

Water-Data Report 2009

395643074295201 Local number 051402- Pemberton PW2 MW9

 Northern Atlantic Coastal Plain aquifer system
 Cohansey Sand-Kirkwood Formation

Burlington County, NJ

LOCATION.--Lat 39°56'43", long 74°29'52" referenced to North American Datum of 1927, Pemberton Township, Burlington County, NJ, Hydrologic Unit 02040202.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 10 ft. Upper casing diameter 2 in; top of first opening 5 ft, bottom of last opening 10 ft.

DATUM.--Land-surface datum is 100 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--Water years 1999, 2004, and 2009.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 19. Agricultural Land Use Indicator.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the New Jersey Department of Environmental Protection.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 13

[Remark codes: <, less than; E, estimated.]

Date	Time	Baro-metric pressure, mm Hg (00025)	Depth to water level, feet (LSD 72019)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	Flow rate, instantaneous (00059)	pH, water, unfltrd (00400)	Specif-ic conductance, field, std units (00095)	Turbdty white light, 90+/30 (NTRU 63676)	Pump or flow period, det ang (deg C 00010)	Dis-solved solids, prior to sampling, corrcrd (water, deg C 00010) minutes (72004)	Dis-solved solids, dried @ 180degC (wat flt mg/L 70300)	Dis-solved solids, sum of constituents, wat flt mg/L (70301)
Apr 20...	1000	760	4.00	.5	4	.50	4.9	40	9.2	2.8	40	60	E22

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 13

[Remark codes: <, less than; E, estimated.]

Date	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium, water, filtrd, mg/L (00915)	Magnes-ium, water, filtrd, mg/L (00925)	Potas-sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	Alka-linity, wat flt inf tit (39086)	Bicar-bonate, wat flt infl pt (00453)	Chlor-ide, titr., water, field, mg/L (00940)	Fluor-ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L SiO2 (00955)	Sulfate, water, filtrd, mg/L (00945)	Ammonia + org-N, water, filtrd, mg/L as N (00623)	Ammonia water, filtrd, mg/L as N (00608)
Apr 20...	1	.27	.188	1.09	4.12	2	3	6.19	<.08	4.7	1.30	1.2	.597

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 13

[Remark codes: <, less than; E, estimated.]

Date	Nitrate + nitrite water, filtrd, mg/L as N (00631)	Nitrite water, filtrd, mg/L as N (00613)	Ortho- phosphate, water, filtrd, mg/L as P (00671)	Alum- inum, water, filtrd, μg/L (01106)	Barium, water, filtrd, μg/L (01005)	Beryll- ium, water, filtrd, μg/L (01010)	Cadmium, water, filtrd, μg/L (01025)	Chrom- ium, water, filtrd, μg/L (01030)	Copper, water, filtrd, μg/L (01040)	Iron, water, filtrd, μg/L (01046)	Lead, water, filtrd, μg/L (01049)	Mangan- ese, water, filtrd, μg/L (01056)	Mercury water, filtrd, μg/L (71890)
Apr 20...	<.04	.004	.027	588	3	<.02	<.02	1.3	E.61	852	.71	4.2	<.010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 13

[Remark codes: <, less than; E, estimated.]

Date	Nickel, water, filtrd, μg/L (01065)	Zinc, water, filtrd, μg/L (01090)	Antimony, water, filtrd, μg/L (01095)	Arsenic, water, filtrd, μg/L (01000)	Boron, water, filtrd, μg/L (01020)	Selen- ium, water, filtrd, μg/L (01145)	1,2-Di- chloro- ethane, water, unfltrd (32103)	1,2-Di- chloro- propane, water, unfltrd (34541)	1,4-Di- chloro- benzene, water, unfltrd (34571)	1-Naph- thol, water, fltrd (49295)	2,6-Di- ethyl- aniline, water, fltrd (82660)	2-Chloro- -2',6'- diethyl acetanilide, water, fltrd (61618)	CIAT, water, μg/L (04040)
Apr 20...	.66	3.8	.06	.70	19	.18	<.2	<.1	<.1	<.04	<.006	<.010	<.014

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 13

[Remark codes: <, less than; E, estimated.]

