



MINUTES
MIDDLESEX COUNTY
WATER RESOURCES ASSOCIATION/WATERSHED MANAGEMENT GROUP MEETING
HELD AT THE
MIDDLESEX COUNTY BOARD OF CHOSEN FREEHOLDERS MEETING ROOM
May 15, 2017
1:30 P.M.

The meeting was called to order by Mr. Williams at 1:30 p.m. Notice of this meeting, pursuant to the Open Public Meetings Act, N.J.S.A. 10:4-10 and the NJ Water Quality Management Planning Rules, N.J.A.C. 7:15-9.3(b)7, have been complied with and are entered into the minutes of this meeting. A salute to the flag was observed prior to the start of today's meeting.

I. Roll Call

Attendance was as follows:

William Robins	Borough of Dunellen	Not present
Theodore Chase, Jr.	Township of Franklin	Present
Freeholder Charles Kenny	Middlesex County Board of Chosen Freeholders	Not present
Alan Godber	Lawrence Brook Watershed Partnership, Inc.	Not present
Will Sigle		Not present
Sewell Peckham	Borough of Helmetta	Not present
David Hall	Township of Old Bridge	Not present
Dawn Mc Donald	Borough of Spotswood	Present
Margaret Drozd		Present
Michael Hill	Freehold Soil Conservation District	Present
Brandon Goldfine	Middlesex Water Company	Present
Stephen Pospiech	City of Perth Amboy	Not present
Leigh Anne Hindenlang		Not present
Andrew Toth		Not present
William Kurzenberger		Present
Donald Newton	Borough of Sayreville	Not present
Dawn Corcoran-Gardella	Township of Piscataway	Not present
Vincent Martino	Middlesex County Planning Board	Not present
Siegfred Hubak	Township of Woodbridge	Present
Alice Tempel	Borough of South Plainfield	Not present
Brian Racin	Borough of South River	Present
Bryan Bidlack	Township of South Brunswick	Present
Leigh Jones	Township of East Brunswick Water and Sewage	Not present
Ron Yake	Township of Plainsboro	Present
Les Varga		Not present
John Katerba	Monroe Township Utility Dept.	Not present
Ryan Herkert		Not present
Dorian Kerber	Borough of Milltown	Present
George Ververides	Middlesex County Office of Planning	Present
Mirah Becker		Present
Laurie Sobel		Not present
Nicholas Tufaro		Present
Alexander Zakrewsky		Not present

I. Roll Call (continued)

Sharon Martens Gary Rojek	Middlesex Cty. Dept. of Public Health – Environmental Division	Not present Not present
Richard Wallner Edward Kuchie	Middlesex County Office of Engineering	Not present Not present
Ken Klipstein Bob O’Neil	NJ Water Supply Authority	Not present Present
Richard Fitamant Kevin Aiello	Middlesex County Utilities Authority	Not present Present
Daria Ludas	Borough of Jamesburg	Present
Doug Robertson Glenn Sandor	Township of North Brunswick	Not present Not present
Allan Williams	Highland Park Environmental Commission	Present
Rick Lear	Middlesex County Parks and Recreation Department	Not present
Michele Bakacs	Rutgers Cooperative Extension	Not present
Sara Malone	Rutgers Sustainable Raritan Initiative	Present
Denise Nickel	Middlesex County Improvement Authority	Not present
Suzan Colon	Old Bridge Twp. Environmental and Open Space Committee	Present
Heather Fenyk Brian Kempf	Lower Raritan Watershed Partnership	Present Not present
Bill Schultz	Raritan Riverkeeper	Present
Scott Tarnoski	New Brunswick Water	Not present
Kimber Ray	The Watershed Institute	Not present
Joseph Meyer	SUEZ Water	Not present
Jay Kruse Henry Kinsmith	Cranbury-Dey Road Property	Present Present
Jennifer Coffey	ANJEC	Present

II. Approval of the Minutes of the Previous Meeting – March 13, 2017

The minutes of the meeting of March 13, 2017 were distributed prior to today’s meeting. A motion was made, seconded and approved to accept the minutes as presented.

