.96	6.71	75.4	7.94	6.83	82.2	8.34	6.16	81.0	7.68	***	***	***
8/9/2008	1:00:00	6.17	75.3	7.88	6.41	75.0	7.84	6.79	81.8	8.35	6.07	80.9	7.66	***	***	***
8/9/2008	2:00:00	5.92	74.9	7.82	6.18	74.5	7.77	6.50	81.3	8.31	5.98	80.6	7.63	***	***	***
8/9/2008	3:00:00	5.81	74.5	7.76	5.91	74.1	7.60	6.10	80.9	8.20	6.03	80.4	7.67	***	***	***
8/9/2008	4:00:00	5.62	74.1	7.72	5.78	73.7	7.55	5.77	80.5	8.10	5.99	80.0	7.63	***	***	***
8/9/2008	5:00:00	5.48	73.7	7.69	5.67	73.3	7.55	5.73	80.4	8.06	5.90	79.5	7.62	***	***	***
8/9/2008	6:00:00	5.38	73.3	7.66	5.57	72.9	7.56	5.73	80.3	8.07	5.84	79.3	7.60	***	***	***
8/9/2008	7:00:00	5.34	72.9	7.64	5.61	72.5	7.56	5.64	80.2	8.00	5.80	79.0	7.60	***	***	***
8/9/2008	8:00:00	5.33	72.5	7.62	6.55	72.7	7.69	5.61	80.3	7.93	5.83	78.6	7.60	***	***	***
8/9/2008	9:00:00	5.57	72.3	7.64	7.82	73.2	7.93	5.65	80.4	7.89	5.91	78.6	7.59	***	***	***
8/9/2008	10:00:00	5.87	72.2	7.70	9.37	74.2	8.29	6.13	80.8	7.90	6.08	79.1	7.59	***	***	***

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norrstown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/9/2008	11:00:00	6.80	72.6	7.84	10.58	75.3	8.56	6.46	81.4	7.96	6.35	79.7	7.62	***	***	***
8/9/2008	12:00:00	8.14	74.1	8.13	11.29	76.1	8.69	6.98	82.5	8.07	6.46	80.3	7.67	***	***	***
8/9/2008	13:00:00	9.44	76.1	8.40	11.87	76.8	8.80	7.34	83.4	8.18	6.47	80.8	7.66	***	***	***
8/9/2008	14:00:00	10.68	78.0	8.61	11.90	76.9	8.82	7.46	83.8	8.23	6.63	81.2	7.74	***	***	***
8/9/2008	15:00:00	11.05	79.2	8.70	12.13	77.7	8.89	7.76	83.8	8.30	6.64	81.5	7.74	***	***	***
8/9/2008	16:00:00	11.50	80.2	8.79	12.34	78.8	8.96	7.63	83.8	8.32	6.87	82.1	7.78	***	***	***
8/9/2008	17:00:00	11.86	81.0	8.85	11.74	79.0	8.95	7.91	83.7	8.38	7.12	82.2	7.84	***	***	***
8/9/2008	18:00:00	11.78	81.3	8.87	10.96	78.7	8.90	7.91	83.4	8.40	6.85	82.0	7.80	***	***	***
8/9/2008	19:00:00	11.48	80.9	8.86	10.48	78.3	8.84	7.96	83.3	8.41	6.60	81.7	7.78	***	***	***
8/9/2008	20:00:00	10.27	79.8	8.77	9.54	77.7	8.73	7.84	82.7	8.42	6.47	81.5	7.77	***	***	***
8/9/2008	21:00:00	8.92	78.6	8.58	8.52	77.1	8.56	7.91	82.3	8.44	6.21	81.1	7.70	***	***	***
8/9/2008	22:00:00	7.69	77.5	8.37	7.79	76.7	8.39	7.63	81.7	8.42	6.22	80.9	7.70	***	***	***
8/9/2008	23:00:00	6.92	76.7	8.17	7.24	76.1	8.19	7.68	81.3	8.45	5.96	80.7	7.66	***	***	***
8/10/2008	0:00:00	6.49	76.0	8.04	6.78	75.7	8.05	7.50	81.0	8.44	5.86	80.4	7.62	***	***	***
8/10/2008	1:00:00	6.18	75.4	7.94	6.47	75.2	7.90	7.31	80.7	8.42	5.83	80.2	7.60	***	***	***
8/10/2008	2:00:00	5.99	75.0	7.88	6.20	74.7	7.81	7.08	80.3	8.39	6.06	79.9	7.64	***	***	***
8/10/2008	3:00:00	5.83	74.5	7.82	5.95	74.2	7.70	6.77	79.9	8.35	5.97	79.7	7.63	***	***	***
8/10/2008	4:00:00	5.71	74.2	7.78	5.82	73.7	7.65	6.53	79.7	8.30	6.00	79.4	7.62	***	***	***
8/10/2008	5:00:00	5.63	73.8	7.74	5.64	73.3	7.59	6.36	79.4	8.24	5.75	79.2	7.58	***	***	***
8/10/2008	6:00:00	5.46	73.3	7.71	5.56	72.9	7.58	6.16	79.0	8.17	5.46	78.9	7.53	***	***	***
8/10/2008	7:00:00	5.47	73.0	7.68	5.63	72.7	7.57	5.80	78.7	8.07	5.45	78.7	7.53	***	***	***
8/10/2008	8:00:00	5.47	72.7	7.67	6.31	72.8	7.68	6.45	79.1	8.04	5.58	78.4	7.54	***	***	***
8/10/2008	9:00:00	5.90	72.6	7.71	7.62	73.3	7.94	6.84	79.8	8.10	5.71	78.3	7.56	***	***	***
8/10/2008	10:00:00	6.61	72.8	7.83	8.50	73.6	8.14	7.06	80.4	8.16	5.80	78.3	7.52	***	***	***
8/10/2008	11:00:00	7.59	73.2	8.02	8.79	73.9	8.30	7.17	80.9	8.22	6.25	78.7	7.58	***	***	***
8/10/2008	12:00:00	8.13	73.4	8.17	8.26	73.7	8.17	7.08	80.4	8.22	6.30	78.7	7.62	***	***	***
8/10/2008	13:00:00	7.96	73.8	8.15	9.19	73.8	8.38	7.22	81.1	8.28	6.31	77.9	7.56	***	***	***
8/10/2008	14:00:00	8.18	73.7	8.18	9.02	73.7	8.35	7.33	81.3	8.33	6.09	78.2	7.59	***	***	***
8/10/2008	15:00:00	8.74	73.8	8.36	8.56	73.4	8.32	7.34	81.0	8.35	6.06	78.1	7.56	***	***	***
8/10/2008	16:00:00	7.61	73.0	8.12	7.77	72.8	8.15	7.36	81.1	8.38	6.26	77.9	7.58	***	***	***
8/10/2008	17:00:00	7.45	72.4	8.04	8.06	72.6	8.18	7.31	81.1	8.39	6.39	77.9	7.59	***	***	***
8/10/2008	18:00:00	7.74	72.1	8.09	7.86	72.1	8.12	7.15	80.7	8.38	5.94	77.7	7.51	***	***	***
8/10/2008	19:00:00	7.07	71.6	7.91	7.45	71.9	7.98	6.98	80.4	8.36	6.00	76.9	7.50	***	***	***
8/10/2008	20:00:00	6.90	71.3	7.84	7.23	71.7	7.93	6.84	80.0	8.32	5.94	76.8	7.50	***	***	***
8/10/2008	21:00:00	6.72	71.0	7.77	6.94	71.5	7.79	6.46	79.7	8.27	6.07	76.6	7.50	***	***	***
8/10/2008	22:00:00	6.47	70.6	7.69	6.67	71.2	7.69	6.12	79.3	8.21	5.71	76.4	7.51	***	***	***
8/10/2008	23:00:00	6.34	70.3	7.65	6.56	70.7	7.65	5.84	79.0	8.15	5.95	76.3	7.55	***	***	***

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/11/2008	0:00:00	6.15	70.0	7.61	6.46	70.3	7.62	6.46	78.5	8.34	6.17	76.2	7.59	***	***	***
8/11/2008	1:00:00	6.09	69.7	7.59	6.29	70.0	7.60	6.29	77.9	8.33	6.32	76.2	7.62	***	***	***
8/11/2008	2:00:00	6.03	69.3	7.57	6.24	69.7	7.56	5.76	77.3	8.24	6.27	76.2	7.64	***	***	***
8/11/2008	3:00:00	6.04	69.0	7.56	6.20	69.4	7.53	5.52	76.8	8.11	6.48	76.1	7.66	***	***	***
8/11/2008	4:00:00	6.04	68.7	7.55	6.18	69.1	7.51	5.55	76.6	8.04	6.38	76.0	7.64	***	***	***
8/11/2008	5:00:00	6.01	68.5	7.54	6.16	68.8	7.50	5.57	76.6	7.98	6.12	75.8	7.58	***	***	***
8/11/2008	6:00:00	5.96	68.4	7.54	6.13	68.6	7.50	5.64	76.8	7.92	5.86	75.3	7.50	***	***	***
8/11/2008	7:00:00	5.98	68.1	7.53	6.14	68.4	7.49	5.77	77.0	7.90	5.76	74.7	7.42	***	***	***
8/11/2008	8:00:00	6.00	67.9	7.53	6.29	68.4	7.51	5.97	77.0	7.88	5.87	74.4	7.40	***	***	***
8/11/2008	9:00:00	6.26	68.0	7.56	6.87	68.5	7.59	6.19	76.5	7.87	5.87	74.1	7.38	***	***	***
8/11/2008	10:00:00	6.81	68.3	7.64	7.32	68.7	7.69	6.13	75.9	7.85	5.85	73.9	7.46	***	***	***
8/11/2008	11:00:00	7.38	68.7	7.76	8.33	69.3	7.92	6.11	75.3	7.80	5.82	73.9	7.42	***	***	***
8/11/2008	12:00:00	8.07	69.5	7.88	9.54	70.7	8.25	6.09	75.0	7.78	5.98	74.0	7.49	***	***	***
8/11/2008	13:00:00	8.90	70.9	8.12	10.31	71.5	8.46	6.58	75.2	7.32	6.27	74.5	7.50	***	***	***
8/11/2008	14:00:00	9.55	72.1	8.34	10.60	72.3	8.64	6.55	74.4	7.67	5.98	74.1	7.46	***	***	***
8/11/2008	15:00:00	10.21	73.3	8.47	10.99	73.2	8.72	6.52	74.5	7.70	6.58	73.6	7.48	***	***	***
8/11/2008	16:00:00	10.49	74.2	8.58	10.88	73.3	8.75	6.42	74.5	7.69	6.33	74.3	7.46	***	***	***
8/11/2008	17:00:00	10.72	74.8	8.65	11.02	73.5	8.81	6.37	74.3	7.66	6.65	73.7	7.42	***	***	***
8/11/2008	18:00:00	10.45	74.6	8.64	10.57	73.0	8.74	6.24	73.9	7.64	6.61	73.7	7.38	***	***	***
8/11/2008	19:00:00	9.72	73.8	8.53	9.66	72.6	8.63	6.10	73.6	7.61	6.33	73.7	7.33	***	***	***
8/11/2008	20:00:00	8.87	73.1	8.38	8.95	72.3	8.49	6.09	73.5	7.60	6.06	73.7	7.31	***	***	***
8/11/2008	21:00:00	8.10	72.4	8.19	8.43	71.9	8.31	6.04	73.4	7.59	5.95	73.6	7.28	***	***	***
8/11/2008	22:00:00	7.55	71.8	8.04	7.74	71.7	8.14	5.89	73.4	7.57	5.97	73.4	7.28	***	***	***
8/11/2008	23:00:00	7.28	71.4	7.96	7.50	71.4	8.01	5.90	73.3	7.55	6.03	73.3	7.29	***	***	***
8/12/2008	0:00:00	7.04	71.0	7.91	7.16	71.1	7.92	5.95	73.1	7.53	6.19	73.1	7.31	***	***	***
8/12/2008	1:00:00	6.90	70.6	7.86	6.95	70.8	7.84	6.04	73.0	7.52	6.20	73.2	7.35	***	***	***
8/12/2008	2:00:00	6.71	70.2	7.82	6.78	70.5	7.79	5.96	72.9	7.52	6.09	73.1	7.33	***	***	***
8/12/2008	3:00:00	6.61	69.8	7.78	6.57	70.2	7.74	6.21	72.8	7.53	5.93	73.0	7.33	***	***	***
8/12/2008	4:00:00	6.53	69.4	7.75	6.48	69.8	7.70	6.89	72.9	7.59	5.89	72.9	7.33	***	***	***
8/12/2008	5:00:00	6.40	69.1	7.71	6.37	69.4	7.67	7.93	73.3	7.74	5.85	72.8	7.33	***	***	***
8/12/2008	6:00:00	6.29	68.6	7.67	6.32	69.1	7.63	8.64	73.7	7.90	5.84	72.8	7.34	***	***	***
8/12/2008	7:00:00	6.26	68.2	7.64	6.30	68.8	7.60	9.01	74.0	8.03	5.91	72.7	7.31	***	***	***
8/12/2008	8:00:00	6.21	67.9	7.62	6.60	68.8	7.65	9.43	74.2	8.14	5.87	72.7	7.34	***	***	***
8/12/2008	9:00:00	6.36	67.6	7.61	7.36	69.0	7.76	9.74	74.3	8.25	6.20	73.0	7.39	***	***	***
8/12/2008	10:00:00	6.64	67.5	7.65	8.11	69.5	7.96	9.92	74.4	8.33	6.49	73.5	7.41	***	***	***
8/12/2008	11:00:00	7.22	68.0	7.75	8.76	70.0	8.14	9.87	74.5	8.42	6.79	74.0	7.45	***	***	***
8/12/2008	12:00:00	8.14	69.2	7.94	9.43	70.5	8.31	9.62	74.5	8.41	7.30	75.0	7.58	***	***	***

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/12/2008	13:00:00	8.85	70.5	8.14	10.30	71.8	8.52	9.13	74.5	8.38	7.37	75.4	7.61	10.40	71.78	22.10
8/12/2008	14:00:00	9.38	71.7	8.29	10.67	72.7	8.63	9.01	74.5	8.35	7.53	76.0	7.66	11.90	73.04	22.80
8/12/2008	15:00:00	10.12	73.2	8.46	10.73	73.1	8.67	8.62	74.5	8.31	7.85	76.6	7.74	12.80	74.66	23.70
8/12/2008	16:00:00	10.41	74.1	8.56	10.69	73.3	8.68	8.23	75.0	8.24	8.03	77.0	7.88	13.40	75.38	24.10
8/12/2008	17:00:00	10.59	74.8	8.62	10.61	73.6	8.70	7.64	74.6	8.11	7.77	77.2	7.73	13.50	75.74	24.30
8/12/2008	18:00:00	10.23	74.6	8.58	10.25	73.4	8.64	7.47	74.3	8.05	7.50	77.0	7.67	13.40	75.92	24.40
8/12/2008	19:00:00	9.89	74.3	8.54	9.60	73.1	8.53	7.20	73.9	7.95	7.51	76.9	7.74	13.00	75.56	24.20
8/12/2008	20:00:00	8.85	73.4	8.33	8.80	72.7	8.35	6.77	73.4	7.84	7.30	76.7	7.71	12.00	75.02	23.90
8/12/2008	21:00:00	8.00	72.7	8.11	8.14	72.4	8.17	6.63	73.2	7.75	7.40	76.5	7.72	11.00	74.48	23.60
8/12/2008	22:00:00	7.43	72.1	7.96	7.70	72.1	8.02	6.61	73.2	7.70	7.26	76.3	7.70	9.60	73.76	23.20
8/12/2008	23:00:00	7.21	71.8	7.87	7.37	71.7	7.90	6.68	73.2	7.69	7.12	76.0	7.65	8.60	73.22	22.90
8/13/2008	0:00:00	7.00	71.6	7.81	7.05	71.4	7.80	6.86	73.2	7.68	7.01	75.5	7.63	7.90	72.50	22.50
8/13/2008	1:00:00	6.81	71.5	7.76	6.84	71.2	7.73	7.10	73.4	7.71	6.77	75.1	7.58	7.40	72.14	22.30
8/13/2008	2:00:00	6.67	71.3	7.72	6.63	71.0	7.68	7.65	73.6	7.75	6.51	74.7	7.52	7.00	71.78	22.10
8/13/2008	3:00:00	6.50	71.1	7.68	6.47	70.8	7.63	8.26	74.0	7.84	6.29	74.3	7.47	6.80	71.42	21.90
8/13/2008	4:00:00	6.39	70.8	7.66	6.40	70.6	7.60	8.83	74.3	7.97	6.21	74.0	7.45	6.60	71.24	21.80
8/13/2008	5:00:00	6.27	70.5	7.63	6.23	70.4	7.57	9.69	74.9	8.17	6.28	73.5	7.46	6.50	71.06	21.70
8/13/2008	6:00:00	6.19	70.1	7.60	6.20	70.1	7.55	9.97	75.4	8.28	6.26	73.1	7.45	6.30	70.70	21.50
8/13/2008	7:00:00	6.11	69.7	7.59	6.16	69.9	7.54	10.10	75.6	8.33	6.29	72.8	7.45	6.10	70.52	21.40
8/13/2008	8:00:00	6.13	69.4	7.58	6.60	69.9	7.60	10.13	75.8	8.36	6.32	72.6	7.44	6.10	70.52	21.40
8/13/2008	9:00:00	6.33	69.3	7.61	7.34	70.1	7.75	10.14	76.0	8.39	6.33	72.6	7.42	6.50	70.70	21.50
8/13/2008	10:00:00	6.86	69.4	7.68	8.64	70.9	8.07	9.86	76.3	8.40	6.39	72.7	7.41	7.50	71.42	21.90
8/13/2008	11:00:00	7.54	70.1	7.83	9.67	71.8	8.38	9.77	76.8	8.42	6.90	73.7	7.42	9.00	72.32	22.40
8/13/2008	12:00:00	8.45	71.1	8.06	10.70	72.9	8.62	9.73	76.9	8.41	7.39	74.5	7.42	10.40	73.40	23.00
8/13/2008	13:00:00	9.53	72.5	8.33	11.22	73.6	8.74	9.56	76.9	8.40	7.79	75.7	7.47	11.70	74.48	23.60
8/13/2008	14:00:00	10.34	74.3	8.55	11.50	74.3	8.82	9.01	77.0	8.36	8.25	77.2	7.59	12.90	75.74	24.30
8/13/2008	15:00:00	10.98	75.6	8.68	11.77	75.1	8.90	8.75	77.8	8.31	8.23	77.2	7.64	13.50	76.64	24.80
8/13/2008	16:00:00	11.06	76.5	8.76	11.54	75.3	8.91	8.54	77.9	8.26	8.26	77.5	7.67	14.00	77.18	25.10
8/13/2008	17:00:00	11.25	77.2	8.80	11.44	75.6	8.91	8.12	78.4	8.18	8.21	78.3	7.75	14.00	77.54	25.30
8/13/2008	18:00:00	11.06	77.3	8.81	11.28	75.7	8.91	7.95	77.6	8.14	8.32	78.6	7.78	14.00	77.72	25.40
8/13/2008	19:00:00	10.58	76.9	8.76	10.78	75.5	8.85	7.59	76.7	8.06	8.31	79.1	7.84	13.70	77.90	25.50
8/13/2008	20:00:00	9.77	76.1	8.64	9.79	75.2	8.69	7.35	75.9	7.92	7.98	78.8	7.79	12.90	77.54	25.30
8/13/2008	21:00:00	8.67	75.4	8.45	8.86	74.8	8.54	6.87	75.3	7.80	7.40	78.5	7.71	11.80	77.00	25.00
8/13/2008	22:00:00	7.79	74.8	8.23	8.15	74.5	8.36	6.91	75.4	7.76	7.04	78.0	7.62	10.30	76.28	24.60
8/13/2008	23:00:00	7.23	74.4	8.06	7.62	74.3	8.20	6.98	75.3	7.73	7.22	77.5	7.64	9.20	75.92	24.40
8/14/2008	0:00:00	6.89	74.1	7.95	7.14	74.0	8.03	7.24	75.7	7.72	7.25	77.3	7.67	8.10	75.56	24.20
8/14/2008	1:00:00	6.64	73.8	7.87	6.74	73.7	7.90	7.52	75.9	7.73	7.06	76.8	7.60	7.20	75.02	23.90

