



Certified: --

E-82-24

FILED WITH THE NASSAU COUNTY CLERK OF THE
LEGISLATURE APRIL 24TH, 2024
12:40 PM

NIFS ID: CQHE24000002

Capital:

Contract ID #: CQHE24000002

NIFS Entry Date: 01/04/2024

Department: Health

Service: Groundwater Fact Reporting

Term: From date of execution through 12/31/26

Contract Delayed:

Slip Type: New		
CRP:		
Blanket Resolution:		
Revenue:	Federal Aid:	State Aid:
Vendor Submitted an Unsolicited Solicitation:		

1) Mandated Program:	No
2) Comptroller Approval Form Attached:	Yes
3) CSEA Agmt. & 32 Compliance Attached:	No
4) Significant Adverse Information Identified? (if yes, attach memo):	No
5) Insurance Required:	Yes

Vendor/Municipality Info:	
Name: H2M Architects, Engineers, Land Surveying and Land DBA: H2M architects + engineers	ID#: 112235604
Main Address: 538 Broad Hollow Road, 4th Floor East Melville, NY 11747	
Main Contact: Jamie Pizzardi	
Main Phone: (631) 756-8000	

Department:
Contact Name: Daniel Naftol
Address: 200 County Seat Dr Mineola, NY 11501
Phone: (516) 227-8598
Email: dnaftol@nassaucountyny.gov

Contract Summary

Purpose: GROUND WATER AND PUBLIC WATER SUPPLY FACTS FOR NASSAU COUNTY
Procurement History: RFP #HE0905-2360 issued on 9/5/23 with responses due 10/10/23. One response received. A low vendor response analysis was completed with results confirming that the RFP specifications were not in question. The majority of responses for non participation were either no resources available to participate or the RFP requirements were not in their scope of expertise.
Description of General Provisions: The provider will annually prepare and release a report ("the Report") presenting a compilation of current Nassau County Ground Water and Public Water Supply information for each reporting year. The report shall be entitled "Ground Water and Public Water Supply Facts for Nassau County-XXXX"
Impact on Funding / Price Analysis: Total RFP award is \$364,500.00
Change in Contract from Prior Procurement: New contract issued pursuant to the results of RFP #HE0905-2360
Method of Source Selection:

☒ Request For Proposals awarded to proposer offering best value

RFP #: HE0905-2360

Advertised On: 09/05/2023

Advertised In: Newsday

Proposals Due On: 10/10/2023

Number of proposals received: 1

Evaluation Committee members: Voting: S.Caruso, R.Castle, B.Provoncha, Non-voting: D.Naftol

Pursuant to Executive Order No. 1 of 1993 as amended at least three proposals were solicited and received. The attached memorandum from the department head describes the proposals received along with the cost of each proposal.

Following is a detailed explanation of why other than the lowest cost proposal offered best value to the County:

Only one proposal was received. A low vendor response analysis was completed with results confirming that the RFP specifications were not in question. The majority of responses for non participation were either no resources available to participate or the RFP requirements were not in their scope of expertise.

MWBE Participation:

☒ Participation of Minority-owned and Women-owned Business Enterprises in Nassau County Contracts: The selected contractor has agreed that it has an obligation to utilize best efforts to hire MWBE sub-contractors. Proof of the contractual utilization of best efforts as outlined in Exhibit EE may be requested at any time by the Comptroller's Office prior to the approval of claim vouchers. [Note: This box must be checked.]

☒ Vendor will not require any subcontractors.

Contractor is a (check all that apply):

☐ MWBE

☐ SDVOB

Recommendation: Approve as Submitted

Advisement Information

Fund	Control	Resp. Center	Object	Index Code	Sub Object	Budget Code	Line	Amount
GEN	30	3400	DE	HEGEN3400	DE500	HEGEN3400 DE500	02	\$70,500.00
						TOTAL	\$217,500.00	
GEN	30	3400	DD	HEGEN3400	DD419	HEGEN3400 DD419	01	\$147,000.00
						TOTAL	\$217,500.00	

Additional Info	
Blanket Encumbrance	
Transaction	
Renewal	
% Increase	
% Decrease	

Funding Source	Amount
Revenue Contract:	
County	\$217,500.00
Federal	\$0.00
State	\$0.00
Capital	\$0.00
Other	\$0.00
Total	\$217,500.00

Routing Slip

Department			
NIFS Entry	Daniel Naftol	01/04/2024 01:17PM	Approved
NIFS Final Approval	Deneen Jenkins	01/05/2024 03:18PM	Approved
Final Approval	Deneen Jenkins	01/05/2024 03:18PM	Approved
County Attorney			
Approval as to Form	Salvatore Spezio	01/05/2024 04:23PM	Approved
RE & Insurance Verification	Andrew Amato	01/05/2024 03:22PM	Approved
NIFS Approval	Mary Nori	01/12/2024 09:37AM	Approved
Final Approval	Mary Nori	01/12/2024 09:37AM	Approved
OMB			
NIFS Approval	Jenna Ferrante	01/08/2024 02:22PM	Approved
NIFA Approval	Irfan Qureshi	01/12/2024 09:23AM	Approved
Final Approval	Irfan Qureshi	01/12/2024 09:23AM	Approved
Compliance & Vertical DCE			
Procurement Compliance Approval	Andrew Levey	01/18/2024 11:48AM	Approved
DCE Compliance Approval	Robert Cleary	03/13/2024 11:25AM	Approved
Vertical DCE Approval	Anissa Moore	03/18/2024 12:48PM	Approved
Final Approval	Anissa Moore	03/18/2024 12:48PM	Approved
Legislative Affairs Review			
Final Approval	Eleftherios Sempepos	03/29/2024 01:10PM	Approved
Legislature			
Final Approval			In Progress

Comptroller			
Claims Approval			Pending
Legal Approval			Pending
Accounting / NIFS Approval			Pending
Deputy Approval			Pending
Final Approval			Pending
NIFA			
NIFA Approval			Pending

RULES RESOLUTION NO. – 2023

A RESOLUTION AUTHORIZING THE COUNTY EXECUTIVE TO EXECUTE A PERSONAL SERVICES AGREEMENT BETWEEN THE COUNTY OF NASSAU, ACTING ON BEHALF OF THE NASSAU COUNTY DEPARTMENT OF HEALTH AND H2M ARCHITECTS, ENGINEERS, LAND SURVEYING AND LANDSCAPE ARCHITECTURE, DPC.

WHEREAS, the County has negotiated a personal services agreement with H2M Architects, Engineers, Land Surveying and Landscape Architecture, DPC., to provide the County with ground water and water supply services, a copy of which is on file with the Clerk of the Legislature; now, therefore, be it

RESOLVED, that the Rules Committee of the Nassau County Legislature authorizes the County Executive to execute said amendment to the agreement with H2M Architects, Engineers, Land Surveying and Landscape Architecture, DPC.



Nassau County Interim Finance Authority

Contract Approval Request Form (As of January 1, 2015)

1. Vendor: H2M Architects, Engineers, Land Surveying and Land

2. Amount requiring NIFA approval: \$364,500.00

Amount to be encumbered: \$217,500.00

Slip Type: New

If new contract - \$ amount should be full amount of contract

If advisement - NIFA only needs to review if it is increasing funds above the amount previously approved by NIFA

If amendment - \$ amount should be full amount of amendment only

3. Contract Term: to From date of execution through 12/31/26

Has work or services on this contract commenced? No

If yes, please explain:

4. Funding Source:

General Fund (GEN)	X	Grant Fund (GRT)
Capital Improvement Fund (CAP)		Other
Federal %	0	
State %	0	
County %	100	

Is the cash available for the full amount of the contract? Yes

If not, will it require a future borrowing? No

Has the County Legislature approved the borrowing? N/A

Has NIFA approved the borrowing for this contract? N/A

5. Provide a brief description (4 to 5 sentences) of the item for which this approval is requested:

GROUND WATER AND PUBLIC WATER SUPPLY FACTS FOR NASSAU COUNTY

6. Has the item requested herein followed all proper procedures and thereby approved by the:

Nassau County Attorney as to form Yes

Nassau County Committee and/or Legislature

Date of approval(s) and citation to the resolution where approval for this item was provided:

7. Identify all contracts (with dollar amounts) with this or an affiliated party within the prior 12 months:

Contract ID	Posting Date	Amount Added in Prior 12 Months
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AUTHORIZATION

To the best of my knowledge, I hereby certify that the information contained in this Contract Approval Request Form and any additional information submitted in connection with this request is true and accurate and that all expenditures that will be made in reliance on this authorization are in conformance with the Nassau County Approved Budget and not in conflict with the Nassau County Multi-Year Financial Plan. I understand that NIFA will rely upon this information in its official deliberations.

IQURESHI

01/12/2024

Authenticated User

Date

COMPTROLLER'S OFFICE

To the best of my knowledge, I hereby certify that the information listed is true and accurate and is in conformance with the Nassau County Approved Budget and not in conflict with the Nassau County Multi-Year Financial Plan.

Regarding funding, please check the correct response:

I certify that the funds are available to be encumbered pending NIFA approval of this contract.

If this is a capital project:

I certify that the bonding for this contract has been approved by NIFA.

Budget is available and funds have been encumbered but the project requires NIFA bonding authorization.

Authenticated User

Date

NIFA

Amount being approved by NIFA:

Payment is not guaranteed for any work commenced prior to this approval.

Authenticated User

Date

NOTE: All contract submissions MUST include the County's own routing slip, current NIFS printouts for all relevant accounts and relevant Nassau County Legislature communication documents and relevant supplemental information pertaining to the item requested herein.

NIFA Contract Approval Request Form MUST be filled out in its entirety before being submitted to NIFA for review.

NIFA reserves the right to request additional information as needed.

Elaine Phillips
Comptroller



OFFICE OF THE COMPTROLLER
240 Old Country Road
Mineola, New York 11501

COMPTROLLER APPROVAL FORM FOR PERSONAL, PROFESSIONAL OR HUMAN SERVICES CONTRACTS

Attach this form along with all personal, professional or human services contracts, contract renewals, extensions and amendments.

CONTRACTOR NAME: H2M Architects & Engineers

CONTRACTOR ADDRESS: 538 Broad Hollow RD, Melville, NY 11747

FEDERAL TAX ID #: [REDACTED]

Instructions: Please check the appropriate box ("☑") after one of the following roman numerals and provide all the requested information.

I. ☐ The contract was awarded to the lowest, responsible bidder after advertisement for sealed bids. The contract was awarded after a request for sealed bids was published in _____ [newspaper] on _____ [date]. The sealed bids were publicly opened on _____ [date]. _____ [#] of sealed bids were received and opened.

II. ☒ The contractor was selected pursuant to a Request for Proposals.

The Contract was entered into after a written request for proposals was issued on September 5, 2023 (HE0905-2360). Potential proposers were made aware of the availability of the RFP by advertisement in Newsday, Nassau & Suffolk Counties, posting on industry websites, via email to interested parties and by publication on the County procurement website. Proposals were due on October 10, 2023. One proposal was received and evaluated. The evaluation committee consisted of: Voting – S.Casuso, R.Castle, B.Provoncha,; Non-voting – D.Naftol [All from NCDOH]. The proposals were scored and ranked. As a result of the scoring and ranking, the highest-ranking proposer was selected.

III. ☐ This is a renewal, extension or amendment of an existing contract.

The contract was originally executed by Nassau County on _____ [date]. This is a renewal or extension pursuant to the contract, or an amendment within the scope of the contract or RFP (copies of the relevant pages are attached). The original contract was entered into after _____

[describe procurement method, i.e., RFP, three proposals evaluated, etc.] Attach a copy of the most recent evaluation of the contractor's performance for any contract to be renewed or extended. If the contractor has not received a satisfactory evaluation, the department must explain why the contractor should nevertheless be permitted to continue to contract with the county.

IV. ☐ Pursuant to Executive Order No. 1 of 1993, as amended, at least three proposals were solicited and received. The attached memorandum from the department head describes the proposals received, along with the cost of each proposal.

- ☐ A. The contract has been awarded to the proposer offering the lowest cost proposal; **OR:**
- ☐ B. The attached memorandum contains a detailed explanation as to the reason(s) why the contract was awarded to other than the lowest-cost proposer. The attachment includes a specific delineation of the unique skills and experience, the specific reasons why a proposal is deemed superior, and/or why the proposer has been judged to be able to perform more quickly than other proposers.

V. ☒ Pursuant to Executive Order No. 1 of 1993 as amended, the attached memorandum from the department head explains why the department did not obtain at least three proposals.

- ☒ A. There are only one or two providers of the services sought or less than three providers submitted proposals. The memorandum describes how the contractor was determined to be the sole source provider of the personal service needed or explains why only two proposals could be obtained. If two proposals were obtained, the memorandum explains that the contract was awarded to the lowest cost proposer, or why the selected proposer offered the higher quality proposal, the proposer's unique and special experience, skill, or expertise, or its availability to perform in the most immediate and timely manner.
- ☐ B. The memorandum explains that the contractor's selection was dictated by the terms of a federal or New York State grant, by legislation or by a court order. (Copies of the relevant documents are attached).
- ☐ C. Pursuant to General Municipal Law Section 104, the department is purchasing the services required through a New York State Office of General Services contract no. _____, and the attached memorandum explains how the purchase is within the scope of the terms of that contract.
- ☐ D. Pursuant to General Municipal Law Section 119-o, the department is purchasing the services required through an inter-municipal agreement.

VI. ☐ This is a human services contract with a not-for-profit agency for which a competitive process has not been initiated. Attached is a memorandum that explains the reasons for entering into this contract without conducting a competitive process, and details when the department intends to initiate a competitive process for the future award of these services. For any such contract, where the vendor has previously provided services to the county, attach a copy of the most recent evaluation of the vendor's performance. If the contractor has not received a satisfactory evaluation, the department must explain why the contractor should nevertheless be permitted to contract with the county.

In certain limited circumstances, conducting a competitive process and/or completing performance evaluations may not be possible because of the nature of the human services program, or because of a compelling need to continue services through the same provider. In those circumstances, attach an explanation of why a competitive process and/or performance evaluation is inapplicable.

VII. ☐ This is a public works contract for the provision of architectural, engineering or surveying services. The attached memorandum provides details of the department's compliance with Board of Supervisors' Resolution No.928 of 1993, including its receipt and evaluation of annual Statements of Qualifications & Performance Data, and its negotiations with the most highly qualified firms.

Instructions with respect to Sections VIII, IX and X: All Departments must check the box for VIII. Then check the box for either IX or X, as applicable.

VIII. ☒ Participation of Minority Group Members and Women in Nassau County Contracts. The selected contractor has agreed that it has an obligation to utilize best efforts to hire MWBE sub-contractors. Proof of the contractual utilization of best efforts as outlined in Exhibit "EE" may be requested at any time, from time to time, by the Comptroller's Office prior to the approval of claim vouchers.

IX. ☐ Department MWBE responsibilities. To ensure compliance with MWBE requirements as outlined in Exhibit "EE", Department will require vendor to submit list of sub-contractor requirements prior to submission of the first claim voucher, for services under this contract being submitted to the Comptroller.

X. ☒ Vendor will not require any sub-contractors.

In addition, if this is a contract with an individual or with an entity that has only one or two employees: ☐ a review of the criteria set forth by the Internal Revenue Service, *Revenue Ruling No. 87-41*, 1987-1 C.B. 296, attached as Appendix A to the Comptroller's Memorandum, dated February 13, 2004, concerning independent contractors and employees indicates that the contractor would not be considered an employee for federal tax purposes.


Department Head Signature

11-3-2023
Date

NOTE: Any information requested above, or in the exhibit below, may be included in the county's "staff summary" form in lieu of a separate memorandum.

November 3, 2023

Groundwater Fact Reporting RFP

Low Vendor Response Explanation

RFP HE0905-2360 was issued on 9/5/23 with proposals due on 10/10/23. The RFP notification was sent to over 1,000 vendors. Only one proposal was received by the due date. Pursuant to Nassau County's Low Vendor Participation policy, the selection committee contacted all vendors that downloaded the RFP but did not submit a proposal. The full results are attached.

In summary, several vendors indicated that they would have submitted a proposal if it were not for a severe shortage of resources. They simply could not take on any additional work. Other responses received were that the vendor does not perform, or specialize, in this type of work. Accordingly, they did not submit a proposal.

Summary of results:

Vendors who downloaded the RFP:	21
Vendors who submitted a proposal:	1
Vendor who responded to our inquiries regarding why they did not respond to the RFP	15
Vendors who did not respond to our inquiries	5



COUNTY OF NASSAU

POLITICAL CAMPAIGN CONTRIBUTION DISCLOSURE FORM

1. Has the vendor or any corporate officers of the vendor provided campaign contributions pursuant to the New York State Election Law in (a) the period beginning April 1, 2016 and ending on the date of this disclosure, or (b), beginning April 1, 2018, the period beginning two years prior to the date of this disclosure and ending on the date of this disclosure, to the campaign committees of any of the following Nassau County elected officials or to the campaign committees of any candidates for any of the following Nassau County elected offices: the County Executive, the County Clerk, the Comptroller, the District Attorney, or any County Legislator?

YES ☒ NO ☐ If yes, to what campaign committee?

Please see attached.

2 File(s) uploaded: Attachment to Political Campaign Contribution Disclosure Form 2021.pdf, Attachment to Political Campaign Contribution Disclosure Form 2022.pdf

Electronically signed and certified at the date and time indicated by:

Richard W. Humann, P.E. [RHUMANN@H2M.COM]

Dated: 12/14/2023 03:34:09 pm

Vendor: H2M architects + engineers

Title: President & CEO

Attachment to Political Campaign Contribution Disclosure Form

Friends of Donald Clavin 2021: \$1,000.00

Friends of Laura Curran 2021: 1/5/21 \$250.00; 2/16/21 \$500.00

Laura Schaefer 2021: 4/29/21 \$300.00

Citizens for D'Esposito 2021: 4/9/21 \$1,525.00

Citizens for Nicolello - 10/3/2021 - \$250 (Richard Humann)

Curran for Nassau - 6/21/2021 - \$750 (Richard Humann)

Friends of Rose Walker - 3/22/2021 - \$500 (Richard Humann)

Blakeman for Nassau - 4/29/2022 - \$1,000 (Joseph Mottola)

Business History Form

The contract shall be awarded to the responsible proposer who, at the discretion of the County, taking into consideration the reliability of the proposer and the capacity of the proposer to perform the services required by the County, offers the best value to the County and who will best promote the public interest.

In addition to the submission of proposals, each proposer shall complete and submit this questionnaire. The questionnaire shall be filled out by the owner of a sole proprietorship or by an authorized representative of the firm, corporation or partnership submitting the Proposal.

NOTE: All questions require a response, even if response is "none" or "not-applicable." No blanks.

(USE ADDITIONAL SHEETS IF NECESSARY TO FULLY ANSWER THE FOLLOWING QUESTIONS).

Date: 06/22/2023

1) Proposer's Legal Name: H2M Architects, Engineers, Land Surveying and Landscape Architecture, DPC (dba H2M architects + engineers)

2) Address of Place of Business: 538 Broad Hollow Rd, 4th Floor East

City: Melville State/Province/Territory: NY Zip/Postal Code: 11747

Country: US

Address: 100 S Ashley Drive, Ste 600

City: Tampa State/Province/Territory: FL Zip/Postal Code: 33602

Country: US

Start Date: _____ End Date: _____

Address: 119 Cherry Hill Road, Suite 110

City: Parsippany State/Province/Territory: NJ Zip/Postal Code: 07054

Country: _____

Start Date: _____ End Date: _____

Address: 1250 NJ-23

City: Butler State/Province/Territory: NJ Zip/Postal Code: 07405

Country: US

Start Date: _____ End Date: _____

Address: 2 Executive Boulevard, Suite 401

City: Suffern	State/Province/ Territory: NY	Zip/Postal Code: 10901
Country:		
Start Date:		End Date:

Address: 2054 Vista Parkway, Ste 421

City: West Palm Beach	State/Province/ Territory: FL	Zip/Postal Code: 33411
Country: US		
Start Date:		End Date:

Address: 2054 Vista Parkway. Suite 421

City: West Palm Beach	State/Province/ Territory: FL	Zip/Postal Code: 33411
Country: US		
Start Date:		End Date:

Address: 230 West 38th Street, 14th Floor

City: New York	State/Province/ Territory: NY	Zip/Postal Code: 10018
Country: US		
Start Date:		End Date:

Address: 2700 Westchester Avenue, Suite 415

City: Purchase	State/Province/ Territory: NY	Zip/Postal Code: 10577
Country:		
Start Date:		End Date:

Address: 301 Grant Street, Suite 270

City: Pittsburgh	State/Province/ Territory: PA	Zip/Postal Code: 15219
Country: US		

Start Date: _____ End Date: _____

Address: 333 SE 2nd Avenue, Ste 2000
City: Miami State/Province/Territory: FL Zip/Postal Code: 33131
Country: US
Start Date: _____ End Date: _____

Address: 360 Bloomfield Avenue, Suite 378
City: Windsor State/Province/Territory: CT Zip/Postal Code: 06095
Country: US
Start Date: _____ End Date: _____

Address: 433 River Street, Suite 8002
City: Troy State/Province/Territory: NY Zip/Postal Code: 12180
Country: US
Start Date: _____ End Date: _____

Address: 4810 Belmar Boulevard
City: Wall Township State/Province/Territory: NJ Zip/Postal Code: 07753
Country: _____
Start Date: _____ End Date: _____

Address: 575 Broad Hollow Rd
City: Melville State/Province/Territory: NY Zip/Postal Code: 11747
Country: _____
Start Date: _____ End Date: _____

Address: 737 Roanoke Avenue
City: Riverhead State/Province/Territory: NY Zip/Postal Code: 11701

Country: _____
Start Date: _____ End Date: _____

3) Mailing Address (if different): _____

City: _____ State/Province/
Territory: _____ Zip/Postal
Code: _____

Country: _____

Phone: _____

Does the business own or rent its facilities? Rent If other, please provide details:

4) Dun and Bradstreet number: _____

5) Federal I.D. Number: _____

6) The proposer is a: Corporation (Describe) _____

7) Does this business share office space, staff, or equipment expenses with any other business?

YES [] NO [X] If yes, please provide details:

8) Does this business control one or more other businesses?

YES [X] NO [] If yes, please provide details:

H2M Associates, Inc. is a 100% wholly owned subsidiary of H2M architects + engineers. H2M Architects & Engineers, Inc. a separate New Jersey corporation providing architectural and related engineering services, 119 Cherry Hill Road, Suite 110, Parsippany, New Jersey 07054. These firms will not be working on the project, therefore we have not included separate disclosures.

9) Does this business have one or more affiliates, and/or is it a subsidiary of, or controlled by, any other business?

YES [] NO [X] If yes, please provide details:

10) Has the proposer ever had a bond or surety cancelled or forfeited, or a contract with Nassau County or any other government entity terminated?

YES [] NO [X] If yes, state the name of bonding agency, (if a bond), date, amount of bond and reason for such cancellation or forfeiture: or details regarding the termination (if a contract).

11) Has the proposer, during the past seven years, been declared bankrupt?

YES [] NO [X] If yes, state date, court jurisdiction, amount of liabilities and amount of assets

- 12) In the past five years, has this business and/or any of its owners and/or officers and/or any affiliated business, been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency? And/or, in the past 5 years, have any owner and/or officer of any affiliated business been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency, where such investigation was related to activities performed at, for, or on behalf of an affiliated business.
YES ☐ NO ☒ If yes, provide details for each such investigation, an explanation of the circumstances and corrective action taken.
- 13) In the past 5 years, has this business and/or any of its owners and/or officers and/or any affiliated business been the subject of an investigation by any government agency, including but not limited to federal, state and local regulatory agencies? And/or, in the past 5 years, has any owner and/or officer of an affiliated business been the subject of an investigation by any government agency, including but not limited to federal, state and local regulatory agencies, for matters pertaining to that individual's position at or relationship to an affiliated business.
YES ☐ NO ☒ If yes, provide details for each such investigation, an explanation of the circumstances and corrective action taken.
- 14) Has any current or former director, owner or officer or managerial employee of this business had, either before or during such person's employment, or since such employment if the charges pertained to events that allegedly occurred during the time of employment by the submitting business, and allegedly related to the conduct of that business:
- a) Any felony charge pending?
YES ☐ NO ☒ If yes, provide details for each such investigation, an explanation of the circumstances and corrective action taken.
- b) Any misdemeanor charge pending?
YES ☐ NO ☒ If yes, provide details for each such investigation, an explanation of the circumstances and corrective action taken.
- c) In the past 10 years, you been convicted, after trial or by plea, of any felony and/or any other crime, an element of which relates to truthfulness or the underlying facts of which related to the conduct of business?
YES ☐ NO ☒ If yes, provide details for each such investigation, an explanation of the circumstances and corrective action taken.
- d) In the past 5 years, been convicted, after trial or by plea, of a misdemeanor?
YES ☐ NO ☒ If yes, provide details for each such investigation, an explanation of the circumstances and corrective action taken.
- e) In the past 5 years, been found in violation of any administrative, statutory, or regulatory provisions?
YES ☐ NO ☒ If yes, provide details for each such investigation, an explanation of the circumstances and corrective action taken.
- 15) In the past (5) years, has this business or any of its owners or officers, or any other affiliated business had any sanction

imposed as a result of judicial or administrative proceedings with respect to any professional license held?

YES ☐ NO ☒ If yes, provide details for each such investigation, an explanation of the circumstances and corrective action taken.

- 16) For the past (5) tax years, has this business failed to file any required tax returns or failed to pay any applicable federal, state or local taxes or other assessed charges, including but not limited to water and sewer charges?

YES ☐ NO ☒ If yes, provide details for each such year. Provide a detailed response to all questions checked 'YES'. If you need more space, photocopy the appropriate page and attach it to the questionnaire.

- 17 Conflict of Interest:

- a) Please disclose any conflicts of interest as outlined below. NOTE: If no conflicts exist, please expressly state "No conflict exists."

(i) Any material financial relationships that your firm or any firm employee has that may create a conflict of interest or the appearance of a conflict of interest in acting on behalf of Nassau County.

No conflict exists.

(ii) Any family relationship that any employee of your firm has with any County public servant that may create a conflict of interest or the appearance of a conflict of interest in acting on behalf of Nassau County.

No conflict exists.

(iii) Any other matter that your firm believes may create a conflict of interest or the appearance of a conflict of interest in acting on behalf of Nassau County.

No conflict exists.

- b) Please describe any procedures your firm has, or would adopt, to assure the County that a conflict of interest would not exist for your firm in the future.

Should H2M be selected and awarded for a project, H2M will continue to monitor family relationships between our employees and Nassau County employees through implementing procedures to check all new hires prior to employment with H2M. This would take place through adding an appropriate question on our employment application. Should Nassau County request or recommend additional procedures, H2M would cooperate with Nassau County to implement them.

- A. Include a resume or detailed description of the Proposer's professional qualifications, demonstrating extensive experience in your profession. Any prior similar experiences, and the results of these experiences, must be identified.

Have you previously uploaded the below information under in the Document Vault?

YES ☐ NO ☒

Is the proposer an individual?

YES ☐ NO ☒ Should the proposer be other than an individual, the Proposal MUST include:

- i) Date of formation;

01/01/1933

- ii) Name, addresses, and position of all persons having a financial interest in the company, including shareholders, members, general or limited partner. If none, explain.

1 File(s) uploaded: Responses (Shareholders) 12.14.23.pdf

- iii) Name, address and position of all officers and directors of the company. If none, explain.

1 File(s) uploaded: Responses (Shareholders) 12.14.23.pdf

- iv) State of incorporation (if applicable);

NY

- v) The number of employees in the firm;

535

- vi) Annual revenue of firm;

93438502

- vii) Summary of relevant accomplishments

Please see attached.

1 File(s) uploaded: Responses to Business History 12.14.23.pdf

- viii) Copies of all state and local licenses and permits.

1 File(s) uploaded: Responses to Business History 12.14.23.pdf

- B. Indicate number of years in business.

90

- C. Provide any other information which would be appropriate and helpful in determining the Proposer's capacity and reliability to perform these services.

Not applicable.

- D. Provide names and addresses for no fewer than three references for whom the Proposer has provided similar services or who are qualified to evaluate the Proposer's capability to perform this work.

Company	Town of Hempstead		
Contact Person	Jeffrey Tierney, Deputy Commissioner of Engineering		
Address	350 Front Street, Room 235		
City	Hempstead	State/Province/Territory	NY
Country	US		
Telephone	(516) 489-5000		
Fax #	(516) 393-0074		

E-Mail Address	<u>jefftie@tohmail.org</u>		
Company	<u>Town of Huntington</u>		
Contact Person	<u>Ed Parrish, P.E., Town Civil Engineer</u>		
Address	<u>100 Main Street</u>		
City	<u>Huntington</u>	State/Province/Territory	<u>NY</u>
Country	<u>US</u>		
Telephone	<u>(631) 351-3206</u>		
Fax #	<u>(631) 351-3212</u>		
E-Mail Address	<u>eparrish@huntingtonny.gov</u>		
Company	<u>Town of Oyster Bay</u>		
Contact Person	<u>Matthew Russo, P.E., Engineering Division Head</u>		
Address	<u>150 Miller Place</u>		
City	<u>Syosset</u>	State/Province/Territory	<u>NY</u>
Country	<u>US</u>		
Telephone	<u>(516) 677-5719</u>		
Fax #	<u>(516) 677-5940</u>		
E-Mail Address	<u>mrusso@oysterbay-ny.gov</u>		

I, Richard W. Humann, P.E. , hereby acknowledge that a materially false statement willfully or fraudulently made in connection with this form may result in rendering the submitting business entity and/or any affiliated entities non-responsible, and, in addition, may subject me to criminal charges.

I, Richard W. Humann, P.E. , hereby certify that I have read and understand all the items contained in this form; that I supplied full and complete answers to each item therein to the best of my knowledge, information and belief; that I will notify the County in writing of any change in circumstances occurring after the submission of this form; and that all information supplied by me is true to the best of my knowledge, information and belief. I understand that the County will rely on the information supplied in this form as additional inducement to enter into a contract with the submitting business entity.

CERTIFICATION

A MATERIALLY FALSE STATEMENT WILLFULLY OR FRAUDULENTLY MADE IN CONNECTION WITH THIS QUESTIONNAIRE MAY RESULT IN RENDERING THE SUBMITTING BUSINESS ENTITY NOT RESPONSIBLE WITH RESPECT TO THE PRESENT BID OR FUTURE BIDS, AND, IN ADDITION, MAY SUBJECT THE PERSON MAKING THE FALSE STATEMENT TO CRIMINAL CHARGES.

Name of submitting business: H2M architects + engineers

Electronically signed and certified at the date and time indicated by:
Richard W. Humann, P.E. RHUMANN@H2M.COM

President & CEO

Title

12/14/2023

Date

RESPONSES TO BUSINESS HISTORY FORM

H2M ARCHITECTS, ENGINEERS, LAND SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C. (D.B.A. H2M architects + engineers)

Questions Aii and Aiii

OFFICERS AND SHAREHOLDERS

NAME	ADDRESS	TITLE
Richard W. Humann, P.E.		Chairman, Chief Executive Office, President
Joseph M. Mottola, AIA		Chief Operating Officer, Executive Vice President, Secretary
Jamie Pizzardi, CPA		Chief Financial Officer, Treasurer, Vice President
Philip J. Schade, P.E.		Chief Market Director, Executive Vice President
Elizabeth C. Uzzo		Executive Vice President
Michael W. Keffer, P.E.		Senior Vice President, Assistant Secretary
Saverio J. Belfiore, AIA		Senior Vice President
Jeffrey L. Czajka, P.E.		Senior Vice President
Patricia DelCol		Senior Vice President
Michael N. Gentils		Senior Vice President
Ernest V. Iannucci, P.E.		Senior Vice President
Paul R. Lageraen, P.E.		Senior Vice President
Ronald B. Lanner, R.A.		Senior Vice President
Joseph A. Manzella, P.E.		Senior Vice President
Charles A. Martello, P.E.		Senior Vice President
James L. Neri, P.E.		Senior Vice President
David J. Pacheco, AIA		Senior Vice President
Guy Y. Page, R.A.		Senior Vice President
Kevin M. Paul, AIA		Senior Vice President
Jay Pisco, P.E.		Senior Vice President
James Roberts, P.E.		Senior Vice President
William Rockensies, P.E.		Senior Vice President
Christopher Weiss, P.E.		Senior Vice President
Mauro M. Bacolo, P.E.		Vice President
Patrick K. Cole, P.E.		Vice President
John R. Collins, P.E.		Vice President
Alan P. Hilla, P.E.		Vice President
Alexander Hochhausl, P.E.		Vice President
Robert E. Ikes, III, R.A.		Vice President
Michael W. Lantier, P.E.		Vice President
Debra L. Mattina		Vice President
Mark E. Meneghin, P.E.		Vice President
Matthew R. Mohlin, P.E.		Vice President
James J. Moran, P.E.		Vice President
James Powers, AIA		Vice President
Sharon Norton Remmer		Vice President
William Rospars, Esq.		Vice President
Richard B. Schommer, P.E.		Vice President
Kevin M. Taylor		Vice President
Joseph Todaro, P.E.		Vice President
Richard Wiedersum, AIA		Vice President
Alison K. Auriemmo, P.E.		Assistant Vice President
Robert F. Bee, R.A.		Assistant Vice President
Nicholas F. Bono, P.E.		Assistant Vice President
Anne Davis		Assistant Vice President
Kenneth R. Gehringer, AIA		Assistant Vice President
Pasquale Iannone, Sr., P.L.S		Assistant Vice President

Kenneth Keltai, R.L.A.		Assistant Vice President
Anthony W. Kim, P.E.		Assistant Vice President
Scott D. Lehn, P.E.		Assistant Vice President
Gregory J. Levasseur, P.E.		Assistant Vice President
Robert J. Lucas, P.E.		Assistant Vice President
Eric W. Maisch, R.A.		Assistant Vice President
Timothy J. McGuire, P.E.		Assistant Vice President
Kevin M. Medler, R.A.		Assistant Vice President
John C. Morris III, P.E.		Assistant Vice President
Alec J. Mittiga, P.E.		Assistant Vice President
Katrina Pacheco, R.A.		Assistant Vice President
Michele A. Pincus, Esq.		Assistant Vice President
R. Joel Richardson, P.E.		Assistant Vice President
John Schnurr, P.L.S.		Assistant Vice President
Jason Smith, R.A.		Assistant Vice President
Patrick O. Stone, R.A.		Assistant Vice President
Michael W. Weber, P.E.		Assistant Vice President

Board of Directors in bold

OTHER SHAREHOLDERS & SENIOR ASSOCIATES

NAME	ADDRESS	TITLE
Philip Bianco		Senior Associate
Sean P. Callahan, P.E.		Senior Associate
Gregory M. Cellamare, P.E.		Senior Associate
Joseph C. Ciserano, AIA		Senior Associate
Joseph F. Cline, P.E.		Senior Associate
Stephanie L. DeCotiis, P.E.		Senior Associate
William Delnero, P.E.		Senior Associate
Arthur M. Eschete, Jr.		Senior Associate
Joseph E. Flynn Ed.D., R.A.		Senior Associate
Jonathan R. Muratore, P.E.		Senior Associate
Richard Palladino		Senior Associate
Adam C. Post, R.A.		Senior Associate
Daniel K. Ritchie		Senior Associate
Charles J. Starke, P.E.		Senior Associate
Katherine M. Stone, R.A.		Senior Associate

ASSOCIATES

NAME	ADDRESS	TITLE
Debbie E. Aiello		Associate
Natalie D. Barber, P.E.		Associate
Jerold Blustein		Associate
Meghan Burnham, R.A.		Associate
Christopher J. Del Gatto, P.E.		Associate
Maria DiNatale, R.A.		Associate
Lawrence M. Feeley, Jr., R.A.		Associate
Paul D. Foerth, P.E.		Associate
Dana M. Gearity, R.A.		Associate
Kelly E. Greenfield, R.A.		Associate
James Havrilla R.A.		Associate
Christopher M. Kobos		Associate
Andrew M. Manfredi, P.E.		Associate
Cheryl Marraffino		Associate
Martha C. Mihaltses		Associate
Joseph L. Mile, AIA		Associate
Steven L. Mirra, P.E.		Associate
Sujata Pal, P.E.		Associate
Nicole Pesce		Associate
Dustin J. Rigos, P.E.		Associate

Steven Soussou, P.E.			Associate
Anthony M. Trombino			Associate
Robert E. Wildermuth, AIA			Associate
James J. Williamson, III, P.E.			Associate
Lily Wu			Associate
Todd T. Zabbia			Associate



Introduction and Legal Existence

Organized in 1933 and founded on professional excellence, hard work and integrity, H2M architects + engineers (H2M) is proud of its long history of client service and design excellence. Providing seasoned judgment, quality service, technical skill, vision, and resourcefulness, H2M remains committed to achieving goals in step with our clients and in harmony with the environment.

H2M is a privately owned, full service, multi-disciplined professional A/E consulting firm that provides services to governmental agencies, municipalities, special districts and private industry. The firm is a NYS Design Professional Corporation, licensed by the NYS Department of Education to provide professional engineering services in New York.