III. Reorganization

Mr. Williams indicated that Reorganization was slated to occur at today’s meeting. Mr. Williams asked Ms. Kerber if she was willing to continue her position as Secretary. Ms. Kerber was willing to continue as Secretary. There were no other nominees interested in becoming Secretary. All members were in favor of Ms. Kerber continuing her position as Secretary.

Mr. Williams asked Ms. Colon if she was willing to continue to serve as Vice Chairperson. Ms. Colon was willing to continue as Vice Chairperson. There were no other nominees interested in serving as Vice Chairperson. All members were in favor of Ms. Kerber continuing her position as Vice Chairperson.

III. Reorganization (continued)

Mr. Williams was willing to continue to serve as Chairman. There were no other nominees interested in serving as Chairman. All members were in favor of Mr. Williams continuing his position as Chairman.

IV. Presentation on Water Supply and Stormwater by Jennifer Coffey, Executive Director of ANJEC

Ms. Jennifer Coffey, Executive Director of ANJEC made a presentation at today's WRA Meeting. For the last 47 years, ANJEC has been empowering municipalities through their environmental commissions to make better decisions about the environment for the people that live there. Highlights of the presentation included resources that ANJEC has available, information on the recently released draft Water Supply Plan, information on Stormwater, Long Term Control Plans and Combined Sewer Overflows, and Green Infrastructure. Presentation attached.

Visit ANJEC's website at <http://www.anjec.org/> for more information. To receive periodic updates from ANJEC visit info@anjec.org to add your name to the mailing list. For information on a movement to get the Water Supply Plan released visit the Save H₂ONJ.org website at <http://www.saveh2onj.org>.

V. Middlesex County Wastewater Management Plan – Mirah Becker

Ms. Becker stated that she is still waiting for a proposal from the consultant for work needed to update the draft Wastewater Management Plan.

- **Review of Proposed WQMP Amendment Application – Cranbury-Dey Road Property, Block 25, Lot 1 – Cranbury Township**

Ms. Becker stated that a proposed WQMP Amendment Application would be reviewed at today's meeting. A staff report (attached) detailing the project was e-mailed to the membership prior to today's meeting.

Mr. Henry Kinsmith representing Toll Brothers introduced himself to the members. He introduced Mr. Jay Kruse who presented the details on the WQMP Amendment Application for the Cranbury-Dey Road Property (Protinick Farm), Block 25, Lot 1 in Cranbury Township.

Mr. Kruse distributed exhibits to the members. Mr. Kruse explained that the project is on the border of Plainsboro and Cranbury, and South Brunswick Townships. The property is located at the intersection of Dey Road and Petty Road. It is approximately 72 acres in size and currently being used for agricultural purposes. The original plan included affordable housing on site. However, the township preferred that the applicant provide funding for affordable housing in the downtown area. The township approved zoning changes in support of the proposed project. The NJDEP has deemed the application complete.

Mr. Kruse explained that stormwater management facilities are being proposed along the flood hazard area and a stormwater retention aesthetic feature adjacent to the clubhouse. It is proposed to also use rain gardens in certain locations.

The membership asked if the landowners were offered a chance to preserve the property. Ms. Becker explained that staff had spent countless hours going through the farmland preservation

V. Middlesex County Wastewater Management Plan – Mirah Becker (continued)

- **Review of Proposed WQMP Amendment Application – Cranbury-Dey Road Property, Block 25, Lot 1 – Cranbury Township (continued)**

process with the landowners. The appraisals came in as the highest ever in Middlesex County. However, the landowners chose not to accept the offer. Mr. Yake, representing Plainsboro Township, was not aware of this zoning change. He also expressed his concern that the capacity of the Suez-Princeton Meadows plant been an issue in the past. Plainsboro has planned the eastern half of town with the mindset that Suez-Princeton Meadows will have the capacity to service this area. Mr. Kruse assured the members that Suez-Princeton Meadows stated that they definitely have capacity for this project and future projects in the Plainsboro Master Plan.

