



Fieldwork, Education & Research

Appendix G, In-Situ Data

Citizens United performed all the *in-situ* measurements for stream flow, pH, temperature, DO, specific conductance, and redox. Instrumentation used to perform *in-situ* measurements was properly calibrated in conformance with manufacture's instructions, NJDEP field sampling procedures, and EPA -B-97-003. This included the calibration of equipment before every sampling event and the disposal of all buffers after each calibration session. 13 sets of signed Chain of Custody documents were executed on the sample collection dates and are on file. All sampling containers were furnished by NJAL. (See Appendix G for In-Situ data).

PARVIN BRANCH AND TARKLIN BRANCH ASSESSMENT PROJECT (RP03-026)																		
IN-SITU DATA LOG																		
SAMPLING SITES																		
	PB2						PB1						TB1					
DATE	pH	TEMP C	DO mg/L	SC	ORP	FLOW	pH	TEMP C	DO mg/L	SC	ORP	FLOW	pH	TEMP C	DO mg/L	SC	ORP	FLOW
5/26/2005	6.90	13.60	13.50			M	6.00	13.40	6.30			M	6.00	13.20	6.10			M
6/9/2005	6.10	17.90	7.27	449.00		M	6.40	18.80	8.10	229.00		M	6.40	20.40	7.80	143.00		M
6/24/2005	6.70	18.20	7.58			M-L	6.80	19.20	6.80			M-L	6.40	18.80	8.31			L
7/27/2005	6.30	19.00	5.0 ppm			M	6.00	20.20	6.6 ppm			L	6.00	21.10	5.6 ppm			M-L
8/23/2005	6.60	17.20	5.5 ppm	600.00		M	6.30	18.70	6.8 ppm	221.00		L	6.10	19.60	4.4 ppm	78.60		L-
9/5/2005	6.80	19.90	6.2 ppm	628.00	20.00	M	6.30	20.50	5.6 ppm	181.00	138.00	L-	6.30	22.70	4.8 ppm	84.40	81.00	L-
9/23/2005	6.70	19.70		608.00	-9.00	M												
9/28/2005	6.53	16.30	5.0 ppm	602.00	-16.00	M	6.00	16.40	5.6 ppm	136.30	116.00	L-	No Water					
9/29/2006	6.50	16.80		615.00	-3.00	M												
11/14/2005	6.99	14.70	6.0 ppm	558.00	-7.00	M	6.36	16.00	4.8 ppm	219.00	102.00	M	6.09	14.90	1.6 ppm	86.70	94.00	L
12/5/2005	6.85	6.20	7.2 ppm	459.00	9.00	M	6.34	8.20	6.8 ppm	168.80	106.00	M	6.11	6.90	6.4 ppm	72.90	122.00	L+
1/10/2006	6.77	8.40	6.8 ppm	518.00	5.00	M	6.22	10.00	6.8 ppm	192.60	103.00	M-L	5.98	9.70	8.1 ppm	97.40	123.00	L
2/16/2006	6.87	8.60	7.4 ppm	504.00	11.00	M	6.19	10.50	8.6 ppm	212.00	132.00	M	5.98	12.00	9.4 ppm	130.10	144.00	L
4/3/2006	6.86	11.40	6.8 ppm	507.00	25.00	M	6.18	11.00	8.2 ppm	203.00	151.00	M	5.83	10.80	8.2 ppm	78.70	173.00	L-M
4/24/2006	6.77	14.30	6.6 ppm	237.00	33.00	M-H	6.48	14.80	6.1 ppm	96.00	125.00	M-H	6.41	14.80	6.0 ppm	65.10	130.00	L-M

