

Water-Data Report 2009

392820075122601 Local number 111130- Carls Corner MW39

 Northern Atlantic Coastal Plain aquifer system
 Cohansey Sand-Kirkwood Formation

Cumberland County, NJ

LOCATION.--Lat 39°28'20", long 75°12'26" referenced to North American Datum of 1927, Upper Deerfield Twp, Cumberland County, NJ, Hydrologic Unit 02040206.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 42 ft. Upper casing diameter 2 in; top of first opening 37 ft, bottom of last opening 42 ft.

DATUM.--Land-surface datum is 111 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 17. Agricultural Land Use Indicator.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the New Jersey Geological Survey.

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

Part 1 of 14

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

Date	Time	Medium name	Sample type	Baro-metric pressure, mm Hg (00025)	Depth to water level, feet LSD (72019)	Flow rate, instantaneous gal/min (00059)	water, unfiltrd field, std units (00400)	pH, water, unfiltrd field, std units (00400)	Specif-ic conductance, wat unf μS/cm @ 25 degC (00095)
Jun 24...	0945	QC sample - Artificial	Ambient Blank	--	--	--	--	--	--
Jun 24...	1000	Ground water	Regular	762	32.09	.50	4.5	504	

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

Part 2 of 14

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

Date	Turbidity white light, det ang 90+/-30 water, corrcrd deg C (00010)	Pump or flow period prior to sam- pling, wat flt minutes (63676)	Dis- solved solids dried @ 180degC water, wat flt mg/L (72004)	Hard- ness, CaCO3 mg/L (00900)	Magnes- ium, mg/L (00915)	Potas- sium, mg/L (00925)	Sodium, water, filtrd, mg/L (00935)	Alka- linity, water, inf tit field, mg/L as CaCO3 (00930)	Chlor- ide, water, filtrd, mg/L (39086)	Fluor- ide, water, filtrd, mg/L (00940)	Silica, water, filtrd, mg/L as SiO2 (00955)
Jun 24...	--	--	--	--	--	--	--	--	--	--	--
Jun 24...	16.2	1.8	40	328	180	38.1	19.8	5.68	3.49	<1	28.6

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 14

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

Date	Ammonia		Nitrate		Ortho-phosphate		Alum- inum, water, fltrd, mg/L (00945)	Barium, water, fltrd, mg/L (01106)	Beryll- ium, water, fltrd, mg/L (01010)	Cadmium water, fltrd, mg/L (01025)	Chrom- ium, water, fltrd, mg/L (01030)	Copper, water, fltrd, mg/L (01040)	Iron, water, fltrd, mg/L (01046)
	+ org-N, water, fltrd, mg/L (00623)	Ammonia water, fltrd, mg/L (00608)	+ nitrite water, fltrd, mg/L (00631)	Nitrite water, fltrd, mg/L (00613)	phosphate, water, fltrd, mg/L (00671)								
Jun													
24...	--	--	--	--	--	--		--	--	--	--	--	--
24...	24.3	.17	<.020	38.3	<.002	E.005	1,230	401	.78	.25	E.07	1.4	<4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 14

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

Date	Mangan-ese,			Anti-			Selen-ium, water, unfltrd, μg/L (01145)	1,2-Di-chloro-ethane, water, unfltrd, μg/L (32103)	1,2-Di-chloro-propane, water, unfltrd, μg/L (34541)	1,4-Di-chloro-benzene, water, unfltrd, μg/L (34571)	1-Naph-thol, water, fltrd, μg/L (49295)		
	Lead, water, fltrd, μg/L (01049)	Mercury water, fltrd, μg/L (71890)	Nickel, water, fltrd, μg/L (01065)	Zinc, water, fltrd, μg/L (01090)	mony, water, fltrd, μg/L (01095)	Arsenic water, fltrd, μg/L (01000)							
Jun													
24...	--	--	--	--	--	--	--	--	<.2	<.1	<.1	--	
24...	.83	100	.040	7.8	7.1	<.04	.31	34	1.5	<.2	<.1	<.1	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 14