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/14/2008	2:00:00	6.36	73.5	7.80	6.44	73.5	7.79	8.02	76.4	7.78	7.06	76.5	7.58	6.50	74.48	23.60
8/14/2008	3:00:00	6.12	73.3	7.75	6.25	73.3	7.70	8.47	76.8	7.90	6.56	76.1	7.49	6.10	74.30	23.50
8/14/2008	4:00:00	6.12	73.1	7.70	6.01	73.1	7.64	9.08	77.4	8.05	6.38	75.9	7.46	5.50	74.12	23.40
8/14/2008	5:00:00	5.88	72.8	7.66	5.89	72.9	7.59	9.53	77.8	8.18	6.65	75.6	7.48	5.00	73.76	23.20
8/14/2008	6:00:00	5.77	72.6	7.63	5.72	72.7	7.54	9.78	78.2	8.27	6.77	75.3	7.50	4.70	73.58	23.10
8/14/2008	7:00:00	5.57	72.4	7.60	5.66	72.5	7.50	10.01	78.4	8.34	6.46	75.1	7.49	4.50	73.40	23.00
8/14/2008	8:00:00	5.64	72.2	7.58	6.22	72.5	7.60	10.19	78.4	8.40	6.27	74.9	7.50	4.50	73.22	22.90
8/14/2008	9:00:00	5.90	72.0	7.61	7.36	73.0	7.85	10.23	78.5	8.45	6.32	74.7	7.49	5.10	73.58	23.10
8/14/2008	10:00:00	6.41	72.1	7.68	8.95	73.9	8.26	10.40	78.9	8.51	6.61	75.0	7.48	6.20	74.30	23.50
8/14/2008	11:00:00	7.30	72.7	7.87	10.24	74.8	8.56	10.36	79.6	8.55	6.90	75.5	7.49	8.10	75.38	24.10
8/14/2008	12:00:00	8.64	74.2	8.18	11.34	75.9	8.77	10.14	80.1	8.55	7.32	76.5	7.57	9.80	76.64	24.80
8/14/2008	13:00:00	9.79	75.9	8.48	12.07	77.0	8.91	9.87	81.3	8.56	7.76	77.6	7.66	11.00	77.90	25.50
8/14/2008	14:00:00	10.72	77.7	8.68	12.87	78.0	9.01	9.74	81.9	8.53	7.74	77.9	7.65	12.60	79.16	26.20
8/14/2008	15:00:00	11.33	79.2	8.80	12.76	78.7	9.07	9.55	82.8	8.52	8.23	79.3	7.74	13.80	80.42	26.90
8/14/2008	16:00:00	11.48	79.8	8.86	12.56	79.0	9.09	9.34	82.7	8.51	8.36	80.1	7.84	14.20	80.96	27.20
8/14/2008	17:00:00	11.33	80.0	8.87	12.13	78.8	9.07	9.29	82.0	8.50	8.35	80.4	7.93	14.40	80.96	27.20
8/14/2008	18:00:00	10.92	79.4	8.84	11.73	78.5	9.04	8.81	81.6	8.46	7.92	80.2	7.91	13.90	80.78	27.10
8/14/2008	19:00:00	10.10	78.5	8.76	10.65	78.0	8.95	8.15	80.4	8.38	7.53	79.7	7.89	13.40	80.06	26.70
8/14/2008	20:00:00	8.92	77.6	8.61	9.32	77.3	8.77	8.15	79.8	8.33	8.04	79.3	7.94	12.50	79.52	26.40
8/14/2008	21:00:00	7.80	76.9	8.40	8.23	76.8	8.58	7.79	79.2	8.26	7.88	79.1	7.92	10.90	78.98	26.10
8/14/2008	22:00:00	7.10	76.3	8.22	7.50	76.3	8.40	7.48	78.9	8.19	7.81	78.8	7.87	9.20	78.08	25.60
8/14/2008	23:00:00	6.65	75.9	8.08	6.96	75.9	8.22	7.40	78.6	8.15	7.70	78.7	7.85	7.70	77.54	25.30
8/15/2008	0:00:00	6.34	75.5	7.97	6.54	75.5	8.06	7.21	78.3	8.09	7.37	78.4	7.78	6.60	76.82	24.90
8/15/2008	1:00:00	6.04	75.1	7.88	6.18	75.2	7.91	7.13	78.1	8.03	7.51	78.1	7.82	5.90	76.46	24.70
8/15/2008	2:00:00	5.87	74.8	7.82	5.83	74.8	7.79	7.13	78.1	7.98	7.26	77.8	7.78	5.40	75.92	24.40
8/15/2008	3:00:00	5.66	74.5	7.75	5.66	74.4	7.70	7.09	78.1	7.92	6.95	77.7	7.74	4.90	75.38	24.10
8/15/2008	4:00:00	5.48	74.2	7.71	5.46	74.2	7.63	8.15	79.0	8.02	7.36	77.5	7.83	4.60	75.02	23.90
8/15/2008	5:00:00	5.38	73.9	7.66	5.30	74.0	7.58	8.73	79.6	8.14	7.32	77.3	7.82	4.30	74.66	23.70
8/15/2008	6:00:00	5.29	73.5	7.63	5.21	73.8	7.51	9.18	80.1	8.26	7.12	77.2	7.78	4.00	74.48	23.60
8/15/2008	7:00:00	5.27	73.3	7.62	5.09	73.6	7.48	9.38	80.3	8.32	7.14	76.9	7.76	3.80	74.30	23.50
8/15/2008	8:00:00	5.43	73.3	7.64	5.31	73.5	7.53	9.49	80.4	8.37	7.10	76.7	7.75	3.90	74.12	23.40
8/15/2008	9:00:00	5.66	73.3	7.68	5.59	73.5	7.57	9.58	80.5	8.40	6.86	76.6	7.65	4.10	74.12	23.40
8/15/2008	10:00:00	5.86	73.1	7.71	6.11	73.7	7.66	9.63	80.7	8.43	7.28	76.7	7.69	4.80	74.30	23.50
8/15/2008	11:00:00	6.22	72.9	7.76	6.74	74.0	7.77	9.78	81.0	8.47	6.97	76.9	7.67	5.80	74.66	23.70
8/15/2008	12:00:00	6.71	73.3	7.85	7.50	74.4	7.95	9.72	81.7	8.53	7.39	77.4	7.68	6.50	75.38	24.10
8/15/2008	13:00:00	7.47	74.1	7.99	8.30	75.0	8.13	9.51	81.8	8.55	7.47	77.8	7.65	7.30	75.92	24.40
8/15/2008	14:00:00	8.30	75.4	8.21	9.03	75.8	8.30	9.37	81.6	8.53	7.73	78.5	7.72	8.10	76.82	24.90

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/15/2008	15:00:00	8.78	76.2	8.34	9.60	76.5	8.44	8.95	81.3	8.52	7.66	79.1	7.74	8.90	77.54	25.30
8/15/2008	16:00:00	8.86	76.6	8.39	9.58	76.6	8.51	8.67	81.3	8.48	7.45	79.0	7.72	9.60	77.90	25.50
8/15/2008	17:00:00	8.69	76.6	8.38	9.58	76.7	8.51	8.26	80.7	8.48	7.10	79.2	7.69	10.00	78.08	25.60
8/15/2008	18:00:00	8.51	76.5	8.35	9.17	76.6	8.47	7.61	79.7	8.39	7.60	79.4	7.79	10.10	77.90	25.50
8/15/2008	19:00:00	8.07	76.2	8.24	8.52	76.3	8.35	6.87	79.3	8.25	7.61	79.4	7.81	10.10	77.90	25.50
8/15/2008	20:00:00	7.51	75.8	8.09	7.89	76.0	8.19	6.43	79.0	8.05	7.60	79.3	7.83	9.40	77.54	25.30
8/15/2008	21:00:00	7.04	75.5	7.97	7.43	75.6	8.04	6.60	78.7	7.94	7.71	79.3	7.87	8.40	76.82	24.90
8/15/2008	22:00:00	6.64	75.2	7.87	7.01	75.4	7.92	6.59	78.7	7.92	7.54	79.2	7.87	7.70	76.28	24.60
8/15/2008	23:00:00	6.44	74.9	7.81	6.71	75.1	7.82	7.24	78.6	7.94	7.46	79.0	7.86	7.00	75.92	24.40
8/16/2008	0:00:00	6.24	74.6	7.76	6.43	74.8	7.74	8.17	78.7	8.02	7.32	78.8	7.83	6.60	75.56	24.20
8/16/2008	1:00:00	6.10	74.3	7.71	6.23	74.6	7.69	8.74	79.0	8.11	7.04	78.5	7.78	6.20	75.20	24.00
8/16/2008	2:00:00	5.87	74.0	7.68	6.03	74.3	7.64	9.23	79.3	8.19	6.77	78.3	7.72	5.90	74.84	23.80
8/16/2008	3:00:00	5.79	73.7	7.64	5.88	74.0	7.60	9.47	79.5	8.25	6.72	78.0	7.68	5.70	74.66	23.70
8/16/2008	4:00:00	5.62	73.3	7.61	5.81	73.7	7.56	9.64	79.6	8.29	6.53	77.7	7.64	5.50	74.30	23.50
8/16/2008	5:00:00	5.51	73.0	7.57	5.67	73.3	7.53	9.68	79.7	8.31	6.44	77.4	7.61	5.00	73.94	23.30
8/16/2008	6:00:00	5.41	72.6	7.54	5.62	73.0	7.51	9.65	79.6	8.32	6.17	77.1	7.52	4.90	73.58	23.10
8/16/2008	7:00:00	5.36	72.2	7.51	5.56	72.6	7.49	9.60	79.5	8.33	6.02	76.9	7.50	4.80	73.22	22.90
8/16/2008	8:00:00	5.31	71.9	7.49	5.85	72.6	7.51	9.08	79.2	8.30	5.94	76.7	7.43	4.90	73.04	22.80
8/16/2008	9:00:00	5.40	71.7	7.48	6.60	72.8	7.62	8.68	79.0	8.25	6.12	76.6	7.49	5.20	73.22	22.90
8/16/2008	10:00:00	5.63	71.6	7.51	7.67	73.5	7.84	8.21	78.7	8.21	6.39	76.9	7.46	5.90	73.76	23.20
8/16/2008	11:00:00	6.13	72.1	7.58	8.61	74.4	8.12	7.97	78.7	8.17	6.78	77.6	7.61	6.90	74.66	23.70
8/16/2008	12:00:00	7.14	73.3	7.76	9.65	75.4	8.37	7.76	78.7	8.14	7.42	78.5	7.78	8.20	75.74	24.30
8/16/2008	13:00:00	8.16	74.9	8.05	10.12	76.0	8.51	7.60	78.6	8.09	7.74	79.3	7.90	9.40	76.82	24.90
8/16/2008	14:00:00	8.99	76.3	8.32	10.37	76.4	8.60	7.39	78.9	8.03	7.86	79.9	7.98	10.20	77.54	25.30
8/16/2008	15:00:00	9.41	77.5	8.48	10.31	76.5	8.60	6.80	78.1	7.98	7.76	80.1	8.03	10.70	77.90	25.50
8/16/2008	16:00:00	9.77	78.2	8.60	10.45	76.7	8.66	7.09	78.1	7.88	8.00	80.6	8.07	11.00	78.26	25.70
8/16/2008	17:00:00	9.84	78.4	8.64	10.35	76.9	8.66	6.62	77.7	7.78	7.93	80.9	8.10	11.20	78.44	25.80
8/16/2008	18:00:00	9.79	78.3	8.65	10.02	76.9	8.65	6.30	77.6	7.69	7.89	80.8	8.10	11.30	78.62	25.90
8/16/2008	19:00:00	9.37	77.6	8.59	9.37	76.4	8.53	6.19	77.6	7.62	7.65	80.5	8.04	10.90	78.44	25.80
8/16/2008	20:00:00	8.35	76.7	8.37	8.60	75.9	8.34	6.15	77.3	7.55	7.39	80.4	8.04	10.70	78.08	25.60
8/16/2008	21:00:00	7.50	75.9	8.14	7.87	75.4	8.14	6.15	77.1	7.52	7.34	80.2	7.91	9.30	77.36	25.20
8/16/2008	22:00:00	6.98	75.4	7.96	7.41	75.1	7.99	6.22	77.0	7.52	7.23	80.0	7.88	8.20	76.64	24.80
8/16/2008	23:00:00	6.59	74.9	7.85	7.05	74.8	7.87	6.23	77.0	7.51	7.01	79.7	7.81	7.20	75.92	24.40
8/17/2008	0:00:00	6.30	74.5	7.78	6.73	74.4	7.77	6.29	76.8	7.52	6.83	79.4	7.85	6.30	75.56	24.20
8/17/2008	1:00:00	6.12	74.2	7.74	6.44	74.0	7.69	7.25	77.1	7.58	6.86	79.1	7.85	5.20	75.02	23.90
8/17/2008	2:00:00	5.99	73.9	7.70	6.22	73.6	7.63	8.53	77.9	7.78	6.58	78.8	7.79	5.10	74.48	23.60
8/17/2008	3:00:00	5.89	73.5	7.67	6.03	73.3	7.58	9.06	78.4	7.93	6.24	78.5	7.66	4.90	74.12	23.40