PARVIN BRANCH AND TARKLIN BRANCH ASSESSMENT PROJECT (RP03-026)																		
IN-SITU DATA LOG																		
SAMPLING SITES																		
	Site MS - Sherman Staff Gauge						Directly above Parvin Branch on MR						Site MA - Almond Ave. Reference Site					
	GPS 39.4481 x -75.0722						GPS 39.4488 x -75.0727						GPS 39.4955 x -75.0763					
DATE	pH	TEMP C	DO mg/L	SC	ORP	FLOW	pH	TEMP C	DO mg/L	SC	ORP	pH	TEMP C	DO mg/L	SC	ORP		
6/24/2005	6.70					4.48"	6.70											
7/27/2005	6.00	26.30				5.56"												
8/23/2005	6.48	20.80		149.30		5.30"												
9/5/2005	6.58	23.20		173.50	58.00	5.20"	6.63	22.70		118.90	110.00							
9/23/2005	6.69	23.40		155.10	75.00		6.68	22.70		124.50	75.00	6.64	23.50		95.10	140.00		
9/28/2005	6.73	17.90		147.00	64.00	5.15	6.75	18.30		119.50	81.00							
11/14/2005	6.60	12.90		157.50	76.00	5.60"	6.67	13.01		130.00	80.00	6.54	13.90	8.0 ppm	110.40	111.00		
12/5/2005	6.39	5.10		137.80	144.00	6.38"	To Deep						6.28	4.80	10.2 ppm	96.10	153.00	
1/10/2006	6.54	6.60		139.00	76.00	6.30"	6.55	7.50		117.80	81.00	6.18	6.80	9.2 ppm	100.80	145.00		
2/16/2006	6.77	8.60		148.10	67.00	6.32"	6.39	7.70		135.00	168.00	6.45	9.70	10.5 ppm	111.80	153.00		
4/3/2006	6.90	12.10		133.40	89.00	5.74"	6.86	11.10		120.50	89.00	6.52	12.30	9.0 ppm	105.00	160.00		
4/24/2006	6.77	15.50		111.60	88.00	6.36"	6.79	15.20		105.80	90.00	6.31	15.20	6.1 ppm	88.10	153.00		
5/30/2006	6.66	25.30		149.20	85.00	5.56"						6.54	26.40		97.00	130.00		

Parvin Branch Project Data Comparison

Water Quality Data at Monitoring site PB2 compared to Water Quality Data at ANO740

PB2							MR/Almond Ave. Reference Site (ANO740)					
GPS 39.4496 x -75.0721							GPS 39.4955 x -75.0763					
DATE	pH	TEMP C	DO mg/L	SC	ORP	FLOW	pH	TEMP C	DO mg/L	SC	ORP	FLOW
9/23/2005	6.70	19.70		608.00	-9.00	M	6.64	23.50		95.10	140.00	
9/28/2005	6.53	16.30	5.0 ppm	602.00	-16.00	M						
9/29/2006	6.50	16.80		615.00	-3.00	M						
11/14/2005	6.99	14.70	6.0 ppm	558.00	-7.00	M	6.54	13.90	8.0 ppm	110.40	111.00	
1/10/2006	6.77	8.40	6.8 ppm	518.00	5.00	M	6.18	6.80	9.2 ppm	100.80	145.00	
2/16/2006	6.87	8.60	7.4 ppm	504.00	11.00	M	6.45	9.70	10.5 ppm	111.80	153.00	
4/3/2006	6.86	11.40	6.8 ppm	507.00	25.00	M	6.52	12.30	9.0 ppm	105.00	160.00	
4/24/2006	6.77	14.30	6.6 ppm	237.00	33.00	M-H	6.31	15.20	6.1 ppm	88.10	153.00	2.95"

Parvin Branch Project Data Comparison

Water Quality Data at Monitoring site PB2 compared to Water Quality Data at ANO751