Firm History

H2M was initially oriented toward the planning and design of municipal infrastructure projects. The company's capabilities have since grown to include complete full professional services, some of which include civil/site engineering, survey, structural engineering, mechanical engineering, electrical engineering, sanitary engineering, environmental engineering, water supply management, wastewater management, industrial hygiene, solid and hazardous waste management, geographic information systems mapping, planning and architecture. The full complement of our professional staff includes:

- Staff resources of over 500 employees
- Professional Engineers
- Registered Architects
- LEED Accredited Professionals
- Licensed Landscape Architects and Surveyors
- Professional Planners
- Environmental Scientists
- Certified Geologists, Hydrogeologists, Ground Water Professionals
- Construction Inspectors, GIS, and CAD Designers
- Industrial Hygienists and Safety Professionals
- Certified Asbestos / Lead Inspectors and Managers
- Sewage / Water Treatment Plant Operators

Date of Formation

Legal Firm Name:

H2M Architects, Engineers, Surveying and Landscape Architecture, DPC

DBA: H2M architects + engineers

- Became a Professional Corporation (P.C.) 12/10/70
- Became a Design Professional Corporation (D.P.C.) 11/15/13

State of Incorporation: New York

Number of Years in Business: Established in 1933



Distinguishing Qualifications: Some of the strengths of our firm are:

Familiarity and experience working with Nassau County.

The firm's excellent reputation for quality of work, responsiveness and professionalism.

The firm's experienced staff and experienced project management that we are proposing to commit to this assignment.

Experience with equipment site prep projects for our industrial clients.

Use of Building Information Modeling (BIM) software provides three dimensional exterior and interior views of the project at all stages of design and provides clash detection between material and equipment objects of the different trades thereby decreasing change orders during the construction phase.

The resource capabilities of our firm, which allows us to successfully complete multiple projects simultaneously and keep to project schedules.

Our proposed approach that will allow us to complete the requested assignment in a well-coordinated and timely manner.

Our firm takes ownership and we look to assure our work suits our client's needs and objectives and its completion is on schedule, within budget and requires the least amount of client involvement.

We are a proactive firm that attempts to anticipate future issues and plan ahead to assure a successful project's completion while anticipating future needs.

Sustainable Design

H2M is a member of the USGBC (United States Green Building Council) and we are committed to taking a leadership role as it relates to building and our environment. We will provide an environmentally sensitive approach to this project, one that is balanced, economical and specific to the work to be undertaken.

We will look to identify and evaluate potential green opportunities that will have an immediate, measurable impact on key concerns such as energy conservation, global climate change, and occupant health.

CERTIFICATE NUMBER
0021730

H2M ARCHITECTS ENGINEERS LAND SURVEYING AND LANDSCAPE ARCHITECTURE

DPC

X

GENERAL INFO

ENFORCEMENT ACTIONS

Address

538 BROAD HOLLOW RD 4TH FLOOR EAST
MELVILLE NY 117475076

Business Entity (11)

Design Professional Service Corporation

PSC #

000570

Initial Filing Date

December 10, 1970

Current Through

November 30, 2025

Certificate of Authorization to provide
Professional Engineering Services in New
York State

YES CERT# 021730 Expires on December 31,
2026

Certificate of Authorization to provide Land
Surveying Services in New York State

YES CERT# 021729 Expires on January 31,
2027

Officers, Directors, Shareholders:

License Number	Name
014358	ROSS DENNIS A
014995	MAMMINA DAVID LAWRENCE
018340	NOSKIN DENNIS SCOTT
022543	LANNER RONALD BIELEFELD
022713	PAGE GUY YVON
023092	MOTTOLA JOSEPH MICHAEL
023976	PAUL KEVIN MARK
025058	BONACASA MICHAEL J
025398	WIEDERSUM RICHARD WAINE
026835	GEHRINGER KENNETH RICHARD
028074	PACHECO DAVID JONATHON
029640	IKES ROBERT E III
032389	BEE ROBERT
033031	MAISCH ERIC WILLIAM
033063	BELFIORE SAVERIO JOSEPH
033207	SMITH JASON SCOTT
034617	BYRNES VERONICA
038379	MEDLER KEVIN MICHAEL

H2M ARCHITECTS ENGINEERS LAND SURVEYING AND LANDSCAPE ARCHITECTURE

DPC

GENERAL INFO

ENFORCEMENT ACTIONS

Address	538 BROAD HOLLOW RD 4TH FLOOR EAST MELVILLE NY 117475076
Business Entity (11)	Design Professional Service Corporation
PSC #	000570
Initial Filing Date	December 10, 1970
Current Through	November 30, 2025
Certificate of Authorization to provide Professional Engineering Services in New York State	YES CERT# 021730 Expires on December 31, 2026
Certificate of Authorization to provide Land Surveying Services in New York State	YES CERT# 021729 Expires on January 31, 2027
Officers, Directors, Shareholders:	

License Number	Name
014358	ROSS DENNIS A
014995	MAMMINA DAVID LAWRENCE
018340	NOSKIN DENNIS SCOTT
022543	LANNER RONALD BIELEFELD
022713	PAGE GUY YVON
023092	MOTTOLA JOSEPH MICHAEL
023976	PAUL KEVIN MARK
025058	BONACASA MICHAEL J
025398	WIEDERSUM RICHARD WAINE
026835	GEHRINGER KENNETH RICHARD
028074	PACHECO DAVID JONATHON
029640	IKES ROBERT E III
032389	BEE ROBERT
033031	MAISCH ERIC WILLIAM
033063	BELFIORE SAVERIO JOSEPH
033207	SMITH JASON SCOTT
034617	BYRNES VERONICA
038379	MEDLER KEVIN MICHAEL

PRINCIPAL QUESTIONNAIRE FORM

All questions on these questionnaires must be answered by all officers and any individuals who hold a ten percent (10%) or greater ownership interest in the proposer. Answers typewritten or printed in ink. If you need more space to answer any question, make as many photocopies of the appropriate page(s) as necessary and attach them to the questionnaire.

COMPLETE THIS QUESTIONNAIRE CAREFULLY AND COMPLETELY. FAILURE TO SUBMIT A COMPLETE QUESTIONNAIRE MAY MEAN THAT YOUR BID OR PROPOSAL WILL BE REJECTED AS NON-RESPONSIVE AND IT WILL NOT BE CONSIDERED FOR AWARD

1. Principal Name: Richard W. Humann, P.E.
Date of birth: [REDACTED]
Home address: [REDACTED]
City: [REDACTED] State/Province/Territory: [REDACTED] Zip/Postal Code: [REDACTED]
Country: [REDACTED]
Business Address: 538 Broad Hollow Road, 4th Floor East
City: Melville State/Province/Territory: NY Zip/Postal Code: 11747
Country: US
Telephone: (631) 756-8000
Other present address(es):
City: Oceanside State/Province/Territory: NY Zip/Postal Code: 11572
Country: US
Telephone: 6316554328

List of other addresses and telephone numbers attached

2. Positions held in submitting business and starting date of each (check all applicable)

President	<u>01/02/2012</u>	Treasurer	<u></u>
Chairman of Board	<u>01/01/2013</u>	Shareholder	<u>01/01/1999</u>
Chief Exec. Officer	<u>01/02/2013</u>	Secretary	<u></u>
Chief Financial Officer	<u></u>	Partner	<u></u>
Vice President	<u>01/17/2005</u>		
(Other)			

Type Other
Description Chief Operating Officer
Start Date 01/02/2012

3. Do you have an equity interest in the business submitting the questionnaire?
YES [X] NO [] If Yes, provide details.

Shareholder, Owns 5.990%

4. Are there any outstanding loans, guarantees or any other form of security or lease or any other type of contribution made in whole or in part between you and the business submitting the questionnaire?

YES ☐ NO ☒ If Yes, provide details.

5. Within the past 3 years, have you been a principal owner or officer of any business or notfor-profit organization other than the one submitting the questionnaire?

YES ☒ NO ☐ If Yes, provide details.

H2M Associates, Inc. (wholly owned subsidiary): President and CEO (2005 to present); Vice President (2005-2012)
H2M Architects & Engineers, Inc. (authorized to practice architecture in New Jersey): President and CEO (2012 to present)

6. Has any governmental entity awarded any contracts to a business or organization listed in Section 5 in the past 3 years while you were a principal owner or officer?

YES ☒ NO ☐ If Yes, provide details.

H2M Associates, Inc. is a wholly owned subsidiary and has been awarded various contracts from various governmental entities in the past 3 years, along with H2M architects + engineers.
H2M Architects & Engineers, Inc. has the following 3 contracts: Manasquan River Regional Sewerage Authority, NJ (2018), Housing Authority of Bergen County, NJ (2018), Princeton First Aid & Rescue Squad (2016)

NOTE: An affirmative answer is required below whether the sanction arose automatically, by operation of law, or as a result of any action taken by a government agency. Provide a detailed response to all questions checked "YES". If you need more space, photocopy the appropriate page and attach it to the questionnaire.

7. In the past (5) years, have you and/or any affiliated businesses or not-for-profit organizations listed in Section 5 in which you have been a principal owner or officer:

- a. Been debarred by any government agency from entering into contracts with that agency?
YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- b. Been declared in default and/or terminated for cause on any contract, and/or had any contracts cancelled for cause?
YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- c. Been denied the award of a contract and/or the opportunity to bid on a contract, including, but not limited to, failure to meet pre-qualification standards?
YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- d. Been suspended by any government agency from entering into any contract with it; and/or is any action pending that could formally debar or otherwise affect such business's ability to bid or propose on contract?
YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

8. Have any of the businesses or organizations listed in response to Question 5 filed a bankruptcy petition and/or been the subject of involuntary bankruptcy proceedings during the past 7 years, and/or for any portion of the last 7 year period,

been in a state of bankruptcy as a result of bankruptcy proceedings initiated more than 7 years ago and/or is any such business now the subject of any pending bankruptcy proceedings, whenever initiated?

YES ☐ NO ☒ If 'Yes', provide details for each such instance. (Provide a detailed response to all questions check "Yes". If you need more space, photocopy the appropriate page and attached it to the questionnaire.)

9.

a. Is there any felony charge pending against you?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

b. Is there any misdemeanor charge pending against you?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

c. Is there any administrative charge pending against you?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

d. In the past 10 years, have you been convicted, after trial or by plea, of any felony, or of any other crime, an element of which relates to truthfulness or the underlying facts of which related to the conduct of business?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

e. In the past 5 years, have you been convicted, after trial or by plea, of a misdemeanor?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

f. In the past 5 years, have you been found in violation of any administrative or statutory charges?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

10 In addition to the information provided in response to the previous questions, in the past 5 years, have you been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency and/or the subject of an investigation where such investigation was related to activities performed at, for, or on behalf of the submitting business entity and/or an affiliated business listed in response to Question 5?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

11 In addition to the information provided, in the past 5 years has any business or organization listed in response to Question 5, been the subject of a criminal investigation and/or a civil anti-trust investigation and/or any other type of investigation by any government agency, including but not limited to federal, state, and local regulatory agencies while you were a principal owner or officer?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

12 In the past 5 years, have you or this business, or any other affiliated business listed in response to Question 5 had any sanction imposed as a result of judicial or administrative proceedings with respect to any professional license held?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

--

- 13 For the past 5 tax years, have you failed to file any required tax returns or failed to pay any applicable federal, state or local taxes or other assessed charges, including but not limited to water and sewer charges?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

--

I, Richard W. Humann, P.E., hereby acknowledge that a materially false statement willfully or fraudulently made in connection with this form may result in rendering the submitting business entity and/or any affiliated entities non-responsible, and, in addition, may subject me to criminal charges.

I, Richard W. Humann, P.E., hereby certify that I have read and understand all the items contained in this form; that I supplied full and complete answers to each item therein to the best of my knowledge, information and belief; that I will notify the County in writing of any change in circumstances occurring after the submission of this form; and that all information supplied by me is true to the best of my knowledge, information and belief. I understand that the County will rely on the information supplied in this form as additional inducement to enter into a contract with the submitting business entity.

CERTIFICATION

A MATERIALLY FALSE STATEMENT WILLFULLY OR FRAUDULENTLY MADE IN CONNECTION WITH THIS QUESTIONNAIRE MAY RESULT IN RENDERING THE SUBMITTING BUSINESS ENTITY NOT RESPONSIBLE WITH RESPECT TO THE PRESENT BID OR FUTURE BIDS, AND, IN ADDITION, MAY SUBJECT THE PERSON MAKING THE FALSE STATEMENT TO CRIMINAL CHARGES.

H2M architects + engineers

Name of submitting business

Electronically signed and certified at the date and time indicated by:

Richard W. Humann, P.E. RHUMANN@H2M.COM

President & CEO

Title

12/14/2023 03:35:56 pm

Date

All questions on these questionnaires must be answered by all officers and any individuals who hold a ten percent (10%) or greater ownership interest in the proposer. Answers typewritten or printed in ink. If you need more space to answer any question, make as many photocopies of the appropriate page(s) as necessary and attach them to the questionnaire.

1. Principal Name: Joseph M. Mottola, AIA
Date of birth: [REDACTED]
Home address: [REDACTED]
City: [REDACTED] State/Province/Territory: [REDACTED] Zip/Postal Code: [REDACTED]
Country: [REDACTED]

Business Address:		538 Broad Hollow Road, 4th Floor East			
City:	Melville	State/Province/ Territory:	NY	Zip/Postal Code:	11747
Country	US				
Telephone:	(631) 756-8000				

Other present address(es):					
City:	Oceanside	State/Province/ Territory:	NY	Zip/Postal Code:	11572
Country:	US				
Telephone:	6316554328				

2. Positions held in submitting business and starting date of each (check all applicable)

President		Treasurer	
Chairman of Board		Shareholder	02/24/1995
Chief Exec. Officer		Secretary	01/01/2019
Chief Financial Officer		Partner	
Vice President	01/02/2004		
(Other)			

Type	Other
Description	Senior Vice President
Start Date	01/14/2015

Type	Other
Description	Deputy Chief Operating Officer, Assistant Secretary
Start Date	01/10/2018

Type	Other
Description	Executive Vice President
Start Date	01/10/2018

Type	Other
Description	Chief Operating Officer
Start Date	01/01/2019

3. Do you have an equity interest in the business submitting the questionnaire?

YES ☒ NO ☐ If Yes, provide details.

Shareholder, Owns 4.867%

4. Are there any outstanding loans, guarantees or any other form of security or lease or any other type of contribution made in whole or in part between you and the business submitting the questionnaire?

YES ☒ NO ☐ If Yes, provide details.

56,000 Stock Loan

5. Within the past 3 years, have you been a principal owner or officer of any business or notfor-profit organization other than the one submitting the questionnaire?

YES ☒ NO ☐ If Yes, provide details.

H2M Associates, Inc. (wholly owned subsidiary)

H2M Architects & Engineers, Inc. (authorized to practice architecture in New Jersey)

6. Has any governmental entity awarded any contracts to a business or organization listed in Section 5 in the past 3 years while you were a principal owner or officer?

YES ☒ NO ☐ If Yes, provide details.

H2M Associates, Inc. is a wholly owned subsidiary and has been awarded various contracts from various governmental entities in the past 3 years, along with H2M architects + engineers.

H2M Architects & Engineers, Inc. has the following 3 contracts: Manasquan River Regional Sewerage Authority, NJ (2018), Housing Authority of Bergen County, NJ (2018), Princeton First Aid & Rescue Squad (2016)

NOTE: An affirmative answer is required below whether the sanction arose automatically, by operation of law, or as a result of any action taken by a government agency. Provide a detailed response to all questions checked "YES". If you need more space, photocopy the appropriate page and attach it to the questionnaire.

7. In the past (5) years, have you and/or any affiliated businesses or not-for-profit organizations listed in Section 5 in which you have been a principal owner or officer:

a. Been debarred by any government agency from entering into contracts with that agency?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- b. Been declared in default and/or terminated for cause on any contract, and/or had any contracts cancelled for cause?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- c. Been denied the award of a contract and/or the opportunity to bid on a contract, including, but not limited to, failure to meet pre-qualification standards?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- d. Been suspended by any government agency from entering into any contract with it; and/or is any action pending that could formally debar or otherwise affect such business's ability to bid or propose on contract?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

8. Have any of the businesses or organizations listed in response to Question 5 filed a bankruptcy petition and/or been the subject of involuntary bankruptcy proceedings during the past 7 years, and/or for any portion of the last 7 year period, been in a state of bankruptcy as a result of bankruptcy proceedings initiated more than 7 years ago and/or is any such business now the subject of any pending bankruptcy proceedings, whenever initiated?

YES ☐ NO ☒ If 'Yes', provide details for each such instance. (Provide a detailed response to all questions check "Yes". If you need more space, photocopy the appropriate page and attached it to the questionnaire.)

9.

- a. Is there any felony charge pending against you?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- b. Is there any misdemeanor charge pending against you?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- c. Is there any administrative charge pending against you?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- d. In the past 10 years, have you been convicted, after trial or by plea, of any felony, or of any other crime, an element of which relates to truthfulness or the underlying facts of which related to the conduct of business?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- e. In the past 5 years, have you been convicted, after trial or by plea, of a misdemeanor?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- f. In the past 5 years, have you been found in violation of any administrative or statutory charges?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- 10 In addition to the information provided in response to the previous questions, in the past 5 years, have you been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency and/or the subject of an investigation where such investigation was related to activities performed at, for, or on behalf of the submitting business entity and/or an affiliated business listed in response to Question 5?
YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- 11 In addition to the information provided, in the past 5 years has any business or organization listed in response to Question 5, been the subject of a criminal investigation and/or a civil anti-trust investigation and/or any other type of investigation by any government agency, including but not limited to federal, state, and local regulatory agencies while you were a principal owner or officer?
YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- 12 In the past 5 years, have you or this business, or any other affiliated business listed in response to Question 5 had any sanction imposed as a result of judicial or administrative proceedings with respect to any professional license held?
YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- 13 For the past 5 tax years, have you failed to file any required tax returns or failed to pay any applicable federal, state or local taxes or other assessed charges, including but not limited to water and sewer charges?
YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

I, Joseph M. Mottola, AIA , hereby acknowledge that a materially false statement willfully or fraudulently made in connection with this form may result in rendering the submitting business entity and/or any affiliated entities non-responsible, and, in addition, may subject me to criminal charges.

I, Joseph M. Mottola, AIA , hereby certify that I have read and understand all the items contained in this form; that I supplied full and complete answers to each item therein to the best of my knowledge, information and belief; that I will notify the County in writing of any change in circumstances occurring after the submission of this form; and that all information supplied by me is true to the best of my knowledge, information and belief. I understand that the County will rely on the information supplied in this form as additional inducement to enter into a contract with the submitting business entity.

CERTIFICATION

A MATERIALLY FALSE STATEMENT WILLFULLY OR FRAUDULENTLY MADE IN CONNECTION WITH THIS QUESTIONNAIRE MAY RESULT IN RENDERING THE SUBMITTING BUSINESS ENTITY NOT RESPONSIBLE WITH RESPECT TO THE PRESENT BID OR FUTURE BIDS, AND, IN ADDITION, MAY SUBJECT THE PERSON MAKING THE FALSE STATEMENT TO CRIMINAL CHARGES.

H2M architects + engineers

Name of submitting business

Electronically signed and certified at the date and time indicated by:

Joseph M. Mottola, AIA JMOTTOLA@H2M.COM

Executive Vice President, Chief Operating Officer

Title

12/14/2023 01:07:22 pm

Date

PRINCIPAL QUESTIONNAIRE FORM

All questions on these questionnaires must be answered by all officers and any individuals who hold a ten percent (10%) or greater ownership interest in the proposer. Answers typewritten or printed in ink. If you need more space to answer any question, make as many photocopies of the appropriate page(s) as necessary and attach them to the questionnaire.

COMPLETE THIS QUESTIONNAIRE CAREFULLY AND COMPLETELY. FAILURE TO SUBMIT A COMPLETE QUESTIONNAIRE MAY MEAN THAT YOUR BID OR PROPOSAL WILL BE REJECTED AS NON-RESPONSIVE AND IT WILL NOT BE CONSIDERED FOR AWARD

1. Principal Name: Gregory C. Smith, CPA
Date of birth: [REDACTED]
Home address: [REDACTED]
City: [REDACTED] State/Province/Territory: [REDACTED] Zip/Postal Code: [REDACTED]
Country: [REDACTED]
Business Address: 538 Broad Hollow Road, 4th Floor East
City: Melville State/Province/Territory: NY Zip/Postal Code: 11747
Country: US
Telephone: (631) 756-8000
Other present address(es):
City: _____ State/Province/Territory: _____ Zip/Postal Code: _____
Country: _____
Telephone: _____

List of other addresses and telephone numbers attached

2. Positions held in submitting business and starting date of each (check all applicable)

President	_____	Treasurer	<u>01/01/2014</u>
Chairman of Board	_____	Shareholder	<u>09/01/2013</u>
Chief Exec. Officer	_____	Secretary	_____
Chief Financial Officer	<u>01/01/2014</u>	Partner	_____
Vice President	_____		
(Other)	_____		

Type Other
Description Controller
Start Date 09/21/1987

Type Other
Description Senior Vice President
Start Date 01/01/2016

Type	Other
Description	Executive Vice President
Start Date	01/01/2018

3. Do you have an equity interest in the business submitting the questionnaire?

YES ☒ NO ☐ If Yes, provide details.

Shareholder, Owns 4.867%

4. Are there any outstanding loans, guarantees or any other form of security or lease or any other type of contribution made in whole or in part between you and the business submitting the questionnaire?

YES ☐ NO ☒ If Yes, provide details.

5. Within the past 3 years, have you been a principal owner or officer of any business or notfor-profit organization other than the one submitting the questionnaire?

YES ☒ NO ☐ If Yes, provide details.

H2M Associates, Inc. (wholly owned subsidiary): Treasurer, CFO (2005 to present)

H2M Architects & Engineers, Inc. (authorized to practice architecture in New Jersey): Treasurer, CFO (2005 to present)

6. Has any governmental entity awarded any contracts to a business or organization listed in Section 5 in the past 3 years while you were a principal owner or officer?

YES ☒ NO ☐ If Yes, provide details.

H2M Associates, Inc. is a wholly owned subsidiary and has been awarded various contracts from various governmental entities in the past 3 years, along with H2M architects + engineers.

H2M Architects & Engineers, Inc. has the following 3 contracts: Manasquan River Regional Sewerage Authority, NJ (2018), Housing Authority of Bergen County, NJ (2018), Princeton First Aid & Rescue Squad (2016)

NOTE: An affirmative answer is required below whether the sanction arose automatically, by operation of law, or as a result of any action taken by a government agency. Provide a detailed response to all questions checked "YES". If you need more space, photocopy the appropriate page and attach it to the questionnaire.

7. In the past (5) years, have you and/or any affiliated businesses or not-for-profit organizations listed in Section 5 in which you have been a principal owner or officer:

- a. Been debarred by any government agency from entering into contracts with that agency?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- b. Been declared in default and/or terminated for cause on any contract, and/or had any contracts cancelled for cause?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- c. Been denied the award of a contract and/or the opportunity to bid on a contract, including, but not limited to, failure to meet pre-qualification standards?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- d. Been suspended by any government agency from entering into any contract with it; and/or is any action pending that could formally debar or otherwise affect such business's ability to bid or propose on contract?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

8. Have any of the businesses or organizations listed in response to Question 5 filed a bankruptcy petition and/or been the subject of involuntary bankruptcy proceedings during the past 7 years, and/or for any portion of the last 7 year period, been in a state of bankruptcy as a result of bankruptcy proceedings initiated more than 7 years ago and/or is any such business now the subject of any pending bankruptcy proceedings, whenever initiated?

YES ☐ NO ☒ If 'Yes', provide details for each such instance. (Provide a detailed response to all questions check "Yes". If you need more space, photocopy the appropriate page and attached it to the questionnaire.)

9.

- a. Is there any felony charge pending against you?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- b. Is there any misdemeanor charge pending against you?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- c. Is there any administrative charge pending against you?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- d. In the past 10 years, have you been convicted, after trial or by plea, of any felony, or of any other crime, an element of which relates to truthfulness or the underlying facts of which related to the conduct of business?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- e. In the past 5 years, have you been convicted, after trial or by plea, of a misdemeanor?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- f. In the past 5 years, have you been found in violation of any administrative or statutory charges?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

10. In addition to the information provided in response to the previous questions, in the past 5 years, have you been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency and/or the subject of an investigation where such investigation was related to activities performed at, for, or on behalf of the submitting business entity and/or an affiliated business listed in response to Question 5?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- 11 In addition to the information provided, in the past 5 years has any business or organization listed in response to Question 5, been the subject of a criminal investigation and/or a civil anti-trust investigation and/or any other type of investigation by any government agency, including but not limited to federal, state, and local regulatory agencies while you were a principal owner or officer?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- 12 In the past 5 years, have you or this business, or any other affiliated business listed in response to Question 5 had any sanction imposed as a result of judicial or administrative proceedings with respect to any professional license held?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

- 13 For the past 5 tax years, have you failed to file any required tax returns or failed to pay any applicable federal, state or local taxes or other assessed charges, including but not limited to water and sewer charges?

YES ☐ NO ☒ If yes, provide an explanation of the circumstances and corrective action taken.

I, Gregory C. Smith, CPA , hereby acknowledge that a materially false statement willfully or fraudulently made in connection with this form may result in rendering the submitting business entity and/or any affiliated entities non-responsible, and, in addition, may subject me to criminal charges.

I, Gregory C. Smith, CPA , hereby certify that I have read and understand all the items contained in this form; that I supplied full and complete answers to each item therein to the best of my knowledge, information and belief; that I will notify the County in writing of any change in circumstances occurring after the submission of this form; and that all information supplied by me is true to the best of my knowledge, information and belief. I understand that the County will rely on the information supplied in this form as additional inducement to enter into a contract with the submitting business entity.

CERTIFICATION

A MATERIALLY FALSE STATEMENT WILLFULLY OR FRAUDULENTLY MADE IN CONNECTION WITH THIS QUESTIONNAIRE MAY RESULT IN RENDERING THE SUBMITTING BUSINESS ENTITY NOT RESPONSIBLE WITH RESPECT TO THE PRESENT BID OR FUTURE BIDS, AND, IN ADDITION, MAY SUBJECT THE PERSON MAKING THE FALSE STATEMENT TO CRIMINAL CHARGES.

H2M architects + engineers

Name of submitting business

Electronically signed and certified at the date and time indicated by:

Gregory C. Smith, CPA GSMITH@H2M.COM

Executive Vice President, Chief Financial Officer

Title

12/14/2023 02:16:45 pm

Date

COUNTY OF NASSAU

CONSULTANT'S, CONTRACTOR'S AND VENDOR'S DISCLOSURE FORM

1. Name of the Entity: H2M Architects, Engineers, Land Surveying and Landscape Architecture, DPC (dba H2M architects + engineers)

Address: 538 Broad Hollow Road, 4th Floor East

City: Melville State/Province/Territory: NY Zip/Postal Code: 11747

Country: US

2. Entity's Vendor Identification Number: [REDACTED]

3. Type of Business: Other (specify) Design Professional Corporation

4. List names and addresses of all principals; that is, all individuals serving on the Board of Directors or comparable body, all partners and limited partners, all corporate officers, all parties of Joint Ventures, and all members and officers of limited liability companies (attach additional sheets if necessary):

9 File(s) uploaded: Detailed Response.pdf, Detailed Response.pdf, Responses to Vendor Disclosure (Shareholders).pdf, Responses to Vendor Disclosure (Shareholders).pdf, Responses to Vendor Disclosure (Shareholders).pdf, Responses to Vendor Disclosure 12-14-23.pdf, Responses to Vendor Disclosure 2-13-22.pdf, Responses to Vendor Disclosure 4-13-22.pdf, Responses to Vendor Disclosure 9-14-23.pdf

5. List names and addresses of all shareholders, members, or partners of the firm. If the shareholder is not an individual, list the individual shareholders/partners/members. If a Publicly held Corporation, include a copy of the 10K in lieu of completing this section.

If none, explain.

See attached. No shareholders own 10% or more of company

8 File(s) uploaded: Detailed Response.pdf, Responses to Vendor Disclosure (Shareholders).pdf, Responses to Vendor Disclosure (Shareholders).pdf, Responses to Vendor Disclosure 1-20-23.pdf, Responses to Vendor Disclosure 12-14-23.pdf, Responses to Vendor Disclosure 2-13-22.pdf, Responses to Vendor Disclosure 4-13-22.pdf, Responses to Vendor Disclosure 9-14-23.pdf

6. List all affiliated and related companies and their relationship to the firm entered on line 1. above (if none, enter "None"). Attach a separate disclosure form for each affiliated or subsidiary company that may take part in the performance of this contract. Such disclosure shall be updated to include affiliated or subsidiary companies not previously disclosed that participate in the performance of the contract.

H2M Associates, Inc. a wholly-owned New Jersey subsidiary providing engineering, planning and environmental services, 119 Cherry Hill Road, Suite 110, Parsippany, New Jersey 07054. H2M Architects & Engineers, Inc. a separate New Jersey corporation providing architectural and related engineering services, 119 Cherry Hill Road, Suite 110, Parsippany, New Jersey 07054. These firms will not be working on the project, therefore we have not included separate disclosures.

7. List all lobbyists whose services were utilized at any stage in this matter (i.e., pre-bid, bid, post-bid, etc.). If none, enter "None." The term "lobbyist" means any and every person or organization retained, employed or designated by any client to influence - or promote a matter before - Nassau County, its agencies, boards, commissions, department heads, legislators or committees, including but not limited to the Open Space and Parks Advisory Committee and Planning Commission. Such matters include, but are not limited to, requests for proposals, development or improvement of real property subject to County regulation, procurements. The term "lobbyist" does not include any officer, director, trustee, employee, counsel or agent of the County of Nassau, or State of New York, when discharging his or her official duties.

Are there lobbyists involved in this matter?
YES ☐ NO ☒

(a) Name, title, business address and telephone number of lobbyist(s):

None, no lobbyists exist.

(b) Describe lobbying activity of each lobbyist. See below for a complete description of lobbying activities.

None, no lobbyists exist.

(c) List whether and where the person/organization is registered as a lobbyist (e.g., Nassau County, New York State):

None, no lobbyists exist.

8. VERIFICATION: This section must be signed by a principal of the consultant, contractor or Vendor authorized as a signatory of the firm for the purpose of executing Contracts.

The undersigned affirms and so swears that he/she has read and understood the foregoing statements and they are, to his/her knowledge, true and accurate.

Electronically signed and certified at the date and time indicated by:
Richard W. Humann, P.E. [RHUMANN@H2M.COM]

Dated: 12/14/2023 03:39:34 pm

Title: President & CEO

The term lobbying shall mean any attempt to influence: any determination made by the Nassau County Legislature, or any member thereof, with respect to the introduction, passage, defeat, or substance of any local legislation or resolution; any determination by the County Executive to support, oppose, approve or disapprove any local legislation or resolution, whether or not such legislation has been introduced in the County Legislature; any determination by an elected County official or an officer or employee of the County with respect to the procurement of goods, services or construction, including the preparation of contract specifications, including by not limited to the preparation of requests for proposals, or solicitation, award or administration of a contract or with respect to the solicitation, award or administration of a grant, loan, or agreement involving the disbursement of public monies; any determination made by the County Executive, County Legislature, or by the County of Nassau, its agencies, boards, commissions, department heads or committees, including but not limited to the Open Space and Parks Advisory Committee, the Planning Commission, with respect to the zoning, use, development or improvement of real property subject to County regulation, or any agencies, boards, commissions, department heads or committees with respect to requests for proposals, bidding, procurement or contracting for services for the County; any determination made by an elected county official or an officer or employee of the county with respect to the terms of the acquisition or disposition by the county of any interest in real property, with respect to a license or permit for the use of real property of or by the county, or with respect to a franchise, concession or revocable consent; the proposal, adoption, amendment or rejection by an agency of any rule having the force and effect of law; the decision to hold, timing or outcome of any rate making proceeding before an agency; the agenda or any determination of a board or commission; any determination regarding the calendaring or scope of any legislature oversight hearing; the issuance, repeal, modification or substance of a County Executive Order; or any determination made by an elected county official or an officer or employee of the county to support or oppose any state or federal legislation, rule or regulation, including any determination made to support or oppose that is contingent on any amendment of such legislation, rule or regulation, whether or not such legislation has been formally introduced and whether or not such rule or regulation has been formally proposed.

RESPONSES TO VENDOR DISCLOSURE FORM

H2M ARCHITECTS, ENGINEERS, LAND SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C.
(D.B.A. H2M architects + engineers)

Questions 4 and 5

Please note: no shareholders own 10% or more of the company.

OFFICERS AND SHAREHOLDERS

NAME	ADDRESS	TITLE
Richard W. Humann, P.E.		Chairman, Chief Executive Office, President
Joseph M. Mottola, AIA		Chief Operating Officer, Executive Vice President, Secretary
Jamie Pizzardi, CPA		Chief Financial Officer, Treasurer, Vice President
Philip J. Schade, P.E.		Chief Market Director, Executive Vice President
Elizabeth C. Uzzo		Executive Vice President
Michael W. Keffer, P.E.		Senior Vice President, Assistant Secretary
Saverio J. Belfiore, AIA		Senior Vice President
Jeffrey L. Czajka, P.E.		Senior Vice President
Patricia DelCol		Senior Vice President
Michael N. Gentils		Senior Vice President
Ernest V. Iannucci, P.E.		Senior Vice President
Paul R. Lageraen, P.E.		Senior Vice President
Ronald B. Lanner, R.A.		Senior Vice President
Joseph A. Manzella, P.E.		Senior Vice President
Charles A. Martello, P.E.		Senior Vice President
James L. Neri, P.E.		Senior Vice President
David J. Pacheco, AIA		Senior Vice President
Guy Y. Page, R.A.		Senior Vice President
Kevin M. Paul, AIA		Senior Vice President

Jay Pisco, P.E.		Senior Vice President
James Roberts, P.E.		Senior Vice President
William Rockensies, P.E.		Senior Vice President
Christopher Weiss, P.E.		Senior Vice President
Mauro M. Bacolo, P.E. 26 Oaklynn Place, Glen Rock NJ 07452		Vice President
Patrick K. Cole, P.E.		Vice President
John R. Collins, P.E.		Vice President
Alan P. Hilla, P.E.		Vice President
Alexander Hochhausl, P.E.		Vice President
Robert E. Ikes, III, R.A.		Vice President
Michael W. Lantier, P.E.		Vice President
Debra L. Mattina		Vice President
Mark E. Meneghin, P.E.		Vice President
Matthew R. Mohlin, P.E.		Vice President
James J. Moran, P.E.		Vice President
James Powers, AIA		Vice President
Sharon Norton Remmer		Vice President
William Rospars, Esq.		Vice President
Richard B. Schommer, P.E.		Vice President
Kevin M. Taylor		Vice President
Joseph Todaro, P.E.		Vice President
Richard Wiedersum, AIA		Vice President
Alison K. Auriemmo, P.E.		Assistant Vice President
Robert F. Bee, R.A.		Assistant Vice President
Nicholas F. Bono, P.E.		Assistant Vice President
Anne Davis		Assistant Vice President
Kenneth R. Gehringer, AIA		Assistant Vice President
Pasquale Iannone, Sr., P.L.S		Assistant Vice President
Kenneth Keltai, R.L.A.		Assistant Vice President

Anthony W. Kim, P.E.		Assistant Vice President
Scott D. Lehn, P.E.		Assistant Vice President
Gregory J. Levasseur, P.E.		Assistant Vice President
Robert J. Lucas, P.E.		Assistant Vice President
Eric W. Maisch, R.A.		Assistant Vice President
Timothy J. McGuire, P.E.		Assistant Vice President
Kevin M. Medler, R.A.		Assistant Vice President
John C. Morris III, P.E.		Assistant Vice President
Alec J. Mittiga, P.E.		Assistant Vice President
Katrina Pacheco, R.A.		Assistant Vice President
Michele A. Pincus, Esq.		Assistant Vice President
R. Joel Richardson, P.E.		Assistant Vice President
John Schnurr, P.L.S.		Assistant Vice President
Jason Smith, R.A.		Assistant Vice President
Patrick O. Stone, R.A.		Assistant Vice President
Michael W. Weber, P.E.		Assistant Vice President

Board of Directors in bold

OTHER SHAREHOLDERS & SENIOR ASSOCIATES

NAME	ADDRESS	TITLE
Philip Bianco		Senior Associate
Sean P. Callahan, P.E.		Senior Associate
Gregory M. Cellamare, P.E.		Senior Associate
Joseph C. Ciserano, AIA		Senior Associate
Joseph F. Cline, P.E.		Senior Associate
Stephanie L. DeCotiis, P.E.		Senior Associate
William Delnero, P.E.		Senior Associate
Arthur M. Eschete, Jr.		Senior Associate
Joseph E. Flynn Ed.D., R.A.		Senior Associate
Jonathan R. Muratore, P.E.		Senior Associate

Richard Palladino	[REDACTED]	Senior Associate
Adam C. Post, R.A.	[REDACTED]	Senior Associate
Daniel K. Ritchie	[REDACTED]	Senior Associate
Charles J. Starke, P.E.	[REDACTED]	Senior Associate
Katherine M. Stone, R.A.	[REDACTED]	Senior Associate

ASSOCIATES

NAME	ADDRESS	TITLE
Debbie E. Aiello	[REDACTED]	Associate
Natalie D. Barber, P.E.	[REDACTED]	Associate
Jerold Blustein	[REDACTED]	Associate
Meghan Burnham, R.A.	[REDACTED]	Associate
Christopher J. Del Gatto, P.E.	[REDACTED]	Associate
Maria DiNatale, R.A.	[REDACTED]	Associate
Lawrence M. Feeley, Jr., R.A.	[REDACTED]	Associate
Paul D. Foerth, P.E.	[REDACTED]	Associate
Dana M. Gearrity, R.A.	[REDACTED]	Associate
Kelly E. Greenfield, R.A.	[REDACTED]	Associate
James Havrilla R.A.	[REDACTED]	Associate
Christopher M. Kobos	[REDACTED]	Associate
Andrew M. Manfredi, P.E.	[REDACTED]	Associate
Cheryl Marraffino	[REDACTED]	Associate
Martha C. Mihaltzes	[REDACTED]	Associate
Joseph L. Mile, AIA	[REDACTED]	Associate
Steven L. Mirra, P.E.	[REDACTED]	Associate
Sujata Pal, P.E.	[REDACTED]	Associate
Nicole Pesce	[REDACTED]	Associate
Dustin J. Rigos, P.E.	[REDACTED]	Associate
Steven Soussou, P.E.	[REDACTED]	Associate
Anthony M. Trombino	[REDACTED]	Associate

Robert E. Wildermuth, AIA		Associate
James J. Williamson, III, P.E.		Associate
Lily Wu		Associate
Todd T. Zabbia		Associate



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/3/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Greyling Ins. Brokerage/EPIC 3780 Mansell Rd. Ste. 370 Alpharetta GA 30022		CONTACT NAME: Rebecca Egan PHONE (A/C, No, Ext): 770-552-4225 E-MAIL ADDRESS: greylingcerts@greyling.com		FAX (A/C, No):
INSURED H2M Architects + Engineers 538 Broad Hollow Road Melville NY 11747		INSURER(S) AFFORDING COVERAGE		NAIC #
		INSURER A: Markel American Insurance Company		28932
		INSURER B: Hartford Underwriters Insurance Company		30104
		INSURER C: Sentinel Insurance Company, Ltd.		11000
		INSURER D: Hartford Casualty Insurance Company		29424
		INSURER E:		
INSURER F:				

COVERAGES

CERTIFICATE NUMBER: 197024619

REVISION NUMBER: 24-25

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC <input type="checkbox"/> OTHER:			20UUGAU9233	1/1/2024	1/1/2025	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000
							MED EXP (Any one person)	\$ 10,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
C	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			20UEGAU7896	1/1/2024	1/1/2025	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
D	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			20XHGYH2145	1/1/2024	1/1/2025	EACH OCCURRENCE	\$ 5,000,000
							AGGREGATE	\$ 5,000,000
								\$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y / N <input checked="" type="checkbox"/> N	N / A	20WBGAT3285	1/1/2024	1/1/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
							E.L. EACH ACCIDENT	\$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
A	Professional Liability			MKLM7PL0002521	1/1/2024	1/1/2025	Per Claim Aggregate	1,000,000 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
County of Nassau is named as an Additional Insured with respects to General Liability where required by written contract.