The applicants asked to table the discussion until such time that the surrounding municipalities receive information on the proposal and are ready to endorse the project. The membership agreed to table the application until a special meeting that will be scheduled for June 2017.

VI. Manalapan Brook Watershed Protection and Restoration Plan (Freehold Soil Conservation District (FSCD)/Middlesex County)

Mr. Hill explained that FSCD is still waiting to receive payment for the project from NJDEP. Ms. Becker added that a grant application was submitted for the next round of 319(h) funding.

VII. Lawrence Brook Watershed Partnership (LBWP)

Mr. Kerber informed everyone that the Lawrence Brook Partnership requested a letter of support from Rutgers Cooperative Extension for a State Green Infrastructure Master Plan Grant. A Clean Up is scheduled for June 10 at Mill Pond Park.

VIII. Lower Raritan Watershed Partnership (LRWP)

No report.

IX. Sustainable Raritan River Initiative

- **Raritan Integrated Water Quality Assessment Report**

Ms. Malone announced that the annual Raritan River Conference has been scheduled for June 9, 2017 at the Douglass College Student Center. The theme will be the State of the Raritan. Nominees for the Sustainable Raritan Awards will be accepted until May 31. Visit www.raritan.rutgers.edu for more information. Information on the Raritan Integrated Water Quality Assessment Report will be covered at the Raritan River Conference.

Ms. Malone announced the installation of a Fish Cam. Professor Olaf Jensen and his research team have finished installing a streaming camera system at the Island Farm Weir fish ladder to help understand the impact of dams and weirs on spawning migrations of American Shad (*Alosa sapidissima*) and river herring (*A. pseudoharengus* and *A. aestivalis*). The fish cam project is made possible by a mini-grant from the Rutgers Raritan River Consortium with assistance from the New Jersey American Water Company and the New Jersey Water Supply Authority. For more information visit <http://raritan.rutgers.edu/fish-cam/>.

X. NJ Water Supply Activities/Projects (NJWSA)

- **Raritan Basin Watershed Plan/Raritan Basin Watershed Alliance**
- **D & R Canal Tributary (Franklin) Project**
- **Cedar Grove Brook (Franklin) Project**

Mr. O'Neil stated NJWSA has been working with Franklin Township to submit grants to naturalize some detention basins in Franklin.

XI. Middlesex County Flood Control Commissions

- **South Central Middlesex County Flood Control Commission**

Mr. Ververides stated that the Commission has been put on hold, but there have been some discussions on reactivating it. Ms. Mc Donald added that it has been four years since the Commission met and she would like to see it reactivated. She also offered to serve a Chairperson. Ms. Ludas offered to Co-Chair the Commission.

- **Green Brook Flood Control Commission (Middlesex County)**

Mr. Ververides stated that work is continuing. Bound Brook is basically complete. The project is moving into Middlesex. Somerset County is doing a good job in maintaining the levees. The big problem in Scotch Plains still remains.

XII. Correspondence

- Two WQMP Amendments

Ms. Becker distributed preliminary information on two additional WQMP Amendments. Staff reports and maps will be distributed with the agenda for a special meeting that will be scheduled for June 2017. Any member is welcome to come to the Office of Planning to review the file on any project. Members should contact Ms. Becker or Mr. Tufaro to arrange a time convenient to both parties.

XIII. Old Business

There was no Old Business presented at today's meeting.

XIV. New Business

- Scheduling a Special Meeting – June 2017

Staff proposed to schedule a special meeting in June to review three, possibly four WQMP Amendments. Staff will poll the membership to find a convenient date for the membership. Time is of the essence since the Middlesex County Planning Board normally does not meet in July or August.

- 2017-18 Meeting Calendar

A proposed 2017-18 Meeting Calendar was distributed to the members. A motion was made, seconded and approved to adopt the 2017-18 Meeting Calendar.

XV. Public Comment

There was no Public Comment at today's meeting.

XVI. Next meeting, date, time and place

The next WRA meeting will be held in June at a date to be determined after polling of the members by staff.

XVII. Adjournment

A motion was made, seconded, and approved to adjourn the meeting at 3:15 p.m.