PB2							Sherman Staff Gauge (ANO751)					
GPS 39.4496 x -75.0721							GPS 39.4481 x -75.0722					
DATE	pH	TEMP C	DO mg/L	SC	ORP	FLOW	pH	TEMP C	DO mg/L	SC	ORP	FLOW
5/26/2005	6.90	13.60	13.50			M						
6/9/2005	6.10	17.90	7.27	449.00		M						
6/24/2005	6.70	18.20	7.58			M-L	6.70					4.48"
7/27/2005	6.30	19.00	5.0 ppm			M	6.00	26.30				5.56"
8/23/2005	6.60	17.20	5.5 ppm	600.00		M	6.48	20.80		149.30		5.30"
9/5/2005	6.80	19.90	6.2 ppm	628.00	20.00	M	6.58	23.20		173.50	58.00	5.20"
9/23/2005	6.70	19.70		608.00	-9.00	M	6.69	23.40		155.10	75.00	
9/28/2005	6.53	16.30	5.0 ppm	602.00	-16.00	M						
9/29/2006	6.50	16.80		615.00	-3.00	M						
11/14/2005	6.99	14.70	6.0 ppm	558.00	-7.00	M	6.60	12.90		157.50	76.00	5.60"
1/10/2006	6.77	8.40	6.8 ppm	518.00	5.00	M	6.54	6.60		139.00	76.00	6.30"
2/16/2006	6.87	8.60	7.4 ppm	504.00	11.00	M	6.77	8.60		148.10	67.00	6.32"
4/3/2006	6.86	11.40	6.8 ppm	507.00	25.00	M	6.90	12.10		133.40	89.00	5.74"
4/24/2006	6.77	14.30	6.6 ppm	237.00	33.00	M-H	6.77	15.50		111.60	88.00	6.36"
5/30/2006							6.66	25.30		149.20	85.00	5.56"

Parvin Branch Project Data Comparison

Water Quality Data at Monitoring site PB2 compared to Water Quality Data at TB1

DATE	PB2						PB1					
	GPS 39.4496 x -75.0721											
	pH	TEMP C	DO mg/L	SC	ORP	FLOW	pH	TEMP C	DO mg/L	SC	ORP	FLOW
5/26/2005	6.90	13.60	13.50			M	6.00	13.40	6.30			M
6/9/2005	6.10	17.90	7.27	449.00		M	6.40	18.80	8.10	229.00		M
6/24/2005	6.70	18.20	7.58			M-L	6.80	19.20	6.80			M-L
7/27/2005	6.30	19.00	5.0 ppm			M	6.00	20.20	6.6 ppm			L
8/23/2005	6.60	17.20	5.5 ppm	600.00		M	6.30	18.70	6.8 ppm	221.00		L
9/5/2005	6.80	19.90	6.2 ppm	628.00	20.00	M	6.30	20.50	5.6 ppm	181.00	138.00	L-
9/23/2005	6.70	19.70		608.00	-9.00	M						
9/28/2005	6.53	16.30	5.0 ppm	602.00	-16.00	M	6.00	16.40	5.6 ppm	136.30	116.00	L-
9/29/2006	6.50	16.80		615.00	-3.00	M						
11/14/2005	6.99	14.70	6.0 ppm	558.00	-7.00	M	6.36	16.00	4.8 ppm	219.00	102.00	M
1/10/2006	6.77	8.40	6.8 ppm	518.00	5.00	M	6.22	10.00	6.8 ppm	192.60	103.00	M-L
2/16/2006	6.87	8.60	7.4 ppm	504.00	11.00	M	6.19	10.50	8.6 ppm	212.00	132.00	M
4/3/2006	6.86	11.40	6.8 ppm	507.00	25.00	M	6.18	11.00	8.2 ppm	203.00	151.00	M
4/24/2006	6.77	14.30	6.6 ppm	237.00	33.00	M-H	6.48	14.80	6.1 ppm	96.00	125.00	M-H