CERTIFICATE HOLDER**CANCELLATION**

County of Nassau
Department of Health
200 County Seat Drive
Meneola NY 11501

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/3/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Greyling Ins. Brokerage/EPIC 3780 Mansell Rd. Ste. 370 Alpharetta GA 30022		CONTACT NAME: Rebecca Egan PHONE (A/C, No, Ext): 770-552-4225 E-MAIL ADDRESS: greylingcerts@greyling.com		FAX (A/C, No):
INSURED H2M Architects + Engineers 538 Broad Hollow Road Melville NY 11747		INSURER(S) AFFORDING COVERAGE		NAIC #
		INSURER A: Markel American Insurance Company		28932
		INSURER B: Hartford Underwriters Insurance Company		30104
		INSURER C: Sentinel Insurance Company, Ltd.		11000
		INSURER D: Hartford Casualty Insurance Company		29424
		INSURER E:		
INSURER F:				

COVERAGES

CERTIFICATE NUMBER: 197024619

REVISION NUMBER: 24-25

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC <input type="checkbox"/> OTHER:			20UUGAU9233	1/1/2024	1/1/2025	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000
							MED EXP (Any one person)	\$ 10,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
C	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			20UEGAU7896	1/1/2024	1/1/2025	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
D	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			20XHGYH2145	1/1/2024	1/1/2025	EACH OCCURRENCE	\$ 5,000,000
							AGGREGATE	\$ 5,000,000
								\$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y / N <input checked="" type="checkbox"/> N	N / A	20WBGAT3285	1/1/2024	1/1/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
							E.L. EACH ACCIDENT	\$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
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A	Professional Liability			MKLM7PL0002521	1/1/2024	1/1/2025	Per Claim Aggregate	1,000,000 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
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County of Nassau
Department of Health
200 County Seat Drive
Meneola NY 11501

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AUTHORIZED REPRESENTATIVE

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

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PRODUCER Greyling Ins. Brokerage/EPIC 3780 Mansell Rd. Ste. 370 Alpharetta GA 30022		CONTACT NAME: Rebecca Egan PHONE (A/C, No, Ext): 770-552-4225 E-MAIL ADDRESS: greylingcerts@greyling.com		FAX (A/C, No):
INSURED H2M Architects + Engineers 538 Broad Hollow Road Melville NY 11747		INSURER(S) AFFORDING COVERAGE		NAIC #
		INSURER A: Markel American Insurance Company		28932
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County of Nassau
Department of Health
200 County Seat Drive
Meneola NY 11501

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AUTHORIZED REPRESENTATIVE

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CONTRACT FOR SERVICES

THIS AGREEMENT, dated as of _____, 2023 (together with the schedules, appendices, attachments and exhibits, if any, this "Agreement"), between (i) Nassau County, a municipal corporation having its principal office at 1550 Franklin Avenue, Mineola, New York 11501 (the "County"), acting on behalf of the County Department of Health, having its principal office at 200 County Seat Drive, Mineola, New York 11501 (the "Department"), and (ii) the H2M Architects, Engineers, Land Surveying, and Landscape Architecture, DPC., a New York State public corporation, having its principal office at 538 Broad Hollow Rd, Melville, New York 11747 (the "Contractor").

W I T N E S S E T H:

WHEREAS, the County desires to hire the Contractor to perform the services described in this Agreement; and

WHEREAS, this is a personal service contract within the intent and purview of Section 2206 of the County Charter;

WHEREAS, the Contractor desires to perform the services described in this Agreement.

NOW, THEREFORE, in consideration of the premises and mutual covenants contained in this Agreement, the parties agree as follows:

1. Term. This Agreement shall commence upon the date fully executed by all the parties to this Agreement and end on or before 12/31/26, unless sooner terminated in accordance with the provisions of this Agreement.

2. Services. The Contractor shall provide the services as detailed in the attached Appendix B ("Services"). The Contractor shall annually prepare and release a report ("the Report") presenting a compilation of current Nassau County Ground Water and Public Water Supply information for each reporting year. The report shall be entitled "Ground Water and Public Water Supply Facts for Nassau County-XXXX".

3. Payment.

(a) Consideration.

(i) The maximum amount that the County shall pay the Contractor as full consideration for all the Services provided under this Agreement (the "Maximum Amount") shall not exceed Three Hundred Sixty-Four Thousand Five Hundred Dollars (\$364,500.00), payable in accordance with the fee schedule attached to this Agreement as Appendix A.

(ii) Contractor acknowledges that the County will partially encumber funds to be applied toward the Maximum Amount throughout the term of this Agreement, as set forth in Appendix A.

(b) Vouchers: Voucher Review, Approval and Audit. Payments shall be made to the Contractor in arrears and shall be contingent upon (i) the Contractor submitting a claim voucher (the "Voucher") in a form satisfactory to the County, that (a) states with reasonable specificity the services provided and the payment requested as consideration for such services, (b) certifies that the services rendered and the payment requested are in accordance with this Agreement, and (c) is accompanied by documentation satisfactory to the County supporting the amount claimed, and (ii) review, approval and audit of the Voucher by the Department and/or the County Comptroller or his or her duly designated representative (the "Comptroller").

(c) Timing of Payment Claims. The Contractor shall submit claims no later than three months following the County's receipt of the services that are the subject of the claim and no more frequently than once a month.

(d) No Duplication of Payments. Payments under this Agreement shall not duplicate payments for any work performed or to be performed under other agreements between the Contractor and any funding source including the County.

(e) Payments in Connection with Termination or Notice of Termination. Unless a provision of this Agreement expressly states otherwise, payments to the Contractor following the termination of this Agreement shall not exceed payments made as consideration for services that were (i) performed prior to termination, (ii) authorized by this Agreement to be performed, and (iii) not performed after the Contractor received notice that the County did not desire to receive such services.

4. Independent Contractor. The Contractor is an independent contractor of the County. The Contractor shall not, nor shall any officer, director, employee, servant, agent or independent contractor of the Contractor (a "Contractor Agent"), be (i) deemed a County employee, (ii) commit the County to any obligation, or (iii) hold itself, himself, or herself out as a County employee or Person with the authority to commit the County to any obligation. As used in this Agreement the word "Person" means any individual person, entity (including partnerships, corporations and limited liability companies), and government or political subdivision thereof (including agencies, bureaus, offices and departments thereof).

5. No Arrears or Default. The Contractor is not in arrears to the County upon any debt or contract and it is not in default as surety, contractor, or otherwise upon any obligation to the County, including any obligation to pay taxes to, or perform services for or on behalf of, the County

6. Compliance with Law. (a) Generally. The Contractor shall comply with any and all applicable Federal, State and local Laws, including, but not limited to those relating to conflicts of interest, discrimination, a living wage, disclosure of information, vendor registration, and the Health Insurance Portability and Accountability Act of 1996 (as such is and shall be amended from time to time), and the rules and regulations promulgated thereunder, in connection with its performance

under this Agreement. In furtherance of the foregoing, the Contractor is bound by and shall comply with the terms of Appendices EE and L, and Exhibit D (the Business Associate Addendum), attached hereto, and with the County's vendor registration protocol. As used in this Agreement the word "Law" includes any and all statutes, local laws, ordinances, rules, regulations, applicable orders, and/or decrees, as the same may be amended from time to time, enacted, or adopted.

(b) Nassau County Living Wage Law. Pursuant to LL 1-2006, as amended, and to the extent that a waiver has not been obtained in accordance with such law or any rules of the County Executive, the Contractor agrees as follows:

- (i) Contractor shall comply with the applicable requirements of the Living Wage Law, as amended;
- (ii) Failure to comply with the Living Wage Law, as amended, may constitute a material breach of this Agreement, the occurrence of which shall be determined solely by the County. Contractor has the right to cure such breach within thirty days of receipt of notice of breach from the County. In the event that such breach is not timely cured, the County may terminate this Agreement as well as exercise any other rights available to the County under applicable law.
- (iii) It shall be a continuing obligation of the Contractor to inform the County of any material changes in the content of its certification of compliance, attached to this Agreement as Appendix L, and shall provide to the County any information necessary to maintain the certification's accuracy.

(c) Records Access. The parties acknowledge and agree that all records, information, and data ("Information") acquired in connection with performance or administration of this Agreement remains the sole property of the County and shall be used and disclosed solely for the purpose of performance and administration of the Agreement or as required by Law. The Contractor acknowledges that Contractor Information in the County's possession may be subject to disclosure under Article 6 of the New York State Public Officer's Law ("Freedom of Information Law" or "FOIL"). In the event that such a request for disclosure is made, the County shall make reasonable efforts to notify the Contractor of such request prior to disclosure of the Information so that the Contractor may take such action as it deems appropriate.

(d) Prohibition of Gifts. In accordance with County Executive Order 2-2018, the Contractor shall not offer, give, or agree to give anything of value to any County employee, agent, consultant, construction manager, or other person or firm representing the County (a "County Representative"), including members of a County Representative's immediate family, in connection with the performance by such County Representative of duties involving transactions with the Contractor on behalf of the County, whether such duties are related to this Agreement or any other County contract or matter. As used herein, "anything of value" shall include, but not be limited to, meals, holiday gifts, holiday baskets, gift cards, tickets to golf outings, tickets to sporting events, currency of any kind, or any other gifts, gratuities, favorable opportunities or preferences. For purposes of this subsection, an immediate family member shall include a spouse, child, parent, or sibling. The Contractor shall include the provisions of this subsection in each subcontract entered into under this Agreement.

(e) Disclosure of Conflicts of Interest. In accordance with County Executive Order 2-2018, the Contractor has disclosed as part of its response to the County's Business History Form, or other disclosure form(s), any and all instances where the Contractor employs any spouse, child, or parent of a County employee of the agency or department that contracted or procured the goods and/or services described under this Agreement. The Contractor shall have a continuing obligation, as circumstances arise, to update this disclosure throughout the term of this Agreement.

(f) Vendor Code of Ethics. By executing this Agreement, the Contractor hereby certifies and covenants that:

- (i) The Contractor has been provided a copy of the Nassau County Vendor Code of Ethics issued on June 5, 2019, as may be amended from time to time (the "Vendor Code of Ethics"), and will comply with all of its provisions;
- (ii) All of the Contractor's Participating Employees, as such term is defined in the Vendor Code of Ethics (the "Participating Employees"), have been provided a copy of the Vendor Code of Ethics prior to their participation in the underlying procurement;
- (iii) All Participating Employees have completed the acknowledgment required by the Vendor Code of Ethics;
- (iv) The Contractor will retain all of the signed Participating Employee acknowledgements for the period it is required to retain other records pertinent to performance under this Agreement;
- (v) The Contractor will continue to distribute the Vendor Code of Ethics, obtain signed Participating Employee acknowledgments as new Participating Employees are added or changed during the term of this Agreement, and retain such signed acknowledgments for the period the Contractor is required to retain other records pertinent to performance under this Agreement; and
- (vi) The Contractor has obtained the certifications required by the Vendor Code of Ethics from any subcontractors or other lower tier participants who have participated in procurements for work performed under this Agreement.

7. Minimum Service Standards. Regardless of whether required by Law: (a) The Contractor shall, and shall cause Contractor Agents to, conduct its, his or her activities in connection with this Agreement so as not to endanger or harm any Person or property.

(b) The Contractor shall deliver services under this Agreement in a professional manner consistent with the best practices of the industry in which the Contractor operates. The Contractor shall take all actions necessary or appropriate to meet the obligation described in the immediately preceding sentence, including obtaining and maintaining, and causing all Contractor Agents to obtain and maintain, all approvals, licenses, and certifications ("Approvals") necessary or appropriate in connection with this Agreement.

(c) In connection with the termination or impending termination of this Agreement the Contractor shall, regardless of the reason for termination, take all actions reasonably requested by the County (including those set forth in other provisions of this Agreement) to assist the County in transitioning the Contractor's responsibilities under this Agreement. The provisions of this subsection shall survive the termination of this Agreement.

8. Indemnification; Defense; Cooperation. (a) The Contractor shall be responsible for and shall indemnify and hold harmless the County, the Department and its officers, employees, and agents (the "Indemnified Parties") from and against any and all third party liabilities, losses, costs, expenses (including, without limitation, attorneys' fees and disbursements) and damages ("Losses"), to the extent caused by any negligent acts or omissions of the Contractor or a Contractor Agent, regardless of whether due to negligence, fault, or default, including Losses in connection with any threatened investigation, litigation or other proceeding or preparing a defense to the same; provided, however, that the Contractor shall not be responsible for that portion, if any, of a Loss that is caused by the negligence of the County.

(b) The Contractor shall, upon the County's demand and at the County's direction, promptly and diligently defend, at the Contractor's own risk and expense, any and all suits, actions, or proceedings which may be brought or instituted against one or more Indemnified Parties for which the Contractor is responsible under this Section, and, further to the Contractor's indemnification obligations, the Contractor shall pay and satisfy any judgment, decree, loss or settlement in connection therewith.

(c) The Contractor shall, and shall cause Contractor Agents to, cooperate with the County and the Department in connection with the investigation, defense or prosecution of any action, suit or proceeding in connection with this Agreement, including the acts or omissions of the Contractor and/or a Contractor Agent in connection with this Agreement.

(d) The provisions of this Section shall survive the termination of this Agreement."

9. Insurance. (a) Types and Amounts. The Contractor shall obtain and maintain throughout the term of this Agreement, at its own expense: (i) one or more policies for commercial general liability insurance, which policy(ies) shall name "Nassau County" as an additional insured and have a minimum single combined limit of liability of not less than one million dollars (\$1,000,000) per occurrence and two million dollars (\$2,000,000) aggregate coverage, (ii) if contracting in whole or part to provide professional services, one or more policies for professional liability insurance, which policy(ies) shall have a minimum single combined limit liability of not less than one million dollars (\$1,000,000) per occurrence and two million dollars (\$2,000,000) aggregate coverage, (iii) compensation insurance for the benefit of the Contractor's employees ("Workers' Compensation Insurance"), which insurance is in compliance with the New York State Workers' Compensation Law, and (iv) such additional insurance as the County may from time to time specify.

(b) Acceptability; Deductibles; Subcontractors. All insurance obtained and maintained by the Contractor pursuant to this Agreement shall be (i) written by one or more commercial insurance carriers licensed to do business in New York State and acceptable to the County, and

(ii) in form and substance acceptable to the County. The Contractor shall be solely responsible for the payment of all deductibles to which such policies are subject. The Contractor shall require any subcontractor hired in connection with this Agreement to carry insurance with the same limits and provisions required to be carried by the Contractor under this Agreement.

(c) Delivery; Coverage Change; No Inconsistent Action. Prior to the execution of this Agreement, copies of current certificates of insurance evidencing the insurance coverage required by this Agreement shall be delivered to the Department. Not less than 30 days prior to the date of any expiration or renewal of, or actual, proposed or threatened reduction or cancellation of coverage under any insurance required hereunder, the Contractor shall provide written notice to the Department of the same and deliver to the Department renewal or replacement certificates of insurance. The Contractor shall cause all insurance to remain in full force and effect throughout the term of this Agreement and shall not take or omit to take any action that would suspend or invalidate any of the required coverages. The failure of the Contractor to maintain Workers' Compensation Insurance shall render this contract void and of no effect. The failure of the Contractor to maintain the other required coverages shall be deemed a material breach of this Agreement upon which the County reserves the right to consider this Agreement terminated as of the date of such failure.

10. Assignment; Amendment; Waiver; Subcontracting. This Agreement and the rights and obligations hereunder may not be in whole or part (i) assigned, transferred or disposed of, (ii) amended, (iii) waived, or (iv) subcontracted, without the prior written consent of the County Executive or his or her duly designated deputy (the "County Executive"), and any purported assignment, other disposal or modification without such prior written consent shall be null and void. The failure of a party to assert any of its rights under this Agreement, including the right to demand strict performance, shall not constitute a waiver of such rights.

11. Termination. (a) Generally. This Agreement may be terminated (i) for any reason by the County upon 30 days' written notice to the Contractor, (ii) for "Cause" by the County immediately upon the receipt by the Contractor of written notice of termination, (iii) upon mutual written Agreement of the County and the Contractor, and (iv) in accordance with any other provisions of this Agreement expressly addressing termination.

As used in this Agreement the word "Cause" includes: (i) a breach of this Agreement; (ii) the failure to obtain and maintain in full force and effect all Approvals required for the services described in this Agreement to be legally and professionally rendered; and (iii) the termination or impending termination of federal or state funding for the services to be provided under this Agreement.

(b) By The Contractor. This Agreement may be terminated by the Contractor if performance becomes impracticable through no fault of the Contractor, where the impracticability relates to the Contractor's ability to perform its obligations and not to a judgment as to convenience or the desirability of continued performance. Termination under this subsection shall be effected by the Contractor delivering to the commissioner or other head of the Department (the "Commissioner"), at least 90 days prior to the termination date (or a shorter period if 90 days' notice is impossible), a notice stating (i) that the Contractor is terminating this Agreement in accordance with this subsection, (ii) the date as of which this Agreement will

terminate, and (iii) the facts giving rise to the Contractor's right to terminate under this subsection. A copy of the notice given to the Commissioner shall be given to the Deputy County Executive who oversees the administration of the Department (the "Applicable DCE") on the same day that notice is given to the Commissioner.

(c) Contractor Assistance upon Termination. In connection with the termination or impending termination of this Agreement, the Contractor shall, regardless of the reason for termination, take all actions reasonably requested by the County (including those set forth in other provisions of this Agreement) to assist the County in transitioning the Contractor's responsibilities under this Agreement. The provisions of this subsection shall survive the termination of this Agreement.

12. Accounting Procedures; Records. The Contractor shall maintain and retain, for a period of six years following the later of termination of or final payment under this Agreement, complete and accurate records, documents, accounts and other evidence, whether maintained electronically or manually ("Records"), pertinent to performance under this Agreement. Records shall be maintained in accordance with Generally Accepted Accounting Principles. Such Records shall at all times be available for audit and inspection by the Comptroller, the Department, any other governmental authority with jurisdiction over the provision of services hereunder and/or the payment therefore, and any of their duly designated representatives. The provisions of this Section shall survive the termination of this Agreement.

13. Limitations on Actions and Special Proceedings Against the County. No action or special proceeding shall lie or be prosecuted or maintained against the County upon any claims arising out of or in connection with this Agreement unless:

(a) Notice. At least 30 days prior to seeking relief the Contractor shall have presented the demand or claim(s) upon which such action or special proceeding is based in writing to the Applicable DCE for adjustment and the County shall have neglected or refused to make an adjustment or payment on the demand or claim for 30 days after presentment. The Contractor shall send or deliver copies of the documents presented to the Applicable DCE under this Section to each of (i) the Department and the (ii) the County Attorney (at the address specified above for the County) on the same day that documents are sent or delivered to the Applicable DCE. The complaint or necessary moving papers of the Contractor shall allege that the above-described actions and inactions preceded the Contractor's action or special proceeding against the County.

(b) Time Limitation. Such action or special proceeding is commenced within the earlier of (i) one year of the first to occur of (A) final payment under or the termination of this Agreement, and (B) the accrual of the cause of action, and (ii) the time specified in any other provision of this Agreement.

14. Consent to Jurisdiction and Venue; Governing Law. Unless otherwise specified in this Agreement or required by Law, exclusive original jurisdiction for all claims or actions with respect to this Agreement shall be in the Supreme Court in Nassau County in New York State and the parties expressly waive any objections to the same on any grounds, including venue and forum non conveniens. This Agreement is intended as a contract under, and shall be governed

and construed in accordance with, the Laws of New York State, without regard to the conflict of laws provisions thereof.

15. Notices. Any notice, request, demand or other communication required to be given or made in connection with this Agreement shall be (a) in writing, (b) delivered or sent (i) by hand delivery, evidenced by a signed, dated receipt, (ii) postage prepaid via certified mail, return receipt requested, or (iii) overnight delivery via a nationally recognized courier service, (c) deemed given or made on the date the delivery receipt was signed by a County employee, three business days after it is mailed or one business day after it is released to a courier service, as applicable, and (d)(i) if to the Department, to the attention of the Commissioner at the address specified above for the Department, (ii) if to an Applicable DCE, to the attention of the Applicable DCE (whose name the Contractor shall obtain from the Department) at the address specified above for the County, (iii) if to the Comptroller, to the attention of the Comptroller at 240 Old Country Road, Mineola, NY 11501, and (iv) if to the Contractor, to the attention of the person who executed this Agreement on behalf of the Contractor at the address specified above for the Contractor, or in each case to such other persons or addresses as shall be designated by written notice.

16. All Legal Provisions Deemed Included; Severability; Supremacy. (a) Every provision required by Law to be inserted into or referenced by this Agreement is intended to be a part of this Agreement. If any such provision is not inserted or referenced or is not inserted or referenced in correct form then (i) such provision shall be deemed inserted into or referenced by this Agreement for purposes of interpretation and (ii) upon the application of either party this Agreement shall be formally amended to comply strictly with the Law, without prejudice to the rights of either party.

(b) In the event that any provision of this Agreement shall be held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

(c) Unless the application of this subsection will cause a provision required by Law to be excluded from this Agreement, in the event of an actual conflict between the terms and conditions set forth above the signature page to this Agreement and those contained in any schedule, exhibit, appendix, or attachment to this Agreement, the terms and conditions set forth above the signature page shall control. To the extent possible, all the terms of this Agreement should be read together as not conflicting.

(d) The following appendices are attached hereto and are made a part of this Agreement:

Appendix A	Fee Schedule
Appendix B	Services
Exhibit D	Business Associate Addendum
Appendix EE	Equal Employment Opportunities for Minorities and Women
Appendix L	Certificate of Compliance

17. Section and Other Headings. The section and other headings contained in this Agreement are for reference purposes only and shall not affect the meaning or interpretation of this Agreement.

18. Entire Agreement. This Agreement represents the full and entire understanding and agreement between the parties with regard to the subject matter hereof and supersedes all prior agreements (whether written or oral) of the parties relating to the subject matter of this Agreement.

19. Administrative Service Charge. The Contractor agrees to pay the County an administrative service charge of Five Hundred Thirty-Three dollars (\$533) for the processing of this Agreement pursuant to Ordinance 74-1979, as amended by Ordinances 201-2001, 128-2006 and 153-2018. The administrative service charge shall be due and payable to the County by the Contractor upon signing this Agreement. Contractor checks for the administrative service charge should be payable to the order of "Nassau County."

20. Executory Clause. Notwithstanding any other provision of this Agreement:

(a) Approval and Execution. The County shall have no liability under this Agreement (including any extension or other modification of this Agreement) to any Person unless (i) all County approvals have been obtained, including, if required, approval by the County Legislature, and (ii) this Agreement has been executed by the County Executive (as defined in this Agreement).

(b) Availability of Funds. The County shall have no liability under this Agreement (including any extension or other modification of this Agreement) to any Person beyond funds appropriated or otherwise lawfully available for this Agreement, and, if any portion of the funds for this Agreement are from the state and/or federal governments, then beyond funds available to the County from the state and/or federal governments.

21. Work Performance Liability. The Contractor is and shall remain primarily liable for the successful completion of all work in accordance with this Agreement irrespective of whether the Contractor is using a Contractor Agent to perform some or all of the work contemplated by this Agreement, and irrespective of whether the use of such Contractor Agent has been approved by the County.

[Remainder of Page Intentionally Left Blank.]

IN WITNESS WHEREOF, the Contractor and the County have executed this Agreement as of the date first above written.

**H2M Architects, Engineers, Land Surveying,
and Landscape Architecture, DPC.**

By: _____

Name: _____

Title: _____

Date: _____

NASSAU COUNTY

By: _____

Name: _____

Title: County Executive

☐ Chief Deputy County Executive

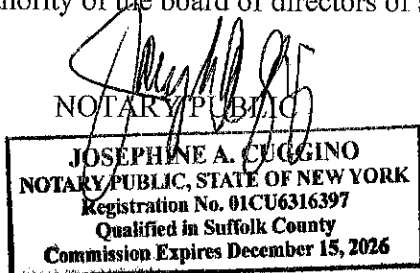
☐ Deputy County Executive

Date: _____

PLEASE EXECUTE IN BLUE INK

STATE OF NEW YORK }
COUNTY OF NASSAU } ss.:

On the 22nd day of December in the year 2023 before me personally came Richard W. Humann to me personally known, who, being by me duly sworn, did depose and say that he or she resides in the County of Suffolk; that he or she is the President / CEO of H2M Architectural Engineers, the corporation described herein and which executed the above instrument; and that he or she signed his or her name thereto by authority of the board of directors of said corporation.



STATE OF NEW YORK }
COUNTY OF NASSAU } ss.:

On the ____ day of _____ in the year 20__ before me personally came _____ to me personally known, who, being by me duly sworn, did depose and say that he or she resides in the County of _____; that he or she is a Deputy County Executive of the County of Nassau, the municipal corporation described herein and which executed the above instrument; and that he or she signed his or her name thereto pursuant to Section 205 of the County Government Law of Nassau County.

NOTARY PUBLIC

Appendix A

FEE SCHEDULE

Reimbursement to provide yearly Groundwater Fact Reports:

2021 Report:	\$75,000.00
2022 Report:	\$72,000.00
2023 Report:	\$70,500.00
2024 Report:	\$72,500.00
2025 Report:	\$74,500.00
Total:	<u>\$364,500.00</u>

Appendix B

Services

Scope of work:

The Contractor specifically agrees to:

- i. Entitle the Report "Ground Water and Public Water Supply Facts for Nassau County, NY-XXXX" and issued no later than August 31 of each year;
- ii. Base the Report on data collected during the preceding calendar year from the 46 public water supply systems and indicate year on the title of the Report;
- iii. Follow the outline attached to this document (Appendices – C & D) which references sections and tables from the 1999 Ground Water and Public Water Supply Facts for Nassau County;
- iv. Create the Report as a compilation and analysis of public water supply data provided from sources such as, the Nassau County Department of Health; the public water suppliers; Nassau County Department of Public Works; and/or United States Geological Survey;
- v. Conduct bimonthly status meetings with Nassau County Department of Health prior to the report deliverable date noted below;
- vi. Provide the Department with electronic copies (non-PDF) of the Report during the development for the purpose of editing by either the Contractor and/or the Department;
- vii. Provide a final draft copy of the Report 60 days prior to the due date of August 31, each year
- viii. Incorporate into the Report any additional tables and charts provided by the Nassau County Department of Health;
- ix. The RFP is for a total of five reports covering the years 2021 through 2025. The first 3 reports are for the calendar years 2021, 2022 and 2023 and are all due eight (8) months after the contract is executed by Nassau County.

EXHIBIT D

Business Associate Addendum

This addendum ("Addendum") is effective as of _____, and amends and is made part of an agreement dated as of _____ (as the same may be amended, modified, or supplemented, including, without limitation, by this Addendum, the "Agreement") by and between _____ (the "Contractor") and Nassau County, a New York municipal corporation, acting on behalf of the County Department of Health (collectively, the "County"). The County, and the Contractor mutually agree to modify the Agreement to incorporate the terms and conditions of this Addendum to comply with the requirements of the Health Insurance Portability and Accountability Act of 1996, as amended, and its implementing regulations (45 C.F.R. Parts 160-164) (collectively, "HIPAA").

WITNESSETH:

WHEREAS, the County wishes to allow the Contractor to have access to Protected Health Information ("PHI"), including but not limited to, Electronic Protected Health Information ("EPHI") which is either provided to the Contractor by the County, or received, viewed, or created by the Contractor on behalf of the County in the course of performing the Services hereinafter set forth;

WHEREAS, the Contractor requires access to such PHI and EPHI to effectively perform the Services;

WHEREAS, the County is required by the Privacy and Security Rules promulgated pursuant to HIPAA to have a written agreement with the Contractor with respect to the use and disclosure of PHI and EPHI; and

WHEREAS, the parties desire to enter into this Addendum to set forth the terms and conditions pursuant to which PHI and EPHI will be handled by the Contractor and certain third parties, as applicable, during the duration of the Agreement of which it is a part, and upon that Agreement's termination, cancellation, expiration, or other conclusion.

NOW, THEREFORE, in consideration of the mutual promises and covenants set forth herein, and for other good and valuable consideration, the receipt of which is hereby mutually acknowledged, the parties hereby agree as follows:

1. DEFINITIONS

Capitalized terms used, but not otherwise defined, in this Addendum shall have the meaning set forth in HIPAA at 45 CFR §§160.103, 164.103 and 164.501.

1.1 Designated Record Set. "Designated Record Set" shall have the meaning set forth in 45 C.F.R. §164.501.

1.2 Electronic Protected Health Information. "Electronic Protected Health Information" or "EPHI" shall have the meaning set forth in 45 C.F.R. § 160.103.

1.3 HHS. "HHS" shall mean the U.S. Department of Health and Human Services, or any successor agency thereto.

1.4 Individual. "Individual" shall have the same meaning as the term "individual" set forth in 45 CFR §160.103 and shall include a person who qualifies as a personal representative in accordance with 45 CFR §164.502(g).

1.5 Privacy Officer. "Privacy Officer" shall have the meaning set forth in 45 C.F.R. §164.530(a)(1).

1.6 Privacy Rule. "Privacy Rule" shall mean the Standards for Privacy of Individually Identifiable Health Information provided at 45 CFR Part 160 and Part 164.

1.7 Protected Health Information or PHI. "Protected Health Information," or "PHI" shall have the same meaning as the term "protected health information" set forth in 45 CFR § 160.103.

1.8 Required by Law. "Required by Law" shall have the same meaning as the term "required by law" in 45 CFR §164.103.

1.9 Secretary. "Secretary" shall mean the Secretary of the Department of Health and Human Services or his or her designee, or their respective successors.

1.10 Security Incident. "Security Incident" shall mean the attempted or successful unauthorized access, use, disclosure, modification, or destruction of information or interference with systems operations in an information system.

1.11 Security Rule. "Security Rule" shall mean the Security Standards for the Protection of Electronic Protected Health Information at 45 C.F.R. Part 160 and Part 164.

1.12 Standard Transactions. "Standard Transactions" shall have the meaning set forth in 45 C.F.R. §162.103.

2. PERMITTED USES AND DISCLOSURES OF PROTECTED HEALTH INFORMATION BY THE CONTRACTOR

2.1 Use and Disclosure to Provide the Services to the Contractor. The Contractor provides or will provide to, for, or on behalf of the County certain services (the "Services"), which Services require the use and/or disclosure of PHI pursuant to and as described in the Agreement, of which this Addendum is made a part. Except as otherwise expressly provided herein, the Contractor may use or disclose PHI in relation to such Services only as necessary to comply with applicable state and federal laws and to satisfy its obligations hereunder, as long as such use or disclosure of PHI would not violate (a) the Privacy Rule if done by the County and (b) any other applicable federal or state law which imposes requirements of confidentiality on the use and/or disclosure of PHI more stringent than those imposed by the Privacy Rule ("Other Legal Requirements"). If there shall exist any conflict between the requirements of the Privacy Rule and the Other Legal Requirements, the Contractor shall comply with both, to the extent possible, and otherwise with the more stringent requirements. All other uses or disclosures of the PHI not expressly authorized herein are strictly prohibited.

2.2 Use and Disclosure for Management and Administration Purposes. In addition to the uses and disclosures described above, the Contractor may:

a) use PHI for management and administration purposes and to satisfy any present or future legal responsibilities of the Contractor provided that such uses are permitted under applicable state and federal laws;

b) disclose PHI in its possession to third parties for management and administration purposes and to satisfy any present or future legal responsibilities of the Contractor, provided that the Contractor shall represent to the County, promptly in writing, that: (i) the disclosures are Required by Law, or (ii) the Contractor has obtained from the third party written assurances regarding its confidential

handling of such PHI as required under 45 C.F.R. §164.504(e)(4). For such written assurances to be satisfactory, they must bind the third party to:

i) maintain the confidentiality of PHI in its possession and limit the use and/or disclosure of such PHI to the purposes for which the Contractor disclosed the PHI to the third party, unless otherwise Required by Law; and

ii) immediately notify the Contractor (who shall immediately notify the County) of any instance in which the third party learns of any unauthorized use and/or disclosure of such PHI.

3. RESPONSIBILITIES OF THE CONTRACTOR WITH RESPECT TO PHI

3.1 Contractor's Responsibilities. With respect to any use and/or disclosure of PHI, the Contractor hereby agrees that it shall:

a) use and/or disclose PHI only as permitted or required by this Addendum, as required by the Privacy Rule, or as otherwise Required by Law;

b) implement comprehensive procedures for mitigating any harmful effects from any unauthorized use and/or disclosure of PHI by the Contractor, its agents or subcontractors;

c) report to the County's designated Privacy Officer, in writing, any use and/or disclosure of PHI which is not authorized hereunder of which the Contractor becomes aware or has knowledge within one (1) day of the Contractor's discovery of such unauthorized use and/or disclosure. The Contractor's report of such unauthorized use and/or disclosure shall specify at least: (i) the nature of the unauthorized use and/or disclosure; (ii) the specific PHI that was disclosed; (iii) the party responsible for making the unauthorized use and/or disclosure; (iv) what, if any, actions the Contractor has taken or will take to limit the extent of the unauthorized use(s) and/or disclosure(s), and to mitigate the damage resulting therefrom; (v) what, if any, corrective actions the Contractor has or will take to prevent further unauthorized uses and/or disclosures; (vi) when such corrective measures will be taken (if they have not already been completed), and, as applicable, an explanation of why they have not already been completed; and (vii) provide the County with any other information it reasonably requests;

d) develop, implement, maintain and utilize appropriate administrative, technical, and physical safeguards, in compliance with the Social Security Act § 1173(d) (42 U.S.C. § 1320d-2(d)), the Privacy Rule, and any other regulations now in effect or later issued by HHS which implement HIPAA, to preserve the integrity and confidentiality, and to prevent unauthorized use and/or disclosure, of PHI;

e) require any of its subcontractors and/or agents that receive, use, or have any access to PHI, as authorized by this Addendum, to enter into a written agreement, which agreement shall contain provisions substantially similar to this Addendum, to comply with the same obligations and restrictions as are required of the Contractor hereunder;

f) provide the Secretary of HHS with access to all records, books, agreements, policies, and procedures relating to the use and/or disclosure of PHI for compliance investigations;

g) within ten days of receipt of a written request, provide the County with access to all records, books, agreements, policies, and procedures relating to the use and/or disclosure of PHI for purposes of enabling the County to determine the Contractor's compliance with the terms of this Addendum. Such access shall be at the Contractor's place of business during normal operating hours;

h) within five days of receipt of a written request from the County, provide the County with such information as is requested to permit it to respond to a request by an Individual for an accounting of disclosures of all PHI related to the Individual;

i) subject to Section 7.4 below, within 30 days of the earlier of the termination of the Agreement or this Addendum, return to the County or destroy all PHI in its possession. The Contractor shall not retain any copies of such information in any form; and

j) disclose to its subcontractors, agents, and any other third parties, and request from the County, only the minimum PHI necessary to conduct or fulfill a specific function authorized hereunder.