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norrstown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/17/2008	4:00:00	5.71	73.1	7.64	5.90	73.0	7.52	9.51	78.9	8.05	6.08	78.1	7.60	4.80	73.58	23.10
8/17/2008	5:00:00	5.61	72.7	7.61	5.86	72.6	7.49	9.58	79.2	8.13	5.96	77.8	7.56	4.40	73.22	22.90
8/17/2008	6:00:00	5.53	72.3	7.59	5.73	72.2	7.50	9.86	79.3	8.20	5.75	77.5	7.50	4.20	72.86	22.70
8/17/2008	7:00:00	5.52	71.9	7.58	5.77	71.9	7.49	9.97	79.3	8.25	5.55	77.3	7.48	4.30	72.68	22.60
8/17/2008	8:00:00	5.52	71.6	7.57	6.33	71.9	7.56	9.85	79.2	8.24	5.45	76.9	7.41	4.30	72.50	22.50
8/17/2008	9:00:00	5.69	71.4	7.58	7.21	72.3	7.75	9.78	79.0	8.24	5.65	76.8	7.38	4.70	72.68	22.60
8/17/2008	10:00:00	6.00	71.4	7.63	8.75	73.2	8.09	10.00	79.3	8.31	5.94	77.0	7.38	5.70	73.40	23.00
8/17/2008	11:00:00	6.78	72.0	7.77	9.82	74.2	8.41	9.85	79.4	8.34	6.43	77.5	7.43	6.60	74.48	23.60
8/17/2008	12:00:00	7.91	73.4	8.06	11.03	75.3	8.63	9.59	79.8	8.34	6.75	78.0	7.57	8.40	75.74	24.30
8/17/2008	13:00:00	9.17	75.2	8.40	11.58	76.4	8.79	9.20	80.1	8.29	6.92	78.5	7.58	9.50	77.00	25.00
8/17/2008	14:00:00	10.08	76.8	8.63	12.10	77.1	8.80	9.06	80.5	8.27	7.30	79.1	7.77	10.20	78.08	25.60
8/17/2008	15:00:00	10.74	78.2	8.80	12.33	77.7	8.94	8.77	80.3	8.24	7.64	79.6	7.85	11.00	78.98	26.10
8/17/2008	16:00:00	11.15	79.3	8.90	12.35	77.9	8.97	8.37	78.8	8.17	7.78	80.1	7.92	11.80	79.52	26.40
8/17/2008	17:00:00	11.43	79.5	8.96	12.45	78.3	9.00	8.26	79.7	8.12	7.85	80.4	7.96	***	***	***
8/17/2008	18:00:00	11.02	79.2	8.96	11.83	78.0	8.96	7.81	79.0	7.98	8.13	80.6	7.96	***	***	***
8/17/2008	19:00:00	11.01	78.9	8.97	11.14	77.6	8.91	7.50	78.7	7.91	7.80	80.5	7.85	***	***	***
8/17/2008	20:00:00	10.17	78.1	8.89	10.07	77.0	8.79	7.23	78.2	7.83	7.76	80.5	7.87	***	***	***
8/17/2008	21:00:00	9.01	77.3	8.75	9.08	76.6	8.66	6.73	77.8	7.71	7.69	80.3	7.92	***	***	***
8/17/2008	22:00:00	8.25	76.6	8.62	8.51	76.2	8.54	6.61	77.5	7.65	7.58	80.1	7.90	***	***	***
8/17/2008	23:00:00	7.73	76.0	8.52	8.03	75.8	8.45	6.59	77.3	7.59	7.76	80.0	7.98	***	***	***
8/18/2008	0:00:00	7.37	75.6	8.44	7.65	75.4	8.37	6.53	77.0	7.55	7.70	79.8	7.96	***	***	***
8/18/2008	1:00:00	7.04	75.2	8.37	7.38	75.0	8.28	6.49	76.8	7.52	7.70	79.6	7.96	***	***	***
8/18/2008	2:00:00	6.84	74.8	8.30	6.95	74.6	8.19	6.55	76.6	7.51	7.48	79.4	7.92	***	***	***
8/18/2008	3:00:00	6.59	74.5	8.23	6.67	74.2	8.10	6.67	76.5	7.51	7.27	79.2	7.87	***	***	***
8/18/2008	4:00:00	6.37	74.1	8.17	6.42	73.9	8.02	8.59	77.6	7.73	7.12	78.9	7.82	***	***	***
8/18/2008	5:00:00	6.19	73.7	8.10	6.21	73.5	7.95	9.13	78.4	7.94	7.00	78.7	7.78	***	***	***
8/18/2008	6:00:00	6.01	73.3	8.02	6.09	73.2	7.88	9.44	78.7	8.06	6.40	78.5	7.61	***	***	***
8/18/2008	7:00:00	5.81	72.9	7.97	6.01	72.9	7.83	9.65	79.0	8.14	6.13	78.2	7.48	***	***	***
8/18/2008	8:00:00	5.83	72.7	7.94	6.73	72.9	7.94	9.89	79.2	8.20	5.93	77.9	7.43	***	***	***
8/18/2008	9:00:00	6.12	72.5	7.97	8.02	73.4	8.23	10.01	79.3	8.26	6.37	77.8	7.52	***	***	***
8/18/2008	10:00:00	6.66	72.5	8.07	9.79	74.4	8.57	10.12	79.9	8.32	5.92	77.9	7.39	***	***	***
8/18/2008	11:00:00	7.67	73.3	8.30	11.41	75.5	8.82	10.23	80.6	8.38	5.99	78.1	7.40	***	***	***
8/18/2008	12:00:00	9.13	74.8	8.62	12.82	76.7	8.98	10.05	81.1	8.39	6.31	78.4	7.42	***	***	***
8/18/2008	13:00:00	10.84	76.6	8.88	13.98	77.8	9.10	9.94	81.8	8.41	5.86	79.1	7.80	***	***	***
8/18/2008	14:00:00	12.28	78.4	9.06	14.80	78.8	9.19	9.17	81.9	8.37	6.26	79.3	7.74	***	***	***
8/18/2008	15:00:00	13.35	79.9	9.20	14.71	79.4	9.14	9.16	82.3	8.41	6.33	79.3	7.69	***	***	***
8/18/2008	16:00:00	14.05	80.9	9.17	14.78	79.8	9.21	9.02	82.7	8.42	5.54	79.6	7.67	***	***	***

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/18/2008	17:00:00	14.16	81.3	9.24	14.54	79.9	9.22	8.74	83.0	8.39	6.39	80.4	7.68	***	***	***
8/18/2008	18:00:00	14.11	81.3	9.25	14.19	79.6	9.20	8.25	82.3	8.35	6.47	80.5	7.69	***	***	***
8/18/2008	19:00:00	13.41	80.8	9.22	13.38	79.2	9.15	8.21	82.4	8.33	6.86	80.3	7.70	***	***	***
8/18/2008	20:00:00	11.99	79.8	9.13	11.96	78.6	9.06	7.72	81.5	8.26	6.17	80.1	7.67	***	***	***
8/18/2008	21:00:00	10.55	78.9	9.00	10.97	78.1	8.96	7.55	80.9	8.20	6.01	80.0	7.70	***	***	***
8/18/2008	22:00:00	9.35	78.2	8.88	10.02	77.7	8.87	7.36	80.5	8.15	6.34	80.0	7.83	***	***	***
8/18/2008	23:00:00	8.60	77.6	8.79	9.27	77.3	8.80	7.31	80.3	8.12	6.47	79.8	7.84	***	***	***
8/19/2008	0:00:00	8.03	77.1	8.72	8.75	77.0	8.73	8.34	81.6	8.21	6.23	79.7	7.78	***	***	***
8/19/2008	1:00:00	7.60	76.7	8.65	8.23	76.6	8.66	9.24	83.4	8.38	6.54	79.6	7.79	***	***	***
8/19/2008	2:00:00	7.22	76.3	8.58	7.78	76.1	8.58	9.57	84.3	8.46	6.52	79.4	7.81	***	***	***
8/19/2008	3:00:00	6.95	76.0	8.51	7.41	75.8	8.49	9.85	85.5	8.53	6.50	79.2	7.79	***	***	***
8/19/2008	4:00:00	6.68	75.6	8.43	7.09	75.4	8.41	9.90	85.9	8.57	6.43	79.1	7.79	***	***	***
8/19/2008	5:00:00	6.39	75.2	8.35	6.81	75.1	8.32	9.88	86.2	8.59	6.83	78.9	7.80	***	***	***
8/19/2008	6:00:00	6.15	74.8	8.27	6.54	74.7	8.22	9.81	86.5	8.61	6.51	78.8	7.80	***	***	***
8/19/2008	7:00:00	5.95	74.5	8.19	6.46	74.4	8.15	9.74	86.4	8.63	6.13	78.7	7.76	***	***	***
8/19/2008	8:00:00	5.94	74.2	8.14	6.75	74.3	8.15	9.73	86.4	8.65	6.01	78.6	7.78	***	***	***
8/19/2008	9:00:00	6.13	74.1	8.14	8.56	74.9	8.42	9.64	86.1	8.66	6.38	78.6	7.76	***	***	***
8/19/2008	10:00:00	6.61	74.1	8.20	10.45	75.9	8.67	9.67	85.9	8.67	8.02	78.9	7.80	***	***	***
8/19/2008	11:00:00	7.74	74.7	8.39	11.96	77.0	8.86	10.28	86.2	8.74	7.37	79.2	7.74	***	***	***
8/19/2008	12:00:00	9.39	76.0	8.65	13.20	77.9	8.99	11.41	87.0	8.83	6.34	79.8	7.83	***	***	***
8/19/2008	13:00:00	10.98	77.6	8.85	14.50	78.9	9.10	11.62	87.0	8.85	7.81	80.4	7.85	***	***	***
8/19/2008	14:00:00	12.39	78.8	8.98	14.70	79.4	9.15	12.43	87.0	8.90	7.32	80.7	7.89	***	***	***
8/19/2008	15:00:00	12.86	79.6	9.06	14.48	79.3	9.17	12.15	86.5	8.90	6.72	80.8	7.93	***	***	***
8/19/2008	16:00:00	13.17	79.9	9.11	14.12	79.0	9.16	12.35	85.6	8.94	6.55	80.7	7.79	***	***	***
8/19/2008	17:00:00	13.75	80.5	9.18	14.07	79.0	9.20	12.75	85.2	9.00	6.35	80.7	7.68	***	***	***
8/19/2008	18:00:00	13.94	80.6	9.22	13.42	78.5	9.18	11.62	83.9	8.94	6.19	80.8	7.59	***	***	***
8/19/2008	19:00:00	13.63	80.1	9.21	12.50	77.8	9.12	11.59	83.2	8.95	6.06	80.4	7.55	***	***	***
8/19/2008	20:00:00	12.13	79.0	9.12	11.34	77.1	9.05	9.38	82.3	8.74	5.93	80.1	7.57	***	***	***
8/19/2008	21:00:00	10.55	77.8	9.01	10.30	76.4	8.95	9.18	81.5	8.71	5.78	79.9	7.67	***	***	***
8/19/2008	22:00:00	9.41	77.0	8.90	9.48	75.6	8.86	8.88	81.2	8.68	5.79	79.5	7.68	***	***	***
8/19/2008	23:00:00	8.64	76.3	8.83	8.91	75.3	8.80	8.58	80.8	8.63	6.22	79.2	7.67	***	***	***
8/20/2008	0:00:00	8.11	75.7	8.76	8.51	75.0	8.76	8.43	80.5	8.62	5.66	79.0	7.69	***	***	***
8/20/2008	1:00:00	7.71	75.2	8.70	8.09	74.5	8.70	8.27	80.3	8.61	6.04	78.8	7.61	***	***	***
8/20/2008	2:00:00	7.32	74.7	8.64	7.72	74.2	8.64	9.77	81.0	8.77	6.39	78.6	7.58	***	***	***
8/20/2008	3:00:00	7.02	74.2	8.58	7.34	73.7	8.57	9.66	81.9	8.77	5.92	78.4	7.57	***	***	***
8/20/2008	4:00:00	6.77	73.7	8.51	7.12	73.2	8.50	9.49	82.5	8.76	6.15	78.1	7.57	***	***	***
8/20/2008	5:00:00	6.50	73.2	8.43	6.87	72.7	8.42	9.18	83.2	8.74	5.84	78.0	7.55	***	***	***

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/20/2008	6:00:00	6.27	72.5	8.34	6.63	72.3	8.33	9.12	83.4	8.74	5.82	77.8	7.57	***	***	***
8/20/2008	7:00:00	6.08	71.9	8.24	6.59	71.8	8.26	9.04	83.7	8.75	5.91	77.6	7.49	***	***	***
8/20/2008	8:00:00	6.06	71.4	8.17	7.39	71.7	8.34	8.99	83.9	8.74	5.29	77.3	7.49	***	***	***
8/20/2008	9:00:00	6.23	71.0	8.16	8.77	72.0	8.50	9.05	84.0	8.76	5.31	77.3	7.48	***	***	***
8/20/2008	10:00:00	6.68	70.8	8.20	10.51	72.7	8.69	9.40	84.5	8.81	5.80	77.5	7.43	***	***	***
8/20/2008	11:00:00	7.77	71.3	8.36	12.26	73.7	8.88	9.76	84.8	8.84	4.97	78.0	7.43	***	***	***
8/20/2008	12:00:00	9.28	72.6	8.60	13.61	74.8	9.00	11.19	85.5	8.95	5.91	78.5	7.49	***	***	***
8/20/2008	13:00:00	10.68	74.0	8.77	14.40	75.8	9.10	12.13	86.0	9.01	6.63	79.1	7.60	***	***	***
8/20/2008	14:00:00	11.71	75.4	8.87	15.00	76.7	9.16	12.96	86.2	9.06	6.31	80.1	7.71	***	***	***
8/20/2008	15:00:00	13.41	77.6	9.03	15.00	77.2	9.19	13.44	86.1	9.09	8.52	81.0	7.84	***	***	***
8/20/2008	16:00:00	14.44	78.9	9.13	14.62	77.4	9.19	14.74	86.4	9.17	7.53	81.4	7.88	***	***	***
8/20/2008	17:00:00	15.10	79.7	9.20	14.33	77.3	9.19	15.53	86.1	9.23	5.67	80.9	7.68	***	***	***
8/20/2008	18:00:00	15.27	79.8	9.24	13.84	77.0	9.18	14.71	85.3	9.19	7.73	81.2	7.58	***	***	***
8/20/2008	19:00:00	14.47	79.2	9.21	12.96	76.5	9.15	13.78	84.2	9.15	5.64	80.9	7.52	***	***	***
8/20/2008	20:00:00	12.94	78.0	9.12	11.77	75.9	9.06	13.91	84.1	9.19	6.69	80.7	7.61	***	***	***
8/20/2008	21:00:00	11.28	76.8	9.00	10.69	75.2	8.96	13.58	83.5	9.18	6.19	80.4	7.69	***	***	***
8/20/2008	22:00:00	9.96	75.8	8.88	9.78	74.6	8.85	13.06	83.0	9.15	5.83	80.0	7.66	***	***	***
8/20/2008	23:00:00	9.06	74.9	8.78	9.19	74.1	8.78	12.08	82.2	9.09	5.86	79.7	7.64	***	***	***
8/21/2008	0:00:00	8.41	74.1	8.70	8.70	73.6	8.72	11.64	81.4	9.06	5.98	79.4	7.60	***	***	***
8/21/2008	1:00:00	7.94	73.5	8.64	8.24	73.1	8.65	10.31	80.7	8.98	6.14	79.1	7.59	***	***	***
8/21/2008	2:00:00	7.64	73.0	8.60	7.80	72.6	8.59	10.10	80.2	8.96	6.18	78.8	7.64	***	***	***
8/21/2008	3:00:00	7.33	72.6	8.55	7.44	72.1	8.52	10.15	79.7	8.96	5.97	78.5	7.59	***	***	***
8/21/2008	4:00:00	7.08	72.2	8.48	7.10	71.6	8.45	9.40	79.3	8.91	6.19	78.2	7.63	***	***	***
8/21/2008	5:00:00	6.86	71.8	8.42	6.88	71.2	8.37	9.01	78.8	8.86	6.06	77.9	7.67	***	***	***
8/21/2008	6:00:00	6.58	71.4	8.34	6.62	70.8	8.31	8.75	78.3	8.83	6.57	77.7	7.69	***	***	***
8/21/2008	7:00:00	6.38	71.0	8.26	6.51	70.5	8.24	8.92	78.0	8.85	6.67	77.5	7.64	***	***	***
8/21/2008	8:00:00	6.30	70.6	8.20	7.25	70.6	8.32	8.89	77.6	8.84	6.73	77.4	7.79	***	***	***
8/21/2008	9:00:00	6.52	70.4	8.18	8.64	71.1	8.50	8.85	77.2	8.81	6.80	77.5	7.86	***	***	***
8/21/2008	10:00:00	6.98	70.4	8.23	10.45	72.1	8.69	9.02	76.9	8.81	7.26	77.8	7.93	***	***	***
8/21/2008	11:00:00	8.10	71.0	8.39	12.38	73.4	8.87	11.13	77.8	8.93	6.86	78.2	7.82	***	***	***
8/21/2008	12:00:00	9.63	72.6	8.61	13.77	74.6	9.01	12.47	79.4	9.00	6.91	78.4	7.79	***	***	***
8/21/2008	13:00:00	11.09	74.3	8.78	14.86	75.7	9.10	14.51	81.0	9.10	8.41	79.9	8.15	***	***	***
8/21/2008	14:00:00	12.37	75.9	8.91	15.37	76.8	9.18	15.27	81.9	9.16	10.49	81.1	8.64	***	***	***
8/21/2008	15:00:00	13.76	77.8	9.04	15.50	77.5	9.21	15.78	83.8	9.29	9.96	82.4	8.82	***	***	***
8/21/2008	16:00:00	14.80	79.1	9.13	15.10	77.8	9.22	15.04	84.3	9.42	11.27	82.2	9.00	***	***	***
8/21/2008	17:00:00	15.34	79.9	9.20	14.35	77.9	9.21	15.89	84.2	9.48	11.84	82.5	9.12	***	***	***
8/21/2008	18:00:00	15.39	80.0	9.23	13.98	77.8	9.21	15.74	83.1	9.50	13.11	82.7	9.20	***	***	***