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ANJEC
Jennifer M. Coffey,
Executive Director



ANJEC
*Water Supply &
Stormwater Management*



 **What does ANJEC do?**

Help Citizens Protect the Environment

- Courses, workshops, webinars
- Information, guidance, referrals
- Grants for environmental commissions
- Representing environmental commissions at the regional and state level
- Publications – ANJEC Report, ANJEC News, Resource Papers, Handbooks, Manuals
- Educates. Empowers. Mobilizes.



 **Training for Environmental Commissioners**

- Fundamentals for Effective Environmental Commissioners (3/4, 3/25, 4/1)
 - ERIs, Master Plans, Ordinances, Site Plan Review, Goal Setting, Budgets, Conservations Easements, Stormwater Management and more
- Environmental Congress (October 13, 2017)
- Solutions for Trash Free Waters
- Septic Systems, Clean Water and Your Municipality
- CSO/LTCP Training for Environmental Commissions and Green Teams
- Roadshows



ANJEC Publications

Hard Copies and Downloads Available

- Environmental Commissioners Handbook
- The Environmental Resource Inventory
- Septic Systems, Clean Water and Your Municipality
- Solar Siting and Sustainable Land Use
- Municipal Options for Stormwater Management
- Open Space is a Good Investment - The Financial Argument for Open Space Preservation
- And more




ANJEC Displays

Available for use at your event

- Cut Your Carbon Footprint Game Wheel
- Cut Your Water Footprint Game Wheel
- Save Energy: Take the EQ Challenge Game
- Green Infrastructure Display Board
- Habitat Protection Game
- Stormwater Educational Display
- And more



ANJEC Handouts

**On a variety of topics
Downloadable from our website**

- Energy Conservation
- Water Conservation
- Water Protection
- Lawn Care, Pet Waste
- Green Cleaning
- Your Local Environmental Commission
- And more



Water Supply

- Water Supply Management Act
 - Requires Water Supply Plan update AT LEAST every 5 years
 - Last plan before draft plan May 2017 was 1996
- Drought Watch and Warning lifted on April 12, 2017, ending 3 year drought levels
 - EXCEPT: Somerset and Hunterdon Counties remain at Drought Watch status





NEW JERSEY
Regional Drinking-Water-Supply Indicators
& Declared Water-Supply Status
May 7, 2017

Region	Status	Drinking-Water-Supply Indicator					Water-Supply Status
		WWSY Annual Supply	WWSY Supply New	PLI from 2011	DRR from 2011	DRR from 2011	
Northwest	Normal	100%	100%	100%	100%	100%	Normal
	Warning	95%	95%	95%	95%	95%	Warning
	Emergency	90%	90%	90%	90%	90%	Emergency
Central	Warning	95%	95%	95%	95%	95%	Warning
	Emergency	90%	90%	90%	90%	90%	Emergency
	Normal	100%	100%	100%	100%	100%	Normal
Northwest	Normal	100%	100%	100%	100%	100%	Normal
	Warning	95%	95%	95%	95%	95%	Warning
	Emergency	90%	90%	90%	90%	90%	Emergency
Southwest	Normal	100%	100%	100%	100%	100%	Normal
	Warning	95%	95%	95%	95%	95%	Warning
	Emergency	90%	90%	90%	90%	90%	Emergency
Coastal North	Normal	100%	100%	100%	100%	100%	Normal
	Warning	95%	95%	95%	95%	95%	Warning
	Emergency	90%	90%	90%	90%	90%	Emergency
Coastal South	Normal	100%	100%	100%	100%	100%	Normal
	Warning	95%	95%	95%	95%	95%	Warning
	Emergency	90%	90%	90%	90%	90%	Emergency

Table 3.2. Natural Resource Availability, net demand and remaining availability, and 2020 estimates of possible use.