3.2 Responsibilities of the Contractor with Respect to Access, Amendment, Restrictions, and Accounting of Disclosures of PHI. The Contractor hereby agrees to do the following with respect to providing access to PHI, amending inaccuracies contained in PHI, restrictions regarding PHI, and accounting for disclosures of PHI in its possession:

a) at the request of, and in the time and manner designated by the County, provide access to any PHI contained in a Designated Record Set to the County or to the Individual who is the subject of such PHI or his or her authorized representative, as applicable, to satisfy a request for inspection and/or copying under 45 C.F.R. § 164.524;

b) at the request of, and in the time and manner designated by the County, make any amendment(s) that the County so directs, or permit the County access to amend, any portion of the PHI pursuant to 45 C.F.R. § 164.526 to allow the County to comply with the Privacy Rule;

c) at the request of, and in the time and manner designated by the County, comply with any restrictions that the County has agreed to adhere to with regard to the use and disclosure of PHI of any Individual that materially affects and/or limits the uses and disclosures which are otherwise permitted; and

d) record each disclosure that the Contractor makes of PHI for the County to respond to an Individual's request for an accounting in accordance with 45 C.F.R. §164.528. Such record shall include, but not be limited to: (i) the date of disclosure; (ii) the name and address of the Individual or organization to whom the disclosure was made; (iii) a description of the PHI disclosed; and (iv) a statement of the purpose for the disclosure (collectively the "disclosure information"). If the Contractor makes multiple disclosures of PHI to the same person or entity for a single purpose, the Contractor may provide: (i) the disclosure information for the first disclosure; (ii) the frequency, periodicity, or number of these repetitive disclosures; and (iii) the date of the last of these repetitive disclosures. Such disclosure information must be kept by the Contractor for a period of not less than six (6) years from the date of disclosure.

4. RESPONSIBILITIES OF THE COUNTY WITH RESPECT TO PHI

4.1 Responsibilities of the County. With respect to any use and/or disclosure of PHI, the County hereby undertakes to do the following to the extent material to the PHI held by the Contractor:

a) inform the Contractor of any changes in the County's Notice of Privacy Practices (the "Notice"), which the County provides to Individuals pursuant to 45 C.F.R. §164.520, and provide the Contractor a current copy of such Notice and a copy of all updated versions thereof prior to their effective date;

b) inform the Contractor of any changes in, or withdrawal of, any relevant authorization provided to the County by Individuals pursuant to 45 C.F.R. §164.508, which impact the Contractor under the Agreement;

c) inform the Contractor of any applicable decisions made by any Individual to opt-out of allowing his or her PHI to be used for fundraising activities of the County pursuant to 45 C.F.R. §164.514(f), which impact the Contractor under the Agreement; and

d) notify the Contractor, in writing, of any arrangements permitted or required under 45 C.F.R. parts 160 and 164, which impact the use and/or disclosure of PHI by the Contractor under the Agreement, including, but not limited to, restrictions on use and/or disclosure of PHI as provided for in 45 C.F.R. §164.522 agreed to by the County.

4.2 Responsibilities of the County with Respect to Access, Amendment, Restrictions and Accounting of Disclosures of PHI. The County hereby agrees to do the following regarding access to PHI, amendments to inaccuracies contained in PHI, and restrictions regarding PHI in the Contractor's possession, to the extent material to the PHI held by the Contractor:

a) notify the Contractor, in writing, of any PHI that the County seeks to make available to an Individual pursuant to 45 C.F.R. § 164.524 and the time, manner, and form which the Contractor shall provide such access;

b) notify the Contractor, in writing, of any amendment(s) to PHI in the possession of the Contractor that the Contractor shall make and inform the Contractor of the time, form, and manner in which such amendment(s) shall be made; and

c) notify the Contractor, in writing, of any restrictions that the County has agreed to adhere to with regard to the use and disclosure of PHI of any Individual that materially affects and/or limits the uses and disclosures which are otherwise permitted.

5. RESPONSIBILITIES OF THE CONTRACTOR WITH RESPECT TO EPHI

5.1 The Contractor's Responsibilities. With respect to any use and/or disclosure of EPHI, Contractor agrees that it shall:

a) implement administrative, physical and technical safeguards that reasonably and appropriately protect the confidentiality, integrity, and availability of EPHI that Contractor creates, receives, maintains, or transmits on behalf of the County. Contractor shall be responsible for ensuring that such safeguards are adequate to comply with the requirements of the Security Rule.

b) ensure that any agent to whom it provides EPHI, including a subcontractor, agrees to implement reasonable and appropriate safeguards to protect such EPHI.

c) report to the County, in writing, any Security Incident within three (3) business days of becoming aware of such Security Incident. Without limiting the foregoing, the Contractor shall report to the County regarding whether such Security Incident has resulted in a breach of the Security Rule.

d) upon the County's request, provide the County with immediate access to the Contractor's security systems and programs in order for the County to investigate any Security Incident or to audit the Contractor's security systems and programs. The Contractor acknowledges that the County has the right, but not the obligation, to access and audit the Contractor's security systems and programs.

e) provide the Secretary of HHS with access to all records, books, agreements, policies and procedures relating to the use and/or disclosure of EPHI for compliance investigations.

f) within ten (10) days of receipt of a written request, provide the County with access to all records, books, agreements, policies and procedures relating to the use and/or disclosure of EPHI for purposes of enabling the County to determine the Contractor's compliance with the terms of this Agreement. Such access shall be at the Contractor's place of business during routine operating hours.

6. COMPLIANCE WITH STANDARD TRANSACTIONS

6.1 Compliance with Standard Transactions by the Contractor. If the Contractor conducts in whole or in part Standard Transactions for or on behalf of the County, the Contractor shall:

a) comply and require all subcontractors and agents of the Contractor to comply with each applicable requirement of 45 C.F.R. Part 162; and

b) not enter into, or permit its subcontractors or agents to enter into, any trading partner addendum or agreement in connection with the conduct of Standard Transactions for or on behalf of the County that:

i) alters the definition, data condition, or use of any data element or segment in any Standard Transaction;

ii) adds any elements or segments to the maximum defined data set;

iii) uses any code or data element that is marked "not used" in the Standard Transaction's specifications for execution or is not in the Standard Transaction's specifications for execution; or

iv) changes the meaning or intent of the Standard Transaction's specifications for implementation.

7. TERMS AND TERMINATION

7.1 Term. This Addendum shall become effective as of the date first indicated above, and shall continue in effect until all of the PHI provided by the County to the Contractor, or created or received by the Contractor on behalf of the County, is destroyed or returned to the County, and all other obligations of the parties have been met, unless terminated by the County as provided in Section 7.2. If it is infeasible to return or destroy such PHI, then such PHI shall continue to be protected as set forth in Section 7.4.

7.2 Termination by the County. As provided for under 45 C.F.R. §§ 164.504(e)(2)(iii) and 164.314(a)(2)(i), the County may (a) exercise its rights under Section 7.3 below or (b) immediately terminate the Agreement if the County, in its sole discretion, determines that the Contractor has breached a material term of this Addendum. The County may exercise such right to terminate the Agreement by providing the Contractor with written notice of its intent to terminate specifying the material breach of the Agreement that provides the basis for termination. Such termination will be effective immediately, unless another date is specified in such notice.

7.3 Opportunity to Cure. As provided for under 45 C.F.R. § 164.504(e)(2)(iii) and notwithstanding Section 7.2 hereof, the County may terminate the Agreement, after notice and opportunity to cure as herein provided, if the County, in its sole discretion, determines that the Contractor has unintentionally breached a material term of this Addendum. If the County decides to provide an opportunity to cure in such case, it shall: (a) provide the Contractor with written notice of the existence of

an alleged material breach; and (b) afford the Contractor an opportunity to cure the alleged material breach. Failure to cure within fourteen (14) days shall constitute grounds for the immediate termination of the Agreement by the County.

7.4 Effect of Termination. Upon the termination, cancellation, or any other conclusion of the Agreement, the Contractor shall, if feasible, return to the County or destroy all PHI, in whatever form or medium, pursuant to 45 C.F.R. § 164.504(e)(2)(ii)(I), including, but not limited to, PHI in the possession of its subcontractors and/or agents, within thirty (30) days of the effective date of the termination, cancellation, or other conclusion of the Agreement.

a) Once all PHI in the Contractor's possession or control, including, but not limited to, PHI in the possession or control of its subcontractors and/or agents, has been returned to the County or destroyed, the Contractor shall provide a written certification to the County regarding the return or destruction of such PHI within such thirty (30) day period. Such certification shall be relied upon by the County as a binding representation; and

b) if the Contractor believes that return or destruction of PHI in its possession and/or in the possession of its subcontractors or agents is infeasible, the Contractor shall notify the County of such infeasibility in writing. Said notification shall include, but not be limited to: (i) a statement that the Contractor has, in good faith, determined that it is infeasible to return or destroy the PHI in its possession and/or in the possession of its subcontractors or agents, as applicable, (ii) identification of the PHI that the Contractor believes it is infeasible to return or destroy, and (iii) the specific reasons for such determination. In addition to providing such notification, the Contractor shall certify within such thirty (30) day period that it will and will require its subcontractors or agents, as applicable, to limit any further uses and/or disclosures of such PHI to the purposes that make the return or destruction of the PHI infeasible.

8. INDEMNIFICATION

8.1 Indemnity. The Contractor agrees to indemnify and hold harmless the County and any of its affiliates, officers, directors, employees, attorneys, or agents (collectively, "Indemnitees") from and against any claim, cause of action, liability, damage, cost, or expense, including attorneys' fees and court or proceeding costs, and the fees and costs of enforcement of the indemnification rights provided herein, arising out of or in connection with any non-permitted or violating use or disclosure of PHI or other breach of this Addendum by the Contractor or any subcontractor, agent, person, or entity under the Contractor's control.

8.2 Control of Defense. If any Indemnitees are named a party in any judicial, administrative, or other proceeding arising out of or in connection with any use or disclosure of PHI by the Contractor or any subcontractor, agent, Individual, or organization under the Contractor's control, and such use or disclosure of PHI was not permitted by this Addendum, then any Indemnitee shall have the option at any time either: (i) to tender defense to the Contractor, in which case the Contractor shall provide qualified attorneys, consultants, and other appropriate professionals to represent the Indemnitee's interests at the Contractor's expense, or (ii) undertake its own defense, choosing the attorneys, consultants, and other appropriate professionals to represent its interests, in which case the Contractor shall be responsible for and pay the fees and expenses of such attorneys, consultants, and other professionals.

8.3 Control of Resolution. The Indemnitees shall have the sole right and discretion to settle, compromise, or otherwise resolve any and all claims, causes of actions, liabilities, or damages against them, notwithstanding that the Indemnitees may have tendered their defense to the Contractor. Any such resolution will not relieve the Contractor of its obligation to indemnify the Indemnitees under this Section.

9. CONFIDENTIALITY

This Addendum does not affect any other obligations in the Agreement to the extent not inconsistent herewith or not involving the confidentiality, use, or disclosure of PHI. This Addendum, however, does supersede all other obligations in the Agreement to the extent they are inconsistent herewith and involve the confidentiality, use, or disclosure of PHI.

10. MISCELLANEOUS

10.1 Survival. The respective rights and obligations of the Contractor and the County under the provisions of Sections 3, 4, 5, 7.4, and 8, solely with respect to PHI the Contractor retains in accordance with Section 7.4 because it is not feasible to return or destroy such PHI, shall survive the termination of the Agreement indefinitely. In addition, Section 9 shall survive termination of this Addendum indefinitely, notwithstanding whether the Contractor retains PHI in accordance with Section 7.4 hereto.

10.2 Amendments. The Agreement (including the terms of this Addendum) may not be modified, nor shall any provision of the Agreement be waived or amended, except in a writing duly signed by authorized representatives of the parties and expressly referencing the Agreement. Notwithstanding anything in the Agreement to the contrary, to the extent that the Privacy Rule or Security Rule, or any other applicable law related to the privacy or security of health information is materially amended, updated, or revised following the execution of this Addendum, the parties agree to take such action as is necessary to amend this Addendum from time to time as is necessary for the County to comply with the requirements of HIPAA.

10.3 No Third-Party Beneficiaries. Nothing contained in the Agreement (including, but not limited to, this Addendum), whether express or implied, is intended to confer, nor shall anything herein confer, upon any person other than the parties and their respective successors or assigns of the parties, any rights, remedies, obligations, or liabilities whatsoever in relation to the disclosure or use of PHI.

10.4 Cooperation and Disputes. Each party will reasonably cooperate with the other in the performance of the mutual obligations under this Addendum. If any controversy, dispute, or claim arises between the parties with respect to the Agreement (including, but not limited to, this Addendum), the parties shall make reasonable good faith efforts to resolve such matters informally.

10.5 Regulatory References. Any reference to any part or section of the CFR shall include such part or section as drafted upon the effective date of this Addendum and as it is subsequently updated, amended, supplemented, superseded, or revised.

10.6 Conflicts. Any conflicts or inconsistencies between the terms in this Addendum and terms in other parts of the Agreement shall be resolved in favor of the terms in this Addendum.

10.7 Interpretation. Any ambiguity in the Agreement (including, but not limited to, this Addendum) shall be resolved in favor of a meaning that permits the County to comply to the greatest extent possible with the Privacy Rule, the Security Rule and Other Legal Requirements.

11. HITECH ACT

11.1

- a) Contractor will comply with the requirements of Title XII, Subtitle D of the Health Information Technology for Economic and Clinical Health (hereinafter "HITECH") Act, codified at 42 U.S.C. Sections 17921 – 17954, which are applicable to business associates, and will comply with all regulations issued by the Department of Health and Human Services (hereinafter "HHS") to implement these referenced statutes, as of the date by which business associates are required to comply with such referenced statutes and HHS regulations; and
- b) Contractor will make a report to the County of any breach of unsecured protected health information, as required by 42 U.S.C. Section 17932(b), within five business days of Contractor's discovery of the breach, and
- c) Contractor will indemnify County for any reasonable expenses County incurs in notifying individuals of a breach caused by Contractor or its subcontractors or agents.
- d) Contractor understands it is not in compliance with the HIPAA standards set forth in Sections 164.502(e) and 164.504(e) if the Contractor knows of a pattern of activity or practice that the County engages in which constitutes a material breach or violation of the County's obligation under a contract or other business arrangement, unless the Contractor takes reasonable steps to cure the breach or end the violation, as applicable, and if in taking steps to cure or end the breach it is unsuccessful, the Contractor must terminate the contract or arrangement if feasible, and if not feasible, the Contractor must report the problem to the Secretary.

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IN WITNESS WHEREOF, each of the undersigned has caused this Addendum to be duly executed in its name and on its behalf effective as of the date first indicated above.

NASSAU COUNTY

H2M Architects, Engineers, Land Surveying,
and Landscape Architecture, DPC.

By: _____

Print Name: _____

Title: _____

Date: _____

By:  _____

Print Name: Richard Hermann.

Title: CEO

Date: 12/22/23

APPENDIX EE

Equal Employment Opportunities for Minorities and Women

The provisions of this Appendix EE are hereby made a part of the document to which it is attached.

The Contractor shall comply with all federal, State and local statutory and constitutional anti-discrimination provisions. In addition, Local Law No. 14-2002, entitled "Participation by Minority Group Members and Women in Nassau County Contracts," governs all County Contracts as defined herein and solicitations for bids or proposals for County Contracts. In accordance with Local Law 14-2002:

- (a) The Contractor shall not discriminate against employees or applicants for employment because of race, creed, color, national origin, gender, age, disability or marital status in recruitment, employment, job assignments, promotions, upgradings, demotions, transfers, layoffs, terminations, and rates of pay or other forms of compensation. The Contractor will undertake or continue existing programs related to recruitment, employment, job assignments, promotions, upgradings, transfers, and rates of pay or other forms of compensation to ensure that minority group members and women are afforded equal employment opportunities without discrimination.
- (b) At the request of the County contracting agency, the Contractor shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, union, or representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability, or marital status and that such employment agency, labor union, or representative will affirmatively cooperate in the implementation of the Contractor's obligations herein.
- (c) The Contractor shall state, in all solicitations or advertisements for employees, that, in the performance of the County Contract, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status.
- (d) The Contractor shall make best efforts to solicit active participation by certified minority or women-owned business enterprises ("Certified M/WBEs") as defined in Section 101 of Local Law No. 14-2002, for the purpose of granting of Subcontracts.
- (e) The Contractor shall, in its advertisements and solicitations for Subcontractors, indicate its interest in receiving bids from Certified M/WBEs and the requirement that Subcontractors must be equal opportunity employers.
- (f) Contractors must notify and receive approval from the respective Department Head prior to issuing any Subcontracts and, at the time of requesting such authorization, must submit a signed Best Efforts Checklist.
- (g) Contractors for projects under the supervision of the County's Department of Public Works shall also submit a utilization plan listing all proposed Subcontractors so that, to the

greatest extent feasible, all Subcontractors will be approved prior to commencement of work. Any additions or changes to the list of subcontractors under the utilization plan shall be approved by the Commissioner of the Department of Public Works when made. A copy of the utilization plan any additions or changes thereto shall be submitted by the Contractor to the Office of Minority Affairs simultaneously with the submission to the Department of Public Works.

(h) At any time after Subcontractor approval has been requested and prior to being granted, the contracting agency may require the Contractor to submit Documentation Demonstrating Best Efforts to Obtain Certified Minority or Women-owned Business Enterprises. In addition, the contracting agency may require the Contractor to submit such documentation at any time after Subcontractor approval when the contracting agency has reasonable cause to believe that the existing Best Efforts Checklist may be inaccurate. Within ten working days (10) of any such request by the contracting agency, the Contractor must submit Documentation.

(i) In the case where a request is made by the contracting agency or a Deputy County Executive acting on behalf of the contracting agency, the Contractor must, within two (2) working days of such request, submit evidence to demonstrate that it employed Best Efforts to obtain Certified M/WBE participation through proper documentation.

(j) Award of a County Contract alone shall not be deemed or interpreted as approval of all Contractor's Subcontracts and Contractor's fulfillment of Best Efforts to obtain participation by Certified M/WBEs.

(k) A Contractor shall maintain Documentation Demonstrating Best Efforts to Obtain Certified Minority or Women-owned Business Enterprises for a period of six (6) years. Failure to maintain such records shall be deemed failure to make Best Efforts to comply with this Appendix EE, evidence of false certification as M/WBE compliant or considered breach of the County Contract.

(l) The Contractor shall be bound by the provisions of Section 109 of Local Law No. 14-2002 providing for enforcement of violations as follows:

- a. Upon receipt by the Executive Director of a complaint from a contracting agency that a County Contractor has failed to comply with the provisions of Local Law No. 14-2002, this Appendix EE or any other contractual provisions included in furtherance of Local Law No. 14-2002, the Executive Director will try to resolve the matter.
- b. If efforts to resolve such matter to the satisfaction of all parties are unsuccessful, the Executive Director shall refer the matter, within thirty days (30) of receipt of the complaint, to the American Arbitration Association for proceeding thereon.
- c. Upon conclusion of the arbitration proceedings, the arbitrator shall submit to the Executive Director his recommendations regarding the imposition of sanctions, fines or penalties. The Executive Director shall either (i) adopt the recommendation of the arbitrator (ii) determine that no sanctions, fines or penalties should be imposed or (iii) modify the recommendation of the arbitrator, provided that such modification shall not expand upon any sanction recommended or impose any new sanction, or increase the amount of any recommended fine or penalty. The Executive Director, within ten

days of receipt of the arbitrator's award and recommendations, shall file a determination of such matter and shall cause a copy of such determination to be served upon the respondent by personal service or by certified mail return receipt requested. The award of the arbitrator, and the fines and penalties imposed by the Executive Director, shall be final determinations and may only be vacated or modified as provided in the civil practice law and rules ("CPLR").

(m) The contractor shall provide contracting agency with information regarding all subcontracts awarded under any County Contract, including the amount of compensation paid to each Subcontractor and shall complete all forms provided by the Executive Director or the Department Head relating to subcontractor utilization and efforts to obtain M/WBE participation.

Failure to comply with provisions (a) through (m) above, as ultimately determined by the Executive Director, shall be a material breach of the contract constituting grounds for immediate termination. Once a final determination of failure to comply has been reached by the Executive Director, the determination of whether to terminate a contract shall rest with the Deputy County Executive with oversight responsibility for the contracting agency.

Provisions (a), (b) and (c) shall not be binding upon Contractors or Subcontractors in the performance of work or the provision of services or any other activity that are unrelated, separate, or distinct from the County Contract as expressed by its terms.

The requirements of the provisions (a), (b) and (c) shall not apply to any employment or application for employment outside of this County or solicitations or advertisements therefor or any existing programs of affirmative action regarding employment outside of this County and the effect of contract provisions required by these provisions (a), (b) and (c) shall be so limited.

The Contractor shall include provisions (a), (b) and (c) in every Subcontract in such a manner that these provisions shall be binding upon each Subcontractor as to work in connection with the County Contract.

As used in this Appendix EE the term "Best Efforts Checklist" shall mean a list signed by the Contractor, listing the procedures it has undertaken to procure Subcontractors in accordance with this Appendix EE.

As used in this Appendix EE the term "County Contract" shall mean (i) a written agreement or purchase order instrument, providing for a total expenditure in excess of twenty-five thousand dollars (\$25,000), whereby a County contracting agency is committed to expend or does expend funds in return for labor, services, supplies, equipment, materials or any combination of the foregoing, to be performed for, or rendered or furnished to the County; or (ii) a written agreement in excess of one hundred thousand dollars (\$100,000), whereby a County contracting agency is committed to expend or does expend funds for the acquisition, construction, demolition, replacement, major repair or renovation of real property and improvements thereon. However, the term "County Contract" does not include agreements or orders for the following services: banking services, insurance policies or contracts, or contracts with a County contracting agency for the sale of bonds, notes or other securities.

As used in this Appendix EE the term "County Contractor" means an individual, business enterprise, including sole proprietorship, partnership, corporation, not-for-profit corporation, or any other person or entity other than the County, whether a contractor, licensor, licensee or any other party, that is (i) a party to a County Contract, (ii) a bidder in connection with the award of a County Contract, or (iii) a proposed party to a County Contract, but shall not include any Subcontractor.

As used in this Appendix EE the term "County Contractor" shall mean a person or firm who will manage and be responsible for an entire contracted project.

As used in this Appendix EE "Documentation Demonstrating Best Efforts to Obtain Certified Minority or Women-owned Business Enterprises" shall include, but is not limited to the following:

- a. Proof of having advertised for bids, where appropriate, in minority publications, trade newspapers/notices and magazines, trade and union publications, and publications of general circulation in Nassau County and surrounding areas or having verbally solicited M/WBEs whom the County Contractor reasonably believed might have the qualifications to do the work. A copy of the advertisement, if used, shall be included to demonstrate that it contained language indicating that the County Contractor welcomed bids and quotes from M/WBE Subcontractors. In addition, proof of the date(s) any such advertisements appeared must be included in the Best Effort Documentation. If verbal solicitation is used, a County Contractor's affidavit with a notary's signature and stamp shall be required as part of the documentation.
- b. Proof of having provided reasonable time for M/WBE Subcontractors to respond to bid opportunities according to industry norms and standards. A chart outlining the schedule/time frame used to obtain bids from M/WBEs is suggested to be included with the Best Effort Documentation
- c. Proof or affidavit of follow-up of telephone calls with potential M/WBE subcontractors encouraging their participation. Telephone logs indicating such action can be included with the Best Effort Documentation
- d. Proof or affidavit that M/WBE Subcontractors were allowed to review bid specifications, blueprints and all other bid/RFP related items at no charge to the M/WBEs, other than reasonable documentation costs incurred by the County Contractor that are passed onto the M/WBE.
- e. Proof or affidavit that sufficient time prior to making award was allowed for M/WBEs to participate effectively, to the extent practicable given the timeframe of the County Contract.
- f. Proof or affidavit that negotiations were held in good faith with interested M/WBEs, and that M/WBEs were not rejected as unqualified or unacceptable without sound business reasons based on (1) a thorough investigation of M/WBE qualifications and capabilities reviewed against industry custom and standards and (2) cost of performance. The basis for rejecting any M/WBE

deemed unqualified by the County Contractor shall be included in the Best Effort Documentation

- g. If an M/WBE is rejected based on cost, the County Contractor must submit a list of all sub-bidders for each item of work solicited and their bid prices for the work.
- h. The conditions of performance expected of Subcontractors by the County Contractor must also be included with the Best Effort Documentation
- i. County Contractors may include any other type of documentation they feel necessary to further demonstrate their Best Efforts regarding their bid documents.

As used in this Appendix EE the term "Executive Director" shall mean the Executive Director of the Nassau County Office of Minority Affairs; provided, however, that Executive Director shall include a designee of the Executive Director except in the case of final determinations issued pursuant to Section (a) through (l) of these rules.

As used in this Appendix EE the term "Subcontract" shall mean an agreement consisting of part or parts of the contracted work of the County Contractor.

As used in this Appendix EE, the term "Subcontractor" shall mean a person or firm who performs part or parts of the contracted work of a prime contractor providing services, including construction services, to the County pursuant to a county contract. Subcontractor shall include a person or firm that provides labor, professional or other services, materials or supplies to a prime contractor that are necessary for the prime contractor to fulfill its obligations to provide services to the County pursuant to a county contract. Subcontractor shall not include a supplier of materials to a contractor who has contracted to provide goods but no services to the County, nor a supplier of incidental materials to a contractor, such as office supplies, tools and other items of nominal cost that are utilized in the performance of a service contract.

Provisions requiring contractors to retain or submit documentation of best efforts to utilize certified subcontractors and requiring Department head approval prior to subcontracting shall not apply to inter-governmental agreements. In addition, the tracking of expenditures of County dollars by not-for-profit corporations, other municipalities, States, or the federal government is not required.

Appendix L

Certificate of Compliance

In compliance with Local Law 1-2006, as amended (the "Law"), the Contractor hereby certifies the following:

1. The chief executive officer of the Contractor is:

Richard Humann (Name)
538 BRADHOLLOW ROAD, MIDDLETOWN, NY 11747 (Address)
(631) 756-8000 (Telephone Number)

2. The Contractor agrees to either (1) comply with the requirements of the Nassau County Living Wage Law or (2) as applicable, obtain a waiver of the requirements of the Law pursuant to section 9 of the Law. In the event that the contractor does not comply with the requirements of the Law or obtain a waiver of the requirements of the Law, and such contractor establishes to the satisfaction of the Department that at the time of execution of this agreement, it had a reasonable certainty that it would receive such waiver based on the Law and Rules pertaining to waivers, the County will agree to terminate the contract without imposing costs or seeking damages against the Contractor


3. In the past five years, Contractor _____ has ☒ has not been found by a court or a government agency to have violated federal, state, or local laws regulating payment of wages or benefits, labor relations, or occupational safety and health. If a violation has been assessed against the Contractor, describe below:

4. In the past five years, an administrative proceeding, investigation, or government body-initiated judicial action _____ has ☒ has not been commenced against or relating to the Contractor in connection with federal, state, or local laws regulating payment of wages or benefits, labor relations, or occupational safety and health. If such a proceeding, action, or investigation has been commenced, describe below:

5. Contractor agrees to permit access to work sites and relevant payroll records by authorized County representatives for the purpose of monitoring compliance with the Living Wage Law and investigating employee complaints of noncompliance.

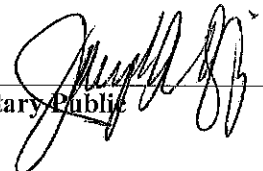
I hereby certify that I have read the foregoing statement and, to the best of my knowledge and belief, it is true, correct and complete. Any statement or representation made herein shall be accurate and true as of the date stated below.

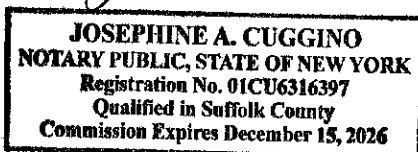
12-22-2023
Dated


Signature of Chief Executive Officer
Richard I. Hermann.
Name of Chief Executive Officer

Sworn to before me this

22nd day of December, 2023


Notary Public



Appendix - C

BRUCE A. BLAKEMAN
NASSAU COUNTY EXECUTIVE



Irina Gelman, DPM, MPH, PhD
Commissioner of Health

NASSAU COUNTY DEPARTMENT OF HEALTH

REQUEST FOR PROPOSAL (RFP): GROUND WATER AND PUBLIC WATER SUPPLY FACTS FOR NASSAU COUNTY

The Following Outline Represents the descriptions to Sections and Tables of the Ground Water and Public Water Supply Facts (RFP – Appendix A)

Cover

- Update

Foreword

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Update with current and most up to date information

Contents

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Update information as needed

Summary of Findings

Pg i

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Update information as needed
- Remove Methyl-Tertiary-Butyl Ether (MTBE) data
- Add detection ratios/percentages of 1,4-Dioxane; Perfluoroalkyl and polyfluoroalkyl substances (PFAS)
- Add detection ratios/percentages of Radiological contaminants (Gross Alpha; Combined Radium 226/228; Uranium; Gross Beta)
- Add detection ratios/percentages of Nitrate
- Add treatment plants for 1,4-Dioxane, PFAS, Nitrate, Perchlorate, and Iron

Water Cycle

Pg 1

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Enhance and add color to diagram

Geologic Section

Pg 2

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Enhance and add color to diagram

Precipitation Data

Pgs 3-7

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Proceed from year 2000 to present



200 COUNTY SEAT DRIVE, MINEOLA, NEW YORK 11501
Phone: 516-227-9692 Fax: 516-227-9613



Typical Public Water System on Long Island

Pg 9

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Enhance and add color to diagram

Public Water Supply Well Cross Section

New pg

- Add a cross section diagram of a typical vertical turbine well

Aquifer Summary

Pg 10

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Add North Shore Aquifer and any other known aquifers not described
- Refer to United States Geological Survey (USGS) and The New York State Department of Environmental Conservation (NYSDEC)

Public Water Supply Information Community Water Systems in Nassau County

Pgs 13-14

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Update information for current year

Community Public Water Systems Depth, Aquifer and Treatment Provided by Well

Pgs 15-26

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Update treatment used per well
- Add all current treatment
- Remove water suppliers that no longer exist
- Add: Beaver Dam has a Cl₂ waiver

Public Water System/Public Supply Well Treatment Summary

Pg 27

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Update to include all new treatments

Volatile Organic Compounds (VOCs) Detections

Pgs 28-32

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Update for current year
- Indicate under Remarks column only if well is active/inactive, out of service (OOS), and treatment plans
- Add highest level detection for current year.
- Remove Design Contaminants from the column header and add Detected Contaminants

1,4-Dioxane; Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Detections

Pgs 28-32

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Add deferrals if needed
- Add planned treatment
- Indicate under Remarks column only if well is active/inactive, out of service (OOS), and treatment plans
- Add footnote below detection table *See Water System Website for Quarterly Updates on Progress of Treatment Installation

<u>Nitrate; Perchlorate Removal and Blending</u>	Pgs 28-32
<ul style="list-style-type: none"> • Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A) • Add all highest-level detections • Add treatment or blending • Indicate under Remarks column only if well is active/inactive, out of service (OOS), and treatment plans 	
<u>Iron; Manganese; Beryllium Removal Plants</u>	Pgs 28-32
<ul style="list-style-type: none"> • Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A) • Update information for current year • Indicate under Remarks column only if well is active/inactive, out of service (OOS), and treatment plans 	
<u>Community Public Water System Estimated Population, Annual Pumpage and Per Capita Daily Consumption</u>	Pg 35
<ul style="list-style-type: none"> • Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A) • Update for current year 	
<u>Total Monthly Public Water System Pumpage in Nassau County</u>	Pg 38
<ul style="list-style-type: none"> • Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A) • Keep existing data • Continue from year 2000 to present 	
<u>Inorganic Chemical Quality Public Water Supply Wells – Raw Water</u>	Pg 46
<ul style="list-style-type: none"> • Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A) • Add 2020 data and continue in 3-year intervals 	
<u>Organic Chemical Levels Detected by Contaminant, Public Water Supply Wells Total (All Aquifers) – Raw Water</u>	Pgs 55-56
<ul style="list-style-type: none"> • Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A) • Add 2020 data and continue in 3-year intervals 	
<u>Specific Organic Chemicals (SOCs) Including Pesticides and Herbicides Detected by Contaminant, Public Supply Wells- Raw Water, Total (All Aquifer)</u>	Pgs 63-64
<ul style="list-style-type: none"> • Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A) • Add 2020 data and continue in 3-year intervals 	
<u>Abandoned Public Supply Wells in Nassau County 1953-Present</u>	Pgs 65-67
<ul style="list-style-type: none"> • Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A) • Update to current year 	
<u>Chronology of Abandoned Public Supply Wells in Nassau County 1953-Present</u>	Pgs 68-69
<ul style="list-style-type: none"> • Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A) • Update to current year 	
<u>Public Supply Wells in Nassau County Affected by Volatile Organic Compounds (VOCs)</u>	Pgs 72-73
<ul style="list-style-type: none"> • Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A) • Update for current year 	

Public Supply Wells in Nassau County Affected by 1,4-Dioxane; Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

Pgs 72-73

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Update for current year

Programs and Actions Taken to Control Sources of Ground Water Contamination in Nassau County

Pg 74

- Refer to 1999 Ground Water and Public Water Supply Facts (RFP – Appendix A)
- Update with current programs

Nassau County Department of Health
Bureau of Environmental Protection

Appendix D

**Ground Water and Public Water Supply
Facts For Nassau County, New York**

1999



Thomas S. Gulotta
County Executive



David M. Ackman, M.D., M.P.H.
Commissioner

Nassau County Department of Health
Bureau of Environmental Protection

Ground Water and Public Water Supply
Facts For Nassau County, New York
1999

Prepared by: Louis J. Famiglietti, Chief, Office of Water Supply Regulation
Donald P. Irwin, Public Health Sanitarian

Administrative Staff

Bruce B. Smith, P.E., Director, Division of Environmental Health
Michael J. Alarcon, P.E., Director, Bureau of Environmental Protection
Pedro Franco, M.D., Director, Nassau County Department of Health Laboratory

Thomas S. Gulotta
County Executive

David M. Ackman, M.D., M.P.H.
Commissioner

FOREWORD

The drinking water in Nassau County is obtained from a vast ground water resource that underlies Long Island. This water is distributed to the County's 1.3 million residents by 54 public water systems utilizing 398 public supply wells. The goal of this Department and of every public water system is to provide safe and potable drinking water to the residents of Nassau County. The water delivered by Nassau County public water systems is of excellent quality, meeting and usually exceeding federal, State and local drinking water standards and/or guidelines.

This report presents a compilation of 1999 ground water and public water supply information for Nassau County and is part of the Nassau County Department of Health's programs in public water supply monitoring and protection. All water quality analyses were performed by New York State Department of Health approved laboratories, including the Nassau County Department of Health Laboratory.