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/21/2008	19:00:00	14.53	79.5	9.19	13.29	77.4	9.18	14.64	81.9	9.43	12.73	82.7	9.14	***	***	***
8/21/2008	20:00:00	13.07	78.6	9.11	11.83	76.8	9.09	14.44	80.7	9.34	11.24	81.9	9.08	***	***	***
8/21/2008	21:00:00	11.54	77.6	9.00	10.60	76.2	8.98	13.85	79.7	9.21	13.45	81.8	9.31	***	***	***
8/21/2008	22:00:00	10.04	76.6	8.87	9.65	75.6	8.87	13.20	79.2	9.16	12.78	81.3	9.27	***	***	***
8/21/2008	23:00:00	9.03	75.8	8.76	8.98	75.1	8.78	12.53	78.8	9.13	11.67	80.9	9.14	***	***	***
8/22/2008	0:00:00	8.39	75.0	8.66	8.42	74.7	8.70	11.84	78.3	9.08	10.95	80.5	9.18	***	***	***
8/22/2008	1:00:00	7.79	74.4	8.57	7.74	74.2	8.62	11.26	78.1	9.04	11.42	80.1	9.18	***	***	***
8/22/2008	2:00:00	7.44	74.0	8.50	7.27	73.7	8.52	10.62	77.8	9.01	11.98	79.7	9.13	***	***	***
8/22/2008	3:00:00	7.16	73.6	8.43	6.90	73.2	8.44	10.43	77.7	8.97	11.23	79.5	9.11	***	***	***
8/22/2008	4:00:00	6.82	73.2	8.36	6.61	72.8	8.34	9.95	77.5	8.93	11.40	79.2	9.17	***	***	***
8/22/2008	5:00:00	6.59	72.9	8.29	6.39	72.4	8.25	9.75	77.3	8.90	12.01	78.8	9.26	***	***	***
8/22/2008	6:00:00	6.34	72.6	8.20	6.14	72.0	8.16	9.69	77.2	8.87	11.60	78.5	9.23	***	***	***
8/22/2008	7:00:00	6.15	72.2	8.12	6.03	71.7	8.08	9.50	77.1	8.85	11.54	78.3	9.18	***	***	***
8/22/2008	8:00:00	6.08	71.9	8.06	6.86	71.9	8.17	9.34	76.9	8.84	11.26	78.1	9.22	***	***	***
8/22/2008	9:00:00	6.27	71.7	8.03	8.46	72.5	8.41	9.91	77.2	8.86	10.39	78.1	9.19	***	***	***
8/22/2008	10:00:00	6.73	71.7	8.09	10.12	73.5	8.63	10.95	78.3	8.92	10.71	78.5	9.21	***	***	***
8/22/2008	11:00:00	7.75	72.3	8.26	12.03	74.8	8.84	12.24	79.8	8.99	11.05	78.6	9.18	***	***	***
8/22/2008	12:00:00	8.87	73.5	8.44	13.33	76.1	8.98	13.56	81.7	9.09	11.80	79.1	9.16	11.60	75.92	24.40
8/22/2008	13:00:00	10.06	75.0	8.62	14.27	77.3	9.07	14.96	83.9	9.16	12.06	79.8	9.21	12.80	77.54	25.30
8/22/2008	14:00:00	11.36	76.3	8.78	14.74	78.2	9.14	15.39	84.4	9.24	13.06	81.9	9.35	13.40	79.16	26.20
8/22/2008	15:00:00	12.90	78.3	8.94	14.35	78.7	9.16	15.88	85.5	9.31	11.11	79.5	9.17	14.20	80.42	26.90
8/22/2008	16:00:00	14.07	79.6	9.04	13.86	78.8	9.15	15.02	84.3	9.35	12.38	79.8	9.21	14.60	81.14	27.30
8/22/2008	17:00:00	14.55	80.3	9.11	13.23	78.4	9.11	15.43	83.0	9.28	15.40	81.2	9.56	15.20	81.68	27.60
8/22/2008	18:00:00	14.77	80.7	9.16	12.99	78.3	9.11	15.48	83.2	9.35	15.97	81.5	9.82	15.10	81.50	27.50
8/22/2008	19:00:00	14.04	80.3	9.13	12.29	77.9	9.10	14.75	82.8	9.32	15.24	81.3	9.81	15.00	80.96	27.20
8/22/2008	20:00:00	12.60	79.4	9.05	11.03	77.4	9.00	14.42	81.7	9.22	14.99	80.8	9.82	14.50	80.06	26.70
8/22/2008	21:00:00	11.01	78.4	8.93	9.87	76.9	8.90	14.09	81.5	9.22	14.60	80.4	9.77	13.60	79.34	26.30
8/22/2008	22:00:00	9.68	77.4	8.79	8.88	76.5	8.77	14.19	81.2	9.18	14.46	80.2	9.73	12.70	78.80	26.00
8/22/2008	23:00:00	8.69	76.8	8.66	7.96	76.1	8.67	13.29	80.8	9.14	14.68	80.2	9.84	11.40	78.08	25.60
8/23/2008	0:00:00	8.01	76.2	8.55	7.62	75.7	8.58	12.62	80.4	9.10	14.20	79.9	9.79	10.50	77.36	25.20
8/23/2008	1:00:00	7.52	75.6	8.45	7.13	75.3	8.48	12.36	80.1	9.09	14.43	79.8	9.76	9.80	76.82	24.90
8/23/2008	2:00:00	7.09	75.1	8.37	6.71	74.8	8.38	12.09	80.0	9.09	14.34	79.6	9.78	8.00	76.28	24.60
8/23/2008	3:00:00	6.80	74.7	8.29	6.35	74.3	8.27	11.88	79.8	9.07	13.71	79.4	9.76	7.40	75.56	24.20
8/23/2008	4:00:00	6.52	74.4	8.21	5.89	73.8	8.16	11.49	79.6	9.05	13.63	79.2	9.71	6.50	75.02	23.90
8/23/2008	5:00:00	6.26	74.0	8.13	5.83	73.3	8.06	10.79	79.3	9.01	13.80	79.0	9.63	6.00	74.48	23.60
8/23/2008	6:00:00	6.09	73.7	8.04	5.51	73.0	7.94	10.38	79.1	8.97	13.75	78.7	9.57	5.40	73.94	23.30
8/23/2008	7:00:00	5.86	73.3	7.97	5.50	72.6	7.90	9.94	78.9	8.94	12.90	78.5	9.44	5.20	73.40	23.00

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/23/2008	8:00:00	5.85	73.0	7.92	6.31	72.7	8.01	9.87	78.7	8.92	13.61	78.2	9.43	4.90	73.04	22.80
8/23/2008	9:00:00	6.13	72.9	7.93	7.89	73.4	8.26	10.19	79.0	8.91	12.39	78.2	9.48	5.90	73.40	23.00
8/23/2008	10:00:00	6.75	72.9	8.02	9.44	74.2	8.49	11.73	80.2	8.95	12.28	78.5	9.48	7.00	73.94	23.30
8/23/2008	11:00:00	7.80	73.5	8.21	11.37	75.6	8.74	12.20	81.3	8.97	11.12	78.5	9.31	8.80	75.02	23.90
8/23/2008	12:00:00	8.77	74.4	8.38	12.67	76.8	8.88	13.52	83.2	9.03	12.71	78.8	9.33	10.50	76.46	24.70
8/23/2008	13:00:00	9.84	75.6	8.54	13.48	77.8	8.98	14.51	84.0	9.09	13.13	79.1	9.49	12.20	78.08	25.60
8/23/2008	14:00:00	10.97	76.9	8.69	13.89	78.7	9.05	14.33	83.5	9.08	13.24	79.8	9.72	12.80	79.70	26.50
8/23/2008	15:00:00	12.59	79.0	8.87	13.65	79.3	9.08	15.05	84.6	9.17	13.37	81.6	10.02	15.40	80.78	27.10
8/23/2008	16:00:00	13.68	80.7	9.00	13.44	79.4	9.07	15.82	85.5	9.26	13.37	81.6	10.04	15.90	81.68	27.60
8/23/2008	17:00:00	14.20	81.5	9.06	13.10	79.4	9.06	15.19	85.1	9.29	14.12	82.9	10.15	15.40	82.22	27.90
8/23/2008	18:00:00	14.43	81.5	9.08	12.63	79.3	9.06	15.61	85.2	9.32	14.29	82.7	10.18	15.80	82.40	28.00
8/23/2008	19:00:00	13.41	81.0	9.05	11.87	79.0	9.02	14.98	83.9	9.18	14.69	82.8	10.12	15.60	81.68	27.60
8/23/2008	20:00:00	12.13	80.1	8.96	10.65	78.5	8.91	15.46	84.0	9.19	15.02	82.8	10.22	14.50	81.14	27.30
8/23/2008	21:00:00	10.64	79.1	8.83	9.38	77.8	8.79	14.78	83.7	9.17	14.06	82.3	10.21	13.80	80.42	26.90
8/23/2008	22:00:00	9.27	78.2	8.66	8.50	77.3	8.66	14.21	83.3	9.16	13.95	81.9	10.08	12.50	79.70	26.50
8/23/2008	23:00:00	8.32	77.4	8.52	7.87	76.9	8.55	13.65	82.9	9.14	13.69	81.5	9.99	11.30	79.16	26.20
8/24/2008	0:00:00	7.70	76.8	8.39	7.34	76.5	8.45	13.40	82.6	9.12	14.03	81.1	10.00	9.90	78.44	25.80
8/24/2008	1:00:00	7.16	76.3	8.28	6.80	76.0	8.12	12.75	82.3	9.09	14.35	80.8	9.95	8.90	77.72	25.40
8/24/2008	2:00:00	6.81	76.0	8.19	6.42	75.6	8.02	12.15	81.9	9.06	13.89	80.5	9.93	8.10	77.18	25.10
8/24/2008	3:00:00	6.57	75.7	8.09	6.06	75.3	7.87	11.51	81.5	9.03	13.14	80.2	9.89	7.30	76.82	24.90
8/24/2008	4:00:00	6.29	75.5	8.03	5.74	75.0	7.80	10.86	81.2	8.99	12.42	79.9	9.87	6.60	76.28	24.60
8/24/2008	5:00:00	6.09	75.2	7.95	5.47	74.7	7.73	10.39	81.0	8.96	12.40	79.6	9.78	6.10	75.74	24.30
8/24/2008	6:00:00	5.85	75.0	7.89	5.23	74.5	7.75	10.03	80.7	8.93	12.25	79.4	9.71	5.60	75.38	24.10
8/24/2008	7:00:00	5.74	74.7	7.82	5.21	74.3	7.71	9.49	80.4	8.89	12.40	79.3	9.54	5.10	75.02	23.90
8/24/2008	8:00:00	5.80	74.5	7.78	5.58	74.3	7.74	9.35	80.2	8.87	12.50	79.1	9.52	5.00	75.02	23.90
8/24/2008	9:00:00	5.99	74.4	7.79	7.20	74.9	8.03	9.14	80.0	8.85	11.60	79.0	9.24	5.20	75.20	24.00
8/24/2008	10:00:00	6.52	74.4	7.86	8.96	76.0	8.36	9.04	79.8	8.84	9.56	79.1	9.25	6.00	75.74	24.30
8/24/2008	11:00:00	7.09	74.7	7.97	10.87	77.2	8.61	10.62	80.7	8.91	10.84	80.3	9.65	7.20	77.00	25.00
8/24/2008	12:00:00	8.65	76.4	8.28	12.04	78.5	8.77	10.93	81.2	8.89	11.45	81.3	9.88	8.40	78.44	25.80
8/24/2008	13:00:00	10.25	78.2	8.55	12.89	79.4	8.86	11.89	81.8	8.92	12.10	81.6	9.83	11.40	79.70	26.50
8/24/2008	14:00:00	11.45	79.6	8.72	12.91	80.0	8.90	12.55	82.2	8.95	12.33	81.5	9.82	12.00	81.14	27.30
8/24/2008	15:00:00	12.24	81.1	8.83	13.22	80.6	8.95	12.49	82.2	8.94	12.23	82.8	10.05	13.80	82.22	27.90
8/24/2008	16:00:00	13.09	82.5	8.93	12.90	80.9	8.97	13.65	82.9	9.01	13.05	83.2	10.09	14.40	82.94	28.30
8/24/2008	17:00:00	13.35	83.0	8.97	12.59	81.4	9.00	13.12	82.8	8.99	13.42	82.8	9.97	14.20	83.48	28.60
8/24/2008	18:00:00	13.23	83.0	8.99	11.93	81.2	8.98	13.13	83.0	8.99	14.01	83.0	9.96	14.00	83.48	28.60
8/24/2008	19:00:00	12.80	82.3	8.93	11.03	80.9	8.94	12.71	82.9	8.99	15.41	83.0	10.02	13.70	83.12	28.40
8/24/2008	20:00:00	11.46	81.5	8.84	10.11	80.3	8.83	12.38	82.7	8.96	15.46	82.6	10.03	13.40	82.58	28.10

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/24/2008	21:00:00	9.98	80.5	8.71	8.89	79.6	8.70	11.58	82.6	8.91	15.61	82.1	10.00	12.60	82.04	27.80
8/24/2008	22:00:00	8.77	79.6	8.54	7.97	79.0	8.56	11.12	82.5	8.90	15.31	81.6	9.93	11.30	81.50	27.50
8/24/2008	23:00:00	7.88	78.9	8.38	7.29	78.5	8.42	11.05	82.4	8.88	14.93	81.3	9.94	10.30	80.78	27.10
8/25/2008	0:00:00	7.33	78.3	8.24	6.86	78.1	8.29	10.20	82.2	8.85	14.58	81.0	9.86	9.40	80.06	26.70
8/25/2008	1:00:00	6.89	77.8	8.12	6.27	77.7	8.15	9.74	82.1	8.82	13.96	80.6	9.78	8.50	79.34	26.30
8/25/2008	2:00:00	6.62	77.4	8.04	5.96	77.3	8.03	9.15	81.9	8.78	13.29	80.3	9.82	7.80	78.80	26.00
8/25/2008	3:00:00	6.40	77.1	7.97	5.53	76.9	7.90	8.87	81.7	8.75	12.79	80.1	9.78	6.20	78.26	25.70
8/25/2008	4:00:00	6.20	76.8	7.89	5.28	76.5	7.79	8.60	81.5	8.72	12.69	79.9	9.70	5.50	77.72	25.40
8/25/2008	5:00:00	6.01	76.6	7.83	4.96	76.2	7.70	8.40	81.4	8.71	13.26	79.7	9.65	5.00	77.18	25.10
8/25/2008	6:00:00	5.83	76.3	7.78	4.86	75.9	7.63	8.17	81.2	8.69	11.88	79.5	9.55	4.50	76.82	24.90
8/25/2008	7:00:00	5.70	76.1	7.73	4.72	75.7	7.58	7.83	81.0	8.67	11.61	79.3	9.58	4.30	76.46	24.70
8/25/2008	8:00:00	5.67	75.9	7.70	5.12	75.8	7.60	8.37	81.7	8.62	10.80	79.2	9.49	4.20	76.46	24.70
8/25/2008	9:00:00	5.92	75.8	7.70	5.85	76.0	7.68	8.94	82.4	8.63	9.31	79.1	9.39	4.30	76.46	24.70
8/25/2008	10:00:00	6.57	75.9	7.80	7.12	76.3	7.85	9.27	82.8	8.65	9.35	78.9	8.96	5.00	76.82	24.90
8/25/2008	11:00:00	7.34	76.2	7.94	8.38	76.8	8.11	9.93	83.2	8.56	9.71	79.0	9.19	6.00	77.36	25.20
8/25/2008	12:00:00	8.35	76.7	8.14	8.56	77.1	8.39	10.71	83.8	8.68	10.92	79.0	9.48	7.00	77.72	25.40
8/25/2008	13:00:00	10.05	77.3	8.45	9.72	77.6	8.60	11.00	84.2	8.71	12.12	79.3	9.49	8.10	78.26	25.70
8/25/2008	14:00:00	10.95	78.0	8.58	11.1	78.3	8.77	11.97	85.2	8.78	12.78	79.8	9.56	9.10	78.98	26.10
8/25/2008	15:00:00	12.13	78.7	8.73	11.9	79.1	8.88	12.90	86.4	8.84	13.47	80.6	9.66	9.80	80.06	26.70
8/25/2008	16:00:00	13.15	79.7	8.85	12.2	79.7	8.95	13.52	86.2	8.89	14.38	81.0	9.67	10.90	80.60	27.00
8/25/2008	17:00:00	13.52	80.2	8.91	11.8	79.7	8.95	14.04	86.1	8.93	14.94	81.7	9.75	12.20	81.32	27.40
8/25/2008	18:00:00	13.31	80.2	8.93	11.3	79.4	8.93	13.88	85.7	8.94	13.61	81.7	9.74	12.50	81.50	27.50
8/25/2008	19:00:00	13.08	79.8	8.92				13.00	85.2	8.90	13.32	81.3	9.69	12.70	81.14	27.30
8/25/2008	20:00:00	11.91	78.9	8.84				11.00	84.5	8.78	12.80	81.1	9.66	12.10	80.60	27.00
8/25/2008	21:00:00	10.44	78.0	8.70				10.29	83.9	8.74	12.01	80.8	9.70	11.20	80.06	26.70
8/25/2008	22:00:00	9.07	77.3	8.53				9.90	83.4	8.72	11.26	80.4	9.63	10.50	79.34	26.30
8/25/2008	23:00:00	8.14	76.7	8.37				9.14	82.9	8.67	11.20	80.2	9.57	9.20	78.62	25.90
8/26/2008	0:00:00	7.48	76.1	8.23				8.64	82.5	8.64	11.19	79.9	9.58	7.70	77.72	25.40
8/26/2008	1:00:00	6.90	75.5	8.10				8.21	82.1	8.60	11.12	79.6	9.53	7.00	77.00	25.00
8/26/2008	2:00:00	6.63	74.9	8.01				7.89	81.8	8.57	11.03	79.4	9.47	6.30	76.46	24.70
8/26/2008	3:00:00	6.42	74.3	7.94				7.63	81.6	8.54	10.91	79.0	9.39	5.60	75.74	24.30
8/26/2008	4:00:00	6.12	73.9	7.88				7.28	81.3	8.51	10.58	78.7	9.41	5.20	75.20	24.00
8/26/2008	5:00:00	6.04	73.4	7.83				7.11	81.1	8.48	10.33	78.3	9.25	4.80	74.48	23.60
8/26/2008	6:00:00	5.84	73.0	7.79				6.99	80.9	8.46	9.12	78.0	9.23	4.60	73.76	23.20
8/26/2008	7:00:00	5.77	72.5	7.75				7.00	80.7	8.46	8.93	77.8	9.20	4.80	73.04	22.80
8/26/2008	8:00:00	5.76	72.1	7.72				6.73	80.6	8.42	8.81	77.6	9.11	5.00	72.68	22.60
8/26/2008	9:00:00	6.00	71.7	7.73				7.00	80.6	8.42	8.52	77.5	9.26	5.40	72.68	22.60

