

# Ambient-Metals of New Jersey, Series DGS05-2, Edition 20140114

Metadata also available as

## Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

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### *Identification\_Information:*

*Citation:*

*Citation\_Information:*

*Originator:*

New Jersey Department of Environmental Protection (NJDEP), NJ Geological and Water Survey (NJGWS)

*Publication\_Date:* 20040315

*Title:* Ambient-Metals of New Jersey, Series DGS05-2, Edition 20140114

*Edition:* 20140114

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Series\_Information:*

*Series\_Name:* Digital Geodata Series

*Issue\_Identification:* DGS05-2

*Publication\_Information:*

*Publication\_Place:* Trenton, NJ

*Publisher:* New Jersey Department of Environmental Protection (NJDEP)

*Online\_Linkage:* <<http://www.state.nj.us/dep/njgs/geodata/index.htm>>

*Online\_Linkage:* <<http://www.nj.gov/dep/gis/listall.html>>

*Description:*

*Abstract:*

Trace elements are inorganic chemicals that generally occur at concentrations less than 1 mg/L in water. Metals and metalloids are classified as trace elements. They occur naturally in ground water but can also be introduced or

mobilized by man's activities. Because of the toxic nature of some trace elements, water managers and scientists across the United States rate trace elements among the highest-priority issues for the National Water-Quality Assessment (NAWQA) program. The trace elements analyzed for in the Ambient Ground Water Quality Monitoring Network include: Arsenic Dissolved as As, Barium Dissolved as Ba, Cadmium Dissolved as Cd, Chromium Dissolved as Cr, Copper Dissolved as Cu, Iron Dissolved as Fe, Lead Dissolved as Pb, Manganese Dissolved as Mn, Silver Dissolved as Ag, Zinc Dissolved as Zn, Selenium Dissolved as Se, Mercury Dissolved as Hg, Beryllium Dissolved as Be, Thallium Dissolved as Tl, Antimony Dissolved as Sb, and Aluminum Dissolved as Al. Concentrations are reported in micrograms per liter, ug/l. This update (2013) includes the data from the completed second sampling cycle of all 150 wells which comprise the redesigned NJAGWQMN.

*Purpose:*

Ground-water quality data from the Ambient Ground Water Quality Monitoring Network was and is being collected to increase our understanding of water quality as it relates to the geologic character of various aquifers and non-point source impacts from land use. This data set was established to allow all interested parties easy access to the network data in a visual format.

*Supplemental Information:*

New Jersey's Ambient Ground-Water Quality Network (AGWQN) is a cooperative program between the New Jersey Department of Environmental Protection (NJDEP) and United States Geological Survey (USGS) that started in 1983 when it was discovered that the ambient ground-water quality data was needed, yet lacking, in New Jersey. Since its inception, over 500 existing and installed wells have been sampled. Historically, chemical and physical parameters analyzed included: 1) Field parameters such as pH and specific conductance, 2) Major ions, 3) Metals, 4) Nutrients, 5) Radioactivity, and 6) Volatile organic compounds. In the redesigned shallow-well network described below pesticides have also been added. During the first few years an intensive ground-water survey was conducted in a northern valley-fill aquifer system (> 50 wells, data not in this dataset) and some regional sampling was conducted in the coastal plain of southern New Jersey. In 1986 a lack of data in the northern bedrock portion of the state was recognized and finalized goals for the network were established. Those goals were: 1) Determine chemical ranges of ground-water constituents within and between rock types, 2) Determine geochemical reasons for the differences observed, and 3) Determine long term trends in ambient water quality by resampling using an 8 to 20 year cycle.

-99999 implies the constituent was detected but the concentration could not be quantified or was estimated below the reporting limit and the confidence in the concentration determination is not acceptable for standard reporting. Note: an

estimated value can also be designated for other reasons. See the annual USGS Water-Data Reports NJ-(year of interest) for the estimated values and an explanation. The actual estimated value is not shown in this database. A zero (0) implies no sampling was performed for that parameter.

*Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 1987

*Ending\_Date:* 2013

*Currentness\_Reference:* ground condition

*Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* As needed

*Spatial\_Domain:*

*Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -75.593271

*East\_Bounding\_Coordinate:* -73.890308

*North\_Bounding\_Coordinate:* 41.357794

*South\_Bounding\_Coordinate:* 38.849424

*Keywords:*

*Theme:*

*Theme\_Keyword\_Thesaurus:* ISO 19115 Topic Category

*Theme\_Keyword:* environment

*Theme:*

*Theme\_Keyword\_Thesaurus:* EPA GIS Keyword Thesaurus

*Theme\_Keyword:* Ambient

*Theme\_Keyword:* Ground Water

*Theme\_Keyword:* Land Use

*Theme\_Keyword:* Metal

*Theme\_Keyword:* NJDEP

*Theme\_Keyword:* NJGS

*Theme\_Keyword:* Water

*Theme\_Keyword:* Well

*Theme:*

*Theme\_Keyword\_Thesaurus:* User

*Theme\_Keyword:* NJDEP

*Theme\_Keyword:* Water Quality Monitoring Locations

*Place:*

*Place\_Keyword\_Thesaurus:* None

*Place\_Keyword:* State of New Jersey

*Access\_Constraints:* None

*Use\_Constraints:*

New Jersey Department of Environmental Protection (NJDEP)

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1. Digital data received from the NJDEP are to be used solely for internal purposes in the conduct of daily affairs. 2. The data are provided, as is, without warranty of any kind and the user is responsible for understanding the accuracy limitations of all digital data layers provided herein, as documented in the associated metadata file. Any reproduction or manipulation of the above data must ensure that the coordinate reference system remains intact and any data manipulation documented in the metadata by the user. NJDEP assumes no responsibility for any reproduction or data manipulation done by the user. 3. Digital data received from the NJDEP may not be reproduced or redistributed for use by anyone without first obtaining permission from the NJDEP via email [gisnet@dep.state.nj.us](mailto:gisnet@dep.state.nj.us). This clause is not intended to restrict distribution of printed mapped information produced from the digital data. 4. Any maps, publications, reports, or other documents produced as a result of this project that utilize NJDEP digital data will credit the NJDEP's Geographic Information System (GIS) as the source of the data with the following credit/disclaimer: "This (map/publication/report) was developed using New Jersey Department of Environmental Protection Geographic Information System digital data, but this secondary product has not been verified by NJDEP and is not state-authorized." 5. Users shall require any independent contractor, hired to undertake work that will utilize digital data obtained from the NJDEP, to agree not to use, reproduce, or redistribute NJDEP GIS data for any purpose other than the specified contractual work. All copies of NJDEP GIS data utilized by an independent contractor will be required to be returned to the original user at the close of such contractual work. Users hereby agree to abide by the use and reproduction conditions specified above and agree to hold any independent contractor to the same terms. By using data provided herein, the user acknowledges that terms and conditions have been read and that the user is bound by these criteria.

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Bousenberry, Raymond

*Contact\_Organization:* NJDEP, NJGWS

*Contact\_Position:* Research Scientist 2

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 29 Arctic Pkwy, P.O. Box 420, Mail Code: 29-01

*City:* Trenton

*State\_or\_Province:* NJ

*Postal\_Code:* 08625-0420

*Contact\_Voice\_Telephone:* 609-984-6587

*Contact\_Electronic\_Mail\_Address:* Raymond.Bousenberry@dep.nj.gov

*Contact\_Instructions:* via email

*Security\_Information:*

*Security\_Classification\_System:* FIPS Pub 199

*Security\_Classification:* No Confidentiality

*Security\_Handling\_Description:* Standard Technical Controls

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*Data\_Quality\_Information:*

*Logical\_Consistency\_Report:* Tests for integrity have not been performed

*Completeness\_Report:*

No information on the features represented regarding omissions, selection criteria, generalization, definitions used, and other rules used to derive the data set.

*Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy\_Report:* None

*Lineage:*

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* NJDEP, NJ Geological and Water Survey

*Publication\_Date:* 20040315

*Title:* Ambient-Metals

*Edition:* 20140114

*Series\_Information:*

*Series\_Name:* NJGS Digital Geodata Series

*Issue\_Identification:* DGS05-2

*Publication\_Information:*

*Publication\_Place:* Trenton, NJ

*Publisher:* NJDEP, NJ Geological and Water Survey

*Online\_Linkage:* <<http://www.state.nj.us/dep/njgs/geodata/dgs05-2.htm>>

*Type\_of\_Source\_Media:* online

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 1987

*Ending\_Date:* 2008

*Source\_Currentness\_Reference:* publication date

*Source\_Citation\_Abbreviation:* Metals

*Source\_Contribution:*

1) U.S. Geological Survey NWIS database: <<http://waterdata.usgs.gov/nwis/>>

2) U.S. Geological Survey Annual Water Resources Reports for water year (1982-present)

*Process\_Step:*

*Process\_Description:*

This update (2014) includes the data from the completed second sampling cycle of all 150 wells which comprise the redesigned NJAGWQMN

*Process\_Date:* 2013

*Process\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Bousenberry, Raymond

*Contact\_Organization:* NJDEP, NJGWS

*Contact\_Position:* Research Scientist 2

*Contact\_Address:*

*Address\_Type:* mailing address

*Address:* 29 Arctic Pkwy, Box 420, Mail Code 29-01

*City:* Trenton

*State\_or\_Province:* NJ

*Postal\_Code:* 08625-420

*Contact\_Voice\_Telephone:* 609-984-6587

*Contact\_Electronic\_Mail\_Address:* Raymond.Bousenberry@dep.nj.gov

*Contact\_Instructions:* via email

*Process\_Step:*

*Process\_Description:*

This update (2007) includes the data from the remaining 57 wells (sampled in 2003 and 2004) out of the 150 wells which comprise the redesigned NJAGWQMN. This data completes one full sampling cycle of the network.

*Process\_Date:* 2007

*Process\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Bousenberry, Raymond

*Contact\_Organization:* NJDEP, NJGWS

*Contact\_Position:* Research Scientist 2

*Contact\_Address:*

*Address\_Type:* mailing address

*Address:* 29 Arctic Pkwy, Box 420, Mail Code 29-01

*City:* Trenton

*State\_or\_Province:* NJ

*Postal\_Code:* 08625-420

*Contact\_Voice\_Telephone:* 609-984-6587

*Contact\_Electronic\_Mail\_Address:* Raymond.Bousenberry@dep.nj.gov

*Contact\_Instructions:* via email

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*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* Entity point

*Point\_and\_Vector\_Object\_Count:* 150

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*Horizontal\_Coordinate\_System\_Definition:*

*Planar:*

*Grid\_Coordinate\_System:*

*Grid\_Coordinate\_System\_Name:* State Plane Coordinate System

*State\_Plane\_Coordinate\_System:*

*SPCS\_Zone\_Identifier:* 2900

*Planar\_Coordinate\_Information:*

*Planar\_Coordinate\_Encoding\_Method:* coordinate pair

*Coordinate\_Representation:*

*Abscissa\_Resolution:* 0.000100

*Ordinate\_Resolution:* 0.000100

*Planar\_Distance\_Units:* survey feet

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* North American Datum of 1983

*Ellipsoid\_Name:* Geodetic Reference System 1980

*Semi-major\_Axis:* 6378137.000000

*Denominator\_of\_Flattening\_Ratio:* 298.257222

*Vertical\_Coordinate\_System\_Definition:*

*Altitude\_System\_Definition:*  
*Altitude\_Datum\_Name:* North American Vertical Datum of 1988  
*Altitude\_Resolution:* 0.000100  
*Altitude\_Distance\_Units:* feet  
*Altitude\_Encoding\_Method:*  
Explicit elevation coordinate included with horizontal coordinates

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*Entity\_Type\_Label:* Metals

*Entity\_Type\_Definition:* Ambient-Metals

*Entity\_Type\_Definition\_Source:* NJDEP/NJGWS

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*Attribute\_Definition:* Internal feature number.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

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*Attribute\_Definition:* Feature Geometry

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features

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*Attribute\_Definition:* Groundwater Site Inventory Number

*Attribute\_Definition\_Source:* USGS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Unique