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

Date	2,6-Di-ethyl-aniline water, fltrd, μg/L (82660)	2-Chloro-2'-6'-diethyl acetanilide water, fltrd, μg/L (61618)	2-Ethyl-6-chloro-3,4-Di-methyl-aniline water, fltrd, μg/L (04040)	3,5-Di-methyl-2-Chloro-4-phenol water, fltrd, μg/L (61620)	Aceto-chlor, water, fltrd, μg/L (61625)	Alpha-Endosulfan, water, fltrd, μg/L (61627)	Atrazine, water, fltrd, μg/L (49260)	Azinophosphomethyl oxon, water, fltrd, μg/L (46342)	Azinophosphomethyl water, fltrd, μg/L (34362)	Azinophosphomethyl water, fltrd, μg/L (39632)	Azinophosphomethyl water, fltrd, μg/L (61635)	Azinophosphomethyl water, fltrd, μg/L (82686)	
	0.7 μ GF wat flt	CIAT, water, fltrd, μg/L (61620)	methyl-aniline water, fltrd, μg/L (61625)	3,5-Di-methyl-2-Chloro-4-phenol water, fltrd, μg/L (61633)	Aceto-chlor, water, fltrd, μg/L (49260)	Alpha-Endosulfan, water, fltrd, μg/L (46342)	Atrazine, water, fltrd, μg/L (34362)	Azinophosphomethyl oxon, water, fltrd, μg/L (39632)	Azinophosphomethyl water, fltrd, μg/L (61635)	Azinophosphomethyl water, fltrd, μg/L (82686)			
Jun													
24...	--	--	--	--	--	--	--	--	--	--	--	--	
24...	<.006	<.010	E.061	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.017	<.04	<.120

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 14

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

Date	Ben-flur-alin, water, 0.7µ GF	Car-baryl, water, 0.7µ GF	Carbo-furan, water, 0.7µ GF	Chlor-pyrifos oxon, water, filtrd,	cis-Chlor-pyrifos Per-methrin water, filtrd,	cis-Propi-conazole, water, filtrd,	Cyana-zine, water, filtrd,	Cyflu-thrin, water, filtrd,	Cyper-methrin water, filtrd,	DCPA, water, 0.7µ GF	Desulf-inyl-fipro-nil, water, filtrd,	Desulf-inyl-fipro-nil, water, filtrd,	
	µg/L (82673)	µg/L (82680)	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61586)	µg/L (82682)	µg/L (62169)	µg/L (62170)
Jun													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.014	<.200	<.060	<.05	<.010	<.014	<.007	<.040	<.016	<.020	<.006	<.029	<.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 7 of 14

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

Date	Diazi-non, water, filtrd,	Di-chlor-vos, water, filtrd,	Dicro-tophos, water, filtrd,	Diel-drin, water, filtrd,	Dimeth-oate, water, 0.7µ GF	Disulf-oton, sulfone water, filtrd	Disul-foton, water, 0.7µ GF	Endo-sulfan, sulfate water, filtrd	EPTC, water, 0.7µ GF	Ethion, monoxon water, filtrd,	Ethion, water, filtrd,	Etho-prop, water, 0.7µ GF	Fenami-phos sulfone water, filtrd,
	µg/L (39572)	µg/L (38775)	µg/L (38454)	µg/L (39381)	µg/L (82662)	µg/L (61640)	µg/L (82677)	µg/L (61590)	µg/L (82668)	µg/L (61644)	µg/L (82346)	µg/L (82672)	µg/L (61645)
Jun													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.005	<.07	<.08	<.009	<.013	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 8 of 14

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

Date	Fenami-phos sulfide, water, filtrd,	Fenami-phos, water, filtrd,	Fipro-nil, sulfone water, filtrd,	Fipro-nil, water, filtrd,	Fonofos, water, filtrd,	Hexa-zinone, water, filtrd,	Ipro-dione, water, filtrd,	Isofen-phos, water, filtrd,	Lambda-Cyhalothrin, water, filtrd,	Mala-oxon, water, filtrd,	Mala-thion, water, filtrd,	Metaxyl, water, filtrd,	
	µg/L (61646)	µg/L (61591)	µg/L (62167)	µg/L (62168)	µg/L (62166)	µg/L (04095)	µg/L (04025)	µg/L (61593)	µg/L (61594)	µg/L (61595)	µg/L (61652)	µg/L (39532)	µg/L (61596)
Jun													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.08	<.03	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	E.837