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/26/2008	10:00:00	6.57	71.4	7.79				6.93	80.6	8.40	7.64	77.7	9.18	6.30	73.04	22.80
8/26/2008	11:00:00	7.57	71.8	7.92				7.78	81.4	8.41	8.20	78.0	9.19	7.90	73.94	23.30
8/26/2008	12:00:00	9.06	73.2	8.17				7.96	82.1	8.41	8.35	78.2	9.24	9.20	75.20	24.00
8/26/2008	13:00:00	10.78	75.1	8.45				9.09	83.6	8.49	9.37	79.3	9.39	10.90	76.64	24.80
8/26/2008	14:00:00	12.14	76.9	8.65				9.63	84.3	8.53	9.50	80.0	9.49	12.10	77.90	25.50
8/26/2008	15:00:00	13.35	78.6	8.80				11.28	85.2	8.65	10.48	82.6	9.80	12.60	78.80	26.00
8/26/2008	16:00:00	14.05	79.6	8.89				12.00	85.5	8.70	10.61	81.9	9.85	13.20	79.88	26.60
8/26/2008	17:00:00	14.30	80.1	8.95				12.86	85.5	8.77	11.09	81.1	9.82	13.90	80.24	26.80
8/26/2008	18:00:00	14.18	80.0	8.97				13.05	85.1	8.79	11.16	82.0	9.93	13.60	80.24	26.80
8/26/2008	19:00:00	13.38	79.3	8.92				12.17	84.3	8.75	11.56	81.6	9.81	13.80	79.88	26.60
8/26/2008	20:00:00	12.38	78.4	8.85				9.12	83.0	8.52	12.09	81.4	10.02	12.90	79.16	26.20
8/26/2008	21:00:00	11.00	77.4	8.71				7.69	82.3	8.39	12.60	80.8	9.84	12.20	78.62	25.90
8/26/2008	22:00:00	9.61	76.4	8.54				7.44	82.0	8.36	12.54	80.3	9.83	11.20	77.72	25.40
8/26/2008	23:00:00	8.61	75.6	8.37				7.73	81.6	8.38	12.40	80.0	9.80	10.30	77.00	25.00
8/27/2008	0:00:00	7.93	74.8	8.22				7.06	81.2	8.32	12.23	79.6	9.75	9.50	76.28	24.60
8/27/2008	1:00:00	7.43	74.1	8.10				7.14	80.8	8.32	12.15	79.2	9.72	8.70	75.56	24.20
8/27/2008	2:00:00	7.07	73.5	8.01				7.15	80.3	8.31	12.02	78.8	9.73	8.20	74.84	23.80
8/27/2008	3:00:00	6.78	73.0	7.94				7.10	79.9	8.31	11.56	78.5	9.61	7.50	74.12	23.40
8/27/2008	4:00:00	6.57	72.6	7.89				7.29	79.5	8.32	11.13	78.1	9.57	6.90	73.22	22.90
8/27/2008	5:00:00	6.37	72.2	7.84				7.38	79.1	8.34	10.51	77.8	9.56	6.50	72.68	22.60
8/27/2008	6:00:00	6.27	71.8	7.80				7.75	78.6	8.39	9.60	77.6	9.51	6.00	71.96	22.20
8/27/2008	7:00:00	6.11	71.3	7.75				7.76	78.1	8.40	9.33	77.3	9.43	5.90	71.42	21.90
8/27/2008	8:00:00	6.04	71.0	7.73				7.94	77.7	8.41	11.58	77.0	9.39	5.70	71.06	21.70
8/27/2008	9:00:00	6.25	70.8	7.73				7.70	77.4	8.38	12.29	77.0	9.32	5.70	71.24	21.80
8/27/2008	10:00:00	6.87	70.7	7.79				7.94	77.1	8.41	12.52	77.1	9.27	6.10	71.78	22.10
8/27/2008	11:00:00	7.84	71.2	7.92				8.72	77.6	8.48	12.34	77.4	9.29	6.60	72.86	22.70
8/27/2008	12:00:00	9.33	72.4	8.18				9.36	77.9	8.54	10.61	77.4	9.27	8.90	74.12	23.40
8/27/2008	13:00:00	10.94	74.0	8.44				10.29	79.1	8.61	6.81	77.4	9.06	10.10	75.20	24.00
8/27/2008	14:00:00	12.29	75.6	8.64				10.53	79.6	8.63	6.26	77.3	9.01	10.90	76.46	24.70
8/27/2008	15:00:00	13.38	77.0	8.78				11.00	80.4	8.63	11.58	78.7	9.54	11.70	77.72	25.40
8/27/2008	16:00:00	14.00	78.0	8.87				11.51	80.1	8.68	11.62	79.1	9.69	13.30	78.44	25.80
8/27/2008	17:00:00	14.31	78.4	8.93				11.48	79.6	8.66	10.02	79.2	9.77	13.80	78.80	26.00
8/27/2008	18:00:00	14.31	78.3	8.95				11.67	78.8	8.67	9.53	79.3	9.77	13.80	78.80	26.00
8/27/2008	19:00:00	13.68	77.7	8.92				11.16	78.6	8.64	10.11	79.0	9.75	13.60	78.44	25.80
8/27/2008	20:00:00	12.51	76.7	8.84				10.73	77.8	8.61	10.93	78.5	9.67	13.10	77.90	25.50
8/27/2008	21:00:00	11.23	75.8	8.71				10.10	77.1	8.56	8.97	78.3	9.70	12.40	77.36	25.20
8/27/2008	22:00:00	9.87	74.9	8.55				9.69	76.8	8.53	9.40	78.2	9.69	11.30	76.64	24.80

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/27/2008	23:00:00	8.92	74.1	8.39				9.20	76.3	8.47	10.31	78.1	9.67	10.50	75.92	24.40
8/28/2008	0:00:00	8.15	73.4	8.24				8.66	76.0	8.40	10.77	77.9	9.67	9.30	75.20	24.00
8/28/2008	1:00:00	7.68	72.8	8.11				8.25	75.8	8.34	9.07	77.9	9.63	8.30	74.48	23.60
8/28/2008	2:00:00	7.31	72.3	8.01				7.87	75.6	8.28	9.78	77.7	9.60	7.80	73.76	23.20
8/28/2008	3:00:00	7.09	71.9	7.94				7.47	75.5	8.18	10.47	77.6	9.52	7.00	73.22	22.90
8/28/2008	4:00:00	6.84	71.6	7.88				7.09	75.4	8.12	10.84	77.4	9.48	6.30	72.50	22.50
8/28/2008	5:00:00	6.66	71.3	7.83				7.19	75.3	8.12	8.76	77.2	9.54	5.80	71.96	22.20
8/28/2008	6:00:00	6.49	71.1	7.79				7.18	75.2	8.12	9.50	77.0	9.46	5.60	71.60	22.00
8/28/2008	7:00:00	6.34	70.9	7.75				7.02	75.1	8.09	9.30	76.8	9.44	5.30	71.24	21.80
8/28/2008	8:00:00	6.27	70.7	7.72				7.29	75.0	8.15	10.31	76.6	9.28	5.50	71.06	21.70
8/28/2008	9:00:00	6.54	70.7	7.73				7.32	74.9	8.22	8.83	76.6	9.36	5.80	71.24	21.80
8/28/2008	10:00:00	7.30	71.0	7.82				7.20	74.8	8.21	9.36	76.8	9.40	6.40	71.60	22.00
8/28/2008	11:00:00	8.71	71.5	8.03				7.75	75.0	8.28	9.27	76.7	9.26	7.30	71.96	22.20
8/28/2008	12:00:00	9.74	71.9	8.23				7.54	75.0	8.27	10.27	76.8	9.51	8.50	72.68	22.60
8/28/2008	13:00:00	10.89	72.2	8.40				7.92	75.1	8.31	8.95	76.9	9.54	9.40	73.22	22.90
8/28/2008	14:00:00	11.44	72.6	8.53				7.95	75.1	8.30	10.42	76.9	9.55	10.40	73.58	23.10
8/28/2008	15:00:00	11.88	73.2	8.60				8.24	75.5	8.32	8.26	77.0	9.52	11.00	74.12	23.40
8/28/2008	16:00:00	12.58	73.7	8.70				8.09	75.1	8.29	8.32	77.1	9.48	11.60	74.66	23.70
8/28/2008	17:00:00	13.25	74.2	8.79				8.24	75.1	8.29	10.05	77.2	9.49	12.10	75.02	23.90
8/28/2008	18:00:00	13.10	74.3	8.81				8.57	75.3	8.31	8.37	77.2	9.60	12.30	75.20	24.00
8/28/2008	19:00:00	12.51	74.0	8.77				8.73	75.2	8.30	8.91	77.0	9.64	12.30	75.20	24.00
8/28/2008	20:00:00	11.72	73.7	8.69				8.82	75.1	8.29	9.29	76.8	9.66	12.00	75.02	23.90
8/28/2008	21:00:00	10.59	73.3	8.57				8.47	74.9	8.26	9.79	76.7	9.63	11.00	74.66	23.70
8/28/2008	22:00:00	9.42	73.0	8.40				8.52	74.8	8.26	10.49	76.6	9.65	10.00	74.30	23.50
8/28/2008	23:00:00	8.63	72.7	8.25				8.41	74.7	8.27	10.74	76.5	9.63	8.90	73.94	23.30
8/29/2008	0:00:00	8.03	72.4	8.12				8.26	74.6	8.25	10.77	76.5	9.60	8.00	73.58	23.10
8/29/2008	1:00:00	7.58	72.1	8.01				8.14	74.5	8.23	10.87	76.4	9.53	7.20	73.40	23.00
8/29/2008	2:00:00	7.26	71.9	7.93				7.92	74.4	8.20	11.24	76.5	9.51	6.60	73.22	22.90
8/29/2008	3:00:00	7.01	71.7	7.86				7.77	74.3	8.18	11.63	76.4	9.46	6.20	72.86	22.70
8/29/2008	4:00:00	6.84	71.5	7.81				7.47	74.2	8.14	11.51	76.4	9.43	5.60	72.68	22.60
8/29/2008	5:00:00	6.71	71.4	7.77				7.26	74.0	8.10	10.73	76.3	9.44	5.40	72.50	22.50
8/29/2008	6:00:00	6.56	71.2	7.73				7.04	73.9	8.08	10.40	76.2	9.42	4.90	72.32	22.40
8/29/2008	7:00:00	6.40	71.1	7.70				6.67	73.8	8.04	10.03	76.1	9.39	4.90	72.14	22.30
8/29/2008	8:00:00	6.29	71.0	7.68				6.37	73.8	7.99	9.84	76.1	9.37	5.00	71.96	22.20
8/29/2008	9:00:00	6.42	71.0	7.67				6.34	73.7	7.98	10.01	76.0	9.20	4.60	71.96	22.20
8/29/2008	10:00:00	6.88	71.1	7.73				6.56	73.8	8.02	9.32	75.9	9.12	4.80	72.14	22.30
8/29/2008	11:00:00	7.71	71.5	7.84				6.88	74.1	8.07	9.71	76.1	9.05	5.30	72.68	22.60

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/29/2008	12:00:00	8.90	71.9	8.03				6.90	74.2	8.08	8.56	76.0	9.13	6.20	73.22	22.90
8/29/2008	13:00:00	9.89	72.2	8.23				6.69	74.0	8.05	9.58	76.3	9.22	7.40	73.76	23.20
8/29/2008	14:00:00	10.49	72.4	8.36				6.58	73.9	8.03	9.11	76.4	9.12	8.30	73.94	23.30
8/29/2008	15:00:00	10.34	72.5	8.37				6.31	73.6	7.99	9.06	76.3	9.16	8.60	74.12	23.40
8/29/2008	16:00:00	10.54	72.6	8.40				6.46	73.6	7.98	8.16	76.3	9.04	9.10	74.30	23.50
8/29/2008	17:00:00	10.79	72.8	8.47				6.39	73.4	7.96	7.07	76.3	9.01	9.10	74.30	23.50
8/29/2008	18:00:00	10.40	72.8	8.44				6.75	73.6	8.00	9.90	76.4	9.14	8.30	74.12	23.40
8/29/2008	19:00:00	9.75	72.5	8.34				6.69	73.3	7.94	11.42	76.5	9.36	9.10	74.12	23.40
8/29/2008	20:00:00	9.12	72.3	8.23				6.62	73.2	7.92	10.46	76.4	9.29	8.50	73.94	23.30
8/29/2008	21:00:00	8.43	72.1	8.09				6.74	73.1	7.92	10.45	76.3	9.29	7.80	73.76	23.20
8/29/2008	22:00:00	7.84	71.9	7.96				6.83	73.1	7.93	9.91	76.2	9.19	6.90	73.40	23.00
8/29/2008	23:00:00	7.46	71.6	7.87				6.69	73.0	7.90	8.48	76.2	9.09	5.80	73.22	22.90
8/30/2008	0:00:00	7.23	71.5	7.79				6.80	73.0	7.89	8.76	76.1	9.02	5.40	73.04	22.80
8/30/2008	1:00:00	6.97	71.3	7.74				6.54	73.1	7.91	8.00	76.0	9.05	4.70	72.86	22.70
8/30/2008	2:00:00	6.76	71.2	7.69				7.08	73.1	7.96	7.59	76.0	8.94	4.60	72.68	22.60
8/30/2008	3:00:00	6.61	71.1	7.65				7.17	73.1	7.94	7.36	75.9	8.79	4.40	72.50	22.50
8/30/2008	4:00:00	6.49	71.0	7.63				7.15	73.1	7.93	6.78	75.8	8.68	4.20	72.50	22.50
8/30/2008	5:00:00	6.36	70.9	7.60				7.25	73.1	7.95	6.46	75.7	8.77	3.70	72.32	22.40
8/30/2008	6:00:00	6.30	70.9	7.58				7.23	73.1	7.96	6.09	75.6	8.58	3.90	72.14	22.30
8/30/2008	7:00:00	6.15	70.8	7.56				6.92	73.0	7.93	5.55	75.5	8.37	3.80	72.14	22.30
8/30/2008	8:00:00	6.20	70.7	7.56				6.67	72.9	7.88	5.03	75.4	8.31	3.90	72.14	22.30
8/30/2008	9:00:00	6.36	70.7	7.57				6.33	72.9	7.82	4.70	75.4	8.28	4.00	72.14	22.30
8/30/2008	10:00:00	6.76	70.9	7.62				6.18	72.8	7.79	4.44	75.4	8.20	4.60	72.32	22.40
8/30/2008	11:00:00	7.63	71.3	7.73				5.95	72.9	7.74	5.94	75.4	8.50	5.00	72.68	22.60
8/30/2008	12:00:00	8.49	72.0	7.86				5.94	73.0	7.72	4.67	75.6	8.39	6.00	73.40	23.00
8/30/2008	13:00:00	9.57	73.1	8.05				6.04	73.6	7.73	6.31	76.0	8.52	6.00	74.48	23.60
8/30/2008	14:00:00	10.75	74.8	8.30				6.07	73.6	7.73	9.68	77.6	8.81	7.90	75.56	24.20
8/30/2008	15:00:00	11.54	75.9	8.45				6.25	74.3	7.72	8.96	78.2	8.95	9.10	76.46	24.70
8/30/2008	16:00:00	11.88	76.5	8.54				6.73	75.1	7.74	9.53	78.1	8.98	10.00	77.18	25.10
8/30/2008	17:00:00	12.06	76.9	8.60				7.05	75.3	7.78	9.92	78.0	8.93	10.90	77.90	25.50
8/30/2008	18:00:00	11.77	76.8	8.59				7.09	76.6	7.78	10.03	78.1	8.96	10.90	78.26	25.70
8/30/2008	19:00:00	11.05	76.4	8.51				7.03	75.7	7.78	9.50	77.9	8.89	10.80	78.08	25.60
8/30/2008	20:00:00	10.00	76.0	8.36				6.87	75.3	7.77	9.43	77.7	8.78	10.10	77.90	25.50
8/30/2008	21:00:00	9.13	75.6	8.20				6.69	74.9	7.74	7.69	77.7	8.70	9.10	77.36	25.20
8/30/2008	22:00:00	8.37	75.1	8.06				6.61	74.5	7.72	9.30	77.5	8.95	8.70	76.82	24.90
8/30/2008	23:00:00	7.84	74.7	7.96				6.39	74.2	7.69	8.12	77.2	8.76	7.70	76.28	24.60
8/31/2008	0:00:00	7.54	74.4	7.88				6.32	73.9	7.66	8.95	77.1	8.70	6.50	75.74	24.30

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
8/31/2008	1:00:00	7.21	74.1	7.81				6.18	73.7	7.64	8.01	76.8	8.55	5.40	75.56	24.20
8/31/2008	2:00:00	6.98	73.7	7.76				5.39	73.5	7.63	7.97	76.5	8.69	5.40	75.02	23.90
8/31/2008	3:00:00	6.79	73.4	7.72				5.92	73.4	7.61	7.44	76.2	8.61	5.10	74.48	23.60
8/31/2008	4:00:00	6.65	73.0	7.68				5.81	73.3	7.63	6.97	75.9	8.57	5.20	73.94	23.30
8/31/2008	5:00:00	6.51	72.6	7.66				5.75	73.2	7.60	6.46	75.5	8.38	4.80	73.58	23.10
8/31/2008	6:00:00	6.43	72.2	7.64				5.63	73.1	7.58	6.22	75.2	8.32	5.00	73.22	22.90
8/31/2008	7:00:00	6.36	71.8	7.62				5.61	73.1	7.56	6.66	75.0	8.23	5.30	72.68	22.60
8/31/2008	8:00:00	6.33	71.4	7.61				5.55	73.0	7.55	5.52	74.8	8.13	5.40	72.32	22.40
8/31/2008	9:00:00	6.52	71.1	7.62				5.66	73.1	7.53	4.86	74.7	7.95	4.90	72.50	22.50
8/31/2008	10:00:00	6.88	71.0	7.66				6.05	73.3	7.54	5.54	75.2	8.06	5.70	73.04	22.80
8/31/2008	11:00:00	7.78	71.6	7.78				6.74	74.3	7.63	6.71	76.0	8.13	7.60	73.94	23.30
8/31/2008	12:00:00	9.18	73.2	8.03				6.93	74.6	7.65	7.22	76.5	8.19	8.50	75.20	24.00
8/31/2008	13:00:00	10.55	75.0	8.31				7.34	75.7	7.71	9.12	77.8	8.36	9.90	76.46	24.70
8/31/2008	14:00:00	11.90	76.9	8.55				7.41	76.0	7.75	9.11	78.2	8.55	10.80	77.72	25.40
8/31/2008	15:00:00	12.79	78.5	8.70				7.51	76.4	7.77	9.63	78.7	8.65	11.80	78.80	26.00
8/31/2008	16:00:00	13.30	79.7	8.80				7.56	77.1	7.82	9.34	78.3	8.62	12.90	79.52	26.40
8/31/2008	17:00:00	13.45	80.3	8.84				7.68	77.0	7.85	9.61	78.3	8.70	13.80	79.70	26.50
8/31/2008	18:00:00	13.22	80.1	8.84				7.68	77.0	7.85	10.26	78.6	8.75	13.60	79.88	26.60
8/31/2008	19:00:00	12.32	79.2	8.77				7.51	76.5	7.82	8.82	78.4	8.65	13.60	79.52	26.40
8/31/2008	20:00:00	11.12	78.2	8.65				7.46	76.3	7.83	9.30	78.0	8.67	13.00	78.80	26.00
8/31/2008	21:00:00	9.75	77.2	8.45				7.26	76.0	7.79	9.29	77.9	8.66	12.00	78.26	25.70
8/31/2008	22:00:00	8.67	76.2	8.24				7.19	76.0	7.79	8.26	77.6	8.59	11.00	77.54	25.30
8/31/2008	23:00:00	8.00	75.4	8.06				7.14	75.8	7.78	7.76	77.4	8.55	9.20	76.82	24.90
9/1/2008	0:00:00	7.52	74.7	7.93				7.02	75.7	7.77	7.13	77.2	8.38	7.70	76.10	24.50
9/1/2008	1:00:00	7.19	74.1	7.85				6.92	75.6	7.75	7.37	76.9	8.27	6.90	75.38	24.10
9/1/2008	2:00:00	7.03	73.7	7.79				6.80	75.5	7.74	6.37	76.6	8.14	6.40	74.66	23.70
9/1/2008	3:00:00	6.86	73.3	7.75				6.73	75.4	7.74	6.52	76.2	8.18	6.10	74.12	23.40
9/1/2008	4:00:00	6.72	73.0	7.71				6.61	75.3	7.72	7.25	75.8	8.16	5.70	73.40	23.00
9/1/2008	5:00:00	6.61	72.6	7.68				6.50	75.2	7.71	6.27	75.6	7.95	5.60	73.04	22.80
9/1/2008	6:00:00	6.49	72.2	7.65				6.43	75.0	7.69	7.05	75.3	8.05	5.80	72.32	22.40
9/1/2008	7:00:00	6.41	71.8	7.62				6.23	74.8	7.66	6.25	75.1	8.00	5.80	71.96	22.20
9/1/2008	8:00:00	6.40	71.4	7.59				6.10	74.5	7.64	6.64	75.0	8.02	4.90	71.60	22.00
9/1/2008	9:00:00	6.55	71.1	7.60				5.99	74.4	7.62	6.82	74.9	8.11	4.90	71.78	22.10
9/1/2008	10:00:00	6.90	71.0	7.63				5.95	74.1	7.60	5.12	75.0	7.79	5.10	72.32	22.40
9/1/2008	11:00:00	7.78	71.6	7.75				6.17	74.5	7.61	6.32	75.6	7.96	5.90	73.58	23.10
9/1/2008	12:00:00	9.23	73.0	8.00				6.67	75.0	7.66	8.40	76.2	8.24	7.70	75.02	23.90
9/1/2008	13:00:00	10.68	75.0	8.33				7.11	75.9	7.72	7.97	77.6	8.15	8.20	76.46	24.70