Date	2-Ethyl- 6-methyl- aniline wat flt μg/L (61620)	3,4-Di- chloro- aniline water, filtrd, μg/L (61625)	3,5-Di- chloro- aniline water, filtrd, μg/L (61627)	4-Chloro- 2-methyl- phenol, water, wat flt μg/L (61633)	Aceto- chlor, water, filtrd, μg/L (49260)	Ala- chlor, water, filtrd, μg/L (46342)	alpha- Endo- sulfan, water, filtrd, μg/L (34362)	Atra- zine, water, filtrd, μg/L (39632)	Azin- phos- methyl, water, fltrd (61635)	Azin- phos- methyl, water, fltrd (82686)	Ben- flur- alin, water, fltrd (82673)	Car- baryl, water, fltrd (82680)	Carbo- furan, water, fltrd (82674)
Apr 20...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	<.007	<.04	<.120	<.014	E.039	<.060

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 13

[Remark codes: <, less than; E, estimated.]

Date	Chlor-pyrifos oxon, water, fltrd, μg/L (61636)	Chlor-pyrifos water, fltrd, μg/L (38933)	cis-Per-methrin water 0.7μ GF μg/L (82687)	cis-Propi-conazole, water, fltrd, μg/L (79846)	Cyana-zine, water, fltrd, μg/L (04041)	Cyflu-thrin, water, fltrd, μg/L (61585)	Cyper-methrin water, fltrd, μg/L (61586)	DCPA, water, fltrd, μg/L (82682)	Desulf-inyl-fipro-nil, water, fltrd, μg/L (62169)	Desulf-inyl-fipro-nil, water, fltrd, μg/L (62170)	Diazi-non, water, fltrd, μg/L (39572)	Di-chlor-vos, water, fltrd, μg/L (38775)	Dicro-tophos, water, fltrd, μg/L (38454)
Apr 20...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 7 of 13

[Remark codes: <, less than; E, estimated.]

Date	Diel-drin, water, fltrd, μg/L (39381)	Dimeth-oate, water, fltrd, 0.7μ GF μg/L (82662)	Disulf-oton sulfone fltrd, μg/L (61640)	Disul-foton, water, fltrd, 0.7μ GF μg/L (82677)	Endo-sulfan sulfate water, fltrd, μg/L (61590)	EPTC, water, fltrd, 0.7μ GF μg/L (82668)	Ethion monoxon water, fltrd, μg/L (61644)	Ethion, water, fltrd, μg/L (82346)	Etho-prop. water, fltrd, 0.7μ GF μg/L (82672)	Fenami-phos sulfone water, fltrd, μg/L (61645)	Fenami-phos sulfide water, fltrd, μg/L (61646)	Fipro-nil phos, water, fltrd, μg/L (61591)	
Apr 20...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 8 of 13

[Remark codes: <, less than; E, estimated.]

Date	Fipro-nil sulfone water, fltrd, μg/L (62168)	Fipro-nil, water, fltrd, μg/L (62166)	Fonofos water, fltrd, μg/L (04095)	Hexa-zinone, water, fltrd, μg/L (04025)	Ipro-dione, water, fltrd, μg/L (61593)	Isofen-phos, water, fltrd, μg/L (61594)	Cyhalo-thrin, water, fltrd, μg/L (61595)	Mala-oxon, water, fltrd, μg/L (61652)	Mala-thion, water, fltrd, μg/L (39532)	Metaxyl, water, fltrd, μg/L (61596)	Methid-athion, water, fltrd, μg/L (61598)	Methyl-paraoxon, water, fltrd, μg/L (61664)	Methyl-para-thion, water, fltrd, 0.7μ GF μg/L (82667)
Apr 20...	<.024	<.040	<.010	.020	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 9 of 13

[Remark codes: <, less than; E, estimated.]