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*Attribute\_Label:* MW

*Attribute\_Definition:* Monitoring Well Number

*Attribute\_Definition\_Source:* NJDEP/NJGWS

*Attribute\_Domain\_Values:*

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*Attribute\_Label:* Hydroname

*Attribute\_Definition:* Name of Aquifer



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*Attribute\_Definition*: Name of stratigraphic unit  
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*Attribute\_Definition*: Abbreviation for stratigraphic unit  
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*Unrepresentable\_Domain*: Unique  
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*Attribute\_Label*: County  
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*Attribute\_Label*: Longitude

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*Attribute\_Definition\_Source:* NJDEP/NJGWS  
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*Attribute:*  
*Attribute\_Label:* STAID  
*Attribute\_Definition:* Station ID Number  
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*Attribute\_Domain\_Values:*  
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*Attribute\_Label:* Dates  
*Attribute\_Definition:* Date Sampled  
*Attribute\_Definition\_Source:* NJDEP/NJGWS  
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*Attribute\_Label:* P01000  
*Attribute\_Definition:* Arsenic Dissolved as As ( $\mu\text{g/L}$ )  
*Attribute\_Definition\_Source:* NJDEP/NJGWS  
*Attribute\_Domain\_Values:*  
*Unrepresentable\_Domain:* Unique  
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*Attribute\_Label:* P01005  
*Attribute\_Definition:* Barium Dissolved as Ba ( $\mu\text{g/L}$ )  
*Attribute\_Definition\_Source:* NJDEP/NJGWS  
*Attribute\_Domain\_Values:*  
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*Attribute\_Label:* P01010  
*Attribute\_Definition:* Beryllium Dissolved as Be (µg/L)  
*Attribute\_Definition\_Source:* NJDEP/NJGWS  
*Attribute\_Domain\_Values:*  
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*Attribute\_Label:* P01020  
*Attribute\_Definition:* Boron Dissolved as B (ug/L)  
*Attribute\_Definition\_Source:* NJDEP/NJGS  
*Attribute\_Domain\_Values:*  
*Unrepresentable\_Domain:* Unique  
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*Attribute\_Label:* P01025  
*Attribute\_Definition:* Cadmium Dissolved as Cd (µg/L)  
*Attribute\_Definition\_Source:* NJDEP/NJGWS  
*Attribute\_Domain\_Values:*  
*Unrepresentable\_Domain:* Unique  
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*Attribute\_Label:* P01030  
*Attribute\_Definition:* Chromium Dissolved as Cr (µg/L)  
*Attribute\_Definition\_Source:* NJDEP/NJGWS  
*Attribute\_Domain\_Values:*  
*Unrepresentable\_Domain:* Unique  
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*Attribute\_Label:* P01040  
*Attribute\_Definition:* Copper Dissolved as Cu (µg/L)  
*Attribute\_Definition\_Source:* NJDEP/NJGWS  
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*Unrepresentable\_Domain:* Unique  
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*Attribute\_Label:* P01046  
*Attribute\_Definition:* Iron Dissolved as Fe (µg/L)  
*Attribute\_Definition\_Source:* NJDEP/NJGWS  
*Attribute\_Domain\_Values:*  
*Unrepresentable\_Domain:* Unique  
*Attribute:*

*Attribute\_Label:* P01049  
*Attribute\_Definition:* Lead Dissolved as Pb (µg/L)  
*Attribute\_Definition\_Source:* NJDEP/NJGWS  
*Attribute\_Domain\_Values:*  
*Unrepresentable\_Domain:* Unique

*Attribute:*

*Attribute\_Label:* P01056

*Attribute\_Definition:* Manganese Dissolved as Mn (µg/L)

*Attribute\_Definition\_Source:* NJDEP/NJGWS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Unique

*Attribute:*

*Attribute\_Label:* P01057

*Attribute\_Definition:* Thallium Dissolved as Tl (µg/L)

*Attribute\_Definition\_Source:* NJDEP/NJGWS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Unique

*Attribute:*

*Attribute\_Label:* P01065

*Attribute\_Definition:* Nickel Dissolved as Ni (µg/L)

*Attribute\_Definition\_Source:* NJDEP/NJGWS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Unique