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
9/1/2008	14:00:00	11.95	76.9	8.51				7.35	76.6	7.78	8.04	79.3	8.27	9.50	77.72	25.40
9/1/2008	15:00:00	12.93	78.6	8.68				7.60	77.0	7.84	8.02	79.2	8.12	10.60	78.80	26.00
9/1/2008	16:00:00	13.49	79.6	8.80				7.62	76.9	7.86	8.03	79.8	8.28	11.00	79.70	26.50
9/1/2008	17:00:00	13.68	80.2	8.87				7.66	77.2	7.88	9.25	79.8	8.34	12.00	80.06	26.70
9/1/2008	18:00:00	13.43	80.2	8.88				7.97	77.6	7.96	9.13	80.2	8.50	12.70	80.24	26.80
9/1/2008	19:00:00	12.62	79.4	8.80				7.86	77.5	7.97	8.46	79.6	8.32	12.20	80.06	26.70
9/1/2008	20:00:00	11.33	78.5	8.70				7.81	77.1	7.97	8.41	79.3	8.29	11.50	79.34	26.30
9/1/2008	21:00:00	10.02	77.4	8.52				7.70	76.9	7.96	7.14	79.0	8.19	11.80	78.62	25.90
9/1/2008	22:00:00	8.89	76.5	8.31				7.69	76.9	7.98	6.77	78.7	8.03	10.70	78.08	25.60
9/1/2008	23:00:00	8.15	75.7	8.14				7.56	76.7	7.97	7.93	78.1	8.21	10.70	77.36	25.20
9/2/2008	0:00:00	7.67	74.9	8.01				7.16	76.6	7.98	7.24	77.8	8.03	9.20	76.64	24.80
9/2/2008	1:00:00	7.31	74.3	7.91				7.25	76.4	7.97	6.56	77.6	7.98	8.30	75.92	24.40
9/2/2008	2:00:00	7.12	73.9	7.85				7.29	76.3	7.97	6.36	77.3	7.94	7.30	75.38	24.10
9/2/2008	3:00:00	6.91	73.4	7.80				7.23	76.1	7.95	6.72	76.9	7.91	7.20	74.66	23.70
9/2/2008	4:00:00	6.80	73.1	7.76				7.12	76.0	7.91	6.72	76.5	7.83	6.70	73.94	23.30
9/2/2008	5:00:00	6.68	72.8	7.74				6.94	75.7	7.91	6.02	76.1	7.81	6.70	73.58	23.10
9/2/2008	6:00:00	6.58	72.4	7.71				6.72	75.6	7.86	5.56	75.8	7.72	6.20	72.86	22.70
9/2/2008	7:00:00	6.55	72.1	7.69				6.85	76.6	7.85	6.00	75.6	7.76	6.50	72.32	22.40
9/2/2008	8:00:00	6.51	71.8	7.67				6.99	77.1	7.87	5.37	75.4	7.70	6.40	72.14	22.30
9/2/2008	9:00:00	6.67	71.5	7.68				7.01	77.4	7.88	5.52	75.3	7.65	6.80	72.32	22.40
9/2/2008	10:00:00	7.07	71.4	7.72				7.18	77.9	7.90	4.99	75.4	7.62	7.00	72.86	22.70
9/2/2008	11:00:00	7.94	72.0	7.85				7.36	79.3	7.91	4.69	75.9	7.62	7.90	73.94	23.30
9/2/2008	12:00:00	9.33	73.4	8.10				7.59	80.1	7.98	6.54	76.9	7.92	9.30	75.38	24.10
9/2/2008	13:00:00	10.86	75.5	8.40				7.76	81.9	8.02	6.96	77.9	8.09	10.50	76.82	24.90
9/2/2008	14:00:00	12.20	77.7	8.62				8.05	82.4	8.10	8.58	78.6	8.14	11.20	78.08	25.60
9/2/2008	15:00:00	13.12	79.2	8.76	11.97	78.4	8.90	8.22	83.4	8.13	7.73	78.5	8.13	12.30	79.52	26.40
9/2/2008	16:00:00	13.67	80.3	8.84	11.72	78.8	8.93	8.20	83.2	8.13	8.07	79.3	8.29	12.50	80.60	27.00
9/2/2008	17:00:00	13.76	80.9	8.89	11.79	79.1	8.93	8.24	83.2	8.14	8.34	79.8	8.35	12.80	81.32	27.40
9/2/2008	18:00:00	13.54	81.0	8.81	11.58	79.0	8.95	8.25	83.2	8.17	8.48	80.3	8.37	13.40	81.50	27.50
9/2/2008	19:00:00	12.68	80.3	8.76	11.17	78.5	8.87	8.09	82.4	8.15	7.65	79.7	8.28	13.10	81.32	27.40
9/2/2008	20:00:00	11.61	79.5	8.69	10.36	78.0	8.76	7.92	81.7	8.15	6.78	79.7	8.32	12.50	80.60	27.00
9/2/2008	21:00:00	10.14	78.5	8.53	9.37	77.4	8.62	7.77	81.1	8.13	7.77	79.5	8.28	12.00	80.24	26.80
9/2/2008	22:00:00	8.81	77.6	8.33	8.48	76.8	8.47	7.63	80.7	8.10	7.41	79.1	8.32	11.30	79.34	26.30
9/2/2008	23:00:00	8.08	76.8	8.15	7.87	76.3	8.32	7.56	80.2	8.09	7.90	78.8	8.39	9.90	78.80	26.00
9/3/2008	0:00:00	7.48	76.1	8.01	7.34	75.8	8.19	7.38	79.8	8.06	7.43	78.7	8.26	8.90	78.08	25.60
9/3/2008	1:00:00	7.04	75.4	7.89	6.83	75.3	8.06	7.25	79.5	8.04	7.45	78.5	8.18	8.20	77.36	25.20
9/3/2008	2:00:00	6.65	74.9	7.81	6.47	74.8	7.95	7.20	79.3	8.02	7.67	78.2	8.20	7.50	76.64	24.80

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
9/3/2008	3:00:00	6.48	74.5	7.75	6.22	74.3	7.86	7.05	79.1	8.01	7.32	77.9	8.15	7.10	76.28	24.60
9/3/2008	4:00:00	6.49	74.2	7.71	6.00	73.9	7.78	7.00	78.9	8.00	6.85	77.7	7.99	6.60	75.56	24.20
9/3/2008	5:00:00	6.17	73.9	7.67	5.89	73.5	7.73	6.87	78.7	7.98	6.63	77.3	7.99	6.10	75.02	23.90
9/3/2008	6:00:00	6.09	73.6	7.64	5.74	73.1	7.69	6.75	78.6	7.97	6.81	77.0	8.00	5.80	74.48	23.60
9/3/2008	7:00:00	5.99	73.4	7.62	5.72	72.8	7.66	6.82	79.3	7.93	6.84	76.9	8.06	5.40	73.94	23.30
9/3/2008	8:00:00	6.11	73.2	7.60	6.25	72.8	7.70	7.01	79.7	7.93	7.02	76.8	8.06	5.20	73.58	23.10
9/3/2008	9:00:00	6.37	73.1	7.62	7.23	73.1	7.87	7.25	80.3	7.96	6.82	76.8	7.98	5.40	73.58	23.10
9/3/2008	10:00:00	7.05	73.2	7.71	8.83	73.9	8.16	7.40	80.8	7.99	6.34	76.9	7.85	5.80	73.94	23.30
9/3/2008	11:00:00	8.10	73.7	7.88	10.26	75.0	8.46	7.62	82.0	8.04	6.35	77.2	7.91	6.60	74.84	23.80
9/3/2008	12:00:00	9.61	74.6	8.11	11.44	76.1	8.66	7.78	83.1	8.07	6.71	77.7	7.89	7.60	76.10	24.50
9/3/2008	13:00:00	10.53	75.4	8.31	12.01	76.9	8.78	7.98	83.7	8.12	8.78	79.8	8.42	8.70	77.18	25.10
9/3/2008	14:00:00	11.79	76.8	8.48	12.40	77.7	8.85	8.10	85.5	8.16	8.74	81.1	8.46	11.00	78.44	25.80
9/3/2008	15:00:00	12.90	78.5	8.64	12.40	78.2	8.88	8.17	84.8	8.18	9.61	81.2	8.57	11.10	79.52	26.40
9/3/2008	16:00:00	13.41	80.1	8.74	12.28	78.8	8.89	8.33	86.0	8.23	9.72	81.8	8.65	11.80	80.60	27.00
9/3/2008	17:00:00	13.94	80.9	8.80	12.08	79.1	8.91	8.36	86.1	8.25	11.11	81.8	8.96	12.40	81.14	27.30
9/3/2008	18:00:00	13.50	80.9	8.81	11.64	78.9	8.91	8.50	85.9	8.26	12.23	82.0	9.00	12.70	81.68	27.60
9/3/2008	19:00:00	12.59	80.4	8.75	10.98	78.7	8.86	8.33	84.9	8.26	12.41	81.9	8.89	13.10	81.32	27.40
9/3/2008	20:00:00	11.93	79.6	8.67	10.06	78.1	8.74	8.04	83.9	8.23	11.53	81.7	8.71	12.30	80.78	27.10
9/3/2008	21:00:00	10.17	78.7	8.52	9.15	77.6	8.60	7.84	83.0	8.19	10.89	81.4	8.59	11.80	80.42	26.90
9/3/2008	22:00:00	8.83	77.8	8.33	8.45	77.1	8.46	7.75	82.6	8.17	10.00	80.9	8.44	11.20	79.70	26.50
9/3/2008	23:00:00	8.00	77.1	8.15	7.84	76.7	8.32	7.61	82.2	8.16	11.85	80.6	8.76	9.80	78.80	26.00
9/4/2008	0:00:00	7.38	76.5	8.01	7.32	76.4	8.19	7.52	81.9	8.16	11.78	80.2	8.68	9.00	78.44	25.80
9/4/2008	1:00:00	6.97	75.9	7.89	6.96	76.0	8.06	7.47	81.7	8.17	11.98	79.8	8.68	8.40	77.72	25.40
9/4/2008	2:00:00	6.66	75.4	7.80	6.65	75.6	7.95	7.38	81.4	8.16	11.25	79.6	8.65	7.80	77.36	25.20
9/4/2008	3:00:00	6.48	75.1	7.74	6.55	75.1	7.86	7.27	81.2	8.15	10.82	79.4	8.34	7.30	76.82	24.90
9/4/2008	4:00:00	6.33	74.7	7.70	6.31	74.7	7.78	7.12	80.9	8.13	10.32	79.1	8.44	6.80	76.28	24.60
9/4/2008	5:00:00	6.21	74.5	7.65	6.12	74.3	7.72	7.02	80.8	8.11	10.39	78.7	8.44	6.40	75.74	24.30
9/4/2008	6:00:00	6.09	74.2	7.62	5.99	73.9	7.68	6.88	80.6	8.08	10.04	78.4	8.44	5.90	75.38	24.10
9/4/2008	7:00:00	5.98	74.0	7.59	5.94	73.6	7.65	6.68	80.3	8.03	10.01	78.2	8.39	5.60	74.84	23.80
9/4/2008	8:00:00	5.94	73.8	7.58	6.47	73.7	7.71	6.69	80.5	8.02	10.00	78.1	8.39	5.30	74.48	23.60
9/4/2008	9:00:00	6.19	73.7	7.59	7.88	74.2	7.95	6.78	81.0	8.02	10.10	78.2	8.39	5.30	74.48	23.60
9/4/2008	10:00:00	6.88	73.8	7.66	9.34	75.2	8.25	6.99	81.7	8.04	8.88	78.2	8.02	5.60	75.02	23.90
9/4/2008	11:00:00	7.96	74.4	7.82	10.79	76.5	8.50	7.24	83.1	8.07	8.47	78.5	7.99	6.40	76.10	24.50
9/4/2008	12:00:00	9.32	75.7	8.06	11.80	77.9	8.66	7.51	84.4	8.13	8.68	78.9	8.02	7.50	77.36	25.20
9/4/2008	13:00:00	10.92	77.8	8.33	12.32	78.9	8.76	7.55	86.4	8.14	9.46	79.4	8.22	10.40	78.98	26.10
9/4/2008	14:00:00	12.18	79.5	8.53	12.84	79.8	8.83	7.60	85.1	8.16	10.89	80.3	8.69	10.70	80.42	26.90
9/4/2008	15:00:00	12.84	80.8	8.63	13.26	80.4	8.89	7.77	85.9	8.20	13.66	81.4	9.01	12.60	81.86	27.70

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norristown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
9/4/2008	16:00:00	13.15	81.7	8.68	12.85	80.7	8.92	7.91	85.8	8.23	14.49	83.5	9.16	13.20	82.58	28.10
9/4/2008	17:00:00	13.13	82.1	8.72	12.51	80.7	8.91	7.96	85.9	8.24	15.40	82.8	9.19	13.20	83.12	28.40
9/4/2008	18:00:00	12.72	82.0	8.70	11.91	80.4	8.86	7.98	85.8	8.25	15.57	82.8	9.17	13.00	83.12	28.40
9/4/2008	19:00:00	11.80	81.2	8.63	11.05	80.0	8.76	7.90	85.8	8.26	15.28	83.2	9.22	12.60	82.76	28.20
9/4/2008	20:00:00	10.43	80.3	8.50	9.98	79.5	8.63	7.97	86.0	8.28	14.57	82.6	9.14	12.10	82.22	27.90
9/4/2008	21:00:00	9.11	79.5	8.31	9.10	79.0	8.49	7.88	85.8	8.28	14.42	82.2	9.06	***	***	***
9/4/2008	22:00:00	8.19	78.8	8.14	8.39	78.6	8.35	7.80	85.6	8.28	14.22	82.0	9.03	***	***	***
9/4/2008	23:00:00	7.62	78.3	8.01	7.85	78.3	8.21	7.54	85.0	8.26	13.92	81.6	9.04	***	***	***
9/5/2008	0:00:00	7.21	78.0	7.91	7.33	77.9	8.08	7.25	84.6	8.22	12.76	81.3	9.06	***	***	***
9/5/2008	1:00:00	6.93	77.6	7.84	6.92	77.5	7.98	6.95	85.5	8.12	12.07	81.1	8.99	***	***	***
9/5/2008	2:00:00	6.73	77.2	7.79	6.64	77.1	7.88	6.86	86.4	8.08	12.01	80.7	8.92	***	***	***
9/5/2008	3:00:00	6.55	76.9	7.74	6.34	76.8	7.80	7.10	88.6	8.10	11.49	80.4	8.88	***	***	***
9/5/2008	4:00:00	6.37	76.6	7.69	6.13	76.4	7.74	7.18	89.4	8.12	10.73	80.2	8.73	***	***	***
9/5/2008	5:00:00	6.21	76.2	7.65	6.03	76.1	7.69	7.25	89.9	8.14	9.91	80.0	8.72	***	***	***
9/5/2008	6:00:00	6.07	75.9	7.62	5.92	75.7	7.64	7.37	90.0	8.18	9.69	79.8	8.67	***	***	***
9/5/2008	7:00:00	5.94	75.5	7.59	5.80	75.4	7.62	7.47	90.0	8.21	9.32	79.6	8.62	***	***	***
9/5/2008	8:00:00	5.91	75.2	7.57	6.28	75.3	7.66	7.53	89.8	8.24	9.11	79.3	8.56	***	***	***
9/5/2008	9:00:00	6.12	75.1	7.59	7.46	75.8	7.83	7.54	89.6	8.25	8.71	79.4	8.50	***	***	***
9/5/2008	10:00:00	6.46	75.0	7.63	9.00	76.6	8.10	7.51	89.3	8.25	8.78	79.4	8.36	***	***	***
9/5/2008	11:00:00	7.24	75.5	7.73	10.50	77.7	8.37	7.62	89.3	8.28	8.14	79.5	8.17	***	***	***
9/5/2008	12:00:00	8.58	76.8	7.97	11.56	78.7	8.55	7.62	89.5	8.29	7.98	80.2	8.08	***	***	***
9/5/2008	13:00:00	10.12	78.6	8.25	12.38	79.5	8.67	7.46	88.9	8.27	12.61	80.7	9.03	***	***	***
9/5/2008	14:00:00	11.45	80.1	8.47	12.90	80.1	8.76	7.48	88.8	8.27	13.36	81.7	9.39	***	81.32	27.4
9/5/2008	15:00:00	12.39	81.4	8.61	12.97	80.4	8.81	7.58	88.0	8.29	14.32	82.5	9.39	***	82.04	27.8
9/5/2008	16:00:00	12.80	82.2	8.68	12.91	80.6	8.83	7.67	87.8	8.32	14.57	82.5	9.31	***	***	***
9/5/2008	17:00:00	12.87	82.6	8.72	12.86	80.4	8.83	7.63	87.3	8.32	14.59	82.5	9.25	***	***	***
9/5/2008	18:00:00	12.68	82.4	8.71	12.24	80.2	8.80	7.61	86.6	8.32	14.47	82.6	9.25	***	***	***
9/5/2008	19:00:00	11.63	81.5	8.63	11.41	79.7	8.71	7.64	86.7	8.33	14.08	82.3	9.29	***	***	***
9/5/2008	20:00:00	10.26	80.4	8.49	10.24	79.2	8.57	7.50	86.5	8.30	14.33	82.3	9.24	***	***	***
9/5/2008	21:00:00	8.96	79.6	8.31	9.20	79.0	8.44	7.42	86.1	8.28	12.82	82.2	9.15	***	***	***
9/5/2008	22:00:00	8.09	79.1	8.15	8.52	78.7	8.32	7.40	85.8	8.28	12.69	82.1	9.06	***	***	***
9/5/2008	23:00:00	7.58	78.6	8.02	8.08	78.5	8.21	7.22	85.1	8.26	10.97	81.9	8.97	***	***	***
9/6/2008	0:00:00	7.21	78.3	7.94	7.59	78.3	8.09	7.17	84.7	8.23	10.69	81.8	9.01	***	***	***
9/6/2008	1:00:00	6.97	78.0	7.88	7.21	78.0	7.99	6.97	84.3	8.18	9.81	81.6	8.89	***	***	***
9/6/2008	2:00:00	6.74	78.0	7.81	6.84	77.9	7.90	6.90	85.2	8.02	8.23	81.3	8.57	***	***	***
9/6/2008	3:00:00	6.54	77.9	7.76	6.60	77.8	7.82	7.06	86.4	8.03	8.07	81.3	8.57	***	***	***
9/6/2008	4:00:00	6.34	77.8	7.72	6.39	77.7	7.76	7.31	87.6	8.08	7.92	81.3	8.52	***	***	***