Inquiries concerning this report and/or requests for additional copies should be addressed to:

Nassau County Department of Health
Bureau of Environmental Protection
Water Supply Program
240 Old Country Road
Mineola, New York 11501

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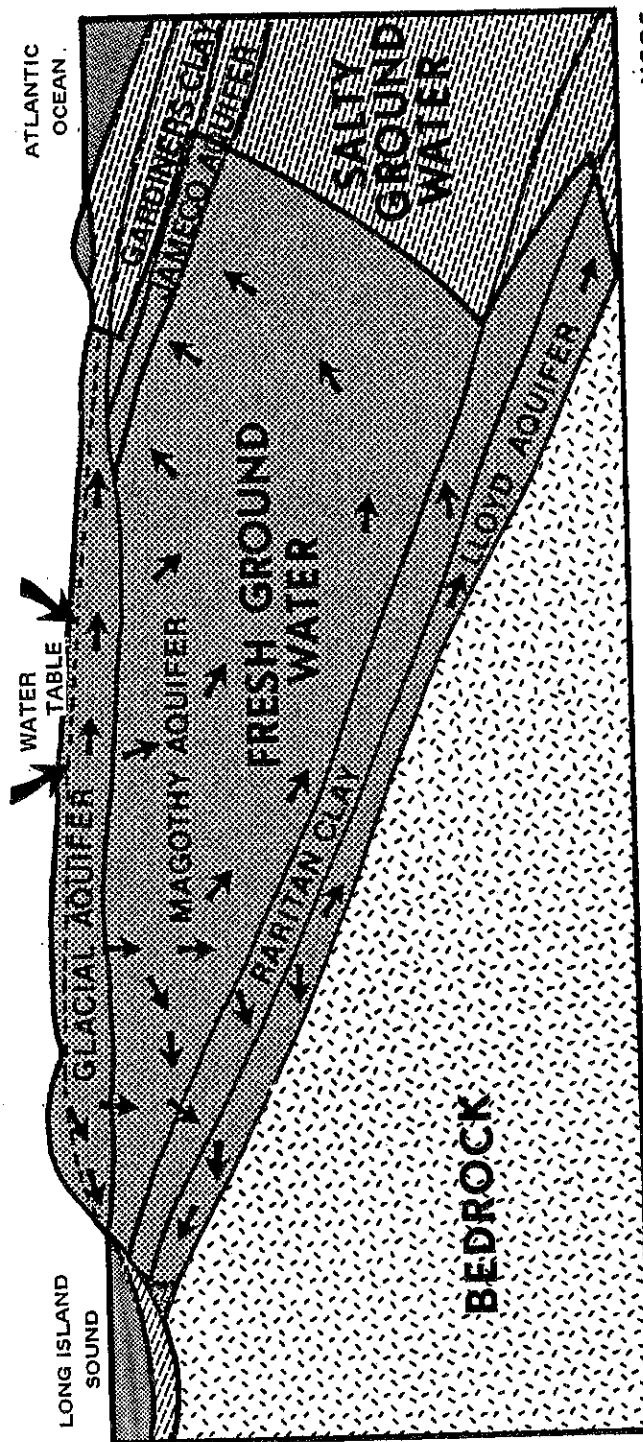
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Ground Water and Public Water Supply Facts for Nassau County, 1999

SUMMARY OF FINDINGS

- 1. In 1999, Nassau County's 54 public water systems withdrew their water from 398 public supply wells – 84 percent of these wells were screened in the Magothy Aquifer, 11 percent in the Lloyd Aquifer and 5 percent in the Upper Glacial Aquifer.**
- 2. The public water systems in Nassau County exhibited no source water Maximum Contaminant Level (MCL) violations for organic and inorganic chemical contaminants in 1999.**
- 3. Currently, 89 percent of Nassau County residents from 42 public water systems receive chlorinated drinking water. Twelve water systems in Nassau County have chlorination waivers for the 1999–2001 period.**
- 4. In 1999, 42 of 54 public water systems in the County utilized corrosion control treatment (addition of either caustic soda or lime).**
- 5. In 1999, 22 water systems in the County had at least one public supply well utilizing treatment for the removal of volatile organic chemicals. A total of 86 wells in the County apply this treatment.**
- 6. Approximately 40 percent of the public supply wells tested in Nassau County had detections of volatile organic chemicals in 1999. The chemicals most frequently detected were trichloroethylene (detected in 22 percent of the wells tested), tetrachloroethylene (21%) and 1,1,1-trichloroethane (19%).**
- 7. Although pesticides and herbicides have not been found in Nassau County's drinking water, they were detected in 10 of 219 public supply wells tested in 1999. Ethylene Dibromide and Atrazine were the only pesticides detected above their MCL.**
- 8. In 1999, MTBE (Methyl-Tertiary-Butyl Ether) was detected in approximately 7 percent of the public supply wells tested. The routine monitoring of MTBE by Nassau County public water systems was first required by this Department in 1998.**

GEOLOGIC SECTION **NASSAU COUNTY, NEW YORK**



Source: USGS

Not to scale

NASSAU COUNTY DEPARTMENT OF HEALTH

PRECIPITATION AT MINEOLA

1937-1999

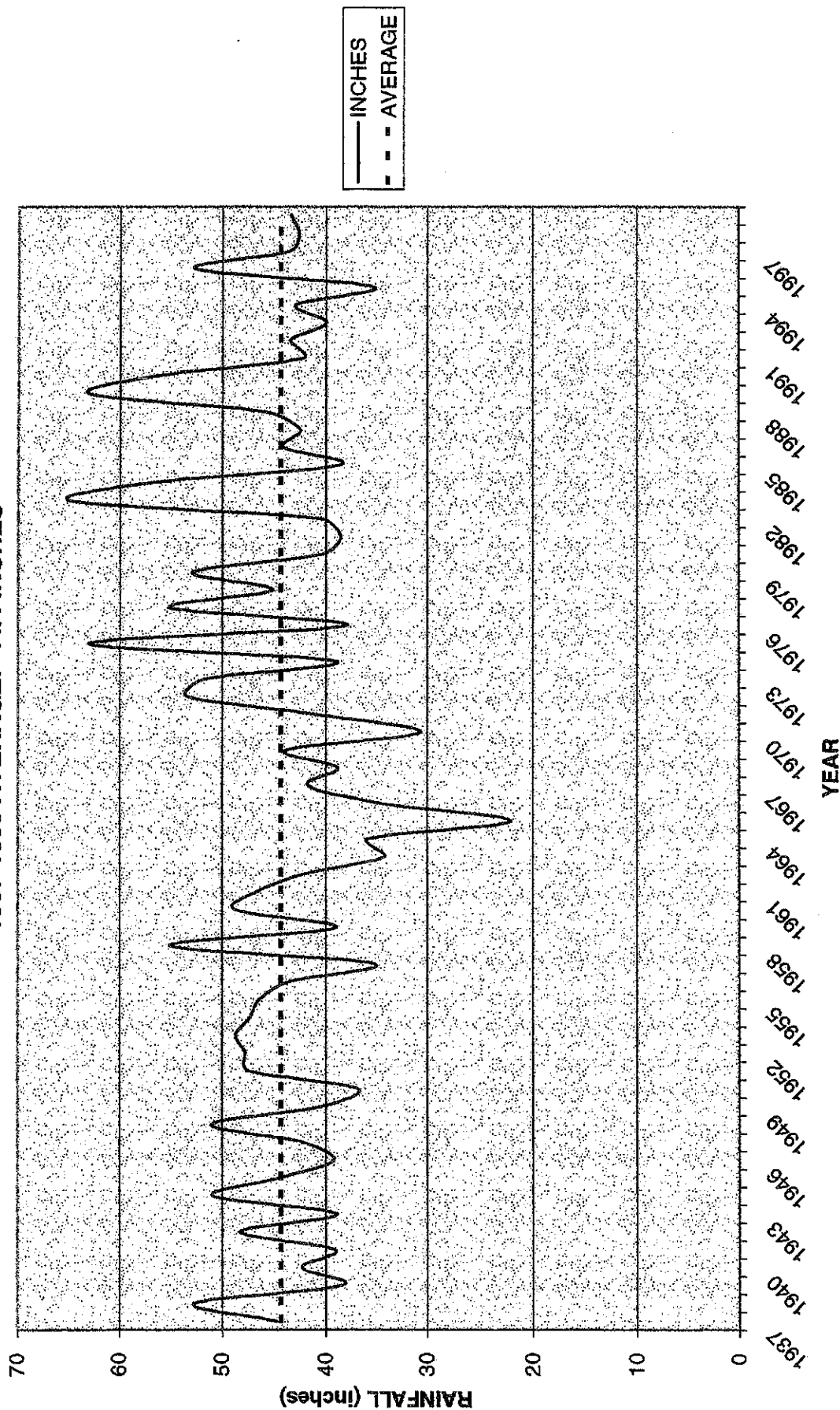
YEAR	RAINFALL (INCHES)	YEAR	RAINFALL (INCHES)	YEAR	RAINFALL (INCHES)
1937	44.77	1958	55.04	1979	52.86
1938	52.67	1959	39.01	1980	40.36
1939	38.39	1960	48.66	1981	38.53
1940	42.36	1961	46.71	1982	40.47
1941	39.12	1962	42.21	1983	64.64
1942	48.30	1963	34.19	1984	57.13
1943	38.85	1964	35.83	1985	38.76
1944	50.85	1965	22.04	1986	44.06
1945	44.62	1966	34.76	1987	42.50
1946	39.22	1967	41.69	1988	45.92
1947	42.16	1968	38.80	1989	62.90
1948	51.06	1969	43.88	1990	56.41
1949	40.40	1970	30.67	1991	42.27
1950	36.88	1971	40.80	1992	43.45
1951	47.47	1972	53.26	1993	39.95
1952	47.73	1973	51.70	1994	42.86
1953	48.68	1974	38.99	1995	35.31
1954	47.25	1975	63.04	1996	52.58
1955	46.39	1976	37.91	1997	43.48
1956	43.44	1977	55.01	1998	42.62
1957	35.33	1978	45.08	1999	43.40

63 YEAR AVERAGE (1937-1999)

44.47 INCHES

SOURCE: Nassau County Department of Public Works

**NASSAU COUNTY DEPARTMENT OF HEALTH
YEARLY RAINFALL AT MINEOLA NY
1937-1999 AVERAGE: 44.4 INCHES**



NASSAU COUNTY DEPARTMENT OF HEALTH

MONTHLY PRECIPITATION AT MINEOLA
1938 - 1999

YEAR	RAINFALL IN INCHES												
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
1938	3.63	2.32	2.25	3.15	3.80	6.17	8.96	2.92	12.61	1.80	2.50	2.56	52.67
1939	3.44	6.43	5.18	3.49	1.90	2.69	0.39	4.19	1.75	5.08	2.18	1.65	38.37
1940	2.52	2.48	4.41	4.83	5.41	2.84	3.01	5.21	2.39	2.36	4.36	2.54	42.36
1941	3.18	2.96	2.72	1.91	2.28	6.49	4.91	4.93	0.33	2.22	3.27	3.92	39.12
1942	2.84	2.73	6.00	1.19	1.81	4.24	10.17	5.76	2.75	2.72	4.03	4.06	48.30
1943	2.99	1.98	4.54	2.34	4.22	3.38	2.99	2.99	2.52	6.76	2.80	1.34	38.85
1944	4.74	2.43	6.49	5.35	1.95	2.12	2.08	1.13	12.01	2.68	6.88	2.99	50.85
1945	2.38	3.35	2.25	3.06	4.78	3.20	7.91	3.39	2.64	2.27	4.84	4.58	44.65
1946	2.60	2.08	3.00	1.73	6.34	4.24	4.22	7.01	3.25	0.66	1.38	2.71	39.22
1947	2.84	2.44	2.52	6.25	3.82	2.81	2.30	2.28	2.59	2.68	7.68	3.95	42.16
1948	4.93	2.12	3.80	3.85	5.89	5.22	6.33	2.51	1.47	4.02	5.23	5.95	51.32
1949	6.08	3.61	2.30	3.58	5.29	0.00	3.34	6.48	3.25	2.46	1.19	2.92	40.50
1950	2.32	3.88	2.99	1.92	2.73	2.61	3.29	5.99	1.80	1.46	3.99	3.78	36.76
1951	3.10	5.18	5.35	3.08	5.05	2.57	4.06	1.30	0.99	4.70	7.11	5.02	47.51
1952	5.64	2.35	4.99	5.49	5.62	5.14	2.86	6.02	1.95	0.72	2.58	4.37	47.73
1953	4.41	2.88	9.04	6.16	3.76	2.50	3.55	3.10	1.87	3.34	3.12	4.95	48.68
1954	1.92	1.69	3.86	3.93	3.61	0.84	0.83	8.58	6.93	2.29	7.77	5.00	47.25
1955	0.62	3.02	4.64	2.62	1.28	1.31	1.08	15.60	3.81	7.11	4.94	0.30	46.33
1956	2.02	5.48	5.11	3.87	2.89	2.54	4.17	3.15	2.19	4.70	3.26	4.06	43.44
1957	2.01	2.36	2.86	6.19	1.94	1.64	1.66	2.52	2.31	3.10	3.50	5.42	35.51
1958	4.79	4.45	6.38	6.19	6.62	2.38	4.90	4.25	4.04	7.27	2.13	1.75	55.15
1959	2.17	1.97	5.24	2.59	1.67	3.13	4.21	3.91	1.64	3.65	4.08	4.75	39.01
1960	2.69	4.14	3.73	3.01	3.22	1.46	6.52	5.34	9.04	2.59	3.37	3.50	48.61
1961	2.35	4.70	5.05	6.46	3.59	3.10	4.98	3.88	3.76	2.82	2.40	3.62	46.71
1962	3.22	5.01	3.32	3.20	1.51	4.52	1.86	5.39	3.15	3.71	5.33	2.19	42.41
1963	2.66	2.95	4.34	1.51	2.54	1.44	2.37	2.72	3.77	0.11	7.30	2.48	34.19
1964	5.39	4.35	2.07	5.63	0.35	2.30	3.45	1.32	2.66	1.89	1.74	4.68	35.83
1965	3.18	2.69	2.31	3.32	1.32	1.15	1.58	1.26	0.70	1.78	1.25	1.50	22.04
1966	2.79	4.21	1.30	2.52	4.37	0.83	0.82	2.30	5.74	4.42	2.54	3.09	34.93
1967	1.09	3.37	5.55	3.50	4.09	2.80	4.75	5.32	1.28	2.38	2.29	5.27	41.69

SOURCE: Nassau County Department of Public Works

NASSAU COUNTY DEPARTMENT OF HEALTH
MONTHLY PRECIPITATION AT MINEOLA
1938 - 1999

YEAR	RAINFALL IN INCHES												TOTAL
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	
1968	1.62	1.55	4.52	2.54	4.57	4.12	1.19	2.09	3.70	1.68	6.31	4.91	38.80
1969	0.92	3.13	3.09	3.96	2.57	3.03	9.26	1.68	4.10	2.70	3.24	6.20	43.88
1970	0.68	3.93	4.17	2.90	1.86	2.38	0.97	4.00	1.55	2.12	3.94	2.17	30.67
1971	2.64	5.10	3.19	3.12	2.63	0.79	4.89	3.43	5.24	3.45	4.56	1.76	40.80
1972	1.96	5.18	4.66	3.70	6.14	4.87	2.04	0.92	2.29	6.43	10.07	5.00	53.26
1973	3.70	3.32	4.23	8.24	4.16	7.24	4.50	0.54	3.26	1.98	1.54	8.99	51.70
1974	3.57	1.70	5.36	2.51	2.79	2.20	0.59	4.05	6.51	2.31	1.76	5.64	38.99
1975	5.61	3.50	3.62	3.60	4.12	8.73	8.46	4.71	9.19	3.22	4.25	4.03	63.04
1976	5.64	3.10	2.57	1.95	3.83	1.87	1.52	8.05	2.03	4.43	0.36	2.56	37.91
1977	2.73	2.34	5.53	3.43	2.67	4.40	2.28	4.44	6.21	7.36	8.49	5.13	55.01
1978	8.69	1.44	2.97	2.00	7.34	1.77	2.94	3.84	2.86	2.94	2.46	5.83	45.08
1979	9.84	4.80	4.85	4.86	5.37	3.28	0.70	6.30	5.02	3.13	2.51	2.56	53.22
1980	1.58	1.31	9.28	8.28	2.20	3.64	2.10	1.79	1.23	3.13	4.93	0.89	40.36
1981	0.66	5.91	1.34	3.83	1.90	3.95	5.11	0.76	4.15	4.24	1.95	4.40	38.20
1982	6.43	2.10	2.76	6.52	3.44	5.85	2.25	3.14	1.49	1.42	3.16	1.91	40.47
1983	4.38	3.24	7.65	10.92	4.02	2.87	3.12	3.88	3.86	6.45	6.72	7.43	64.54
1984	1.66	4.38	7.52	6.25	9.20	9.47	7.77	0.80	2.04	2.04	3.12	2.88	57.13
1985	0.96	1.51	2.58	1.26	5.28	5.23	4.30	4.20	4.51	0.99	6.95	0.99	38.76
1986	3.91	3.24	1.92	3.65	1.63	1.98	5.34	5.67	1.53	1.93	6.95	6.31	44.06
1987	6.15	1.10	4.84	5.03	1.42	4.18	5.61	3.00	3.00	2.89	2.73	2.55	42.50
1988	3.51	4.45	2.32	2.34	4.59	1.32	7.35	2.28	3.75	3.77	8.76	1.48	45.92
1989	2.12	3.03	5.33	3.74	12.25	7.75	6.26	5.66	4.48	8.15	3.38	0.75	62.90
1990	4.03	1.65	3.42	5.36	8.73	2.23	4.63	7.52	3.05	7.96	2.01	5.13	55.72
1991	3.76	2.11	3.94	3.91	3.49	2.97	3.38	7.38	3.56	1.70	1.95	4.12	42.27
1992	1.74	2.04	3.58	1.40	3.36	3.59	4.61	6.81	2.37	1.65	6.79	5.51	43.45
1993	2.66	2.82	6.20	3.73	1.37	1.17	1.67	3.83	5.96	4.40	1.34	4.57	39.72
1994	5.43	3.14	5.49	2.81	4.20	0.49	3.05	4.44	5.41	1.57	3.04	3.79	42.86
1995	3.30	3.19	1.34	2.15	3.21	2.08	4.42	0.25	3.59	4.87	5.00	1.91	35.31
1996	3.64	2.42	3.30	5.59	2.68	4.04	7.66	2.28	4.92	6.78	3.02	6.25	52.58
1997	3.04	2.68	5.06	4.36	3.28	2.04	3.95	5.44	2.12	2.44	4.85	4.22	43.48
1998	5.97	4.18	5.54	5.82	4.67	5.32	1.06	1.19	3.88	2.52	1.37	1.10	42.62
1999	9.18	3.57	3.93	1.74	3.80	0.96	0.97	3.32	6.72	3.35	2.98	2.88	43.40
AVERAGE	3.49	3.17	4.19	3.93	3.81	3.25	3.83	4.01	3.69	3.35	3.96	3.69	44.37

SOURCE: Nassau County Department of Public Works

**NASSAU COUNTY DEPARTMENT OF HEALTH
AVERAGE MONTHLY TEMPERATURES AT MINEOLA**

1986 - 1999

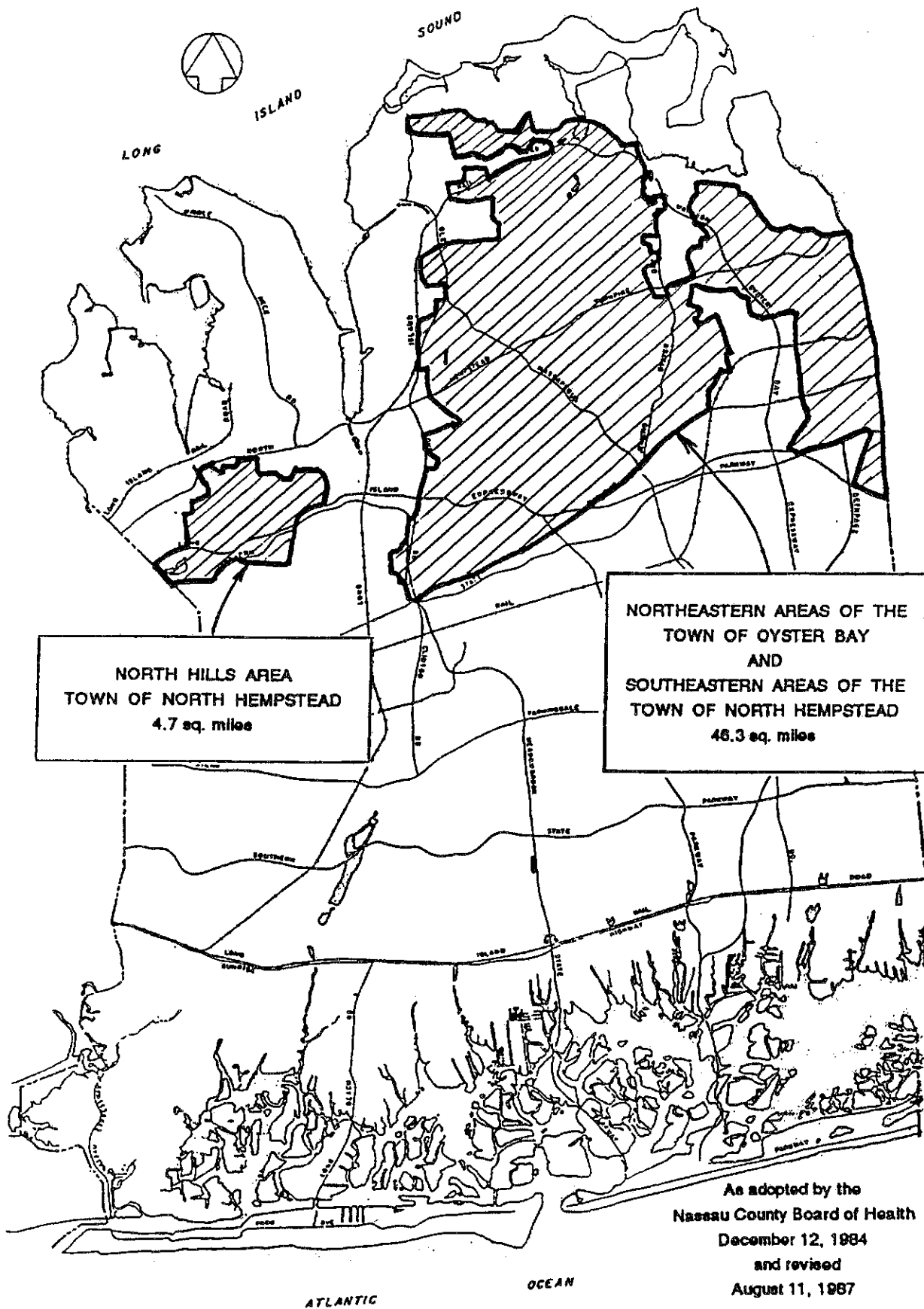
MONTH	TEMPERATURE IN DEGREES FAHRENHEIT														AVERAGE*
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
JANUARY	35	30	32	35	41	35	36	35	23	37	29	33	39	35	32
FEBRUARY	33	31	36	34	40	39	37	29	28	29	34	40	39	38	33
MARCH	46	42	44	41	44	44	39	37	39	43	39	41	43	42	40
APRIL	54	49	52	50	51	54	47	50	53	49	51	50	50	52	50
MAY	65	59	62	61	58	66	58	61	57	58	59	57	63	61	60
JUNE	70	69	73	73	69	72	65	70	70	68	70	69	68	72	69
JULY	73	76	79	75	75	75	70	77	76	76	73	74	75	80	75
AUGUST	70	75	78	74	74	75	69	72	67	75	73	73	76	75	73
SEPTEMBER	64	69	67	69	66	66	63	63	63	66	67	69	69	68	66
OCTOBER	54	56	52	59	60	59	50	52	58	60	55	57	57	56	56
NOVEMBER	43	50	48	46	48	48	44	43	50	43	42	45	48	51	46
DECEMBER	37	41	35	27	42	40	36	33	41	32	40	39	42	42	36
AVERAGE	54	54	55	54	56	56	51	52	52	53	53	54	56	56	53

* 50 YEAR AVERAGE

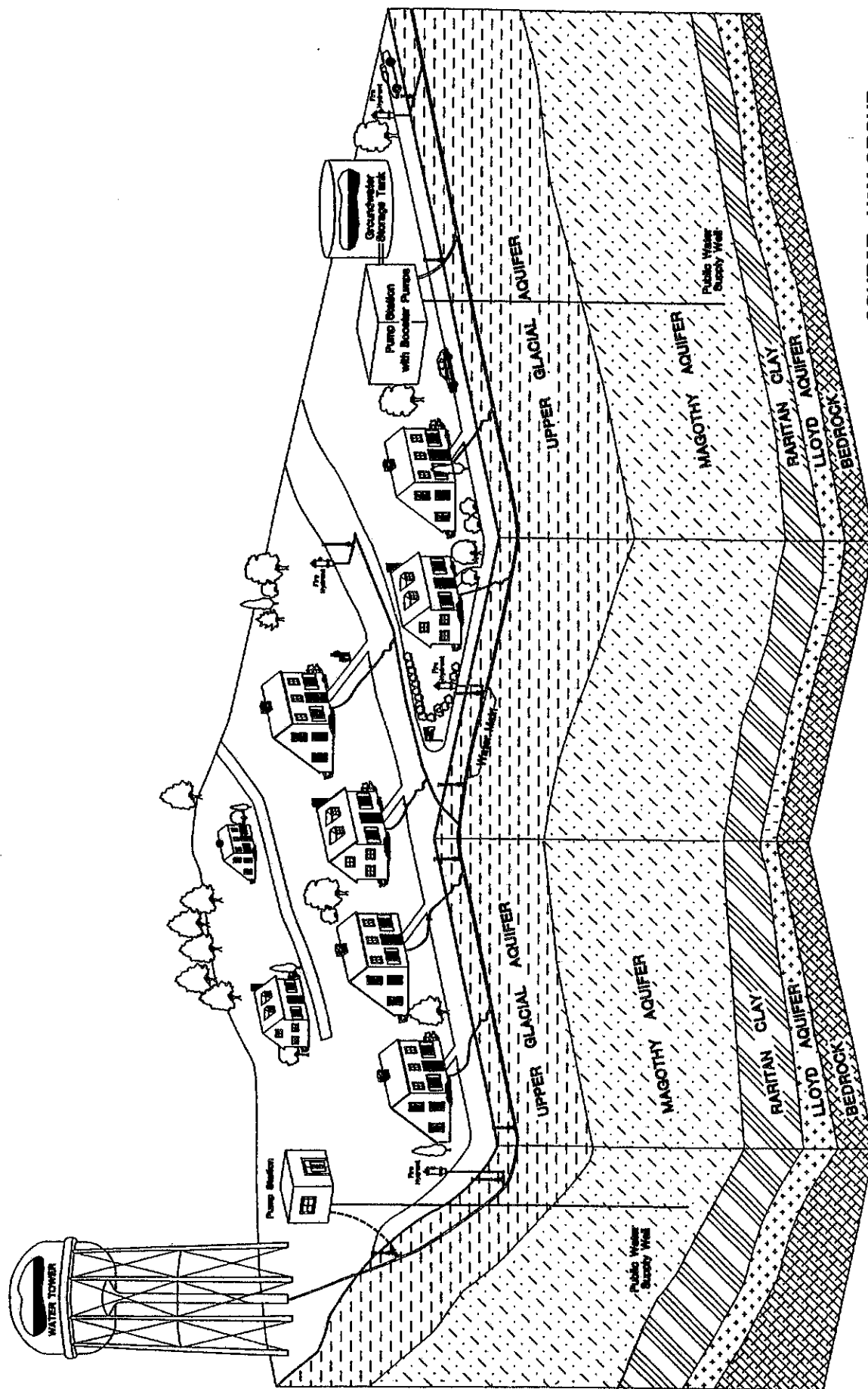
SOURCE: NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS

NASSAU COUNTY DEPARTMENT OF HEALTH

SPECIAL GROUNDWATER PROTECTION AREAS
NCPHO ARTICLE X



TYPICAL PUBLIC WATER SYSTEM ON LONG ISLAND



SOURCE: H2M GROUP
Melville, New York

NASSAU COUNTY DEPARTMENT OF HEALTH

PUBLIC SUPPLY WELL

AQUIFER SUMMARY

TYPE OF WELL	PUBLIC WATER SYSTEMS	TOTAL WELLS	GLACIAL WELLS	MAGOTHY WELLS	LLOYD WELLS	OTHER WELLS (a)
1. PUBLIC						
a. COMMUNITY	50	390	17	327	43	3
b. NON-COMMUNITY	4	8	1	6	0	1
TOTAL	54	398	18	333	43	4

(a) Other includes the Jameco and Port Washington Aquifers.

DEFINITIONS:

- 1. Public Water System** means either a community or non-community system which provides piped water to the public for human consumption, if such system has at least five service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Community Water System** means a public water system which serves at least five service connections used by year-round residents or regularly serves at least 25 year-round residents.
- 3. Non-Community Water System** means a public water system that is not a community water system.

NASSAU COUNTY DEPARTMENT OF HEALTH

PUBLIC WATER SYSTEMS IN NASSAU COUNTY

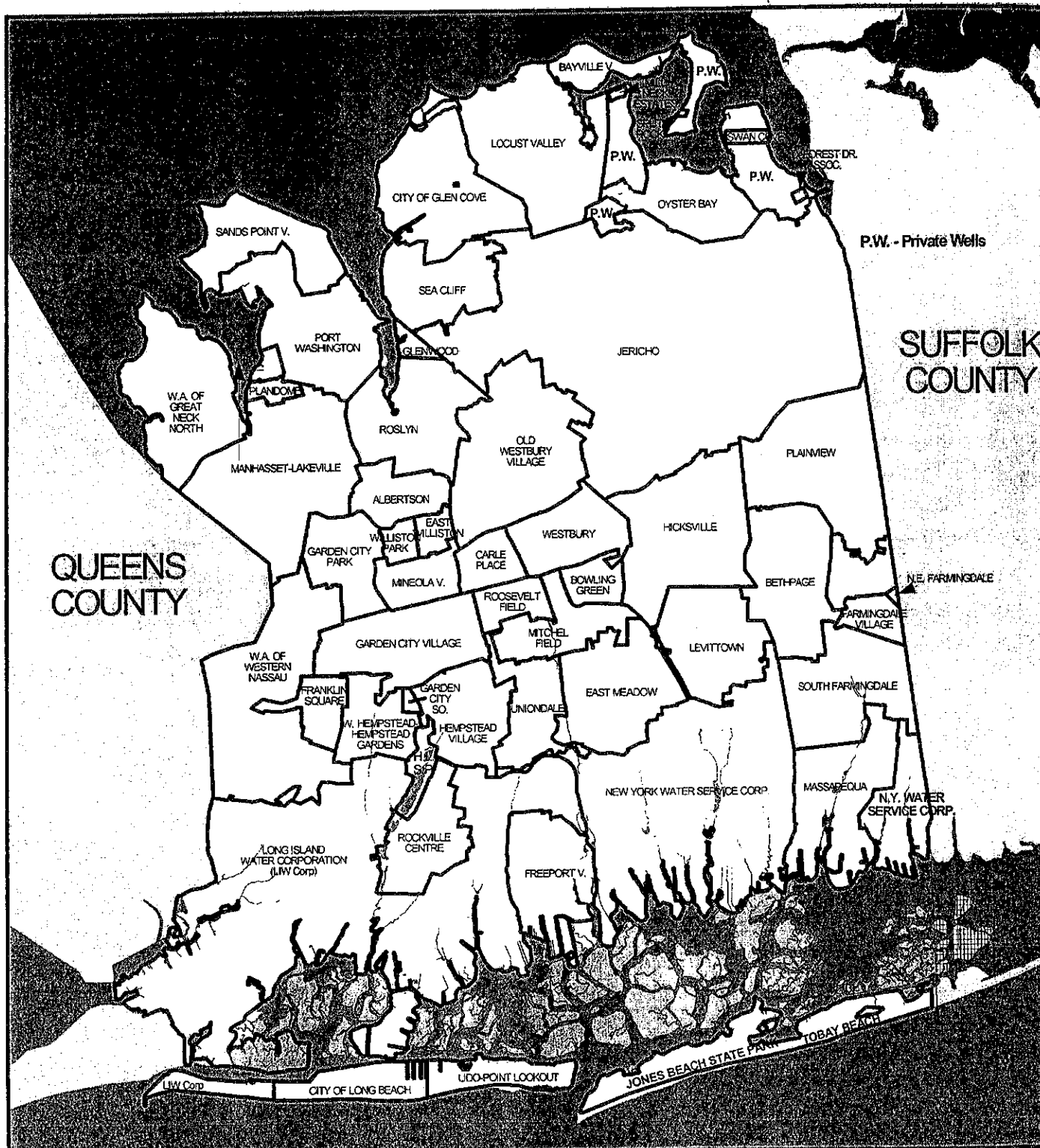
COMMUNITY PUBLIC WATER SYSTEMS (50)

Albertson Water District	Massapequa Water District
Bayville Village	Mill Neck Estates Water Supply
Bethpage Water District	Mineola Village
Bowling Green Water District (a)	New York Water Service Corporation
Carle Place Water District	Northeast Farmingdale Water District
Deforest Drive Ass'n Water Supply	Old Westbury Village
East Meadow Water District (a)	Oyster Bay Water District
East Williston Village	Plainview Water District
Farmingdale Village	Plandome Village
Franklin Square Water District	Port Washington Water District
Freeport Village	Rockville Centre Village
Garden City Village	Roosevelt Field Water District (a)
Garden City Park Water District	Roslyn Water District
Garden City South Water District	Sagamore Hill National Historic Site
City of Glen Cove	Sands Point Village
Glenwood Water District	Sea Cliff Water Company
Hempstead Village	South Farmingdale Water District
Hicksville Water District	Split Rock Water Supply
Jericho Water District	Swan Cove Water Supply
Levittown Water District (a)	Uniondale Water District (a)
Lido-Pt Lookout Water District	Water Authority of Great Neck North
Locust Valley Water District	Water Authority of Western Nassau
City of Long Beach	Westbury Water District
Long Island Water Corporation	West Hempstead-Hemp Grdns Water District
Manhasset-Lakeville Water District	Williston Park Village

NON-COMMUNITY PUBLIC WATER SYSTEMS (4)

Beaver Dam Winter Sports Club	Seawanhaka Yacht Club
Jones Beach State Park	Tobay Beach

(a) Districts which are a part of the Town of Hempstead contiguous water-system.



QUEENS COUNTY

SUFFOLK COUNTY

P.W. - Private Wells

Legend

Water Supply District Boundaries

Coastline Boundary

Land-Nassau

Land-Queens

Land-Suffolk

Tidal Marsh

Water

Tidal Marsh-Suffolk



Keymap

Places

WATER SYSTEMS

Subarea



Scale: 1" = 1665'

NASSAU COUNTY



GEOGRAPHIC INFORMATION SYSTEM

Copyright 1993-1997
County of Nassau
New York

August 11, 2000

NASSAU COUNTY DEPARTMENT OF HEALTH

**PUBLIC WATER SUPPLY INFORMATION
COMMUNITY WATER SYSTEMS IN NASSAU COUNTY**

1999

WATER SYSTEM	WELLS		TANKS		NO. OF INTER- CONNECTIONS	SERVICES	
	No. (1)	AUTHORIZED CAPACITY (MGD) (2)	No.	STORAGE CAPACITY (MG)		No.	PERCENT METERED
Albertson W.D.	5	7.78	3	3.50	6	4010	100%
Bayville Village	4	5.76	1	0.06	2	2431	100%
Bethpage W.D.	9	18.12	2	2.75	14	8399	100%
Carle Place W.D.	5	8.62	1	0.50	5	2881	100%
Deforest Dr. Assoc. W.S.	1	0.03	1	0.02	0	7	0%
East Williston Village	0	-	0	-	4	858	100%
Farmingdale Village	3	4.90	2	0.90	5	1862	100%
Franklin Square W.D.	5	8.35	2	1.00	6	5171	100%
Freeport Village	8	15.98	2	1.50	4	10000	100%
Garden City Village	10	18.91	5	5.10	21	6789	100%
Garden City Park W.D.	10	15.26	2	2.50	9	6879	100%
Garden City South W.D.	0	-	0	-	5	330	100%
Glen Cove, City of	8	13.61	3	4.25	3	7513	100%
Glen Wood W.D.	0	-	0	-	4	190	100%
Great Neck No.W.A. of	11	16.78	3	2.00	2	8012	100%
Hempstead Village	9	14.36	3	3.75	13	9010	100%
Hicksville W.D.	19	37.07	5	7.25	10	15505	100%
Jericho W.D.	22	38.92	6	12.40	18	17715	100%
Lido-Pt. Lookout W.D.	5	8.35	2	1.50	1	1923	100%
Locust Valley W.D.	5	8.78	1	1.00	5	2450	100%
Long Beach, City of	7	12.47	3	3.83	2	7560	100%
Long Island Water Corp.	35	80.46	8	10.50	13	72796	100%
Manhasset-Lake W.D.	18	29.23	5	8.50	11	10200	100%
Massapequa W.D.	8	17.13	4	4.00	8	13760	100%
Mill Neck Estates W.S.	2	0.46	1	0.06	0	85	0%
Mineola Village	6	9.53	2	2.00	12	5462	100%

(1) Includes wells not used, but not abandoned.

(2) Capacity authorized by NYSDEC as part of well permit. May not equal actual pumping capacity.

Sources: NCDH records, 1999

NASSAU COUNTY DEPARTMENT OF HEALTH
PUBLIC WATER SUPPLY INFORMATION
COMMUNITY WATER SYSTEMS IN NASSAU COUNTY

1999

WATER SYSTEM	WELLS		TANKS		NO. OF INTER-CONNECTIONS	SERVICES	
	No. (1)	AUTHORIZED CAPACITY (MGD) (2)	No.	STORAGE CAPACITY (MG)		No.	PERCENT METERED
N.E. Farmingdale W.D.	0	-	0	-	1	108	100%
N.Y. Water Service Corp.	18	46.54	5	5.75	10	44000	100%
Old Westbury Village.	5	8.93	2	2.00	10	1013	100%
Oyster Bay W.D.	8	6.29	5	2.06	2	2251	100%
Plainview W.D.	11	20.45	3	4.75	8	9995	100%
Plandome Village	3	2.09	1	0.15	3	434	100%
Port Washington W.D.	13	12.36	4	22.25	9	8521	100%
Rockville Centre Village	10	18.72	4	3.75	5	7296	100%
Roslyn W.D.	8	12.83	4	6.03	10	5816	100%
Town of Hempstead Contiguous Systems	32	55.42	7	9.50	41	34943	100%
Bowling Green	2	4.03	1	2.00	3	-	100%
East Meadow	10	18.29	2	2.75	11	-	100%
Levittown	11	18.14	2	2.50	4	-	100%
Roosevelt Field	3	5.90	1	1.00	7	-	100%
Uniondale	6	9.06	1	1.25	16	-	100%
Sagamore Hill N.H.S.	3	0.43	2	0.02	0	5	0%
Sands Point Village	6	4.63	3	0.65	3	1367	100%
Sea Cliff Water Co.	3	5.08	2	0.74	3	4300	100%
So. Farmingdale W.D.	11	20.74	4	3.20	17	12549	100%
Split Rock W.S.	2	0.12	1	<0.01	0	9	0%
Swan Cove W.S.	1	0.18	1	0.12	0	22	0%
Western Nassau, W.A. of	24	41.79	7	11.58	11	28000	100%
West Hempstead W.D.	10	15.84	3	2.60	9	8366	100%
Westbury W.D.	11	20.45	2	2.50	11	5912	100%
Williston Park Village	4	7.31	2	2.00	9	2416	100%

(1) Includes wells not used, but not abandoned.

(2) Capacity authorized by NYSDEC as part of well permit. May not equal actual pumping capacity.