*Attribute:*

*Attribute\_Label:* P01075

*Attribute\_Definition:* Silver Dissolved as Ag (µg/L)

*Attribute\_Definition\_Source:* NJDEP/NJGWS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Unique

*Attribute:*

*Attribute\_Label:* P01090

*Attribute\_Definition:* Zinc Dissolved as Zn (µg/L)

*Attribute\_Definition\_Source:* NJDEP/NJGWS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Unique

*Attribute:*

*Attribute\_Label:* P01095

*Attribute\_Definition:* Antimony Dissolved as Sb (µg/L)

*Attribute\_Definition\_Source:* NJDEP/NJGWS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Unique

*Attribute:*

*Attribute\_Label:* P01106

*Attribute\_Definition:* Aluminum Dissolved as Al (µg/L)

*Attribute\_Definition\_Source:* NJDEP/NJGWS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Unique

*Attribute:*

*Attribute\_Label:* P01145

*Attribute\_Definition:* Selenium Dissolved as Se (µg/L)

*Attribute\_Definition\_Source:* NJDEP/NJGWS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Unique

*Attribute:*

*Attribute\_Label:* P71890

*Attribute\_Definition:* Mercury Dissolved as Hg (µg/L)

*Attribute\_Definition\_Source:* NJDEP/NJGWS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Unique

*Overview\_Description:*

*Entity\_and\_Attribute\_Overview:*

-99999 implies the constituent was detected but the concentration could not be quantified or was estimated below the reporting limit and the confidence in the concentration determination is not acceptable for standard reporting. Note: an estimated value can also be designated for other reasons. See the annual USGS Water-Data Reports NJ-(year of interest) for the estimated values and an explanation. The actual estimated value is not shown in this database. A zero (0) implies no sampling was performed for that parameter.

Note: Attribute headings may be truncated in Shapefile format. Additionally, the attribute OBJECTID is changed to FID in the Shapefile format.

*Entity\_and\_Attribute\_Detail\_Citation:*

For detection limits, analytical methods, etc., reference USGS annual reports "Water Resources Data - New Jersey" for the year of interest.

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*Distribution\_Information:*

*Distributor:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Bousenberry, Raymond

*Contact\_Organization:* NJDEP, NJGWS

*Contact\_Position:* Research Scientist 2

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 29 Arctic Pkwy, P.O. Box 420, Mail Code: 29-01

*City:* Trenton

*State\_or\_Province:* NJ

*Postal\_Code:* 08625

*Contact\_Voice\_Telephone:* 609-984-6587

*Contact\_Electronic\_Mail\_Address:* Raymond.Bousenberry@dep.nj.gov

*Contact\_Instructions:* via email

*Resource\_Description:* Downloadable Data

*Distribution\_Liability:*

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*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

*Format\_Name:* AVSHP

*Format\_Version\_Number:* 10.x

*Transfer\_Size:* 0.004

*Digital\_Transfer\_Option:*

*Online\_Option:*

*Computer\_Contact\_Information:*

*Network\_Address:*

*Network\_Resource\_Name:* <<http://www.state.nj.us/dep/njgs/geodata/dgs05-2.htm>>

*Fees:* None

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*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20140327

*Metadata\_Future\_Review\_Date:* 20180114

*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Bousenberry, Raymond

*Contact\_Organization:* NJDEP, NJGWS

*Contact\_Position:* Research Scientist 2

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 29 Arctic Pkwy, P.O. Box 420, Mail Code: 29-01

*City:* Trenton

*State\_or\_Province:* NJ  
*Postal\_Code:* 08625-0420  
*Contact\_Voice\_Telephone:* 609-984-6587  
*Contact\_Electronic\_Mail\_Address:* Raymond.Bousenberry@dep.nj.gov  
*Contact\_Instructions:* via email  
*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial  
Metadata  
*Metadata\_Standard\_Version:* FGDC-STD-001-1998  
*Metadata\_Time\_Convention:* local time  
*Metadata\_Extensions:*  
*Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>  
*Profile\_Name:* ESRI Metadata Profile

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Generated by [mp](#) version 2.9.6 on Mon Jul 14 11:50:36 2014