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norrstown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
9/6/2008	5:00:00	6.15	77.6	7.67	6.18	77.7	7.71	7.42	87.9	8.11	6.98	81.2	8.33	***	***	***
9/6/2008	6:00:00	5.97	77.4	7.64	6.05	77.6	7.66	7.47	88.1	8.14	6.71	81.0	8.25	***	***	***
9/6/2008	7:00:00	5.80	77.3	7.60	5.91	77.4	7.63	7.56	88.1	8.18	6.75	80.9	8.18	***	***	***
9/6/2008	8:00:00	5.73	77.1	7.57	6.01	77.3	7.63	7.63	88.2	8.21	6.11	80.8	8.06	***	***	***
9/6/2008	9:00:00	5.77	77.0	7.56	6.18	77.3	7.63	7.61	88.0	8.22	5.91	80.7	7.99	***	***	***
9/6/2008	10:00:00	5.94	77.0	7.58	6.43	77.3	7.64	7.58	87.7	8.22	5.31	80.7	7.85	***	***	***
9/6/2008	11:00:00	5.94	76.9	7.57	6.40	77.2	7.65	7.57	87.3	8.24	5.19	80.6	7.82	***	***	***
9/6/2008	12:00:00	5.99	76.8	7.57	6.90	77.2	7.69	7.45	87.0	8.21	5.70	80.6	7.90	***	***	***
9/6/2008	13:00:00	6.32	76.8	7.60	7.22	77.1	7.74	7.52	86.1	8.25	5.50	80.6	7.86	***	***	***
9/6/2008	14:00:00	6.80	76.8	7.66	7.51	77.0	7.77	7.29	85.6	8.22	5.97	80.5	7.82	***	78.08	25.6
9/6/2008	15:00:00	7.19	76.5	7.71	7.82	76.5	7.79	7.32	84.6	8.24	6.22	79.7	7.79	***	77.72	25.4
9/6/2008	16:00:00	7.28	75.9	7.71	7.75	75.3	7.67	7.30	84.1	8.24	5.81	80.0	7.79	***	***	***
9/6/2008	17:00:00	7.30	74.8	7.64	7.95	74.1	7.54	6.98	82.9	8.18	4.80	79.9	7.69	***	***	***
9/6/2008	18:00:00	7.46	74.5	7.51	8.06	73.2	7.38				5.41	79.1	7.66	***	***	***
9/6/2008	19:00:00	7.71	73.8	7.36	7.60	72.2	6.94				5.94	78.9	7.76	***	***	***
9/6/2008	20:00:00	8.01	72.7	7.28	7.71	72.1	7.07				5.78	79.2	7.77	***	***	***
9/6/2008	21:00:00	8.03	72.2	7.21	7.50	72.3	7.07				5.72	79.6	7.83	***	***	***
9/6/2008	22:00:00	7.63	72.7	7.22	7.50	72.7	7.18				5.44	79.3	7.71	***	***	***
9/6/2008	23:00:00	7.21	72.8	7.26	7.28	73.1	7.29				5.64	78.3	7.59	***	***	***
9/7/2008	0:00:00	7.05	72.6	7.22	7.03	73.0	7.32				5.62	78.0	7.68	***	***	***
9/7/2008	1:00:00	6.90	72.2	7.21	7.00	72.6	7.27				5.67	77.8	7.62	***	***	***
9/7/2008	2:00:00	6.83	72.0	7.17	7.02	72.3	7.24				5.86	77.2	7.59	***	***	***
9/7/2008	3:00:00	6.88	71.8	7.17	7.00	72.0	7.21				6.05	76.5	7.53	***	***	***
9/7/2008	4:00:00	6.85	71.6	7.19	6.99	71.9	7.21				6.28	75.9	7.50	***	***	***
9/7/2008	5:00:00	6.92	71.3	7.19	6.97	71.7	7.20				6.08	75.4	7.46	***	***	***
9/7/2008	6:00:00	6.96	71.1	7.17	6.97	71.5	7.19				6.27	75.0	7.42	***	***	***
9/7/2008	7:00:00	7.00	70.8	7.15	7.03	71.3	7.18				6.33	74.7	7.38	***	***	***
9/7/2008	8:00:00	7.01	70.6	7.13	7.06	71.1	7.14				6.32	74.4	7.35	***	***	***
9/7/2008	9:00:00	7.14	70.2	7.12	7.07	71.1	7.10				6.29	74.1	7.33	***	***	***
9/7/2008	10:00:00	7.11	70.1	7.11	7.12	71.4	7.08				6.42	73.9	7.30	***	***	***
9/7/2008	11:00:00	7.09	70.3	7.10	7.14	71.7	7.08				6.39	73.9	7.29	***	***	***
9/7/2008	12:00:00	7.16	71.1	7.12	7.20	72.1	7.08	6.25	71.8	7.40	6.29	74.1	7.27	***	***	***
9/7/2008	13:00:00	7.21	72.1	7.13	7.35	72.6	7.15	6.24	72.1	7.30	6.04	74.4	7.25	***	***	***
9/7/2008	14:00:00	7.28	73.0	7.14	7.27	73.1	7.18	6.29	72.5	7.29	6.02	74.6	7.27	***	73.76	23.2
9/7/2008	15:00:00	7.29	73.9	7.17	7.34	73.4	7.18	6.29	73.0	7.27	6.24	74.8	7.25	***	74.30	23.5
9/7/2008	16:00:00	7.36	74.5	7.18	7.36	73.5	7.19	6.30	73.4	7.26	5.97	74.9	7.16	***	***	***
9/7/2008	17:00:00	7.40	74.7	7.21	7.39	73.6	7.20	6.33	73.8	7.24	5.81	75.0	7.17	***	***	***

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Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

Date M/D/YYYY	Time HH:MM:SS	Limerick Intake			PA American Intake			Black Rock Dam			Norrstown Pool			Vincent Dam		
		DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	pH Units	DO mg/l	Temp °F	Temp °C
9/7/2008	18:00:00	7.36	74.7	7.21	7.35	73.5	7.21	6.31	74.0	7.22	5.96	74.9	7.16	***	***	***
9/7/2008	19:00:00	7.19	74.2	7.21	7.33	73.5	7.23	6.33	74.3	7.21	5.86	74.8	7.10	***	***	***
9/7/2008	20:00:00	7.12	73.8	7.20	7.39	73.5	7.24	6.31	74.4	7.20	5.90	74.6	7.14	***	***	***
9/7/2008	21:00:00	7.10	73.6	7.22	7.40	73.4	7.26	6.30	74.6	7.19	5.62	74.5	7.12	***	***	***
9/7/2008	22:00:00	7.09	73.3	7.24	7.40	73.2	7.28	6.28	74.7	7.19	5.72	74.4	7.11	***	***	***
9/7/2008	23:00:00	7.19	73.0	7.24	7.43	73.0	7.29	6.30	74.9	7.18	5.58	74.3	7.12	***	***	***
9/8/2008	0:00:00	7.14	72.7	7.26	7.46	72.7	7.32	6.29	75.1	7.18	5.66	74.2	7.14	***	***	***
9/8/2008	1:00:00	7.08	72.4	7.27	7.49	72.4	7.33	6.24	75.0	7.18	5.46	74.1	7.14	***	***	***
9/8/2008	2:00:00	7.12	72.1	7.28	7.55	72.1	7.35	6.22	74.9	7.18	5.74	74.0	7.16	***	***	***
9/8/2008	3:00:00	7.45	71.8	7.29	7.56	71.9	7.36	6.18	75.0	7.17	5.74	73.9	7.16	***	***	***
9/8/2008	4:00:00	7.15	71.5	7.29	7.60	71.6	7.37	6.18	74.8	7.17	5.80	73.8	7.16	***	***	***
9/8/2008	5:00:00	7.11	71.2	7.30	7.64	71.3	7.38	6.18	74.4	7.18	5.60	73.7	7.19	***	***	***
9/8/2008	6:00:00	7.04	70.8	7.30	7.60	71.0	7.39	6.11	74.0	7.18	5.88	73.5	7.14	***	***	***
9/8/2008	7:00:00	7.05	70.5	7.31	7.64	70.7	7.39	6.10	73.5	7.19	5.51	73.4	7.19	***	***	***
9/8/2008	8:00:00	7.14	70.2	7.31	7.73	70.5	7.41	6.12	73.2	7.20	5.31	73.3	7.16	***	***	***
9/8/2008	9:00:00	7.15	70.0	7.32	7.94	70.7	7.45	6.12	72.9	7.21	4.73	73.3	7.14	***	***	***
9/8/2008	10:00:00	7.23	69.9	7.34	8.34	71.3	7.52	6.15	72.7	7.22	5.59	73.3	7.19	***	***	***
9/8/2008	11:00:00	7.46	70.3	7.37	8.73	72.0	7.61	6.17	72.6	7.23				***	***	***
9/8/2008	12:00:00	7.89	71.4	7.44	9.12	72.8	7.70							***	***	***
9/8/2008	13:00:00	8.43	72.8	7.55										***	***	***

*** Data not available from USGS at Vincent

Pa American Aug 25th through Sept 2nd equipment failure.

Vincent Dam Sept 4th through Sept 8th equipment failure

Black Rock equipment removed Sept 6th - Sept 7th as precaution due to the heavy rains.

**Pottstown Water Treatment Plant, Schuylkill River Monitoring
Associated with the Exelon's Wadesville Mine Demonstration Project**

Date	pH (SU) Range**		Spec. Cond. (µmhos/cm)
	Max	Min	
4/15/2008	9.2	7.7	
4/16/2008	9.2	7.9	
4/17/2008	9.1	8	
4/18/2008	9.2	7.8	
4/19/2008	9.1	8.1	
4/20/2008	8.4	7.7	
4/21/2008	8.3	7.5	
4/22/2008	8.8	7.6	
4/23/2008	8.9	7.5	
4/24/2008	8.9	7.6	
4/25/2008	8.6	7.5	
4/26/2008	8.1	7.6	
4/27/2008	7.8	7.5	
4/28/2008	7.6	7.3	350
4/29/2008	7.7	7.3	
4/30/2008	7.9	7.2	
5/1/2008	7.9	7.6	
5/2/2008	7.7	7.5	
5/3/2008	7.8	7.6	
5/4/2008	7.9	7.7	
5/5/2008	7.8	7.5	
5/6/2008	7.8	7.5	320
5/7/2008	7.8	7.5	
5/8/2008	7.8	7.4	
5/9/2008	7.6	7.5	300
5/10/2008	7.4	7.4	
5/11/2008	7.5	7.4	
5/12/2008	7.7	7.5	
5/13/2008	7.8	7.5	
5/14/2008	8.0	7.6	330
5/15/2008	7.8	7.6	
5/16/2008	7.7	7.5	
5/17/2008	7.5	7.4	
5/18/2008	7.7	7.5	
5/19/2008	7.8	7.5	340
5/20/2008	7.8	7.5	
5/21/2008	7.8	7.6	
5/22/2008	7.8	7.6	
5/23/2008	7.9	7.6	350
5/24/2008	7.7	7.5	
5/25/2008	7.9	7.5	
5/26/2008	8.0	7.8	
5/27/2008	7.9	7.6	
5/28/2008	8.0	7.5	
5/29/2008	8.1	7.6	

**Pottstown Water Treatment Plant, Schuylkill River Monitoring
Associated with the Exelon's Wadesville Mine Demonstration Project**

Date	pH (SU) Range**		Spec. Cond. (µmhos/cm)
	Max	Min	
5/30/2008	8.1	7.6	390
5/31/2008	7.8	7.7	
6/1/2008	7.7	7.6	
6/2/2008	8.2	7.6	
6/3/2008	8.1	7.8	
6/4/2008	7.9	7.6	
6/5/2008	7.6	7.5	410
6/6/2008	7.7	7.5	
6/7/2008	7.9	7.7	
6/8/2008	7.8	7.7	
6/9/2008	7.8	7.5	
6/10/2008	7.8	7.6	
6/11/2008	7.8	7.5	
6/12/2008	7.9	7.5	
6/13/2008	7.9	7.6	
6/14/2008	7.5	7.5	
6/15/2008	7.6	7.5	
6/16/2008	8.0	7.6	
6/17/2008	8.0	7.6	460
6/18/2008	7.9	7.7	
6/19/2008	8.1	7.6	
6/20/2008	8.3	7.7	
6/21/2008	8.4	7.8	
6/22/2008	8.3	7.8	
6/23/2008	8.4	7.7	
6/24/2008	8.1	7.7	
6/25/2008	8.3	7.4	
6/26/2008	8.3	7.7	510
6/27/2008	8.3	7.7	
6/28/2008	8.0	7.7	
6/29/2008	8.0	7.6	
6/30/2008	8.1	7.7	500
7/1/2008	8.2	7.7	
7/2/2008	8.3	7.7	
7/3/2008	8.3	7.7	510
7/4/2008	7.7	7.5	
7/5/2008	7.9	7.7	
7/6/2008	7.9	7.6	
7/7/2008	7.8	7.6	
7/8/2008	7.9	7.5	490
7/9/2008	7.9	7.6	
7/10/2008	8.1	7.6	
7/11/2008	8.1	7.7	
7/12/2008	8.3	7.8	
7/13/2008	8.3	7.9	
7/14/2008	7.8	7.7	410

**Pottstown Water Treatment Plant, Schuylkill River Monitoring
Associated with the Exelon's Wadesville Mine Demonstration Project**

Date	pH (SU) Range**		Spec. Cond. (µmhos/cm)
	Max	Min	
7/15/2008	8.1	7.6	
7/16/2008	8.2	7.7	
7/17/2008	8.1	7.7	
7/18/2008	8.2	7.7	400
7/19/2008	7.9	7.7	
7/20/2008	7.8	7.7	
7/21/2008	8.3	7.6	
7/22/2008	8.4	7.6	
7/23/2008	7.9	7.6	
7/24/2008	7.6	7.3	
7/25/2008	7.8	7.3	440
7/26/2008	8.0	7.5	
7/27/2008	7.6	7.5	
7/28/2008	7.7	7.3	
7/29/2008	8.0	7.4	
7/30/2008	7.9	7.6	
7/31/2008	8.1	7.6	
8/1/2008	8.3	7.6	
8/2/2008	8.0	7.7	
8/3/2008	8.1	7.6	
8/4/2008	8.3	7.6	
8/5/2008	8.1	7.7	
8/6/2008	8.2	7.6	
8/7/2008	8.3	7.6	
8/8/2008	8.2	7.7	480
8/9/2008	8.4	7.8	
8/10/2008	7.9	7.8	
8/11/2008	8.1	7.7	
8/12/2008	8.1	7.8	
8/13/2008	8.1	7.8	
8/14/2008	8.5	7.8	510
8/15/2008	8.2	7.8	
8/16/2008	8.2	7.6	
8/17/2008	8.7	7.7	

** - pH is taken every 2 hours during the day

Chemical Analyses of Schuylkill River at Pottstown Water Treatment Plant

Low Flow Sampling

(Total concentration in mg/l unless otherwise indicated)

Constituent	Sample				
	Dates>>	7/22/2008	7/23/2008	8/25/2008	8/27/2008
River Flow (cfs)*		439	529	406	381
Iron, Total		0.08	0.25	0.08	
Manganese, Total		0.048	0.158	0.055	
Copper, Total		N/A	N/A	<0.01	
Total Organic Carbon		2.9	2.6	2.7	
TDS		326	392	289	

* approxiamate flow at sample time

East Branch Perkiomen Creek Monitoring
Associated with the Exelon's Wadesville Mine Demonstration Project
(sampling frequency = 5 per month)