WMA#	WMA Name	2010 Natural Resource Availability (MGD)			2010 Net Demand (MGD)			Remaining Availability (MGD)			Estimated increase in possible use by 2020 (MGD)	Estimated remaining availability in 2020 (MGD)
		Surface Water	Groundwater	Other	Surface Water	Groundwater	Other	Surface Water	Groundwater	Other		
1	Upper Delaware	30	30	0	4	4	0	26	26	0	4.2	12
2	Waldkill	3	3	0	0	0	0	3	3	0	0	3
3	Hugobon, Peapack, Whippany, and Ramapo	187	11	198	148	11	159	39	87	11	12	14
4	Lower Passaic and Sakin	31	10	41	20	14	34	11	7	15	0.2	9
5	Blauvelt, Hudson and Passaic	119	9	127	111	3	114	6	3	13	12.7	1
6	Upper and Middle Passaic, Whippany and Hackensack	78	14	92	58	24	82	19	2	21	0	19
7	Arden Hill	7	7	14	0	0	0	7	7	0	0	7
8	Horseshoe Bend and Branch Brook Reservoir	21	31	52	12	12	24	10	40	28	24	28
9	Lower Passaic, Teaneck, and Lawrenceville	241	13	254	181	16	197	54	23	41	0	54
10	Delaware	4	14	18	2	2	4	2	16	14	0	14
11	Coastal Delaware	4	3	7	3	3	4	1	3	3	0	3
12	Roanoke Bay	40	19	59	24	14	38	6	21	16	0	16
13	Mullica	17	49	66	4	41	45	13	25	12	0	12
14	Great Egg Harbor	39	3	42	31	3	34	8	8	8	0	8
15	Great Egg Harbor	39	3	42	31	3	34	8	8	8	0	8
16	North Branch and Coosauque	47	14	61	139	13	152	-85	3	-79	4.9	-74
17	Lower Delaware	11	118	129	104	109	213	-93	21	-72	3.2	-69
18	Roanoke	18	17	35	9	23	32	10	3	33	4.5	18
19	Coastal, Ocean, and Delaware	11	31	42	4	19	23	8	4	30	3.1	14
Total*		773	383	1,156	433	377	810	343	352	346	111.2	454

* Columns that appear "blank" are due to the fact that the identified resource for each particular region is not available within the region, therefore leaving the column void of a value. Those columns with "0" show that the resource is available in the particular region, but is not a viable supply. Addressing recommendations for Remaining Availability is "WMA" specific and is not reflective of a total sum that would be applied to the entire state.

WSP Recommendations

WMA7 – projected deficit by 2020: 25 MGD

Management Options:

- DEP will promote the efficient use of the State's limited freshwater resources as outlined in the Plan (see Chapter 7, Policy Item #1).
- DEP will continue to monitor the Morses Creek/Piles Creek HUC11 watershed as it approaches the planning threshold for depletive/consumptive uses associated with unconfined groundwater or unregulated (non-safe yield) surface water.
- If deficit occurs, additional depletive/consumptive uses should be offset through mitigation.
- Mitigation includes: permanent removal/reduction of and existing depletive/consumptive use, increased storage; or increased recharge" (Appendix A, pg 71)

WSP Public Hearings

North - Millburn Public Library, Millburn,
Wednesday, July 12, 2017 3:00

Central - 401 East State St, Trenton Tuesday, July
11, 2017 1:00

South - Stockton University, Board of Trustees
Room, Campus Center, Thursday, July 13, 1:00



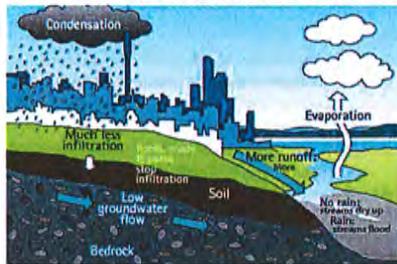
Stormwater, LTCPs and CSOs

- 16 CSOs in Middlesex Co, Perth Amboy
- ANJEC collaborates with municipalities and other organizations (Rutgers New Jersey Agricultural Experiment Station, Jersey Water Works, H2ONJ, etc.) on stormwater management strategies, Long Term Control Plans (LTCPs) and Combined Sewer Overflows (CSOs).
- Flood control, groundwater recharge, pollutant reduction
- Non structural and structural best management practices (BMPs) – Green Infrastructure