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 9 of 14

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

Date	Methid- athion, water, fltrd, μg/L (61598)	Methyl para- oxon, water, fltrd, μg/L (61664)	Methyl para- thion, water, fltrd, 0.7 μ GF (82667)	Metola- chlor, water, fltrd, μg/L (39415)	Metri- buzin, water, fltrd, μg/L (82630)	Moli- nate, water, fltrd, 0.7 μ GF (82671)	Myclo- butanil, water, fltrd, μg/L (61599)	Oxy- fluor- fen, water, fltrd, 0.7 μ GF (61600)	Pendi- meth- alin, water, fltrd, μg/L (82683)	Phorate oxon, water, fltrd, 0.7 μ GF (61666)	Phorate oxon, water, fltrd, μg/L (82664)	Phosmet oxon, water, fltrd, μg/L (61668)	Phosmet oxon, water, fltrd, μg/L (61601)
Jun													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.006	<.01	<.008	.035	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 10 of 14

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

Date	Prome- ton, water, fltrd, μg/L (04037)	Prome- tryn, water, fltrd, 0.7 μ GF (04036)	Pro- panil, water, fltrd, 0.7 μ GF (82679)	Propar- gite, water, fltrd, 0.7 μ GF (82685)	Propy- zamide, water, fltrd, 0.7 μ GF (82676)	Tebu- zamine, water, fltrd, 0.7 μ GF (04035)	Sima- zine, water, fltrd, 0.7 μ GF (82670)	Teflu- thrin, water, fltrd, 0.7 μ GF (61606)	Ter- bufos oxon sulfone water, fltrd, 0.7 μ GF (61674)	Terbu- fos, water, fltrd, 0.7 μ GF (82675)	Ter- butyl- azine, water, fltrd, 0.7 μ GF (04022)	Thio- bencarb water, fltrd, 0.7 μ GF (82681)	trans- Propi- conazole, water, fltrd, μg/L (79847)
Jun													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.01	<.006	<.014	<.02	<.004	<.010	<.02	<.010	<.04	<.02	<.01	<.016	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 11 of 14

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

Date	Tri- flur- alin, water, fltrd, 0.7 μ GF (61610)	Tri- chloro- ethane, water, unfltrd (82661)	1,1,1- CFC-113 (34506)	1,1-Di- chloro- ethane, water, unfltrd (77652)	1,1-Di- chloro- ethene, water, unfltrd (34496)	1,2-Di- chloro- ethene, benzene, water, unfltrd (34501)	1,2-Di- chloro- ethene, benzene, water, unfltrd (34536)	1,3-Di- chloro- benzene, benzene, water, unfltrd (34566)	Benzene (34030)	Bromo- di- chloro- methane (32101)	Chloro- benzene (34301)	cis- 1,2-Di- chloro- ethene, water, unfltrd (77093)	Di- bromo- methane (32105)	
Jun														
24...	--	--	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.2
24...	<.035	<.012	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 12 of 14

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

Date	Di-chloro-difluoromethane wat unf	Di-chloro-methane water, unfltrd	Di-ethyl ether, water, unfltrd	Diisopropyl ether, water, unfltrd	Ethyl-benzene water, unfltrd	Methyl-ether, water, unfltrd	tert-pentyl water, unfltrd	meta-+ para-Xylene, water, unfltrd	Organic-carbon, water, filtrd	o-Xylene, water, unfltrd	Styrene water, unfltrd	t-Butyl-ethyl ether, unfltrd	Tetra-chloro-ethene, water, unfltrd
	µg/L (34668)	µg/L (34423)	µg/L (81576)	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)
Jun													
24...	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.2	--	<.1	<.1	<.1	<.1
24...	<.2	<.2	<.2	<.2	<.1	<.2	<.2	E.2	.8	<.1	<.1	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 13 of 14

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

Date	Tetra-chloro-methane water, unfltrd	Toluene water, unfltrd	trans-1,2-Di-chloro-ethene, water, unfltrd	Tri-bromo-methane water, unfltrd	Tri-chloro-ethene, water, unfltrd	Tri-fluoro-methane water, unfltrd	Vinyl-chloride, water, unfltrd	Alpha-radioac 30 day, Th-230, pCi/L (62639)	Alpha-radioac 72 hr, Th-230, pCi/L (62636)	Beta-radioac 30 day, Cs-137, pCi/L (62645)	Beta-radioac 72 hr, Cs-137, pCi/L (62642)	
	µg/L (32102)	µg/L (34010)	µg/L (34546)	µg/L (32104)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)	µg/L (62639)	µg/L (62636)	µg/L (62645)	µg/L (62642)
Jun												
24...	<.2	<.1	<.1	<.2	<.1	<.2	<.1	<.2	--	--	--	--
24...	<.2	.1	<.1	<.2	<.1	<.2	<.1	<.2	17	82	18.1	27.5