Sources: NCDH records, 1999

**NASSAU COUNTY DEPARTMENT OF HEALTH
PUBLIC WATER SYSTEMS**

TREATMENT CODES

- 0 - None**
- 1 - Chlorination , Routine**
 - a - Liquid Chlorine (Sodium or Calcium Hypochlorite)**
 - b - Gas Chlorine**
- 2 - Chlorination, Emergency**
 - a - Liquid Chlorine (Sodium or Calcium Hypochlorite)**
 - b - Gas Chlorine**
- 3 - Corrosion Control**
 - a - Caustic Soda**
 - b - Lime**
 - c - Zinc Orthophosphate - "Virchem 932"**
- 4 - Sequestration**
 - a - Sodium Hexametaphosphate**
 - b - Blended Phosphate - "Aqua - Mag"**
 - c - Blended Phosphate - "Calciquest"**
 - d - Blended Phosphate - "Sequest"**
 - e - Sodium Silicate**
 - f - Zinc Metaphosphate**
 - g - Tetrapotassium Pyrophosphate (Drew - 120)**
 - h - Blended Phosphate - "Virchem - 937"**
- 5 - Fluoridation**
- 6 - VOC Removal**
 - a - Air Stripping**
 - b - Granular Activated Carbon (GAC)**
- 7 - Nitrate (NO3) Removal**
 - a - Ion Exchange**
- 8 - Iron Removal**
 - a - Filtration**
 - b - Aeration**
 - c - Sedimentation**
 - d - Coagulation**
- 9 - Algae Control**
 - a - Copper Sulfate**
- 10 - Taste and Odor Control**
 - a - Chlorination**
 - b - Aeration**
- 11 - Blending**
 - a - Nitrates**
- 12 - Other**
 - a - Polymers (Microfloc 990N)**
 - b - Magnasite**
 - c - Alum**
- 13 - Treated Water Purchased From:**
 - a - Williston Park Village**
 - b - West Hempstead Water District**
 - c - Roslyn Water District**
 - d - Farmingdale Village**
 - e - Manhasset - Lakeville Water District**

NASSAU COUNTY DEPARTMENT OF HEALTH

**COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL**

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
ALBERTSON W.D.	1	3732	350	Magothy	1a,3a,6a
	2	3733	450	Magothy	1a,3a,6a
	3	4327	425	Magothy	1a,3a,6a
	4	5947	365	Magothy	1a,6a
	5	8558	410	Magothy	1a,3b,6a
BAYVILLE (V)	1-1	7620	480	Lloyd	2a,3a
	1-2	7643	218	Magothy	2a,3a
	1-3	8776	459	Lloyd	2a,3a
	2-1	10144	374	Lloyd	2a,3a
BETHPAGE W.D.	5-1	8004	740	Magothy	2a,3a,6a
	6-1	3876	386	Magothy	2a,3a,6a
	6-2	8941	770	Magothy	2a,3a,6a
	7A	8767	640	Magothy	2a,3a
	8A	8768	678	Magothy	2a,3a
	9	6078	275	Magothy	2a,3a
	4-1	6915	608	Magothy	2a,3a,6a
	4-2	6916	611	Magothy	2a,3a,6a
	BDG-1	9591	682	Magothy	2a,3a
CARLE PLACE W.D.	1	2747	328	Magothy	2a,3a
	2	2748	510	Magothy	2a,3a
	3	4206	355	Magothy	2a,3a
	4	6315	348	Magothy	2a,3a
	5	8457	435	Magothy	2a,3a
DEFOREST DRIVE ASSOC W.S.	1	6953	153	Magothy	1a
EAST WILLISTON (V)	-	-	-	-	13a
FARMINGDALE (V)	1-3	7852	450	Magothy	2a,3b,4a
	2-2	6644	222	Magothy	2a,3a
	2-3	11004	510	Magothy	2a,3a
FRANKLIN SQUARE W.D.	1	3603	493	Magothy	2a,3a
	2	3604	498	Magothy	2a,3a
	3	3605	438	Magothy	2a,3a,4a
	4	7117	486	Magothy	2a,3a,6b
	5	8818	480	Magothy	2a,3a,6b
FREEPORT (V)	1A	7796	585	Magothy	2a,3a,4a,10l
	3	133	511	Magothy	2a,3a,4a,10l
	4	134	517	Magothy	2a,3a,4a,10l
	5	68	500	Magothy	2a,3a,4a,10l
	6	69	494	Magothy	2a,3a,4a,10l
	7	5695	526	Magothy	2a,3a,4a,10l
	8	5696	518	Magothy	2a,3a,4a,10l
	9	8657	635	Magothy	2a,3a,4a,10l

NASSAU COUNTY DEPARTMENT OF HEALTH

**COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL**

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
GARDEN CITY (V)	7	95	534	Magothy	2a,3a
	8	1697	518	Magothy	2a,3a
	9	3881	466	Magothy	2a,3a
	10	3934	417	Magothy	2a,3a,6a
	11	3935	410	Magothy	2a,3a,6a
	12	5163	475	Magothy	2a,3a,6a
	13	7058	440	Magothy	2a,3a,6a
	14	8339	358	Magothy	2a,3a,6a
	15	10033	541	Magothy	2a,3a,4a
	16	10034	570	Magothy	2a,3a,4a
GARDEN CITY PARK W.D.	1	650	346	Magothy	2a,3a
	2	651	340	Magothy	2a,3a
	4	3672	447	Magothy	2a,3a
	5	3673	429	Magothy	2a,3a
	6	5603	415	Magothy	2a,3a,6a
	7	6945	401	Magothy	2a,3a,6a
	8	7512	375	Magothy	2a,3a,6a
	9	8409	400	Magothy	2a,3a,6a,7a
	10	9768	477	Magothy	2a,3a,6a
	11	10612	400	Magothy	2a,3a
GARDEN CITY SOUTH W.D.	-	-	-	-	13b
GLEN COVE, CITY of	Morgan	835	300	Lloyd	2a,3a
	Roxbury	5762	280	Magothy	2a,3a
	1S	3892	246	Magothy	2a,3a
	2S	5261	230	Magothy	2a,3a
	21	8326	165	Magothy	2a,3a
	30	9210	275	Magothy	2a,3a
	31	9211	269	Magothy	2a,3a
	Kelly	9334	298	Magothy	2a,3a,6a
GLENWOOD W.D.	-	-	-	-	2a,13c
GREAT NECK NORTH WATER AUTHORITY	2A	12796	145	Magothy	1a,3a,3c,6a
	5	687	309	Lloyd	1a,3a,3c
	6	1298	336	Lloyd	1a,3a,3c
	7	2214	286	Lloyd	1a,3a,3c
	8	3443	464	Lloyd	1a,3a,3c,6a
	9	4388	145	Magothy	1a,3c,6a
	10A	12735	172	Magothy	1a,3a,3c
	11	8342	434	Lloyd	1a,3a,3c

NASSAU COUNTY DEPARTMENT OF HEALTH

COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
HEMPSTEAD (V)	1R	4425	365	Magothy	1b,3a,4a,6a,8b,10b
	2	79	428	Magothy	1b,3a,4a,8b,10b
	3	80	478	Magothy	1b,3a,4a,8b,10b
	4	81	420	Magothy	1b,3a,4a,8b,10b
	5	82	542	Magothy	1b,3a,4a,8b,10b
	6	83	403	Magothy	1b,3a,4a,6a,8b,10b
	7	3668	500	Magothy	1b,3a,4a
	8	7298	444	Magothy	1b,3a,4a,8b,10b
	9	8264	510	Magothy	1b,3a,4a
HICKSVILLE W.D.	1-4	7562	545	Magothy	2a,3a,6a
	1-5	8249	490	Magothy	2a,3a,6a
	1-6	9488	575	Magothy	2a,3a,6a
	3-2	8525	503	Magothy	2a,3a
	4-2	8526	601	Magothy	2a,3a,6a
	5-2	7561	550	Magothy	2a,3a,6a
	5-3	9212	604	Magothy	2a,3a,6a
	6-1	3953	419	Magothy	2a,3a
	6-2	3878	428	Magothy	2a,3a
	7-1	6190	600	Magothy	2a,3a
	7-2	6191	550	Magothy	2a,3a
	8-1	6192	626	Magothy	2a,3a,6a
	8-2	6193	467	Magothy	2a,3a
	8-3	9180	630	Magothy	2a,3a,6a
	9-1	8778	590	Magothy	2a,3a
	9-2	8779	585	Magothy	2a,3a
	9-3	10208	649	Magothy	2a,3a
	10-1	9463	638	Magothy	2a,3a
	11-1	10555	700	Magothy	2a,3a
JERICHO W.D.	3	198	617	Magothy	1a,3a
	4	12734	585	Magothy	1a,3a
	5	570	600	Magothy	1a,3a
	6	3474	512	Magothy	1a,3a
	7	3475	482	Magothy	1a,3a
	9	4245	565	Magothy	1a,3a
	11	5201	504	Lloyd	1a,3a
	12	6092	631	Magothy	1a,3a
	13	6093	606	Magothy	1a,3a
	14	6651	610	Magothy	1a,3a
	15	7030	530	Magothy	1a,3a
	16	7446	493	Magothy	1a,3a
	17	7593	468	Magothy	1a,3a
	18	7772	563	Magothy	1a,3a
	19	7773	560	Magothy	1a,3a
	21	12795	600	Magothy	1a,3a

NASSAU COUNTY DEPARTMENT OF HEALTH

**COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL**

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
JERICO W.D. (continued)	20	10149	625	Magothy	1a,3a
	22	7781	454	Magothy	1a,3a
	23	8043	688	Magothy	1a,3a
	25	8355	590	Magothy	1a,3a
	27	8713	372	Magothy	1a,3a
	29	11107	585	Magothy	1a,3a
	30	11295	535	Magothy	1a,3a
LIDO-POINT LOOKOUT W.D.	1	46	1260	Lloyd	1a,3b,8a,8b
	1A	12217	1277	Lloyd	1a,3b,8a,8b
	2A	12218	1285	Lloyd	1a,3b,8a,8b
	3	8354	1270	Lloyd	1a,3b,8a,8d
LOCUST VALLEY W.D.	4	118	471	Lloyd	2a,3a
	5	119	571	Lloyd	2a,3a
	6	1651	465	Lloyd	2a,3a
	7	5152	355	Lloyd	2a,3a
	8	7665	370	Magothy	2a,3a
LONG BEACH, CITY of	9	2597	1235	Lloyd	1b,3b,8a,8b,8c,8d,12c
	11	5308	1220	Lloyd	1b,3b,8a,8b,8c,8d,12c
	12	6450	1275	Lloyd	1b,3b,8a,8b,8c,8d,12c
	13	7776	1233	Lloyd	1b,3b,8a,8b,8c,8d,12c
	14	8011	1265	Lloyd	1b,3b,8a,8b,8c,8d,12c
	15	8233	1226	Lloyd	1b,3b,8a,8b,8c,8d,12c
	16	8557	1253	Lloyd	1b,3b,8a,8b,8c,8d,12c
L.I. WATER CORPORATION	1-13	1601	600	Magothy	1a,3b,4e
	1-17	6893	560	Magothy	1a,3b,4e
	2-1	1602	500	Magothy	1a,3b,4e
	3-1	1603	529	Magothy	1a,3b,4e
	3-2	3520	178	Magothy	1a,3b,4e
	4-16	2613	500	Magothy	1a,3b,4e
	4-17	8196	620	Magothy	1a,3b,4e
	5-N(CS)	1346	160	Glacial	1a,3b,6a,8a
	6-1	4405	1075	Lloyd	1a,3b,8a,12a
	7-1A	9613	480	Magothy	1a,3b,4e,8a
	7-2	2578	317	Magothy	1a,3b,4e,8a
	7-3	5145	460	Magothy	1a,3b,4e,8a
	8-1	3937	462	Magothy	1a,3b,4e
	8-2	4394	180	Magothy	1a,3b,4e

NASSAU COUNTY DEPARTMENT OF HEALTH

**COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL**

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
L.I. WATER CORPORATION (continued)	9-1A	8420	420	Magothy	1a,3b,4e
	9-2A	10286	535	Magothy	1a,3b,4e
	10-1	4393	472	Magothy	1a,3b,4e
	12-1	4132	607	Magothy	1a,3b
	12-2	5153	323	Magothy	1a,3b
	14-1	4411	550	Magothy	1a,3b,4e
	15-1	5121	542	Magothy	1a,3b,4e
	15-2	8251	495	Magothy	1a,3b,4e
	16-1	5187	503	Magothy	1a,3b,4e
	17-1	5656	495	Magothy	1a,3b,4e
	17-2	7521	555	Magothy	1a,3b,4e
	18-1	5653	589	Magothy	1a,3b,4e
	18-2	8250	480	Magothy	1a,3b,4e
	19-1	6146	498	Magothy	1a,4e
	19-2	7522	555	Magothy	1a,4e
	20-1	7548	511	Magothy	1a,3b,4e
	22-1	7831	585	Magothy	1a,3b,4e
	23-1	7855	600	Magothy	1a,3b,4e
	23-2	10103	518	Magothy	1a,3b,4e
	24-1	8195	507	Magothy	1a,3b,4e
	24-2	8979	598	Magothy	1a,3b,4e
MANHASSET-LAKEVILLE W.D.					
CAMPBELL	1	7126	458	Magothy	1a,3a,6a
CAMPBELL	2	7892	451	Magothy	1a,3a,6a
CUMBERLAND	1	5099	393	Magothy	2a,3a
EAST SHORE ROAD	4-Shallow	7747	138	Glacial	2a,3a
	5-Deep	9308	410	Lloyd	2a,3a
EDEN WELL	23	7651	405	Magothy	2a,3a,6b
EXPRESSWAY		5710	385	Magothy	1a,3a,6a,6b
GRACEFIELD	27	11509	489	Magothy	2a,3a
LAKEVILLE ROAD	7	1802	691	Lloyd	2a,3a,6b
MUNSEY PARK	8	3523	320	Magothy	2a,3a,6b
PARKWAY	1	3905	254	Magothy	1a,3a,6a,6b
PARKWAY	2	4243	255	Magothy	1a,3a,6a,6b
SEARINGTOWN ROAD	1	2028	485	Magothy	1a,3a,6a
SEARINGTOWN ROAD	2	5528	490	Magothy	1a,3a,6a
SHELTER ROCK ROAD	21	1328	742	Lloyd	2a,3a
SHELTER ROCK ROAD	25	10557	408	Magothy	2a,3a
SPRUCE POND	26	10889	452	Magothy	2a,3a
VALLEY ROAD		1618	550	Lloyd	2a,3a,6b
VALLEY ROAD	22	12802	567	Lloyd	2a,3a,6b
MILL NECK ESTATES W.S.	1	6042	340	Lloyd	2a
	2	8426	360	Lloyd	2a

NASSAU COUNTY DEPARTMENT OF HEALTH

COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
MASSAPEQUA W.D.	1	4602	444	Magothy	1a,3a,4b,
	2R	9173	850	Magothy	1a,3a,4b,
	3	5703	459	Magothy	1a,3a,4b,
	4	6442	612	Magothy	1a,3a,4b,
	5	6443	268	Magothy	1a,3a,4b,
	6	6866	626	Magothy	1a,3a,4b,
	7	6867	492	Magothy	1a,3a,4b,
	8	8214	686	Magothy	1a,3a,4b,
MINEOLA (V)	1	97	355	Magothy	2a,3a
	3	578	407	Magothy	2a
	4	3185	463	Magothy	2a,3a,6a
	5	4082	462	Magothy	2a,3a
	6	5596	468	Magothy	2a,3a
	7	8576	505	Magothy	2a,3a
N.Y. WATER SERVICE CORP.	NEWBRIDGE ROAD				
	1N	3895	349	Magothy	1a,3a,4c
	3N	8976	700	Magothy	1a,3a,4c
	4N	9878	664	Magothy	1a,3a,4c
	SEAMANS NECK ROAD				
	2S	3893	151	Magothy	1a,3a,4c
	3S	8480	656	Magothy	1a,3a,4c
	4S	9338	649	Magothy	1a,3a,4c
	JERUSALEM AVE				
	4J	9514	660	Magothy	1a,3a,4c
	5J	10195	585	Magothy	1a,3a,4c
	CHARLES ST				
	2C	9976	567	Magothy	1a,3a,4c
	JEFFERSON ST				
	11J	7407	645	Magothy	1a,3a,4c
	12J	8253	597	Magothy	1a,3a,4c
	DE MOTT AVE				
	4D	5767	384	Magothy	1a,3a,4c
	5D	8837	681	Magothy	1a,3a,4c
	6D	9910	774	Magothy	1a,3a,4c
	MASSAPEQUA				
	6M	7414	530	Magothy	1a,3a,4c
	7M	8603	893	Magothy	1a,3a,4c
	8M	10863	685	Magothy	1a,3a,4c
	OLD MILL ROAD				
	1	8031	509	Magothy	1a,3a,4c
N/E FARMINGDALE W.D.	-	-	-	-	13d
OLD WESTBURY (V)	1	152	478	Magothy	2a,3a
	2A	7513	470	Magothy	2a,3a
	3R	11909	506	Magothy	2a,3a
	4	7549	499	Magothy	2a,3a
	5	8658	610	Magothy	2a,3a
OYSTER BAY W.D.	PLT 1	585	77	Glacial	1a,3a
	PLT 2	4400	302	Magothy	2a,3a
	6-1	8183	477	Magothy	2a,3a
	6-2	9520	512	Magothy	2a,3a

NASSAU COUNTY DEPARTMENT OF HEALTH

**COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL**

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
PLAINVIEW W.D.	1-1	4095	490	Magothy	1a,3b
	1-2	4096	494	Magothy	1a,3b
	2-1	7526	688	Magothy	1a,3b
	3-1	4097	465	Magothy	1a,3b,6b
	3-2	6580	596	Magothy	1a,3b
	4-2	6077	460	Magothy	1a,3b,6a
	4-3	12535	550	Magothy	1a,3b
	5-1	6956	597	Magothy	1a,3b,6a
	5-2	7421	559	Magothy	1a,3b,6a
	5-3	8054	580	Magothy	1a,3b
	5-4	8595	610	Magothy	1a,3b
	7-1	12670	650	Magothy	1a,3b
PLANDOME (V)	-	-	-	-	2a,13e
PORT WASHINGTON W.D.	BAR BEACH	5209	300	Magothy	2a,3a
	HEWLETT	2052	325	Magothy	2a,3a,6b
	MORLEY PARK 1	7551	469	Magothy	2a,3a,6a
	MORLEY PARK 2	7552	454	Magothy	2a,3a,6a
	NEULIST AVE 1	1715	480	Lloyd	1a,3a,
	NEULIST AVE 2	1716	475	Lloyd	1a,3a,
	NEULIST AVE 3	2030	215	Magothy	1a,3a,
	RICKS	5876	238	Magothy	2a,3a,
	SANDY HOLLOW RD 1	4860	89	Glacial	2a,3a,6b
	SANDY HOLLOW RD 2	6087	92	Glacial	2a,3a,6b
	SANDY HOLLOW RD 3	4859	385	Lloyd	2a,3a,6b
	SOUTHPORT	4223	326	Magothy	2a,3a,
	STONYTOWN RD	9809	524	Port Wash	2a,3a,6b
ROCKVILLE CENTRE (V)	1A	8218	460	Magothy	1a,3a,4g
	1B	8217	503	Magothy	1a,3a,4g
	2A	9792	537	Magothy	1a,3a,4g
	2B	5193	550	Magothy	1a,3a,4g
	2C	6817	558	Magothy	1a,3a,4g
	3A	5194	515	Magothy	1a,3a,4g
	3B	5195	505	Magothy	1a,3a,4g
	4A	72	604	Magothy	1a,3a,4g
	4B	3745	592	Magothy	1a,3a,4g
	4C	8216	660	Magothy	1a,3a,4g
ROSLYN W.D.	1 (C.S.)	1870	260	Magothy	2a,3a
	2	2400	439	Magothy	2a,3a
	3	4265	485	Magothy	2a,3a
	4	4623	498	Magothy	2a,3a
	5	5852	482	Magothy	2a,3a
	6	7104	431	Magothy	2a,3a
	7	7873	530	Magothy	2a,3a
	8	8010	448	Magothy	2a,3a,6b

NASSAU COUNTY DEPARTMENT OF HEALTH

**COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL**

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
SAGAMORE HILL N.H.S.	1	9068	170	Glacial	1a
	1R	9076	200	Glacial	1a
	2	590	150	Glacial	1a
SANDS POINT (V)	1	36	214	Port Wash	2a,3a
	2A	37	140	Glacial	2a,3a
	3	4389	225	Magothy	2a,3a
	4	7157	240	Magothy	2a,3a
	5A	12639	165	Glacial	2a,3a
	6	9446	368	Lloyd	2a,3a
SEA CLIFF WATER CO	GH	5792	295	Magothy	1a,3a,4d
	SC	7857	614	Lloyd	1a,3a,4d
	C.S.	901	68	Glacial	1a,4d
SOUTH FARMINGDALE W.D.	1-2	4043	374	Magothy	1a,3b,4b
	1-3	5148	369	Magothy	1a,3b,4b
	1-4	7377	758	Magothy	1a,3b,4b
	2-1	5147	219	Magothy	1a,3a,4b,8a
	2-2	6149	640	Magothy	1a,3a,4b,8a
	3-1	6150	612	Magothy	1a,3b,4b
	4-1	6148	566	Magothy	1a,3b,4b
	5-1	7515	347	Magothy	1a,3b,4b,8a,8d
	5-2	7516	584	Magothy	1a,3b,4b,8a,8d
	6-1	8664	610	Magothy	1a,3b,4b,8a,8d
	6-2	8665	580	Magothy	1a,3b,4b,8a,8d
SPLIT ROCK W.S.	1	Unknown	-	Lloyd	2a
	2	12525	405	Lloyd	2a
SWAN COVE W.S.	1	2920	515	Lloyd	1a
TOWN OF HEMPSTEAD -					
CONTIGUOUS DISTRICTS:					
BOWLING GREEN	1	8956	530	Magothy	1a,3b,6a,6b
	2	8957	584	Magothy	1a,3b,6a,6b
EAST MEADOW	1	3456	555	Magothy	1a,3b
	2	3457	320	Magothy	1a,3b
	3	3465	580	Magothy	1a,3b
	4	4447	330	Magothy	1a,3b
	5	4448	550	Magothy	1a,3b
	6	5318	633	Magothy	1a,3b
	7	5319	438	Magothy	1a,3b
	8	5320	643	Magothy	1a,3b
	10	5322	510	Magothy	1a,3b
	11	7797	545	Magothy	1a,3b

NASSAU COUNTY DEPARTMENT OF HEALTH

**COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL**

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
LEVITTOWN W.D.	2A	8321	674	Magothy	1a,3a
	3	2580	357	Magothy	1a,3b
	5A	7076	674	Magothy	1a,3b
	6B	12560	655	Magothy	1a,3b
	7A	8279	547	Magothy	1a,3b
	8A	7523	684	Magothy	1a,3b
	9	4450	466	Magothy	1a,3b
	10	4451	403	Magothy	1a,3b
	12	5302	484	Magothy	1a,3b
	13	5303	506	Magothy	1a,3b
	14	5304	467	Magothy	1a,3a
ROOSEVELT FIELD W.D.	5	7957	519	Magothy	1a,3b,6b
	7	9521	603	Magothy	1a,3a
	10	9846	594	Magothy	1a,3b
UNIONDALE W.D.	1	4756	313	Magothy	1a,3b
	2	4757	628	Magothy	1a,3b
	3	4758	625	Magothy	1a,3b
	4	4759	625	Magothy	1a,3b
	5	8474	556	Magothy	1a,3b,6b
	6	8475	481	Magothy	1a,3b,6b
WATER AUTHORITY OF WESTERN NASSAU	9	14	110	Glacial	1a,3a,3c
	15A	9151	420	Magothy	1a,3a,3c
	15B	11037	420	Magothy	1a,3a,3c
	15C	10206	440	Magothy	1a,3a,3c
	15D	693	93	Glacial	1a,3a,3c
	15E	10207	450	Magothy	1a,3a,3c
	16A	1958	722	Lloyd	1a,3a,3c
	20	17	465	Magothy	1a,3c,6a
	25A	7482	435	Magothy	1a,3a,3c
	28	2414	88	Glacial	1a,3a,3c
	28A	11647	499	Magothy	1a,3a,3c
	28B	10211	494	Magothy	1a,3a,4h
	30	3720	517	Magothy	1a,3a,4h
	34	4512	505	Magothy	1a,3a,3c
	35	4077	150	Glacial	1a,3a,3c,6a
	35A	4298	395	Magothy	1a,3a,3c,6a
	40	4390	296	Magothy	1a,3c,6a
	40A	7445	448	Magothy	1a,3c,6a

NASSAU COUNTY DEPARTMENT OF HEALTH

**COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL**

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
WATER AUTHORITY OF WESTERN NASSAU (continued)	44	5155	90	Glacial	1a,3c,6a
	44A	5156	331	Magothy	1a,3c,6a
	44B	6744	94	Glacial	1a,3c,6a
	44C	6745	344	Magothy	1a,3c,6a
	57	7649	340	Magothy	1a,3a,3c,6a
	57A	7650	440	Magothy	1a,3a,3c,6a
WEST HEMPSTEAD - HEMPSTEAD GARDENS W.D.	1	75	181	Magothy	1a,3a,4c
	2	76	193	Magothy	1a,3a,4c
	3	2239	178	Magothy	1a,3a,4c
	4	3704	159	Magothy	1a,3a,4c
	5	4118	204	Magothy	1a,3a,4c
	6	5260	514	Magothy	1a,3a,4c
	7	7720	506	Magothy	1a,3a,4c
	8	9452	595	Magothy	1a,3a,4c
	9	10408	625	Magothy	1a,3a,4c
	10	10401	615	Magothy	1a,3a,4c
WESTBURY W.D.	6	101	341	Magothy	2a,3a,6a
	7A	7785	400	Magothy	2a,3a,6a
	9	2602	800	Lloyd	2a,3a
	10	5007	494	Magothy	2a,3a
	11	5654	538	Magothy	2a,3a
	12	5655	255	Magothy	2a,3a
	12A	6819	265	Magothy	2a,3a
	14	7353	390	Magothy	2a,3a
	15	8007	564	Magothy	2a,3a
	16	8497	539	Magothy	2a,3a
	17	10451	512	Magothy	2a,3a
WILLISTON PARK (V)	1A	12727	385	Magothy	1a,3a
	2A	104	376	Magothy	1a,3a
	3	2487	338	Magothy	1a,3a
	4	8248	400	Magothy	1a,3a,6a

SOURCES:

- (1)Public Water Supply Annual Inspection Reports, NCDH, 1998-1999.
- (2) NCDH records

NASSAU COUNTY DEPARTMENT OF HEALTH
NON - COMMUNITY PUBLIC WATER SYSTEMS
DEPTH, AQUIFER AND TREATMENT PROVIDED BY WELL

WATER SYSTEM	LOCAL WELL NO.	NYSDEC WELL NO.	DEPTH (ft)	AQUIFER	TREATMENT
BEAVER DAM WINTER SPORTS CLUB	1	5672	121	Glacial	2a
JONES BEACH STATE PARK	2	129	951	Magothy	1a,3b,8a
	3	5129	965	Magothy	1a,3b,8a
	4	8414	1080	Magothy	1a,3b,8a
SEAWANHAKA YACHT CLUB	1	Unknown	450	Unknown	1a
TOBAY BEACH	1	3498	335	Magothy	1a,8a
	2	6657	294	Magothy	1a,8a
	3	11144	300	Magothy	1a,8a

SOURCES:

- (1) Public Water Supply Annual Inspection Reports, NCDH, 1998-1999.
- (2) NCDH records

NASSAU COUNTY DEPARTMENT OF HEALTH

**PUBLIC WATER SYSTEM/PUBLIC SUPPLY WELL TREATMENT SUMMARY
1999**

TREATMENT TYPE	TREATMENT APPLIED	TOTAL NUMBER APPLIED BY	
		WATER SYSTEMS	SUPPLY WELLS
CHLORINATION	Routine - Liquid	24	230
	Routine - Gas	2	16
CORROSION CONTROL	Caustic Soda	33	275
	Lime	9	98
	Virchem - 932	2	31
IRON REMOVAL	Filtration	6	28
	Aeration	3	17
	Sedimentation	1	7
	Coagulation	3	12
NITRATE REMOVAL	Ion Exchange	1	1
SEQUESTRATION	Sodium Hexametaphosphate	5	21
	Aqua - mag	2	19
	Calcquest	2	28
	Drew - 120	1	10
	Sequest	1	3
	Sodium Silicate	1	31
	Verchem - 937	1	2
TASTE & ODOR CONTROL	Aeration	2	15
VOC REMOVAL	Air Stripping	17	64
	Granular Activated Carbon	6	22
OTHER	Alum	1	7
	Microfloc 990N	1	1

SOURCE:

Public Water Supply Annual Inspection Reports, NCDH, 1999.

**NASSAU COUNTY DEPARTMENT OF HEALTH
VOLATILE ORGANIC CHEMICAL REMOVAL PLANTS
NASSAU COUNTY PUBLIC WATER SYSTEMS**

DECEMBER, 1999

Water System	Well No. Local and (NYSDEC)	Design Contaminant(s)	Raw Level (ug/l)	Treated Level (ug/l)	Type of Treatment	Number of Treatment Units	Date of Treatment Release	Remarks
Albertson Water District	Well 1 (N- 3732)	Tetrachloroethene	110.0	2.0				
	Well 2 (N- 3733)	Tetrachloroethane Tetrachloroethene Trichloroethene	BDL BDL 0.6	BDL BDL BDL	PTA	1	2/14/96	
	Well 3 (N- 4327)	Trichloroethane Tetrachloroethene Trichloroethene	6.0 37.0 12.0	BDL BDL BDL	PTA	1	8/29/90	
	Well 4 (N- 5947)	Trichloroethane Trichloroethene	1.0 1.0	BDL BDL	PTA	1	8/29/90	
	Well 5 (N- 8558)	Trichloroethene Trichloroethane Dichloroethene Tetrachloroethene	2.0 0.9 0.9 BDL	BDL BDL BDL BDL	PTA	1	5/26/99	
Bethpage Water District	Well 4-1 (N- 6915)	Trichloroethane	BDL	BDL	PTA	1	5/30/95	6/2000 - New exhaust hood installed
	Well 4-2 (N- 6916)	Trichloroethene Tetrachloroethene	0.6 BDL	BDL BDL	PTA	2	1/20/98	6/2000 - New exhaust hood installed
	Well 5-1 (N- 8004)	Trichloroethene	BDL	BDL	PTA	1	5/21/90	5/97 - Tower extension
	Well 6-1 (N- 3876)	Trichloroethene Tetrachloroethene Trichloroethene	110.0 5.9 BDL	BDL BDL BDL	PTA	1		
Bowling Green Estates Water District*	Well 1 (N- 8956)	Trichloroethene Tetrachloroethene Trichloroethane Dichloroethene Carbon Tetrachloride 2,2 Dichloropropane	5.0 3.0 4.0 3.0 3.0 BDL 33.0	0.5 BDL BDL BDL BDL BDL 0.5		6	10/13/92	Treatment Operates first through the tower followed by GAC's
	Well 2 (N- 8957)	Trichloroethene Tetrachloroethene Trichloroethane Dichloroethene Carbon Tetrachloride 2,2 Dichloropropane	4.0 1.0 1.0 BDL BDL	BDL BDL BDL BDL BDL	GAC and PTA	1	3/26/96	6/1997-11-ft. Tower extension
Franklin Square Water District	Well 4 (N- 7117)	Trichloroethene	BDL	BDL	GAC	4	11/6/89	
	Well 5 (N- 8818)	Trichloroethene	62.0	BDL				
PTA : Packed Tower Aeration GAC: Granular Activated Carbon BDL: Below Detection Limit of 0.5 ug/l			(- ethene is also known as -ethylene) *Part of T.O.H. Contiguous Water System			Dichloroethane (DCA) Dichloroethene (DCE) Trichloroethane (TCA)	Tetrachloroethene (PCE) Trichloroethene (TCE)	

**NASSAU COUNTY DEPARTMENT OF HEALTH
VOLATILE ORGANIC CHEMICAL REMOVAL PLANTS
NASSAU COUNTY PUBLIC WATER SYSTEMS
DECEMBER, 1999**

Water System	Well No. Local and (NYSDEC)	Design Contaminant(s)	Raw Level (ug/l)	Treated Level (ug/l)	Type of Treatment	Number of Treatment Units	Date of Treatment Release	Remarks
Garden City Water District	Well 10 (N- 3934)	Trichloroethene Tetrachloroethene	96.0 530.0	BDL BDL	PTA (New)	1	6/8/99	11/15/93-10 ft. tower extension with wells alternating through the tower
	Well 11 (N- 3935)	Trichloroethene Tetrachloroethene	300.0 49.0	BDL BDL	PTA (Old)	1	9/21/89	6/8/99-second tower is released
	Well 12 (N- 5163)	Trichloroethene Tetrachloroethene	33.0 14.0	BDL BDL	PTA	1	12/30/94	
	Well 13 (N- 7058)	Trichloroethene	26.0	BDL	PTA	1	5/30/89	
	Well 14 (N- 8339)	Trichloroethene Tetrachloroethene	43.0 95.0 110.0	BDL BDL BDL			1/6/89	
Garden City Park Water District	Well 6 (N- 5603)	Tetrachloroethene Trichloroethene	290.0 0.8	BDL BDL	PTA	1	5/30/86	5/1/98 Replacement fiberglass tower
	Well 7 (N- 6945)	Dichloroethane Trichloroethane Tetrachloroethene	BDL BDL 1.6 1.2	BDL BDL BDL BDL	PTA	1	6/29/90	
	Well 10 (N- 9769)	Dichloroethane Trichloroethane Tetrachloroethene	BDL 0.5	BDL				
	Well 8 (N- 7512)	Tetrachloroethene Trichloroethene Cis-1,2 Dichloroethene Dichlorodifluoromethane	4.1 0.9 1.9 BDL	BDL BDL BDL BDL	PTA	1	9/9/96	
	Well 9 (N- 8409)	Tetrachloroethane Trichloroethene	12.0 70.0	BDL BDL	PTA	1	9/10/91	
City of Glen Cove	Kelly Street (N- 9334)	Trichloroethane	1.0	BDL	PTA	1	8/21/89	
(V) Hempstead	Well 1R (N- 4425) Well 6 (N- 83)	Trichloroethene Tetrachloroethene Trichloroethene Tetrachloroethene	6.2 30.0 9.3 2.4	BDL BDL BDL BDL	PTA	1	10/29/90	
	Well 1-4 (N- 7562) Well 1-5 (N- 8249) Well 1-6 (N- 9488)	Trichloroethane Dichloroethene 1,1 Dichloroethane 1,2 Dichloroethane Cis- 1,2 Dichloroethene Trichloroethene	42.0 20.0 2.3 1.0 BDL 6.2	BDL BDL BDL BDL BDL BDL	PTA	2	7/30/85	
Hicksville Water District	PTA : Packed Tower Aeration GAC: Granular Activated Carbon BDL: Below Detection Limit of 0.5 ug/l (-ethene is also known as -ethylene)							
					Dichloroethane(DCA) Dichloroethene(DCE) Trichloroethane(TCA)	Tetrachloroethene(PCE) Trichloroethene(TCE)		

**NASSAU COUNTY DEPARTMENT OF HEALTH
VOLATILE ORGANIC CHEMICAL REMOVAL PLANTS
NASSAU COUNTY PUBLIC WATER SYSTEMS**

DECEMBER, 1999

Water System	Well No. Local and (NYSDEC)	Design Contaminant(s)	Raw Level (ug/l)	Treated Level (ug/l)	Type of Treatment	Number of Treatment Units	Date of Treatment Release	Remarks
Hicksville Water District (Cont.)	Well 4-2 (N- 8526)	Tetrachloroethene Trichloroethene Trichloroethane Cis-1,2 Dichloroethene Dichloroethene Dichloroethane	12.0 25.0 20.0 11.0 19.0 7.4	BDL BDL BDL BDL BDL BDL	PTA	1	1/8/97	
	Well 5-2 (N- 7561)	Tetrachloroethene Trichloroethene Trichloroethane Dichloroethane	7.7 61.0 1.8 BDL	BDL BDL BDL BDL	PTA	1	8/25/95	
	Well 8-1 (N- 6192)	Tetrachloroethene	27.0	BDL	PTA	1	11/20/90	4/9/98 release of an 11-ft tower extension
	Well 8-3 (N- 9180)	Tetrachloroethene	3.9	BDL				
	Plant 5 (Com. Suction) (N- 1346)	Tetrachloroethene	14.4	BDL	PTA	2	4/4/91	
Manhasset-Lakeville Water District	Well 6 (N- 5710)	Tetrachloroethane Trichloroethene Cis- 1,2 Dichloroethane Trichlorofluoromethane	BDL 14.0 BDL BDL	BDL BDL BDL BDL	PTA and GAC	2	7/3/91	Water flows first through the towers (in series) and then through the GAC's.
	Searingtown's Well No. 5T (N- 2028)	Tetrachloroethane Dichloroethane Dichlorodifluoromethane Trichloroethane Dichlorobenzene	BDL BDL BDL 1.2 BDL	BDL BDL BDL BDL BDL	PTA	2	6/14/94	
	Well No. 6T (N- 5528)	Tetrachloroethane Trichloroethane Trichlorofluoromethane Dichloroethane Cis- Dichloroethane	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	GAC	2	12/6/90	
	Well 7 (N- 1802)	Tetrachloroethane Trichloroethane Trichlorofluoromethane Dichloroethane Cis- Dichloroethane	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	GAC	2	5/18/98	
	Well 23 (N- 7651)	Tetrachloroethene	11.0	BDL	GAC	2		
PTA : Packed Tower Aeration GAC: Granular Activated Carbon BDL: Below Detection Limit of 0.5 ug/l								Dichloroethane (DCA) Dichloroethene (DCE) Trichloroethane (TCA) Tetrachloroethene (PCE) Trichloroethene (TCE)