Sampling Date	200' Upstream of Bradshaw Outfall				Outfall from Bradshaw Reservoir				Downstream, Bucks Rd. USGS gage				EBPC at Rt. 73 Bridge			
	Diss. Oxygen	Temp	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)	Diss. Oxygen	Temp	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)	Diss. Oxygen	Temp	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)	Diss. Oxygen	Temp	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)
	(mg/l)	(°C)			(mg/l)	(°C)			(mg/l)	(°C)			(mg/l)	(°C)		
4/17/2008	11.6	10.2	21	26	9.4	11.4	4	8	11.2	12.7	22	26	13.8	13.7	12	18
4/21/2008	10.9	15.2	35	46	9.9	14.5	14	26	11.3	16.2	20	20	13.1	18.2	23	33
4/24/2008	7.9	14.8	1000	1100	8.5	16.5	5	5	9.1	17.3	10	11	11.3	18.8	41	42
5/7/2008	11.0	13.5	20	36	11.3	15.7	<1	<2	10.2	16.5	28	28	9.8	16.0	38	54
5/8/2008	8.0	16.3	23	40	11.3	16.0	5	21	9.8	16.0	93	110	8.2	18.5	61	86
5/14/2008	7.1	10.4	145	150	8.6	14.1	2	5	7.5	12.6	50	60	7.3	13.1	69	100
5/15/2008	11.6	14.6	67	78	10.9	15.6	1	13	10.2	16.3	25	31	11.2	17.8	44	64
5/21/2008	8.8	12.0	730	860	9.0	14.2	20	20	8.7	14.2	200	300	9.3	13.1	2000	3000
6/3/2008	9.9	19.7	300	340	10.0	20.3	2	5	9.6	21.9	110	110	10.1	23.8	100	140
6/11/2008	7.0	22.5	>2400	17000	7.9	26.5	3	15	7.6	26.8	650	670	8.3	28.5	85	350
6/12/2008	6.4	20.7	400	13000	7.5	26.3	3	18	6.9	26.2	60	64	7.8	25.5	14	78
6/19/2008	6.5	14.9	770	1300	8.6	23.1	3	6	7.7	22.3	46	78	8.4	18.4	160	190
6/25/2008	8.5	21.1	51	52	9.9	23.4	1	<2	9.3	25.2	310	380	9.0	26.4	8	18
7/1/2008	5.3	21.1	7	39	8.8	25.5	1	6	10.1	26.0	100	110	8.8	25.5	10	15
7/8/2008	4.4	23.0	>2400	4300	9.2	24.5	2	2	8.6	26.3	64	70	10.4	28.2	6	10
7/9/2008	4.8	23.0	500	510	8.7	25.7	2	<2	8.0	25.8	1000	1100	9.6	26.1	12	28
7/15/2008	4.1	23.3	1300	1300	10.4	25.6	<2	<1	9.7	26.0	49	58	10.6	26.6	9	48
7/28/2008	8.7	21.9	2400	2500	11.4	23.1	7	9	10.5	24.4	52	54	10.7	26.3	25	63
8/11/2008	3.6	17.7	690	700	6.1	22.6	6	13	5.8	22.7	31	34	10.4	21.8	3	34
8/12/2008	3.6	17.4	390	430	8.8	22.1	3	10	9.0	22.3	14	20	9.4	20.5	7	15
8/14/2008	3.0	20.0	340	540	9.2	23.1	<1	5	8.9	23.4	22	20	9.6	24.4	6	30
8/25/2008	2.4	20.3	130	260	8.8	25.0	3	3	8.4	25.1	31	31	9.3	23.4	12	39
8/26/2008	2.5	17.0	180	280	8.6	24.3	2	5	8.3	23.8	13	15	8.1	20.2	13	50
9/2/2008	4.2	18.2	440	460	13.7	23.2	1	2	12.9	23.9	39	46	12.1	24.9	10	19

Table 4.1-2. Monthly water quality measurements of Wadesville Mine Pool
 Water collected from the pump discharge.

Sample Date	4/30/08	5/31/08	6/28/08	7/24/08	8/24/08
Constituent¹					
Total Organic Carbon	<0.5	<0.5	<0.5	<0.5	0.5
TDS	1,379	1,384	1,301	1,118	998
Dissolved Oxygen	7.3	7.4	7.7	7.1	7.6
Spec. Cond. (µmhos/cm)	1,665	1,708	1,425	1,481	1,603
pH (SU)	6.85	6.88	6.83	6.86	6.76
Temp (°C)	13.7	13.9	14.0	13.9	13.9

¹Total concentration in mg/l unless otherwise indicated.

Chemical Analyses of Still Creek and Little Schuylkill River

(Concentration in mg/l unless otherwise indicated)

Little Schuylkill River - Route 54 - Just below PA Route 54 Bridge

Little Schuylkill River - Upstream - Just below SR1020 Bridge

Still Creek - Upstream of PA Route 309 Bridge

Sampling Date, Constituents	Little Schuylkill River - Upstream	Little Schuylkill River - Route 54	Still Creek
4/30/2008			
Total Dissolved Solids	109	52	<5
Total Alkalinity	<2	8	10
Dissolved Oxygen	10.7	10.6	8.9
Spec. Cond. (µmhos/cm)	205	133	33
pH (SU)	4.70	6.52	6.01
Temp (°C)	8.7	9.1	14.0
5/29/2008			
Total Dissolved Solids	133	90	22
Total Alkalinity	<2	2	8
Dissolved Oxygen	9.8	11.0	9.0
Spec. Cond. (µmhos/cm)	203	130	33
pH (SU)	4.21	6.07	6.32
Temp (°C)	9.8	10.9	17.0
6/27/2008			
Total Dissolved Solids	126	46	24
Total Alkalinity	<2	8	6
Dissolved Oxygen	11.2	10.7	10.2
Spec. Cond. (µmhos/cm)	183	51	21
pH (SU)	4.81	5.92	6.62
Temp (°C)	13.1	15.2	13.7
7/24/2008			
Total Dissolved Solids	174	98	55
Total Alkalinity	<2	6	15
Dissolved Oxygen	10.4	9.1	9.7
Spec. Cond. (µmhos/cm)	241	190	66
pH (SU)	4.31	5.06	5.62
Temp (°C)	15.4	18.5	16.2

Sampling Date, Constituents	Little Schuylkill River - Upstream	Little Schuylkill River - Route 54	Still Creek
8/28/2008			
Total Dissolved Solids	212	131	39
Total Alkalinity	<2	7	18
Dissolved Oxygen	10.8	9.7	8.9
Spec. Cond. (μ mhos/cm)	333	213	71
pH (SU)	5.14	5.31	6.63
Temp ($^{\circ}$ C)	12.3	14.3	14.0

Chemical Analyses of E. Norwegian Creek and Schuylkill River

(Concentration in mg/l unless otherwise indicated)

Station 109 = ~ 3 mi. downstream of Norwegian Creek

Station 106 = ~ 0.5 mi. upstream of Norwegian Creek

Sampling Date, Constituents	Schuylkill River at Station 109	E. Norwegian Creek	Schuylkill River at Station 106
4/30/2008			
Total Dissolved Solids	N/A*	N/A*	N/A*
Total Alkalinity	N/A*	N/A*	N/A*
Dissolved Oxygen	11.2	9.7	10.9
Spec. Cond. ($\mu\text{mhos/cm}$)	477	1,437	333
pH (SU)	6.73	7.00	6.84
Temp ($^{\circ}\text{C}$)	9.4	12.0	8.3
5/29/2008			
Total Dissolved Solids	N/A*	N/A*	N/A*
Total Alkalinity	N/A*	N/A*	N/A*
Dissolved Oxygen	9.3	10.9	10.0
Spec. Cond. ($\mu\text{mhos/cm}$)	307	399	294
pH (SU)	7.17	6.71	6.71
Temp ($^{\circ}\text{C}$)	11.3	10.9	10.0
6/10/2008			
Total Dissolved Solids	265	388	218
Total Alkalinity	22	70	14
Dissolved Oxygen	9.4	9.2	9.3
Spec. Cond. ($\mu\text{mhos/cm}$)	322	433	301
pH (SU)	6.58	7.60	6.60
Temp ($^{\circ}\text{C}$)	19.0	18.6	18.5
7/24/2008			
Total Dissolved Solids	N/A*	N/A*	N/A*
Total Alkalinity	N/A*	N/A*	N/A*
Dissolved Oxygen	8.2	8.8	8.1
Spec. Cond. ($\mu\text{mhos/cm}$)	578	1,370	390
pH (SU)	6.89	7.01	6.84
Temp ($^{\circ}\text{C}$)	20.9	16.2	19.6
8/28/2008			
Total Dissolved Solids	532	967	361
Total Alkalinity	130	346	20
Dissolved Oxygen	11.0	10.3	10.4
Spec. Cond. ($\mu\text{mhos/cm}$)	844	1,529	530
pH (SU)	6.63	7.29	6.50
Temp ($^{\circ}\text{C}$)	17.1	14.5	15.8

* taken only during months of biological sampling

Aquatic Habitat Observations of Little Schuylkill River

Performed During Visits to Download Temperature Monitoring Data

Date*	Site	p-chems				Comments/Observation
		Dissoved Oxygen (mg/l)	Spec. Cond. (µmhos/cm)	Temp. (°C)	pH (SU)	
30-Apr	Little Schuylkill River - Tamaqua	10.7	134	9.4	5.54	water clear, rocky bottom, no algal growth, normal flow, nothing abnormal
	Little Schuylkill River - Route 54	10.6	133	9.1	6.52	water clear, rocky bottom, no algal growth, normal flow, nothing abnormal
	Little Schuylkill River - Upstream	10.7	205	8.7	4.70	water clear, rocky bottom, green algal growth, iron staining, normal flow
	Still Creek	8.9	33	14.0	6.01	water clear, no algal growth, normal flow, nothing abnormal
29-May	Little Schuylkill River - Tamaqua	10.3	113	14.5	6.95	water clear, rocky bottom, no algal growth, normal flow, nothing abnormal
	Little Schuylkill River - Route 54	11.0	130	10.9	6.07	water clear, rocky bottom, no algal growth, normal flow, nothing abnormal
	Little Schuylkill River - Upstream	9.8	203	9.8	4.21	water clear, rocky bottom, thick green algal growth, iron staining, norm flow
	Still Creek	9.0	33	17.0	6.32	water clear, no algal growth, normal flow, nothing abnormal
27-Jun	Little Schuylkill River - Tamaqua	10.6	57	16.5	6.81	water clear, rocky bottom, no algal growth, normal flow, nothing abnormal
	Little Schuylkill River - Route 54	10.7	51	15.2	5.92	water clear, rocky bottom, no algal growth, normal flow, nothing abnormal
	Little Schuylkill River - Upstream	11.2	183	11.2	4.81	water clear, rocky bottom, thick green algal growth, iron staining, low flow
	Still Creek	10.2	21	13.7	6.62	water clear, no algal growth, reservoir releasing, nothing abnormal
24-Jul	Little Schuylkill River - Tamaqua	8.5	145	19.2	6.41	water clear, rocky bottom, no algal growth, low flow, nothing abnormal
	Little Schuylkill River - Route 54	9.1	190	18.5	5.06	water clear, rocky bottom, no algal growth, low flow, nothing abnormal
	Little Schuylkill River - Upstream	10.4	241	15.4	4.31	water clear, rocky bottom, no algal growth, iron staining, low flow
	Still Creek	9.7	66	16.2	5.62	water clear, no algal growth, low flow, nothing abnormal
28-Aug	Little Schuylkill River - Tamaqua	9.2	187	14.7	6.72	water clear, rocky bottom, no algal growth, low flow, nothing abnormal
	Little Schuylkill River - Route 54	9.7	213	14.3	5.31	water clear, rocky bottom, no algal growth, low flow, nothing abnormal
	Little Schuylkill River - Upstream	10.8	333	12.3	5.14	water clear, rocky bottom, no algal growth, iron staining, low flow
	Still Creek	8.9	71	14.0	6.63	water clear, no algal growth, low flow, nothing abnormal

Site Locations: Little Schuylkill River - Tamaqua - Downstream of Tuscarora Road Bridge
 Little Schuylkill River - Route 54 - Just below PA Route 54 Bridge
 Little Schuylkill River - Upstream - Just below SR1020 Bridge
 Still Creek - Upstream of PA Route 309 Bridge

Chemical Analyses of Schuylkill River at Pennsylvania American Water Company
TDS Sampling

(Total concentration in mg/l unless otherwise indicated)

Constituent	Sample								
	Dates>>	4/25/2008	5/11/2008	6/9/2008	7/7/2008	7/21/2008	8/21/2008	8/25/2008	9/2/2008
River Flow, Pottstown (cfs)		1,250	1,670	1,050	702	509	427	420	390
TDS		188	158	205	252	269	366	316	272
Dissolved Oxygen		10.7	10.2	8.0	7.1	9.3	12.4	8.4	12.8
Spec. Cond. (µmhos/cm)		330	256	319	381	440	395	429	416
pH (SU)		8.53	7.87	7.32	7.74	8.24	8.87	8.11	8.75
Temp (°C)		18.0	15.6	28.5	24.2	30.2	23.0	24.9	25.5

Monthly Perkiomen Creek Monitoring

Associated with the Exelon's Wadesville Mine Demonstation Project

Perkiomen Creek upstream of East Branch confluence, Rt 73 Bridge Schwenksville

Sampling Date	Disolved			
	Oxygen (mg/l)	Temp (°C)	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)
17-Apr	13.4	13.5	14	21
8-May	8.5	18.4	57	120
3-Jun	10.0	22.5	200	210
1-Jul	8.6	24.4	34	150
11-Aug	9.9	21.6	360	900
2-Sep	12.7	25.0	61	230

Perkiomen Creek downstream of East Branch confluence, Grateford Intake Pumphouse

Sampling Date	Disolved			
	Oxygen (mg/l)	Temp (°C)	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)
17-Apr	14.3	13.8	5	6
8-May	8.4	18.2	91	120
3-Jun	10.6	23.0	290	350
1-Jul	7.0	23.9	14	120
11-Aug	10.8	21.7	180	250
2-Sep	14.9	23.9	8	58

Fish collected by electrofishing at Schuylkill River Station 109 downstream of the Norwegian Creek confluence during 2008.

Sampling Date:		June 10		August 28			
Scientific Name	Common Name	Total No.	Length Range (mm)	Total No.	Length Range (mm)	Total No.	Length Range (mm)
<i>Salvelinus fontinalis</i>	brook trout (wild)	2	65-200	2	101-116		
<i>Onchorynchus mykiss</i>	rainbow trout (stocked)	* 103	79-305	79	130-356		
<i>Salmo trutta</i>	brown trout (stocked)	3	230-430	6	165-251		
<i>Rhinichthys atratulus</i>	blacknose dace	* 320	40-84	* 548	24-83		
<i>Semotilus corporalis</i>	fallfish	2	212-232	6	11-265		
<i>Semotilus atromaculatus</i>	creek chub			14	46-160		
<i>Catostomus commersoni</i>	white sucker	* 627	60-394	* 784	30-372		
<i>Ameiurus nebulosus</i>	brown bullhead	6	139-166	6	110-180		
<i>Lepomis cyanellus</i>	green sunfish	6	40-93	19	66-131		
<i>Lepomis macrochirus</i>	bluegill			5	63-121		
<i>Lepomis gibbosus</i>	pumpkinseed			4	101-116		
<i>Lepomis spp.</i>	sunfish hybrid			2	105-118		
<i>Etheostoma olmstedii</i>	tessellated darter	21	50-70	34	34-81		
<i>Perca flavescens</i>	yellow perch			4	80-140		
Total Species:		9		13		0	
Total Individuals:		1090		1513		0	
Physicochemical data:							
	Time:	8:10		08:32			
	Water Temp (C):	19.0		17.1			
	DO (mg/l):	9.4		11			
	pH:	6.58		6.63			
	Specific Conductance (µmhos/cm):	322		844			

*100 measured

Fish collected by electrofishing at Schuylkill River Station 106 upstream of the Norwegian Creek confluence during 2008.

Sampling Date:		June 10		August 28			
Scientific Name	Common Name	Total No.	Length Range (mm)	Total No.	Length Range (mm)	Total No.	Length Range (mm)
<i>Salvelinus fontinalis</i>	brook trout			1	271		
<i>Salmo trutta</i>	brown trout (stocked)	1	375				
<i>Rhinichthys atratulus</i>	blacknose dace	* 231	39-73	* 419	34-86		
<i>Semotilus atromaculatus</i>	creek chub	64	41-155	93	21-173		
<i>Notemigonus crysoleucas</i>	golden shiner			1	121		
<i>Catostomus commersoni</i>	white sucker	74	44-420	* 277	36-280		
<i>Ameiurus nebulosus</i>	brown bullhead			1	231		
<i>Lepomis cyanellus</i>	green sunfish	20	42-113	46	56-145		
<i>Lepomis macrochirus</i>	bluegill	1	44				
Total Species:		6		7		0	
Total Individuals:		391		838		0	
Physicochemical data							
	Time:		11:45		11:30		
	Water Temp (C):		18.5		15.8		
	DO (mg/l):		9.3		10.4		
	pH:		6.60		6.50		
	Specific Conductance (µmhos/cm):		301		530		

*only 100 measured

Benthic macroinvertebrates collected at Schuylkill River Station 109 downstream of the Norwegian Creek confluence during 2008.

Taxon	Sample Date:	10-Jun		
Nematoda (round worms)		160		
Lumbricida (earthworms)				
Lumbricidae		32		
Tubificida (tube worms)				
Enchytraeidae		64		
Naididae		1216		
Amphipoda (sideswimmers)				
<i>Crangonyx</i>		6		
Isopoda (sowbugs)				
<i>Caecidotea</i>		20		
Ephemeroptera (mayflies)				
<i>Acentrella</i>		7		
<i>Baetis</i>		62		
Megaloptera (fishflies)				
<i>Sialis</i>		1		
Trichoptera (caddisflies)				
<i>Cheumatopsyche</i>		3		
<i>Hydropsyche</i>		8		
Coleoptera (beetles)				
<i>Optioservus</i>		1		
Diptera (true flies)				
Chironomidae		1664		
<i>Hexatoma</i>		1		
<i>Ormosia</i>		1		
<i>Simulium</i>		5		
Total Taxa		16	0	0
Total Individuals		3251	0	0

Benthic macroinvertebrates collected at Schuylkill River Station 106 upstream of the Norwegian Creek confluence during 2008.

Sample Date:		10-Jun	
Taxon			
Nematoda (round worms)		2	
Hoplonemertea (proboscus worm)			
<i>Prostoma</i>			
Tubificida (tube worms)			
Tubificidae			
Naididae		2	
<i>Enchytraeidae</i>		5	
Amphipoda (sideswimmers)			
<i>Stygonectes</i>			
<i>Hydrachnidae</i>			
Ephemeroptera (mayflies)			
<i>Baetis</i>			
Plecoptera (stoneflies)			
<i>Leuctra</i>			
Megaloptera (dobsonflies)			
<i>Nigronia</i>			
Trichoptera (caddisflies)			
<i>Hydropsyche</i>		6	
<i>Lepidostoma</i>		1	
Diptera (true flies)			
Chironomidae		353	
<i>Dicranota</i>		2	
<i>Palpomyia gr.</i>		1	
<i>Psychoda</i>		2	
<i>Tipula</i>		1	
Total Taxa		10	0
Total Individuals		375	0