

Water-Data Report 2010

391844074451501 Local number 011400- Macnamara MW45

 Northern Atlantic Coastal Plain aquifer system
 Cohansey Sand-Kirkwood Formation

Atlantic County, NJ

LOCATION.--Lat 39°18'44", long 74°45'15" referenced to North American Datum of 1927, Corbin City, Atlantic County, NJ, Hydrologic Unit 02040302.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 13.5 ft. Upper casing diameter 2 in; top of first opening 8.5 ft, bottom of last opening 13.5 ft.

DATUM.--Land-surface datum is 7 ft above National Geodetic Vertical Datum of 1929. Measuring point: TOP OF 2 INCH PVC CASING AT BLACK MARK, 2.05 ft above land-surface datum, May 19, 2005, to present.

PERIOD OF RECORD.--Water years 2000, 2005, and 2010.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 15. Undeveloped 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 2009 TO SEPTEMBER 2010**

Part 1 of 9

 [%; percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Depth to water level, ft below land surface (72019)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	Flow rate, instantaneous, gallons per minute (00059)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)
04-14-2010	1000	778	3.00	1.1	10	.50	4.4	55	10.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 9

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Pump or flow period prior to sampling, minutes	Dissolved solids dried at 180 °C, water, filtered, mg/L	Dissolved solids, sum of constituents, milligrams per liter	Hardness, water, mg/L as CaCO ₃	Calcium, water, mg/L as CaCO ₃	Magnesium, water, mg/L	Potassium, water, mg/L	Sodium, water, mg/L
	(72004)	(70300)	(70301)	(00900)	(00915)	(00925)	(00935)	(00930)	
04-14-2010	.3	45	35	< 30	2.24	.26	.384	.11	2.67

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 9

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Alkalinity, water, filtered, inflection- point, incremental titration method, field, mg/L as CaCO ₃ (39086)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)
	(39086)	(00940)	(00950)	(00955)	(00945)	(00623)	(00608)	(00631)	(00613)
04-14-2010	< 1	4.55	E .07	8.1	12.4	< .10	< .020	< .04	< .002

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 9

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Orthophos- phate, water, filtered, mg/L as P (00671)	Aluminum, water, filtered, µg/L (01106)	Barium, water, filtered, µg/L (01005)	Beryllium, water, filtered, µg/L (01010)	Cadmium, water, filtered, µg/L (01025)	Chromium, water, filtered, µg/L (01030)	Copper, water, filtered, µg/L (01040)	Iron, water, filtered, µg/L (01046)	Lead, water, filtered, µg/L (01049)	Manga- nese, water, filtered, µg/L (01056)
	(00671)	(01106)	(01005)	(01010)	(01025)	(01030)	(01040)	(01046)	(01049)	(01056)
04-14-2010	E .005	1,050	28	.50	.02	E .09	< 1.0	E 5	.16	4.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 of 9

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Mercury, water, filtered,	Nickel, water, filtered,	Zinc, water, filtered,	Antimony, water, filtered,	Arsenic, water, filtered,	Boron, water, filtered,	Selenium, water, filtered,	1,2-Di chloro ethane, water, unfiltered,	1,2- Dichloro propane, water, unfiltered,	1,4- Dichloro benzene, water, unfiltered,
	µg/L (71890)	µg/L (01065)	µg/L (01090)	µg/L (01095)	µg/L (01000)	µg/L (01020)	µg/L (01145)	recover able, (32103)	recover able, (34541)	recover able, (34571)
04-14-2010	<.10	1.4	4.2	<.05	.22	18	.07	<.2	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 6 of 9

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	1,1,2-Tri chloro-						Bromo dichloro methane, water, unfiltered,			Chloro benzene, water, unfiltered,	
	1,1,1-Tri chloro ethane, water, unfiltered,	1,2,2- trifluoro ethane, water, unfiltered,	1,1-Di chloro ethane, water, unfiltered,	1,1-Di chloro ethene, water, unfiltered,	1,2- Dichloro benzene, water, unfiltered,	1,3- Dichloro benzene, water, unfiltered,	Benzene, water, unfiltered,	recover able, (34030)	recover able, (32101)	recover able, (34301)	recover able, (77093)
04-14-2010	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 7 of 9

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Dibromo chloro methane, water, unfiltered,	Di chloro difluoro methane, water, unfiltered,	Dichloro methane, water, unfiltered,	Diethyl ether, water, unfiltered,	Di iso propyl ether, water, unfiltered,	Ethyl benzene, water, unfiltered,	Methyl tert-butyl ether, water, unfiltered,	Methyl tert-pentyl ether, water, unfiltered,	m-Xylene plus p- xylene, water, unfiltered,	Organic carbon, water, filtered,	
	µg/L (32105)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (81577)	µg/L (34371)	µg/L (78032)	µg/L (50005)	µg/L (85795)	mg/L (00681)
04-14-2010	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.2	<.2	1.2

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WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 8 of 9

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Date	o-Xylene, water, unfiltered, recover able, µg/L (77135)	Styrene, water, unfiltered, recover able, µg/L (77128)	ethyl ether, water, unfiltered, recover able, µg/L (50004)	tert-Butyl chloro ethene, water, unfiltered, recover able, µg/L (34475)	Tetra chloro methane, water, unfiltered, recover able, µg/L (32102)	Toluene, water, unfiltered, recover able, µg/L (34010)	trans-1,2- Di chloro ethene, water, unfiltered, recover able, µg/L (34546)	Tri bromo methane, water, unfiltered, recover able, µg/L (32104)	Tri chloro ethene, water, unfiltered, recover able, µg/L (39180)	Tri chloro fluoro methane, water, unfiltered, recover able, µg/L (34488)	
04-14-2010	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.2	<.1	<.2

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Part 9 of 9

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Date	Tri chloro methane, water, unfiltered, recover able, µg/L (32106)	Vinyl chloride, water, unfiltered, recover able, µg/L (39175)	Alpha radioactivi ty, 30-day Th-230 recover able, µg/L (39175)	Alpha radioactivi ty, 72-hour Th-230 curve, picocuries per liter (62639)	Beta radioactivi ty, 30-day Cs-137 curve, picocuries per liter (62636)	Beta radioactivi ty, 72-hour Cs-137 curve, picocuries per liter (62642)
04-14-2010	.2	<.2	1.8	3.8	.8	1.6