**NASSAU COUNTY DEPARTMENT OF HEALTH
VOLATILE ORGANIC CHEMICAL REMOVAL PLANTS
NASSAU COUNTY PUBLIC WATER SYSTEMS
DECEMBER, 1999**

Water System	Well No. Local and (NYSDEC)	Design Contaminant(s)	Raw Level (ug/l)	Treated Level (ug/l)	Type of Treatment	Number of Treatment Units	Date of Treatment Release	Remarks
Manhasset-Lakeville Water District (Cont)	Well 8 (N- 3523)	Cis- 1,2 Dichloroethene	BDL	BDL	GAC	2	8/25/95	
	Well 4 (N- 3185)	Trichloroethene Tetrachloroethene	84.0 13.0	0.6 BDL	PTA	1	7/19/91	
Plainview Water District	Well 3-1 (N- 4097)	Dichloroethane	BDL	BDL	GAC	2	9/12/94	
	Well 4-2 (N- 6077)	Trichloroethane	BDL	BDL	PTA	1	4/2/97	
		Dichloroethane	1.1 1.4	BDL BDL				
	Well 5-1 (N-6956)	Trichloroethane	BDL	BDL				
	Well 5-2 (N- 7421)	Trichloroethane Dichloromethane Trichloroethene	BDL BDL 0.5	BDL BDL BDL	PTA	1	4/17/92	
Port Washington Water District	Well 1SH (N- 4860)	Trichloroethane	BDL	BDL				For treatment of one well at a time
	Well 2SH (N- 6087)	Tetrachloroethene Heptachlor Epoxide Dieldrin Chlordane	BDL BDL BDL BDL	BDL BDL BDL BDL	GAC	1	9/17/90 7/29/91	
	Well 4H (N- 2052)	Cis- 1,2 Dichloroethene Tetrachloroethene	3.7 12.0	BDL BDL	GAC	2	9/11/90	
	Well 8M (N- 7551)	Tetrachloroethene Trichloroethane Dichlorodifluoromethane	5.1 BDL BDL	BDL BDL BDL	PTA	2	8/22/96	
	Well 9M (N- 7552)	Tetrachloroethene Trichloroethane Trichloroethane Dichloroethene	96.0 4.6 9.4 9.1	BDL BDL BDL BDL	PTA	2	10/2/96	
	Well 10ST (N- 9809)	Cis- 1,2 Dichloroethene Dichloroethane Trichloroethane	1.0 2.5 1.4	BDL BDL BDL	GAC	2	2/7/95	
	Well 5 (N-7957)	Trichloroethene Tetrachloroethene	7.0 7.0	BDL BDL	GAC	4	5/28/97	
	Well 8 (N-8010)	1,2-Dibromoethane (EDB) Trichloroethene Trichloroethane Dichloroethane	0.26 BDL 0.8 0.8	BDL BDL BDL BDL	GAC	2	9/29/98	
	Well 5 (N- 8474) Well 6 (N- 8475)	Trichloroethene Trichloroethane	21.0 23.0	BDL BDL	GAC	6	7/19/96	
	Untondate Water District*							
PTA : Packed Tower Aeration GAC: Granular Activated Carbon BDL: Below Detection Limit of 0.5 ug/l								
			(- ethene is also known as -ethylene) *Part of T.O.H. Contiguous Water System			Tetrachloroethane(DCA) Dichloroethene(DCE) Trichloroethane(TCA)		
						Tetrachloroethene(PCE) Trichloroethene(TCE)		

**NASSAU COUNTY DEPARTMENT OF HEALTH
VOLATILE ORGANIC CHEMICAL REMOVAL PLANTS
NASSAU COUNTY PUBLIC WATER SYSTEMS
DECEMBER, 1999**

Water System	Well No. Local and (NYSDEC)	Design Contaminant(s)	Raw Level (ug/l)	Treated Level (ug/l)	Type of Treatment	Number of Treatment Units	Date of Treatment Release	Remarks
Water Authority of Great Neck North	Well 2A (N-12796)	Tetrachloroethene	24.0	BDL	PTA	1	10/22/84	9/4/98 Replacement Tower
	Well 9 (N-4388)	Tetrachloroethene	1.6	BDL				
	Well 8 (N-3443)	Tetrachloroethene	6.8	BDL	PTA	1	3/16/94	
	Well 20 (N-17)	Tetrachloroethene	12.0	BDL	PTA	1	7/27/88	
Water Authority of Western Nassau	Well 35 (N-4077)	Trichloroethene	BDL	BDL	PTA	1	2/18/86	
	Well 35A (N-4298)	Trichloroethene	5.5	BDL				
	Well 40A (N-7445)	Tetrachloroethene	1.7	BDL	PTA	1	9/29/88	
	Well 44 (N-5115)	Tetrachloroethene	BDL	BDL				
	Well 44A (N-5156)	Tetrachloroethene	BDL	BDL	PTA	2	5/19/92	
	Well 44B (N-6744)	Tetrachloroethene	7.6	BDL				
Westbury Water District	Well 44 C (N-6745)	Tetrachloroethene	BDL	BDL				
	Well 57 (N-7649)	Trichloroethene	4.0	BDL				
	Well 57A (N-7650)	Trichloroethene	100.0	BDL	PTA	1	9/21/84	
	Well 6 (N-101)	Trichloroethene	23.0	0.9				
	Well 7A (N-7785)	Dichloroethane Tetrachloroethene Methylene Chloride Trichloroethane Cis- 1,2 Dichloroethene	BDL BDL BDL BDL 0.9	BDL BDL BDL BDL BDL	PTA	2	2/13/96	
Williston Park Water District	Well 4 (N-8248)	Tetrachloroethene Trichloroethene	43.0 BDL	BDL BDL	PTA	1	6/18/90	

PTA : Packed Tower Aeration
GAC: Granular Activated Carbon
BDL: Below Detection Limit of 0.5 ug/l

(-ethene is also known as -ethylene)

Dichloroethane(DCA)
Dichloroethene(DCE)
Trichloroethane(TCA)
Tetrachloroethene(PCE)
Trichloroethene(TCE)

**NASSAU COUNTY DEPARTMENT OF HEALTH
VOLATILE ORGANIC CHEMICAL REMOVAL PLANTS
UNDER CONSTRUCTION
DECEMBER, 1999**

Water System	Well No. Local and (NYSDEC)	Design Contaminant(s)	Type of Treatment	Number of Treatment Units
Garden City Village	Well 9 (N-3881)	Trichloroethene Tetrachloroethene Carbon Tetrachloride Cis-1,2-Dichloroethene	PTA	1
Hicksville Water District	Well 9-1 (N-8778) Well 9-2 (N-8779) Well 9-3 (N-10208)	Trichloroethane Trichloroethene Dichloroethane	PTA	2
Manhasset-Lakeville Water District	Well 22A (N-12802)	Dichloroethane Dichlorodifluoroethane	GAC	2
Mineola Village	Well 7 (N-8576)	Trichloroethene Tetrachloroethene Dichlorodifluoromethane	PTA	1
Roosevelt Field Water District*	Well 5 (N-7957)	Trichloroethene Tetrachloroethene	PTA	1
West Hempstead- Hempstead Gardens Water District	Well 3 (N-2239) Well 4 (N-3704) Well 5 (N-4118)	Dichlorodifluoromethane Tetrachloroethene Tetrachloroethene Trichloroethane Tetrachloroethene Dichlorodifluoromethane	PTA	2
Williston Park Water District	Well 2 (N-104)	Trichloroethene	PTA	1

PTA : Packed Tower Aeration

GAC: Granular Activated Carbon

(-ethene is also known as -ethylene)

* Part of the TOH Contiguous Water System

Dichloroethane (DCA)

Dichloroethene (DCE)

Trichloroethane (TCA)

NASSAU COUNTY DEPARTMENT OF HEALTH
Bureau of Water Supply Protection

Chlorination Status of Nassau County Public Water Systems
(As of August 1, 2000)

CHLORINATING WATER SYSTEMS	POPULATION SERVED	NON-CHLORINATING WATER SYSTEMS	POPULATION SERVED
Albertson Water District	13,500	Bayville Village	8,800
Deforest Drive Association	21	Beaver Dam Winter Sports Club	35
East Williston Village	2,600	Bethpage Water District	32,500
Farmingdale Village	8,000	Carle Place Water District	8,950
Freeport Village	40,000	Franklin Square Water District	20,000
Garden City Park Water District	21,000	Hicksville Water District	47,800
Garden City South Water District	1,500	Locust Valley Water District	7,500
Garden City Village	25,000	Mill Neck Estates Water Supply	240
Glen Cove City	28,000	Oyster Bay Water District	8,500
Glenwood Water District	1,000	Seawanhaka Yacht Club	60
Great Neck North Water Authority	31,300	Split Rock Water Supply	25
Hempstead Village	50,500	Westbury Water District	20,500
Jericho Water District	58,000		
Jones Beach Sate Park	40,000		
Lido-Point Lookout Water District	6,000		
Long Beach City	35,000		
Long Island Water Corporation	230,300		
Manhasset-Lakeville Water District	43,000		
Massapequa Water District	46,000		
Mineola Village	21,500		
New York Water Service Corporation	173,000		
Northeast Farmingdale Water District	300		
Old Westbury Village	3,100		
Plainview Water District	35,000		
Plandome Village	1,450		
Port Washington Water District	30,000		
Rockville Centre Village	25,000		
Roslyn Water District	17,000		
Sagamore Hill National Historic Site	12		
Sands Point Village	2,500		
Sea Cliff Water Company	15,000		
South Farmingdale Water District	44,700		
Swan Cove Water Supply	51		
Tobay Beach	2,500		
Town of Hempstead Water Supply *	121,000		
West Hempstead Water District	32,000		
Western Nassau Water Authority	85,000		
Williston Park Village	7,500		
TOTAL CHLORINATING POP.	1,297,334	TOTAL NON-CHLORINATING POP.	154,910
PERCENT OF N.C. CHLORINATING	89%	PERCENT OF N.C. NOT CHLORINATING	11%
NUMBER OF SYSTEMS	42	NUMBER OF SYSTEMS	12

* The Town of Hempstead Water Supply consists of the Bowling Green, East Meadow, Levittown, Roosevelt Field and Uniondale Water Districts.

L. Famiglietti, 08/01/2000

**COMMUNITY PUBLIC WATER SYSTEM ESTIMATED POPULATION,
ANNUAL PUMPAGE AND PER CAPITA DAILY CONSUMPTION IN 1999
NASSAU COUNTY, NEW YORK**

WATER SYSTEM	ESTIMATED POPULATION (b)	ANNUAL PUMPAGE (Galx1000) (b)	IMPORTED OR (EXPORTED) (Galx1000) (b)	GALLONS PER CAPITA DAY (GPCD)
TOWN OF HEMPSTEAD (a)	121,000	7,742,313		175
- FIVE DISTRICT AGGREGATE				
BOWLING GREEN WD				
EAST MEADOW WD				
LEVITTOWN WD				
ROOSEVELT FIELD WD				
UNIONDALE WD				
-LIDO-PT LOOKOUT WD (a)	6,000	334,610		153
ALBERTSON WD	13,500	807,936		164
BAYVILLE (V)	8,000	350,000		120
BETHPAGE WD	33,000	1,365,000		113
CARLE PLACE WD	8,931	618,000		190
GREAT NECK NO. WA of	31,400	1,666,461		145
DEFOREST DR ASSOC	21	(d)		(d)
EAST WILLISTON (V)	2,515	0	138,896	151
FARMINGDALE (V)	8,000	399,900		137
FRANKLIN SQUARE WD	20,000	830,800		114
FREEPORT (V)	40,000	1,889,335		129
GARDEN CITY PARK WD	19,000	1,290,000		186
GARDEN CITY SOUTH WD	1,500	0	40,000	73
GARDEN CITY (V)	21,675	1,702,000		215
GLEN COVE CITY	28,000	1,790,773		175
GLENWOOD WD	1,000	0	60,477	166
HEMPSTEAD (V)	50,500	2,613,854		142
HICKSVILLE WD	47,810	2,560,000		147
JERICHO WD	58,000	5,457,000		258
LOCUST VALLEY WD	7,500	694,345		254
LONG BEACH CITY	35,000	1,436,000		112
LONG IS WATER CORP	230,300	10,812,996		129
MANHASSET-LAKEV WD	43,000	2,540,000	(103,257)	155
MASSAPEQUA WD	43,000	1,890,000		120
MILL NECK EST WS	240	(d)		(d)
MINEOLA (V)	21,500	1,117,316		142
N/E FARMINGDALE WD	300	INCLUDED IN VILLAGE OF FARMINGDALE		
NY WATER SERVICE CORP	173,000	6,138,960		97
OLD WESTBURY (V)	3,100	794,700		702
OYSTER BAY WD	8,500	455,300		147
PLAINVIEW WD	35,000	1,790,000		140
PLANDOME (V)	1,450	0	103,257	195
PORT WASHINGTON WD	30,000	1,407,000		128
ROCKVILLE CENTRE (V)	25,000	1,428,000		156
ROSLYN WD	17,000	1,322,449	(60,477)	203
SAGAMORE HILL N.H.S.	12	(d)		(d)
SANDS POINT (V)	2,600	343,000		361
SEA CLIFF WATER CO	15,000	527,825		96
SWAN COVE WS	51	(d)		(d)
SO FARMINGDALE WD	44,700	1,944,000		119
SPLIT ROCK WS	25	(d)		(d)
WESTBURY WD	20,500	1,230,000		164
WEST HEMPSTEAD WD	32,000	1,213,000	(40,000)	100
WESTERN NASSAU, W.A. of	85,000	4,340,000		140
WILLISTON PARK (V)	7,500	450,000	(138,896)	114
TOTAL	1,401,130	73,292,873		142

(a) Town of Hempstead (TOH) total is for the five interconnected districts of the six operated by TOH Department Water. Lido-Pt Lookout WD is given separately.

(b) Reported by public water systems in Annual Water Supply Statements or monthly operation reports for 1998.

(c) The U.S. Census Bureau estimated Nassau County's Population to be approximately 1.3 million people in 1995.

(d) Not Available

NASSAU COUNTY DEPARTMENT OF HEALTH

MONTHLY PUMPAGE FOR NASSAU COUNTY PUBLIC WATER SYSTEMS

1999

WATER SYSTEM	PUMPAGE x 1000 GALLONS												YEARLY
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
ALBERTSON WATER DISTRICT	47,921	34,600	39,610	43,309	75,489	108,435	131,828	107,350	77,133	61,448	42,294	38,519	807,936
BAYVILLE VILLAGE (V)	21,750	19,344	14,483	18,447	34,229	54,644	60,398	27,587	38,229	19,256	17,763	26,366	352,496
BETHPAGE WATER DISTRICT	77,635	64,871	70,858	82,803	123,896	192,928	225,192	172,532	115,344	94,642	73,888	70,288	1,364,877
CARLE PLACE WATER DISTRICT	38,674	32,201	36,919	38,868	58,226	82,468	93,794	70,877	51,021	42,724	36,388	36,122	618,282
EAST WILLISTON VILLAGE													0
FARMINGDALE VILLAGE	25,437	24,124	27,716	27,479	36,344	49,325	55,771	40,127	32,231	28,823	24,751	25,997	398,125
FRANKLIN SQUARE W.D.	56,028	47,622	53,878	58,735	74,792	106,058	115,412	92,572	66,050	59,487	50,658	49,563	830,855
FREEMPORT VILLAGE	136,714	119,248	152,338	132,295	162,002	211,190	237,344	200,691	155,710	140,132	129,238	132,433	1,909,335
GARDEN CITY VILLAGE	95,121	86,776	92,311	95,436	136,071	204,231	253,965	226,862	172,196	138,123	101,886	99,044	1,702,022
GARDEN CITY PARK W.D.	77,140	68,511	73,301	78,696	121,632	175,849	199,171	161,259	114,734	92,330	68,126	67,872	1,298,621
GARDEN CITY SOUTH W.D.													0
GLEN COVE CITY	122,389	108,997	118,628	116,710	148,443	208,682	234,051	197,352	148,880	138,530	122,489	125,422	1,790,573
GLENWOOD WATER DISTRICT													0
GREAT NECK NORTH, W.A. of	90,474	80,649	92,221	102,805	158,672	216,983	239,701	216,437	165,019	124,499	91,496	87,505	1,666,461
HEMPSTEAD VILLAGE	192,344	168,170	187,154	181,672	223,560	265,698	296,214	255,369	212,244	202,622	187,106	188,547	2,560,700
HICKSVILLE WATER DISTRICT	158,641	140,365	155,439	159,413	235,137	345,331	398,364	299,351	205,265	170,884	149,439	149,189	2,566,818
JERICHO WATER DISTRICT	221,179	188,747	218,302	261,586	521,458	861,792	1,034,146	840,320	516,222	351,775	236,209	204,927	5,456,663
LIDO-POINT LOOKOUT W.D.	16,194	13,022	15,081	18,885	30,949	45,388	56,027	46,002	35,697	26,472	16,582	14,311	334,610
LOCUST VALLEY W.D.	24,530	20,937	23,939	33,599	63,464	115,235	149,928	110,202	58,952	39,765	28,309	25,485	694,345
LONG BEACH CITY	101,722	91,849	102,492	104,829	123,905	151,993	169,086	145,464	123,546	118,512	102,645	99,923	1,435,966
LONG ISLAND WATER CORP.	685,720	590,256	660,454	707,538	969,180	1,341,295	1,453,464	1,268,309	983,989	811,565	670,672	670,554	10,812,996
MANHASSET-LAKEVILLE W.D.	131,204	120,556	158,203	159,606	234,352	373,579	450,098	370,008	249,140	197,977	148,008	140,123	2,732,854
MASSAPEQUA W.D.	100,907	91,190	104,484	121,263	194,956	240,790	328,407	245,099	158,737	112,375	98,564	94,677	1,891,449

NASSAU COUNTY DEPARTMENT OF HEALTH

MONTHLY PUMPAGE FOR NASSAU COUNTY PUBLIC WATER SYSTEMS
1999

WATER SYSTEM	PUMPAGE x 1000 GALLONS												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEARLY
MINEOLA VILLAGE	73,956	61,889	75,368	84,080	109,984	145,055	138,229	119,243	90,176	79,950	69,236	70,150	1,117,316
NEW YORK WATER SER. CORP.	376,270	322,200	365,940	395,580	578,080	793,460	873,430	712,390	542,100	452,980	367,000	359,530	6,138,960
OLD WESTBURY VILLAGE	28,183	25,492	23,016	30,003	67,137	126,223	165,847	128,579	71,709	44,430	35,395	25,851	771,865
OYSTER BAY WATER DISTRICT	23,869	19,885	22,829	25,732	42,843	66,339	78,605	59,961	36,819	30,229	24,742	23,406	455,259
PLAINVIEW WATER DISTRICT	95,219	86,269	101,414	105,669	174,057	247,184	284,303	215,583	157,163	127,060	97,774	98,159	1,789,854
PLANDOME VILLAGE	SUPPLIED BY MANHASSET-LAKEVILLE WATER DISTRICT												
PORT WASHINGTON W.D.	89,430	80,140	91,800	94,920	130,200	166,040	178,140	165,140	123,130	106,830	90,940	90,780	1,407,490
ROCKVILLE CENTRE VILLAGE	88,295	72,127	80,787	84,235	109,449	176,365	185,329	166,566	127,292	123,952	111,002	103,025	1,428,424
ROSLYN WATER DISTRICT	61,876	53,422	60,418	69,156	118,849	185,942	222,218	200,089	125,444	95,276	66,488	63,271	1,322,449
SANDS POINT VILLAGE	11,210	9,870	10,670	14,590	32,360	57,490	73,697	54,960	39,010	26,290	16,100	14,480	360,727
SEA CLIFF WATER CO.	28,670	24,731	28,497	32,682	46,382	70,883	90,707	68,626	42,287	35,337	29,618	28,865	527,285
SOUTH FARMINGDALE W.D.	109,650	93,520	104,388	116,679	188,705	269,916	314,668	245,577	170,554	133,549	98,482	98,332	1,944,020
TOWN OF HEMPSTEAD CONTIGUOUS SYSTEMS	475,795	432,317	490,471	528,159	685,532	982,496	1,107,004	894,352	670,678	569,090	458,452	487,989	7,782,335
BOWLING GREEN W.D.	36,009	48,056	41,520	69,089	58,122	80,906	89,014	82,497	69,413	19,302	39,471	55,521	688,920
EAST MEADOW W.D.	147,604	130,953	158,154	165,107	224,906	317,989	324,755	250,489	169,813	164,052	136,040	148,237	2,338,099
LEVITTOWN W.D.	137,501	128,219	139,608	156,873	200,565	306,552	343,133	259,527	181,334	164,885	147,823	151,045	2,317,065
ROOSEVELT FIELD W.D.	44,524	31,632	62,924	43,236	72,701	102,750	116,230	95,471	81,865	83,875	40,562	36,997	812,767
UNIONDALE W.D.	110,157	93,457	88,265	93,854	129,238	174,299	233,872	206,368	168,253	136,976	94,556	96,189	1,625,484
WESTBURY WATER DISTRICT	81,314	72,465	87,967	83,276	111,531	153,172	178,713	137,976	101,945	90,540	79,724	79,112	1,257,735
WESTERN NASSAU, W.A. of	291,259	247,087	276,734	293,647	393,271	553,727	594,295	467,652	354,263	305,497	279,099	283,813	4,340,344
W HEMP-HEMP GARDENS W.D.	82,163	65,669	63,925	79,595	108,278	156,252	179,359	137,251	115,884	88,645	68,111	67,868	1,213,000
WILLISTON PARK VILLAGE	35,470	30,880	31,810	32,740	41,810	54,030	58,990	47,020	34,710	30,160	26,240	26,460	450,320
TOTAL	4,374,353	3,809,998	4,313,845	4,614,717	6,665,225	9,556,468	10,905,895	8,914,735	6,483,503	5,311,756	4,314,914	4,267,958	73,533,367

NASSAU COUNTY DEPARTMENT OF HEALTH
TOTAL MONTHLY PUBLIC WATER SYSTEM PUMPAGE
IN NASSAU COUNTY
(1961 - 1999)

YEAR	IN MILLIONS OF GALLONS PER DAY (MGD)												AVERAGE
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1961	100	102	102	105	111	165	186	160	169	123	110	105	128
1962	110	104	109	123	194	203	231	175	145	121	111	110	144
1963	112	112	114	143	157	210	241	189	158	152	114	113	151
1964	116	113	115	118	211	226	227	237	222	134	125	115	163
1965	115	119	119	122	200	259	248	234	201	135	122	116	166
1966	116	118	119	139	142	258	351	249	184	135	125	122	171
1967	121	120	124	129	140	259	186	165	181	147	128	122	152
1968	127	125	129	174	165	186	282	236	210	158	134	131	171
1969	130	128	133	142	202	239	207	219	193	151	135	132	168
1970	136	136	136	145	186	209	283	279	218	162	139	136	180
1971	135	141	138	158	177	285	275	262	202	160	140	136	184
1972	135	135	136	141	168	179	228	292	211	150	136	133	170
1973	134	134	135	146	153	198	221	278	231	188	142	136	175
1974	138	136	135	149	186	221	311	247	175	158	141	136	178
1975	136	136	138	152	189	202	237	242	179	156	144	139	171
1976	140	139	140	172	184	275	256	250	206	151	140	139	183
1977	144	145	143	169	230	241	290	205	188	146	140	138	182
1978	140	140	142	155	177	247	280	229	193	163	149	144	180
1979	143	145	144	153	183	216	277	221	185	153	142	139	175
1980	139	138	140	151	190	256	300	289	268	175	143	141	194
1981	142	134	135	145	192	238	273	272	192	155	136	133	179
1982	139	139	137	147	205	195	288	243	216	177	145	141	181
1983	142	143	144	149	171	268	316	289	262	166	144	145	195
1984	146	143	148	151	174	247	212	277	224	179	151	146	183
1985	148	150	150	169	217	206	256	252	228	175	154	147	188
1986	145	145	149	163	263	304	301	234	219	177	151	144	200
1987	145	148	148	153	207	245	256	261	193	166	152	145	185
1988	151	144	144	156	179	271	255	291	211	168	148	143	188
1989	143	140	142	152	163	184	214	224	204	163	143	142	168
1990	141	136	141	147	160	216	236	205	195	163	140	136	168
1991	135	134	137	148	214	255	267	250	218	167	142	136	184
1992	138	137	138	143	192	225	222	210	200	164	143	139	171
1993	138	138	142	150	228	268	316	255	200	158	139	135	189
1994	148	144	143	152	181	283	296	226	223	170	141	134	187
1995	135	136	139	155	184	229	261	321	250	175	141	137	189
1996	139	139	141	147	182	244	224	240	205	162	140	136	175
1997	139	136	137	144	173	254	297	243	227	188	139	134	184
1998	135	132	137	144	184	234	315	307	244	184	147	138	192
1999	141	136	137	153	216	320	354	289	217	172	144	138	201
AVERAGE	135	134	135	148	185	236	263	245	206	160	138	134	177

SOURCE: 1999 NCDPW Tabulation

WATER QUALITY MONITORING REQUIREMENTS FOR 1999
GROUNDWATER SOURCES - COMMUNITY PUBLIC WATER SYSTEMS

CONSTITUENTS/CONTAMINANTS REQUIRED TO BE TESTED
AND MAXIMUM CONTAMINANT LEVELS

Analysis Category	Constituents/Contaminants	Maximum Contaminant Level (mg/l)
POC's Principal Organic Contaminants	Benzene	0.005
	Bromobenzene	0.005
	Bromochloromethane	0.005
	Bromomethane	0.005
	N-Butylbenzene	0.005
	sec-Butylbenzene	0.005
	tert-Butylbenzene	0.005
	Carbon Tetrachloride	0.005
	Chlorobenzene	0.005
	Chloroethane	0.005
	Chloromethane	0.005
	2-Chlorotoluene	0.005
	4-Chlorotoluene	0.005
	Dibromomethane	0.005
	1,2-Dichlorobenzene	0.005
	1,3-Dichlorobenzene	0.005
	1,4-Dichlorobenzene	0.005
	Dichlorodifluoromethane	0.005
	1,1-Dichloroethane	0.005
	1,2-Dichloroethane	0.005
	1,1-Dichloroethene	0.005
	cis-1,2-Dichloroethene	0.005
	trans-1,2-Dichloroethene	0.005
	1,2-Dichloropropane	0.005
	1,3-Dichloropropane	0.005
	2,2-Dichloropropane	0.005
	1,1-Dichloropropene	0.005
	cis-1,3-Dichloropropene	0.005
	trans-1,3-Dichloropropene	0.005
	Ethylbenzene	0.005
	Hexachlorobutadiene	0.005
	Isopropylbenzene	0.005
	p-Isopropyltoluene	0.005
	Methylene Chloride	0.005

Analysis Category	Constituents/Contaminants	Maximum Contaminant Level (mg/l)
POC's (continued)	Methyl Tert. Butyl Ether (MTBE)	0.05
	n-Propylbenzene	0.005
Principal Organic Contaminants	Styrene	0.005
	1,1,1,2-Tetrachloroethane	0.005
	1,1,2,2-Tetrachloroethane	0.005
	Tetrachloroethene	0.005
	Toluene	0.005
	1,2,3-Trichlorobenzene	0.005
	1,2,4-Trichlorobenzene	0.005
	1,1,1-Trichloroethane	0.005
	1,1,2-Trichloroethane	0.005
	Trichloroethene	0.005
	Trichlorofluoromethane	0.005
	1,2,3-Trichloropropane	0.005
	1,2,4-Trimethylbenzene	0.005
	1,3,5-Trimethylbenzene	0.005
	m-Xylene	0.005
	o-Xylene	0.005
	p-Xylene	0.005
	Vinyl Chloride	0.002
	Bromoform	0.05
	Bromodichloromethane	0.05
	Chloroform	0.05
	Chlorodibromomethane	0.05
TTHM's	Total Trihalomethanes	0.1
UOC	Unspecified Organic Contaminant	0.05
-	Total POC's and UOC's	0.1
Microbiological MIC.	Total Coliform	None Detected
	Escherichia Coliform (I)	None Detected
Radiological RAD.	Gross Alpha Particle Activity	15.0 (J)

(A) USEPA Action Level

(B) The combined concentration of iron and manganese should not exceed 0.5 mg/l.

(C) The NCDH recommends that the Langelier Saturation Index should be as close to zero as possible.

(D) The total Nitrate and Nitrite should not exceed 10.0 mg/l.

(E) The NYSDOH recommends that the sodium level not exceed 20 mg/l for severely restricted sodium diets and 270 mg/l for moderately restricted sodium diets.

(F) NCDH guideline

(G) 1,2-Dibromo-3-Chloropropane

(H) Total Trihalomethanes means the sum of Bromoform, Bromodichloromethane, Chloroform and Chlorodibromomethane.

(I) The Escherichia Coliform (E. Coli) analysis is only required in a sample where the Total Coliform is positive.

(J) If the gross alpha particle activity is > 5 pc/l, the same or an equivalent sample shall be analyzed for Radium-226.

If the concentration of Radium-226 is >3 pc/l, the same or equivalent sample shall be analyzed for Radium-228.

NASSAU COUNTY DEPARTMENT OF HEALTH

WATER QUALITY MONITORING REQUIREMENTS FOR 1999
GROUNDWATER SOURCES - COMMUNITY PUBLIC WATER SYSTEMS

CONSTITUENTS/CONTAMINANTS REQUIRED TO BE TESTED
AND MAXIMUM CONTAMINANT LEVELS

Analysis Category	Constituents/Contaminants	Maximum Contaminant Level (mg/l)
<u>IOC's</u>	Alkalinity, Total	-
	Ammonia as N	-
Physical And Inorganic Constituents (mg/l)	Antimony	0.006
	Arsenic	0.05
	Barium	2.0
	Beryllium	0.004
	Cadmium	0.005
	Calcium Hardness	-
	Chloride	250
	Chromium	0.10
	Color	15 units
	Copper	1.3(A)
	Cyanide, Free	0.2
	Dissolved Solids, Total	-
	Foaming Agents	-
	Fluoride	2.2
	Hardness, Total	-
	Iron	0.3(B)
	Langelier Index	(C)
	Lead	0.015(A)
	Manganese	0.3(B)
	Mercury	0.002
	Nickel	0.1
	Nitrate as N	10.0(D)
	Nitrite as N	1.0(D)
	Odor	3 units
	pH	7.5 - 8.5(F)
	Selenium	0.05
	Silver	0.1
	Sodium	(E)
	Sulfate	250
	Temperature (°F or °C)	-
	Thallium	0.002
	Turbidity	5 units
	Zinc	5.0

Analysis Category	Constituents/Contaminants	Maximum Contaminant Level (mg/l)
<u>SOC's</u>	Alachlor	0.002
	Aldicarb	0.003
Specific Organic Chemicals/ Pesticides (mg/l)	Aldicarb Sulfone	0.002
	Aldicarb Sulfoxide	0.004
	Atrazine	0.003
	Carbofuran	0.04
	Chlordane, Total	0.002
	DBCP (G)	0.0002
	2,4,D	0.05
	Endrin	0.002
	1,2-Dibromoethane (EDB)	0.00005
	Heptachlor	0.0004
	Heptachlor Epoxide	0.0002
	Lindane	0.0002
	Methoxychlor	0.04
	Polychlorinated Biphenyls (PCBs)	0.0005
	Pentachlorophenol	0.001
	Toxaphene	0.003
	2,4,5-TP (Silvex)	0.01
Group 1 Chemicals	Aldrin	0.005
	Benzo(a)pyrene	0.0002
Group 2 Chemicals	Butachlor	0.05
	Carbaryl	0.05
	Dalapon	0.2
	Di(2-ethylhexyl)adipate	0.4
	Di(2-ethylhexyl)phthalate	0.006
	Dicamba	0.05
	Dieldrin	0.005
	Dinoseb	0.007
	Diquat	0.02
	Endothall	0.1
	Glyphosate	0.7
	Hexachlorobenzene	0.001
	Hexachlorocyclopentadiene	0.05
	3-Hydroxycarbofuran	0.05
	Methomyl	0.05
	Metolachlor	0.05
	Metribuzin	0.05
	Oxamyl (Vydate)	0.2
	Picloram	0.5
	Propachlor	0.05
	Simazine	0.004
	2,3,7,8-TCDD (Dioxin)	0.00000003

NASSAU COUNTY DEPARTMENT OF HEALTH
WATER QUALITY MONITORING REQUIREMENTS FOR 1999
PUBLIC WATER SYSTEMS - DISTRIBUTION SYSTEM TAP MONITORING

COMMUNITY WATER SYSTEMS	FREQUENCY:	ANALYSIS CATEGORY [1]			
		IOCS	POCS	THMS [2]	MIC [3,5,6]
		SA	SA	A	M
ALBERTSON WD		1	1	1	15
BAYVILLE (V)		1	1	NR	10
BETHPAGE WD		1	2	NR	40
CARLE PLACE WD		1	1	NR	16
DEFOREST DRIVE ASSOC WS		1 [A]	1 [A]	1	2[4]
EAST WILLISTON (V)		1	1	1	3[4]
FARMINGDALE (V)		1	1	NR	9
FRANKLIN SQ WD		1	2	NR	40
FREEMONT (V)		2	1	NR	40
GARDEN CITY (V)		1	2	NR	40
GARDEN CITY PARK WD		1	2	NR	20
GARDEN CITY SQ WD		1	1	1	2[4]
GLEN COVE, CITY of		1	2	2	40
GLENWOOD WD		1	1	NR	2[4]
GREAT NECK NORTH, WA of		1	2	2	32
HEMPSTEAD, TOWN OF [7]		3	5	5	100
HEMPSTEAD VILLAGE		2	3	3	60
HICKSVILLE WD		2	3	NR	60
JERICHO WD		2	4	NR	60
LIDO-POINT LOOKOUT W.D.		1	1	1	7
LOCUST VALLEY WD		1	1	NR	8
LONG ISLAND WATER CORP		4	8	8	152
LONG BEACH, CITY of		1	1	2	40
MANHASSET-LAKEVILLE WD		2	3	3[10]	50
MASSAPEQUA WD		2	3	3	52
MILL NECK ESTATES WS		1 [A]	1 [A]	NR	2[4]
MINEOLA (V)		1	2	NR	24
NORTHEAST FARMINGDALE WD		NR	NR	NR	NR

COMMUNITY WATER SYSTEMS	FREQUENCY:	ANALYSIS CATEGORY [1]			
		IOCS	POCS	THMS [2]	MIC [3,5,6]
		SA	SA	A	M
NEW YORK WATER SERVICE CORP		4	2	7	120
OLD WESTBURY (V)		1	1	NR	8[4]
OYSTER BAY WD		1	1	1[10]	9
PLAINVIEW WD		1	2	2	60
PLANDOME (V)		1	1	NR	2[4]
PORT WASHINGTON WD		1	2	2[10]	30
ROCKVILLE CENTRE (V)		1	1	2	30
ROSLYN WD		1	2	1[10]	30
SAGAMORE HILL N.H.S.		1 [A]	1 [A]	1	2[4]
SANDS POINT (V)		1	1	NR	8[4]
SEA CLIFF WATER CO		1	1	1	40
SOUTH FARMINGDALE WD		2	1	3	60/80
SPLIT ROCK WS		1 [A]	1 [A]	NR	2[4]
SWAN COVE WS		1 [A]	1 [A]	1	2[4]
W.A. OF WESTERN NASSAU		3	5	5	100
WEST HEMPSTEAD WD		1	2	2	45
WESTBURY WD		1	2	NR	20
WILLISTON PARK (V)		1	1	1	8

NON-COMMUNITY WATER SYSTEMS	FREQUENCY:	ANALYSIS CATEGORY [1]			
		IOCS	POCS	THMS [2]	MIC [3,5,6]
		SA	SA	A	M
BEAVER DAM WINTER SPORTS CLUB		1	1	NR	1
JONES BEACH STATE PARK		1	1	1	15[8]
SEAWANAHKA YACHT CLUB		1	1	NR	1
TORRAY BEACH		1	1	1	1[9]

- [1] See Table 2, 'Constituents Required to be Tested,' for constituents to be monitored for each analysis code.
- [2] In systems that chlorinate, Total Trihalomethanes (THMS) samples are to be taken yearly at locations approved by NCDH as part of a reduced sampling program.
- [3] In systems that chlorinate, a chlorine residual must be taken and reported with each required distribution system microbiological sample.
- [4] In any month following the collection of repeat samples, a minimum of 5 routine samples must be collected in systems which normally collect 4 or less samples monthly.
- [5] Minimum number of samples required as contained in Table 11 of NYSSC, however each water system should comply with sampling numbers outlined in their Sampling Site Plan.
- [6] *Escherichia Coliform* (E. Coli) must be tested in any sample where the Total Coliform is positive.
- [7] Includes Bowling Green, East Meadow, Levittown, Roosevelt Field and Uniondale Water Districts.
- [8] During June - September, 30 microbiological samples must be collected monthly.
- [9] During June - September, 2 microbiological samples must be collected monthly.
- [10] Systems that are partially chlorinated must collect THM samples in chlorinated areas.