Date	Metola-	Metri-	Moli-	Oxy-	Pendi-								
	chlor,	buzin,	nate,	fluor-	meth-	Phorate	Phorate	Phosmet	Phosmet	Prome-	Prome-	panil,	water,
	water,	water,	Myclo-	fen,	alin,	oxon,	water,	oxon,	water,	ton,	tryn,	water,	filtrd
	filtrd,	filtrd,	butanil	filtrd,	water,	filtrd	water,	filtrd	water,	filtrd,	filtrd,	water,	0.7μ GF
	μg/L												
Apr 20...	(39415)	(82630)	(82671)	(61599)	(61600)	(82683)	(61666)	(82664)	(61668)	(61601)	(04037)	(04036)	(82679)

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 10 of 13

[Remark codes: <, less than; E, estimated.]

Date	Propar-	Propy-	Sima-	Tebu-	Ter-									Tri-
	gite,	zamide,	zine,	thiuron	Teflu-	bufos	Terbu-	Ter-	Thio-	trans-	Propi-	Tribu-	flur-	Tri-
	water,	water,	water,	water,	thrin,	oxon	fos,	buthyl-	bencarb	zole,	con-	phos,	al, Tri-	chloro-
	filtrd	filtrd	filtrd	filtrd	water,	sulfone	water,	water,	water,	water,	zole,	water,	filtrd	ethane,
	0.7μ GF	0.7μ GF	0.7μ GF	0.7μ GF	water,	0.7μ GF	water,							
	μg/L	unfltrd												
Apr 20...	(82685)	(82676)	(04035)	(82670)	(61606)	(61674)	(61675)	(82675)	(04022)	(82681)	(79847)	(61610)	(82661)	(34506)

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 11 of 13

[Remark codes: <, less than; E, estimated.]

Date	CFC-113	1,1-Di-	1,1-Di-	1,2-Di-	1,3-Di-	Bromo-	cis-	Di-	Di-	Di-	Di-	Di-	
	water,	chloro-	chloro-	chloro-	chloro-	di-	1,2-Di-	bromo-	chloro-	chloro-	chloro-	ethyl	
	unfltrd	ethane,	ethene,	benzene	benzene	chloro-	chloro-	chloro-	chloro-	chloro-	chloro-	ether,	
	μg/L	μg/L	μg/L	μg/L	μg/L	chloro-	chloro-	chloro-	chloro-	chloro-	chloro-	water,	
Apr 20...	(77652)	(34496)	(34501)	(34536)	(34566)	(34030)	(32101)	(34301)	(77093)	(32105)	(34668)	(34423)	(81576)

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
 Part 12 of 13
 [Remark codes: <, less than; E, estimated.]

Date	Methyl												trans- 1,2-Di- chloro- ethene,
	Diiso- propyl ether, water, unfltrd	Ethyl- benzene water, unfltrd	Methyl t-butyl ether, water, unfltrd	tert- pentyl ether, water, unfltrd	meta- + para- Xylene, water, unfltrd	Organic carbon, water, unfltrd	o- Xylene, water, unfltrd	Styrene water, unfltrd	t-Butyl ethyl ether, water, unfltrd	Tetra- chloro- ethene, water, unfltrd	Tetra- chloro- methane water, unfltrd	Toluene water, unfltrd	
µg/L (81577)	µg/L (34371)	µg/L (78032)	µg/L (50005)	µg/L (85795)	mg/L (00681)	µg/L (77135)	µg/L (77128)	µg/L (50004)	µg/L (34475)	µg/L (32102)	µg/L (34010)	µg/L (34546)	
Apr 20...	<.2	<.1	<.2	<.2	<.2	18.8	<.1	<.1	<.1	<.1	<.2	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
 Part 13 of 13
 [Remark codes: <, less than; E, estimated.]

Date	Tri-									Beta radioac
	Tri- bromo- methane water, unfltrd	Tri- chloro- ethene, water, unfltrd	chloro- fluoro- methane water, unfltrd	Tri- chloro- methane water, unfltrd	Vinyl chlor- ide, water, unfltrd	Alpha radioac 30 day, wat flt	Alpha radioac 72 hr, wat flt	Beta radioac 30 day, wat flt	Beta radioac 72 hr, wat flt	
µg/L (32104)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (32106)	pCi/L (39175)	pCi/L (62639)	pCi/L (62636)	pCi/L (62645)	pCi/L (62642)	
Apr 20...	<.2	<.1	<.2	<.1	<.2	2.3	2.4	.9	1.6	