Parvin Branch Project Data Comparison

Water Quality Data at Monitoring site PB2 compared to Water Quality Data at TB1

DATE	PB2						TB1					
	GPS 39.4496 x -75.0721											
	pH	TEMP C	DO mg/L	SC	ORP	FLOW	pH	TEMP C	DO mg/L	SC	ORP	FLOW
5/26/2005	6.90	13.60	13.50			M	6.00	13.20	6.10			M
6/9/2005	6.10	17.90	7.27	449.00		M	6.40	20.40	7.80	143.00		M
6/24/2005	6.70	18.20	7.58			M-L	6.40	18.80	8.31			L
7/27/2005	6.30	19.00	5.0 ppm			M	6.00	21.10	5.6 ppm			M-L
8/23/2005	6.60	17.20	5.5 ppm	600.00		M	6.10	19.60	4.4 ppm	78.60		L-
9/5/2005	6.80	19.90	6.2 ppm	628.00	20.00	M	6.30	22.70	4.8 ppm	84.40	81.00	L-
9/23/2005	6.70	19.70		608.00	-9.00	M						
9/28/2005	6.53	16.30	5.0 ppm	602.00	-16.00	M	No Water					
9/29/2006	6.50	16.80		615.00	-3.00	M						
11/14/2005	6.99	14.70	6.0 ppm	558.00	-7.00	M	6.09	14.90	1.6 ppm	86.70	94.00	L
1/10/2006	6.77	8.40	6.8 ppm	518.00	5.00	M	5.98	9.70	8.1 ppm	97.40	123.00	L
2/16/2006	6.87	8.60	7.4 ppm	504.00	11.00	M	5.98	12.00	9.4 ppm	130.10	144.00	L
4/3/2006	6.86	11.40	6.8 ppm	507.00	25.00	M	5.83	10.80	8.2 ppm	78.70	173.00	L-M
4/24/2006	6.77	14.30	6.6 ppm	237.00	33.00	M-H	6.41	14.80	6.0 ppm	65.10	130.00	L-M

Parvin Branch Project Data Comparison

Water Quality Data at Monitoring site PB1 compared to Water Quality Data at ANO740

DATE	PB1						MR/Almond Ave. Reference Site (ANO740) GPS 39.4955 x -75.0763					
	pH	TEMP C	DO mg/L	SC	ORP	FLOW	pH	TEMP C	DO mg/L	SC	ORP	FLOW
9/23/2005							6.64	23.50		95.10	140.00	
9/28/2005	6.00	16.40	5.6 ppm	136.30	116.00	L-						
9/29/2006												
11/14/2005	6.36	16.00	4.8 ppm	219.00	102.00	M	6.54	13.90	8.0 ppm	110.40	111.00	
1/10/2006	6.22	10.00	6.8 ppm	192.60	103.00	M-L	6.18	6.80	9.2 ppm	100.80	145.00	
2/16/2006	6.19	10.50	8.6 ppm	212.00	132.00	M	6.45	9.70	10.5 ppm	111.80	153.00	
4/3/2006	6.18	11.00	8.2 ppm	203.00	151.00	M	6.52	12.30	9.0 ppm	105.00	160.00	
4/24/2006	6.48	14.80	6.1 ppm	96.00	125.00	M-H	6.31	15.20	6.1 ppm	88.10	153.00	2.95"

Parvin Branch Project Data Comparison

Water Quality Data at Monitoring site PB1 compared to Water Quality Data at TB1

DATE	PB1						TB1					
	pH	TEMP C	DO mg/L	SC	ORP	FLOW	pH	TEMP C	DO mg/L	SC	ORP	FLOW
5/26/2005	6.00	13.40	6.30			M	6.00	13.20	6.10			M
6/9/2005	6.40	18.80	8.10	229.00		M	6.40	20.40	7.80	143.00		M
6/24/2005	6.80	19.20	6.80			M-L	6.40	18.80	8.31			L
7/27/2005	6.00	20.20	6.6 ppm			L	6.00	21.10	5.6 ppm			M-L
8/23/2005	6.30	18.70	6.8 ppm	221.00		L	6.10	19.60	4.4 ppm	78.60		L-
9/5/2005	6.30	20.50	5.6 ppm	181.00	138.00	L-	6.30	22.70	4.8 ppm	84.40	81.00	L-
9/23/2005												
9/28/2005	6.00	16.40	5.6 ppm	136.30	116.00	L-	No Water					
9/29/2006												
11/14/2005	6.36	16.00	4.8 ppm	219.00	102.00	M	6.09	14.90	1.6 ppm	86.70	94.00	L
1/10/2006	6.22	10.00	6.8 ppm	192.60	103.00	M-L	5.98	9.70	8.1 ppm	97.40	123.00	L
2/16/2006	6.19	10.50	8.6 ppm	212.00	132.00	M	5.98	12.00	9.4 ppm	130.10	144.00	L
4/3/2006	6.18	11.00	8.2 ppm	203.00	151.00	M	5.83	10.80	8.2 ppm	78.70	173.00	L-M
4/24/2006	6.48	14.80	6.1 ppm	96.00	125.00	M-H	6.41	14.80	6.0 ppm	65.10	130.00	L-M