Green Infrastructure

The Urban Hydrologic Cycle



Source: Rutgers, New Jersey Agricultural Experiment Station, Water Resources Program



Green Infrastructure



Rain Garden – Before and After

Sources: Maplewood Patch, Essex County Place



 **Green Infrastructure**



Saw Mill River Daylighting – Before
Source: Nathan Kensinger, Curbed, New York



 **Green Infrastructure**



Saw Mill River Daylighting – After
Source: Nathan Kensinger, Curbed, New York



 **Restoring Waterways**

Raingardens
Porous Asphalt



 **Restoring Waterways**

Raingardens
Porous Asphalt



 **Looking Forward**

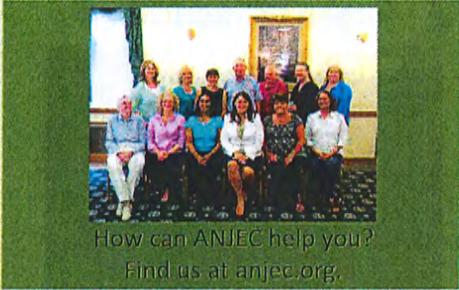
 **NFWF**

Environmental Endowment for New Jersey, Inc.

 **VICTORIA FOUNDATION**

 **WILLIAM PENN
FOUNDATION**

 **ANJEC**



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Local Environment Matters

Thank you!
Together we can
protect and restore
your local
environment!

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Middlesex County Water Resources Association Staff Review
Site Specific Amendment Request for Cranbury-Dey Road Property
Received 11/21/2016, with additional information received 04/28/2017

Project Name and Location: Cranbury- Dey Road Property
Block 25, Lot 1
Township of Cranbury

Project Proposal:

The project proposes the development of a major residential subdivision on a parcel currently containing one single family home and farmed acreage. The project will consist of 174 age-restricted single family homes, a clubhouse, internal roadways and utility infrastructure and storm water management facilities within a 74.92 acre parcel. Below, is a comparison of the pre-development conditions and the potential post development impacts (See attached layout sketch by Applicant).

Existing Site Coverage (Developed Acreage/Undeveloped acreage) :

Developed: 1.8 Acres **Agricultural Use:** 62 Acres **Undeveloped:** 7.5 Acres

Flood hazard area: approximately 2 .5 acres **Impervious cover:** Approximately 1 Acre

Proposed Site Coverage (Developed Acreage/Undeveloped acreage) :

Developed: 60.1 Acres **Undeveloped:** 11.2 Acres including Flood Hazard Area

Impervious cover: Approximately 36.1 Acres

Stormwater Management:

Existing conditions drain by surface flow to Cedar Brook(aka Cranbury Brook) without formal stormwater management facilities.

Proposed stormwater management will be per NJDEP regulation and likely include a detention basin(s).No details were in the application.

Water Supply and Sanitary Treatment:

Potable water will be provided by New Jersey American Water Company. Sanitary Treatment is to be provided by Suez-Princeton Meadows.

Project Description:

Currently, the property is not within an assigned sanitary sewer service area. The Site Specific Amendment application proposes to expand the coverage of the Wastewater Management Plan to include the major area of the property not constrained by wetlands, riparian buffers or floodplains. Wastewater treatment services are proposed to be provided by SUEZ-Princeton Meadows in Plainsboro. Included correspondence between the applicant and SUEZ indicates that Suez-Princeton Meadows can accommodate the 42,060 GPD estimated flow from the project. The proposal contains two options for sewer connection to the project accessing existing sewer in Plainsboro: a gravity connection at the southwestern corner of the parcel to an interceptor main; and a force main and pump station connection to lines along Petty Road to existing sanitary sewer in Dey Road.

The NJDEP Wetlands Letter of Interpretation refutes the available environmental mapping and clears the development area of wetlands and endangered species constraints.

Present Status of Application:

The application is administratively complete and waits scheduling for review by the Middlesex County Water Resources Association.