FREQUENCY CODES: A - Annual M - Monthly SA - Semi - Annual TE - Triennial NR - Not Required

NASSAU COUNTY DEPARTMENT OF HEALTH

WATER QUALITY MONITORING REQUIREMENTS FOR 1999

PUBLIC WATER SYSTEMS - GROUND WATER SOURCE MONITORING (Each Well Prior to Treatment)

COMMUNITY WATER SYSTEMS	ANALYSIS CATEGORY [1]			
	IOCS	SOCs	POCS	MIC [1]
ALBERTSON WD	A	ST	Q	Q
BAYVILLE (V)	A	ST	Q	Q
BETHPAGE WD	A	ST	Q	Q
BOWLING GREEN WD	A	ST	Q	Q
CARLE PLACE WD	A	ST	Q	Q
DeFOREST DRIVE ASSOC WS	A	ST	Q	Q
EAST MEADOW WD	A	TE	Q	Q
EAST WILLISTON (V)	A	ST	Q	Q
FARMINGDALE (V)	NR	NR	NR	NR
FRANKLIN SQ WD	A	ST	Q	Q
FREEMONT (V)	A	ST	Q	Q
GARDEN CITY (V)	A	ST	Q	Q
GARDEN CITY PARK WD	A	ST	Q	Q
GARDEN CITY SO WD	NR	NR	NR	NR
GLEN COVE, CITY of	A	ST	Q	Q
GLENWOOD WD	NR	NR	NR	NR
GREAT NECK NORTH, WA of	A	ST	Q	Q
HEMPSTEAD VILLAGE	A	ST	Q	Q
HICKSVILLE WD	A	ST	Q	Q
JERICHO WD	A	ST	Q	Q
LEVITTOWN WD	A	ST	Q	Q
LIDO-POINT LOOKOUT W.D.	A	ST	Q	Q
LONG ISLAND WATER CORP	A	ST	Q	Q
LOCUST VALLEY WD	A	ST	Q	Q
LONG BEACH, CITY of	A	ST	Q	Q
MANHASSET-LAKEVILLE WD	A	ST	Q	Q
MASSAPEQUA WD	A	ST	Q	Q
MILL NECK ESTATES WS	A	TE	Q	Q
MINEOLA (V)	A	ST	Q	Q

COMMUNITY WATER SYSTEMS	ANALYSIS CATEGORY [1]			
	IOCS	SOCs	POCS	MIC [1]
NORTHEAST FARMINGDALE WD	NR	NR	NR	NR
NEW YORK WATER SERVICE CORP	A	ST	Q	Q
OLD WESTBURY (V)	A	ST	Q	Q
OYSTER BAY WD	A	ST	Q	Q
PLAINVIEW WD	A	ST	Q	Q
PLANDOME (V)	NR	NR	NR	NR
PORT WASHINGTON WD	A	ST	Q	Q
ROCKVILLE CENTRE (V)	A	ST	Q	Q
ROOSEVELT FIELD WD	A	ST	Q	Q
ROSLYN WD	A	TE	Q	Q
SAGAMORE HILL N.H.S.	A	ST	Q	Q
SANDS POINT (V)	A	ST	Q	Q
SEA CLIFF WATER CO	A	ST	Q	Q
SOUTH FARMINGDALE WD	A	ST	Q	Q
SPLIT ROCK WS	A	TE	Q	Q
SWAN COVE WS	A	TE	Q	Q
UNIONDALE WD	A	ST	Q	Q
WEST HEMPSTEAD WD	A	ST	Q	Q
WESTBURY WD	A	ST	Q	Q
W.A. OF WESTERN NASSAU	A	ST	Q	Q
WILLISTON PARK (V)	A	ST	Q	Q

NON-COMMUNITY WATER SYSTEMS	ANALYSIS CATEGORY [1]			
	IOCS	SOCs	POCS	MIC [1]
BEAVER DAM WINTER SPORTS CLUB	A	TE	Q	Q
JONES BEACH STATE PARK	A	TE	Q	Q
SEAWANHAKA YACHT CLUB	A	TE	Q	Q
TOBAY BEACH	A	TE	Q	Q

[1] See Table 2, 'Constituents Required to be Tested,' for constituents to be monitored for each analysis code.

[2] Those public supply wells for which initial SOC monitoring was not performed or those wells with a detection are required to be monitored for these constituents on a quarterly basis.

[3] Quarterly testing of poc constituents may be reduced to annual monitoring based on the non-detection of all constituents in the most recent of four consecutive quarterly samples.

Monitoring reductions must be requested in writing, along with sample results for justification.

FREQUENCY CODES: A - Annual M - Monthly SA - Semi - Annual TE - Triennial NR - Not Required

NASSAU COUNTY DEPARTMENT OF HEALTH

REQUIRED MONITORING AT WATER SUPPLY TREATMENT FACILITIES

GROUND WATER SOURCES - PUBLIC WATER SYSTEMS

1999

TREATMENT PROVIDED	MONITORING REQUIRED (1)	MONITORING FREQUENCY	
		RAW (2)	TREATED
VOC or SOC REMOVAL (3) BY AIR STRIPPER OR GAC FACILITY	ORGANIC DESIGN CHEMICALS (4)	MONTHLY	MONTHLY
	ORGANIC (POC.1, POC.2) BACTERIOLOGICAL (MIC.1)	QUARTERLY	MONTHLY
	PHYSICAL (PHY.1) INORGANIC (IOC.1, IOC.2, COR.1)	ANNUALLY	ANNUALLY
IRON REMOVAL	IRON AND MANGANESE	MONTHLY (5)	MONTHLY (5)
NITRATE REMOVAL	NITRATE	MONTHLY (5)	MONTHLY (5)

- (1) All analyses must be performed by a NYSDOH approved laboratory with results sent to NCDH.
- (2) If more than one well is being treated by the same removal system, a raw water sample must be collected from each well.
- (3) The minimum run time before sample collection should be one hour at air stripping facilities and 30 minutes at GAC facilities.
- (4) Testing is required only for those compounds for which the removal system was designed during the first six months of operation. Thereafter, organic (POC.1, POC.2) monitoring requirements should be followed.
- (5) In addition to NCDH required monitoring, it is recommended that daily testing be performed by water system personnel.

PRELIMINARY TESTING AT VOC REMOVAL FACILITIES

Preliminary testing is required prior to issuance of NCDH approval to operate the facility into the distribution system, after completion of treatment construction, carbon replacement (GAC only) or periods of extended plant shutdown as may occur during the winter. The air-stripper or GAC should be flushed to waste and shut down overnight prior to the collection of the preliminary test samples.

Preliminary testing includes:

For Air Strippers:

Bacteriological Series (0,2,5,10 and 30 minutes).

Physical, Inorganic and Organic Constituents (after 1 hour run time).

For GAC Facilities:

Bacteriological Series (0,2,5,10 and 30 minutes).

Physical, Inorganic and Organic Constituents (after 30 minute run time).

Arsenic Series (0,2,5,10 and 30 minutes).

NASSAU COUNTY DEPARTMENT OF HEALTH
COMMUNITY PUBLIC WATER SYSTEMS
MAXIMUM CONTAMINANT LEVEL (MCL) VIOLATION DETERMINATION

1999

IF A RESULT OF A MONITORING SAMPLE ANALYSIS EXCEEDS A CONTAMINANT MCL, THE WATER SYSTEM SHALL COLLECT RESAMPLES TO DETERMINE IF AN MCL VIOLATION EXISTS ACCORDING TO THE FOLLOWING TABLE:			
CONTAMINANT(S)	DETERMINATION OF MCL VIOLATION		
	RESAMPLES REQUIRED	WITHIN (TIME)	MCL VIOLATION EXISTS WHEN:
ANTIMONY, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, CHROMIUM, CYANIDE, MERCURY, SELENIUM, SILVER, THALLIUM, FLUORIDE, CHLORIDE, IRON, MANGANESE, SODIUM, SULFATE, ZINC, COLOR, ODOR	ONE	2 WEEKS	THE AVERAGE OF THE TWO RESULTS EXCEEDS THE MCL. (A)
NITRATE, NITRITE	ONE	24 HOURS	THE AVERAGE OF THE TWO RESULTS EXCEEDS THE MCL.
POC's, SOC's UNSPECIFIED ORGANIC CONTAMINANTS	ONE TO THREE	30 DAYS	AT LEAST ONE OF THE CONFIRMING SAMPLES IS POSITIVE AND THE AVERAGE OF THE INITIAL SAMPLE AND ALL CONFIRMING SAMPLES EXCEEDS THE MCL.
TOTAL COLIFORM	FOUR (B)	24 HOURS	IN SYSTEMS COLLECTING LESS THAN 40 SAMPLES PER MONTH - TWO OR MORE SAMPLES ARE POSITIVE FOR TOTAL COLIFORM.
			IN SYSTEMS COLLECTING 40 OR MORE SAMPLES PER MONTH - MORE THAN 5.0 PERCENT OF SAMPLES ARE POSITIVE FOR TOTAL COLIFORM.
ESCHERICHIA COLIFORM (E. COLI)	FOUR (B)	24 HOURS	A TOTAL COLIFORM POSITIVE SAMPLE IS POSITIVE FOR E. COLI AND A REPEAT TOTAL COLIFORM SAMPLE IS POSITIVE OR, A TOTAL COLIFORM POSITIVE SAMPLE IS NEGATIVE FOR E. COLI, BUT A REPEAT TOTAL COLI. SAMPLE IS POSITIVE FOR E. COLI.
TOTAL TRIHALOMETHANES	NA	NA	THE AVERAGE OF THE FOUR MOST RECENT SETS OF QUARTERLY SAMPLES EXCEEDS THE MCL
COMBINED RADIUM-226 AND RADIUM-228 GROSS ALPHA ACTIVITY	NA	NA	THE ANNUAL COMPOSITE OF FOUR QUARTERLY SAMPLES OR THE AVERAGE OF THE ANALYSIS OF FOUR QUARTERLY SAMPLES EXCEEDS THE MCL.

(A) Rounded to the same number of significant figures as the MCL for the contaminant in question.

(B) Repeat samples must be collected on the same day. One repeat sample must be from the same sampling site that the original coliform positive sample was collected, one repeat sample within five service connections upstream and one repeat sample within five service connections downstream and one taken at random in the distribution system. If one or more repeat samples is total coliform positive, another set of repeat samples must be collected. This process must be repeated until total coliform are not detected in one complete set or it is determined that the MCL has been exceeded.

NASSAU COUNTY DEPARTMENT OF HEALTH

**INORGANIC CHEMICAL QUALITY - NITRATE as NITROGEN
PUBLIC WATER SUPPLY WELLS - RAW WATER**

ANNUAL TESTING DURING 1999, 1998 and 1997

YEAR	AQUIFER	WELLS TESTED	<1 mg/L		1 to 10 mg/L		>10 mg/L	
			WELLS DETECTED	PERCENT	WELLS DETECTED	PERCENT	WELLS DETECTED	PERCENT
1999	GLACIAL	20	0	0%	20	100%	0	0%
	MAGOTHY	270	120	44%	150	56%	0	0%
	LLOYD	26	15	58%	11	42%	0	0%
	Total	316	135	43%	181	57%	0	0%
1998	GLACIAL	20	3	15%	17	85%	0	0%
	MAGOTHY	281	130	46%	151	54%	0	0%
	LLOYD	35	25	71%	10	29%	0	0%
	Total	336	158	47%	178	53%	0	0%
1997	GLACIAL	20	3	15%	17	85%	0	0%
	MAGOTHY	277	122	44%	154	56%	1	0%
	LLOYD	32	25	78%	7	22%	0	0%
	Total	329	150	46%	178	54%	1	0%

Based on data from NCDH and certified private laboratories and all samples tested from each well during the given period.

Wells exceeding the drinking water standard are either blended, treated or not used.

NASSAU COUNTY DEPARTMENT OF HEALTH

INORGANIC CHEMICAL QUALITY PUBLIC WATER SUPPLY WELLS - RAW WATER Annual Testing Results During 1999, 1998 and 1997

CONSTITUENT	DRINKING WATER STANDARD mg/L (a)	1999				1998				1997			
		WELLS TESTED	WELLS DETECTED	EXCEED STD	MAX VALUE mg/L	WELLS TESTED	WELLS DETECTED	EXCEED STD	MAX VALUE mg/L	WELLS TESTED	WELLS DETECTED	EXCEED STD	MAX VALUE mg/L
Arsenic	0.05	300	0	0	-	337	0	0	-	329	0	0	-
Barium	2.0	299	68	0	0.26	337	94	0	0.20	329	19	0	0.05
Cadmium	0.005	299	0	0	-	337	0	0	-	329	1	0	0.001
Chloride	250	299	291	0	144.00	337	337	0	140.00	331	329	0	133.00
Chromium	0.1	299	4	0	0.017	337	1	0	0.006	329	2	0	0.006
Copper	1.3 (b)	299	128	0	0.56	337	141	0	0.55	329	138	1	20.00
Cyanide	0.2	292	0	0	-	323	0	0	-	147	0	0	-
Fluoride	2.2	299	3	0	0.120	337	14	0	0.300	329	5	0	0.430
Iron	0.3 (c)	299	185	69	19.10	337	212	86	6.41	329	170	93	48.00
Lead	0.015 (b)	300	77	0	0.015	337	90	6	5.00	329	110	5	4.20
Manganese	0.3 (c)	299	71	1	0.32	337	98	4	19.01	329	86	3	18.00
Mercury	0.002	298	1	0	0.0004	337	3	0	0.0004	326	4	0	0.0007
Nitrite	1 (d)	314	12	2	4.900	335	4	0	1.300	329	5	0	0.040
Selenium	0.01	299	0	0	-	337	1	0	0.003	329	0	0	-
Silver	0.05	299	0	0	-	337	1	0	0.001	329	1	0	0.001
Sodium	(e)	299	291	-	72.60	337	337	-	63.00	329	329	-	54.00
Sulfate	250	299	203	0	80.00	337	243	0	73.00	329	196	0	76.00
Zinc	5.0	299	149	0	3.43	337	181	0	0.43	324	119	0	0.38

Based on the average (except for maximum value) of all results for each well tested during the period. Data from NCDH and certified private laboratories.

(a) Drinking Water Standard from Part 5, NYCRR, Public Water Supplies.

(b) USEPA Action Level, National Primary Drinking Water Regulations for Lead and Copper, May 1991.

(c) Combined concentration of Iron and Manganese should not exceed 0.5mg/l

(d) Total Nitrate and Nitrite should not exceed 10.0 mg/l.

(e) The NYSDOH recommends the sodium level not exceed 20 mg/l for severely restricted sodium diets and 270 mg/l for moderately restricted sodium diets.

NASSAU COUNTY DEPARTMENT OF HEALTH

**ORGANIC CHEMICAL LEVELS DETECTED BY AQUIFER
PUBLIC WATER SUPPLY WELLS - RAW WATER
Annual Testing Results For 1999, 1998 and 1997.**

YEAR	AQUIFER	WELLS TESTED	LEVEL DETECTED (ug/l)							
			NONE DETECTED		DETECTED <5		DETECTED 5 to 50		DETECTED >50	
			WELLS	%	WELLS	%	WELLS	%	WELLS	%
1999	GLACIAL	22	7	32%	11	50%	2	9%	2	9%
	MAGOTHY	280	167	60%	66	24%	27	10%	20	7%
	LLOYD	35	27	77%	7	20%	1	3%	0	0%
	Total	337	201	60%	84	25%	30	9%	22	7%
1998	GLACIAL	21	5	24%	10	48%	4	19%	2	10%
	MAGOTHY	291	181	62%	59	20%	28	10%	23	8%
	LLOYD	34	26	76%	5	15%	3	9%	0	0%
	Total	346	212	61%	74	21%	35	10%	25	7%
1997	GLACIAL	21	12	57%	5	24%	1	5%	3	14%
	MAGOTHY	282	176	62%	62	22%	23	8%	21	7%
	LLOYD	35	30	86%	4	11%	1	3%	0	0%
	Total	338	218	64%	71	21%	25	7%	24	7%

Based on the maximum level for any individual organic chemical detected at each well tested between January 1 and December 31 each year. Data from NCDH and certified private laboratories.

NASSAU COUNTY DEPARTMENT OF HEALTH

**VOLATILE ORGANIC CHEMICALS
MOST FREQUENTLY DETECTED IN PUBLIC WATER SUPPLY WELLS
RAW WATER - 1999**

GLACIAL AQUIFER 22 WELLS TESTED	
CHEMICAL	PERCENT DETECTION
Tetrachloroethylene(PCE)	32%
Trichloroethylene(TCE)	32%
1,1,1-Trichloroethane(TCA)	32%
1,1-dichloroethylene	32%
1,1-dichloroethane(DCA)	23%
Methyl Tert Butyl Ether (MTBE)	23%
Chloroform	23%
cis-1,2-dichloroethylene	23%

MAGOTHY AQUIFER 280 WELLS TESTED	
CHEMICAL	PERCENT DETECTION
Trichloroethylene(TCE)	23%
Tetrachloroethylene(PCE)	22%
1,1,1-Trichloroethane(TCA)	19%
Chloroform	15%
1,1-dichloroethane(DCA)	14%
1,1-dichloroethylene(DCE)	12%
cis-1,2-dichloroethylene	11%

LLOYD AQUIFER 35 WELLS TESTED	
CHEMICAL	PERCENT DETECTION
Tetrachloroethylene(PCE)	9%
1,1-dichloroethane(DCA)	9%
1,1,1-Trichloroethane(TCA)	9%
Chloroform	6%
Bromoform	6%
Trichloroethylene(TCE)	3%
Methylene Chloride	3%
Methyl Tert Butyl Ether (MTBE)	3%

TOTAL 337 WELLS TESTED	
CHEMICAL	PERCENT DETECTION
Trichloroethylene(TCE)	22%
Tetrachloroethylene(PCE)	21%
1,1,1-Trichloroethane(TCA)	19%
1,1-dichloroethane(DCA)	14%
Chloroform	14%
1,1-dichloroethylene(DCE)	12%
cis-1,2-dichloroethylene	10%

Based on results from all samples analyzed during 1999.
Data from NCDH and certified private laboratory testing.

NASSAU COUNTY DEPARTMENT OF HEALTH
ORGANIC LEVELS DETECTED BY CONTAMINANT
PUBLIC WATER SUPPLY WELLS
GLACIAL AQUIFER - RAW WATER
Annual Testing Results During 1999, 1998 and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
Benzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Bromobenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Bromochloromethane	22	0	0%	-	21	0	0%	-	21	0	0%	-
Bromodichloromethane	22	0	0%	-	21	1	5%	3.0	21	0	0%	-
Bromoform	22	1	5%	2.2	21	2	10%	7.0	21	2	10%	2.0
Bromomethane	22	0	0%	-	21	0	0%	-	21	0	0%	-
n-Butylbenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
sec-Butylbenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
tert-Butylbenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Carbon Tetrachloride	22	0	0%	-	21	0	0%	-	21	0	0%	-
Chlorobenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Chlorodibromomethane	22	1	5%	14.0	21	1	5%	6.0	21	1	5%	1.0
Chloroethane	22	0	0%	-	21	0	0%	-	21	0	0%	-
Chloroform	22	5	23%	2.9	21	2	10%	2.0	21	3	14%	1.0
Chloromethane	22	0	0%	-	21	0	0%	-	21	0	0%	-
o-Chlorotoluene	22	0	0%	-	21	0	0%	-	21	0	0%	-
p-Chlorotoluene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Dibromomethane	22	0	0%	-	21	0	0%	-	21	0	0%	-
1,2-dichlorobenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
1,3-dichlorobenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
1,4-dichlorobenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Dichlorodifluoromethane	22	0	0%	-	21	0	0%	-	21	1	5%	0.6
1,1-dichloroethane	22	5	23%	4.0	21	4	19%	3.7	21	4	19%	3.0
1,2-dichloroethane	22	2	9%	0.7	21	1	5%	0.8	21	2	10%	1.0
1,1,1-dichloroethylene	22	7	32%	3.1	21	4	19%	4.3	21	3	14%	4.7
cis-1,2-dichloroethylene	22	5	23%	570.0	21	4	19%	500.0	21	3	14%	930.0
trans-1,2-dichloroethylene	22	1	5%	0.5	21	1	5%	0.6	21	2	10%	1.6
1,2-dichloropropane	22	0	0%	-	21	0	0%	-	21	0	0%	-
1,3-dichloropropane	22	0	0%	-	21	0	0%	-	21	0	0%	-
2,2-dichloropropane	22	0	0%	-	21	0	0%	-	21	0	0%	-

All values are in µg/l.
Based on NCDH and certified private laboratory results for all samples tested during the period.
Results reported as combinations of two or more constituents are not included if positive since the detected constituent or level could not be assumed.

NASSAU COUNTY DEPARTMENT OF HEALTH
ORGANIC LEVELS DETECTED BY CONTAMINANT
PUBLIC WATER SUPPLY WELLS
GLACIAL AQUIFER - RAW WATER

Annual Testing Results During 1999, 1998 and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
1,1-dichloropropene	22	0	0%	-	21	0	0%	-	21	0	0%	-
cis-1,3-dichloropropene	22	0	0%	-	21	0	0%	-	21	0	0%	-
trans-1,3-dichloropropene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Ethyl Benzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Hexachlorobutadiene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Isopropylbenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
p-isopropyltoluene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Methylene chloride	22	0	0%	-	21	0	0%	-	21	0	0%	-
N-propylbenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Styrene	22	0	0%	-	21	0	0%	-	21	0	0%	-
1,1,1,2-tetrachloroethane	22	0	0%	-	21	0	0%	-	21	0	0%	-
1,1,2,2-tetrachloroethane	22	0	0%	-	21	0	0%	-	21	0	0%	-
Tetrachloroethylene	22	7	32%	53.0	21	5	24%	74.0	21	5	24%	110.0
Toluene	22	2	9%	2.2	21	1	5%	0.7	21	1	5%	1.9
1,2,3-Trichlorobenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
1,2,4-Trichlorobenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
1,1,1-Trichloroethane	22	7	32%	2.4	21	5	24%	2.0	21	3	14%	3.0
1,1,2-Trichloroethane	22	0	0%	-	21	0	0%	-	21	0	0%	-
Trichloroethylene	22	7	32%	73.0	21	5	24%	66.0	21	5	24%	110.0
Trichlorofluoromethane	22	0	0%	-	21	0	0%	-	21	1	5%	0.7
1,2,3-Trichloropropane	22	0	0%	-	21	0	0%	-	21	0	0%	-
1,2,4-Trimethylbenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
1,3,5-Trimethylbenzene	22	0	0%	-	21	0	0%	-	21	0	0%	-
Vinyl Chloride	22	2	9%	0.9	21	0	0%	-	21	0	0%	-
m-Xylene	10	0	0%	-	11	0	0%	-	12	0	0%	-
o-Xylene	22	0	0%	-	21	0	0%	-	21	0	0%	-
p-Xylene	10	0	0%	-	11	0	0%	-	12	0	0%	-
Methyl-tert-butyl-ether (MTBE)	22	5	23%	2.1	21	6	29%	7.0	0	0	-	-

All values are in µg/l.

Based on NCDH and certified private laboratory results for all samples tested during the period.

Results reported as combinations of two or more constituents are not included if positive since the detected constituent or level could not be assumed.

NASSAU COUNTY DEPARTMENT OF HEALTH
ORGANIC LEVELS DETECTED BY CONTAMINANT
PUBLIC WATER SUPPLY WELLS
MAGOTHY AQUIFER - RAW WATER
Annual Testing Results During 1999, 1998 and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
Benzene	280	0	0%	-	287	1	<1%	0.7	282	1	<1%	0.8
Bromobenzene	280	0	0%	-	287	0	0%	-	282	0	0%	-
Bromochloromethane	280	1	<1%	0.5	287	0	0%	-	282	0	0%	-
Bromodichloromethane	280	7	3%	5.0	287	6	2%	2.0	282	8	3%	3.0
Bromoform	280	7	3%	20.0	287	7	2%	5.0	282	10	4%	3.0
Bromomethane	280	0	0%	-	279	5	2%	1.0	282	0	0%	-
n-Butylbenzene	280	0	0%	-	287	2	<1%	1.2	282	3	1%	5.3
sec-Butylbenzene	280	0	0%	-	287	0	0%	-	282	0	0%	-
tert-Butylbenzene	280	0	0%	-	287	0	0%	-	281	0	0%	-
Carbon Tetrachloride	280	14	5%	8.7	287	9	3%	6.0	282	10	4%	7.0
Chlorobenzene	280	1	<1%	1.1	287	2	<1%	1.3	282	1	<1%	1.3
Chlorodibromomethane	280	7	3%	14.0	287	7	2%	3.0	282	12	4%	4.0
Chloroethane	280	0	0%	-	287	3	1%	2.0	282	0	0%	-
Chloroform	280	41	15%	22.0	287	33	11%	13.0	282	34	12%	9.3
Chloromethane	280	0	0%	-	287	0	0%	-	282	2	<1%	1.7
o-Chlorotoluene	280	0	0%	-	287	0	0%	-	282	0	0%	-
p-Chlorotoluene	280	0	0%	-	287	0	0%	-	282	0	0%	-
Dibromomethane	277	0	0%	-	255	0	0%	-	257	0	0%	-
1,2-dichlorobenzene	280	0	0%	-	287	0	0%	-	282	0	0%	-
1,3-dichlorobenzene	280	0	0%	-	287	0	0%	-	282	0	0%	-
1,4-dichlorobenzene	280	0	0%	-	287	0	0%	-	282	0	0%	-
Dichlorodifluoromethane	280	15	5%	22.0	287	23	8%	31.0	282	27	10%	22.0
1,1-dichloroethane	280	38	14%	32.0	287	35	12%	7.8	282	29	10%	4.7
1,2-dichloroethane	280	7	3%	2.0	287	8	3%	2.0	282	7	2%	2.0
1,1-dichloroethylene	280	34	12%	48.0	287	42	15%	65.0	282	34	12%	46.0
cis-1,2-dichloroethylene	280	30	11%	425.0	287	31	11%	72.0	281	25	9%	66.0
trans-1,2-dichloroethylene	243	0	0%	-	266	2	<1%	0.9	282	1	<1%	1.4
1,2-dichloropropane	280	5	2%	5.6	287	4	1%	2.0	282	6	2%	4.0
1,3-dichloropropane	280	0	0%	-	287	0	0%	-	282	0	0%	-
2,2-dichloropropane	280	0	0%	-	287	2	<1%	2.0	281	5	2%	2.0

All values are in µg/l.
Based on NCDDH and certified private laboratory results for all samples tested during the period.
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NASSAU COUNTY DEPARTMENT OF HEALTH
ORGANIC LEVELS DETECTED BY CONTAMINANT
PUBLIC WATER SUPPLY WELLS
MAGOTHY AQUIFER - RAW WATER
Annual Testing Results During 1999, 1998 and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	% DETECTED	MAX LEVEL	TESTED	DETECTED	% DETECTED	MAX LEVEL	TESTED	DETECTED	% DETECTED	MAX LEVEL
1,1-dichloropropene	280	2	<1%	480.0	287	1	<1%	490.0	282	1	<1%	0.5
cis-1,3-dichloropropene	280	0	0%	-	287	0	0%	-	282	0	0%	-
trans-1,3-dichloropropene	280	0	0%	-	287	0	0%	-	281	0	0%	-
Ethyl Benzene	280	0	0%	-	287	2	<1%	3.0	282	0	0%	-
Hexachlorobutadiene	280	0	0%	-	287	0	0%	-	282	0	0%	-
Isopropylbenzene	280	0	0%	-	287	0	0%	-	282	0	0%	-
p-isopropyltoluene	280	0	0%	-	287	0	0%	-	282	1	<1%	1.1
Methylene chloride	280	6	2%	1.8	287	5	2%	1.2	282	3	1%	1.6
N-propylbenzene	280	0	0%	-	287	0	0%	-	282	1	<1%	0.5
Styrene	280	0	0%	-	287	0	0%	-	282	1	<1%	0.5
1,1,1,2-tetrachloroethane	280	0	0%	-	287	1	<1%	0.6	282	0	0%	-
1,1,2,2-tetrachloroethane	280	0	0%	-	287	0	0%	-	282	0	0%	-
Tetrachloroethylene	280	62	22%	660.0	287	65	23%	1100.0	282	57	20%	450.0
Toluene	280	7	3%	3.1	287	5	2%	39.0	282	3	1%	2.0
1,2,3-Trichlorobenzene	280	0	0%	-	287	0	0%	-	282	0	0%	-
1,2,4-Trichlorobenzene	280	0	0%	-	287	1	<1%	0.9	282	0	0%	-
1,1,1-Trichloroethane	280	53	19%	91.0	287	49	17%	69.0	282	41	15%	77.0
1,1,2-Trichloroethane	280	1	<1%	0.7	287	2	<1%	0.8	282	1	<1%	0.6
Trichloroethylene	280	65	23%	620.0	287	63	22%	710.0	282	54	19%	910.0
Trichlorofluoromethane	279	5	2%	2.4	266	5	2%	4.0	282	5	2%	4.1
1,2,3-Trichloropropane	278	0	0%	-	287	0	0%	-	282	2	<1%	3.4
1,2,4-Trimethylbenzene	280	0	0%	-	287	4	1%	2.5	282	3	1%	14.0
1,3,5-Trimethylbenzene	280	0	0%	-	287	2	<1%	1.3	282	3	1%	3.5
Vinyl Chloride	280	2	<1%	2.0	287	1	<1%	1.1	282	1	<1%	1.4
m-Xylene	206	0	0%	-	230	0	0%	-	207	0	0%	-
o-Xylene	268	0	0%	-	287	2	<1%	4.0	282	1	<1%	1.1
p-Xylene	206	0	0%	-	230	0	0%	-	207	0	0%	-
Methyl-tert-butyl-ether (MTBE)	269	16	6%	23.0	276	12	4%	4.8	0	0	-	-

All values are in µg/l.

Based on NCDH and certified private laboratory results for all samples tested during the period.

Results reported as combinations of two or more constituents are not included if positive since the detected constituent or level could not be assumed.

NASSAU COUNTY DEPARTMENT OF HEALTH

ORGANIC CHEMICAL LEVELS DETECTED BY CONTAMINANT

PUBLIC WATER SUPPLY WELLS

LLOYD AQUIFER - RAW WATER

Annual Testing Results During 1999, 1998 and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
Benzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Bromobenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Bromochloromethane	35	0	0%	-	34	0	0%	-	35	0	0%	-
Bromodichloromethane	35	0	0%	-	34	0	0%	-	35	1	3%	1.3
Bromoform	35	2	6%	2.0	34	1	3%	1.3	35	1	3%	2.2
Bromomethane	35	0	0%	-	34	2	6%	0.9	35	0	0%	-
n-Butylbenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
sec-Butylbenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
tert-Butylbenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Carbon Tetrachloride	35	0	0%	-	34	0	0%	-	35	0	0%	-
Chlorobenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Chlorodibromomethane	35	0	0%	-	34	0	0%	-	35	1	3%	3.0
Chloroethane	35	0	0%	-	34	0	0%	-	35	0	0%	-
Chloroform	35	2	6%	1.1	34	2	6%	7.2	35	3	9%	4.0
Chloromethane	35	0	0%	-	34	0	0%	-	35	0	0%	-
o-Chlorotoluene	35	0	0%	-	34	0	0%	-	35	0	0%	-
p-Chlorotoluene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Dibromomethane	29	0	0%	-	31	0	0%	-	33	0	0%	-
1,2-dichlorobenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
1,3-dichlorobenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
1,4-dichlorobenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Dichlorodifluoromethane	35	0	0%	-	34	1	3%	1.0	35	0	0%	-
1,1-dichloroethane	35	3	9%	2.5	34	1	3%	2.1	35	1	3%	1.7
1,2-dichloroethane	35	0	0%	-	34	0	0%	-	35	0	0%	-
1,1-dichloroethylene	35	0	0%	-	34	0	0%	-	35	1	3%	0.5
cis-1,2-dichloroethylene	35	0	0%	-	34	1	3%	4.1	34	0	0%	-
trans-1,2-dichloroethylene	31	0	0%	-	31	0	0%	-	34	0	0%	-
1,2-dichloropropane	35	0	0%	-	34	0	0%	-	35	0	0%	-
1,3-dichloropropane	35	0	0%	-	34	0	0%	-	35	0	0%	-
2,2-dichloropropane	35	0	0%	-	34	0	0%	-	34	0	0%	-

All values are in µg/l.

Based on NCDH and certified private laboratory results for all samples tested during the period.

Results reported as combinations of two or more constituents are not included if positive since the detected constituent or level could not be assumed.

NASSAU COUNTY DEPARTMENT OF HEALTH
ORGANIC CHEMICAL LEVELS DETECTED BY CONTAMINANT
PUBLIC WATER SUPPLY WELLS
LLOYD AQUIFER - RAW WATER
Annual Testing Results During 1999, 1998 and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
1,1-dichloropropene	35	0	0%	-	34	0	0%	-	35	0	0%	-
cis-1,3-dichloropropene	35	0	0%	-	34	0	0%	-	35	0	0%	-
trans-1,3-dichloropropene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Ethyl Benzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Hexachlorobutadiene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Isopropylbenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
p-isopropyltoluene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Methylene chloride	35	1	3%	0.6	34	0	0%	-	35	0	0%	-
N-propylbenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Styrene	35	0	0%	-	34	0	0%	-	35	0	0%	-
1,1,1,2-tetrachloroethane	35	0	0%	-	34	0	0%	-	35	0	0%	-
1,1,2,2-tetrachloroethane	35	0	0%	-	34	0	0%	-	35	0	0%	-
Tetrachloroethylene	35	3	9%	8.2	34	4	12%	8.5	35	3	9%	11.0
Toluene	35	0	0%	-	34	0	0%	-	35	0	0%	-
1,2,3-Trichlorobenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
1,2,4-Trichlorobenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
1,1,1-Trichloroethane	35	3	9%	0.8	34	1	3%	0.8	35	1	3%	0.8
1,1,2-Trichloroethane	35	0	0%	-	34	0	0%	-	35	0	0%	-
Trichloroethylene	35	1	3%	0.8	34	2	6%	1.7	35	2	6%	2.0
Trichlorofluoromethane	35	0	0%	-	31	0	0%	-	34	0	0%	-
1,2,3-Trichloropropane	29	0	0%	-	34	0	0%	-	35	0	0%	-
1,2,4-Trimethylbenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
1,3,5-Trimethylbenzene	35	0	0%	-	34	0	0%	-	35	0	0%	-
Vinyl Chloride	35	0	0%	-	34	0	0%	-	35	0	0%	-
m-Xylene	25	0	0%	-	24	0	0%	-	24	0	0%	-
o-Xylene	34	0	0%	-	34	0	0%	-	35	0	0%	-
p-Xylene	25	0	0%	-	24	0	0%	-	24	0	0%	-
Methyl-tert-butyl-ether (MTBE)	35	1	3%	0.6	33	1	3%	2.4	0	0	-	-

All values are in µg/l.

Based on NCDH and certified private laboratory results for all samples tested during the period.

Results reported as combinations of two or more constituents are not included if positive since the detected constituent or level could not be assumed.

NASSAU COUNTY DEPARTMENT OF HEALTH
ORGANIC CHEMICAL LEVELS DETECTED BY CONTAMINANT
PUBLIC WATER SUPPLY WELLS
TOTAL (ALL AQUIFERS) - RAW WATER
Annual Testing Results During 1999, 1998 and 1997

CONTAMINANT	1999					1998					1997				
	TESTED	DETECTED	%	DETECTED	MAX LEVEL	TESTED	DETECTED	%	DETECTED	MAX LEVEL	TESTED	DETECTED	%	DETECTED	MAX LEVEL
Benzene	337	0	0%	-	-	342	1	<1%	0.7	-	338	1	<1%	0.8	-
Bromobenzene	337	0	0%	-	-	342	0	0%	-	-	338	0	0%	-	-
Bromochloromethane	337	1	<1%	0.5	-	342	0	0%	-	-	338	0	0%	-	-
Bromodichloromethane	337	7	2%	5.0	-	342	7	2%	3.0	-	338	9	3%	3.0	-
Bromoform	337	10	3%	20.0	-	342	10	3%	7.0	-	338	13	4%	3.0	-
Bromomethane	337	0	0%	-	-	334	7	2%	1.0	-	338	0	0%	-	-
n-Butylbenzene	337	0	0%	-	-	342	2	<1%	1.2	-	338	3	<1%	5.3	-
sec-Butylbenzene	337	0	0%	-	-	342	0	0%	-	-	338	0	0%	-	-
tert-Butylbenzene	337	0	0%	-	-	342	0	0%	-	-	337	0	0%	-	-
Carbon Tetrachloride	337	14	4%	8.7	-	342	9	3%	6.0	-	338	10	3%	7.0	-
Chlorobenzene	337	1	<1%	1.1	-	342	2	<1%	1.3	-	338	1	<1%	1.3	-
Chlorodibromomethane	337	8	2%	14.0	-	342	8	2%	6.0	-	338	14	4%	4.0	-
Chloroethane	337	0	0%	-	-	342	3	<1%	2.0	-	338	0	0%	-	-
Chloroform	337	48	14%	22.0	-	342	37	11%	13.0	-	338	40	12%	9.3	-
Chloromethane	337	0	0%	-	-	342	0	0%	-	-	338	2	<1%	1.7	-
o-Chlorotoluene	337	0	0%	-	-	342	0	0%	-	-	338	0	0%	-	-
p-Chlorotoluene	337	0	0%	-	-	342	0	0%	-	-	338	0	0%	-	-
Dibromomethane	328	0	0%	-	-	307	0	0%	-	-	311	0	0%	-	-
1,2-dichlorobenzene	337	0	0%	-	-	342	0	0%	-	-	338	0	0%	-	-
1,3-dichlorobenzene	337	0	0%	-	-	342	0	0%	-	-	338	0	0%	-	-
1,4-dichlorobenzene	337	0	0%	-	-	342	0	0%	-	-	338	0	0%	-	-
Dichlorodifluoromethane	337	15	4%	22.0	-	342	24	7%	31.0	-	338	28	8%	22.0	-
1,1-dichloroethane	337	46	14%	32.0	-	342	40	12%	7.8	-	338	34	10%	4.7	-
1,2-dichloroethane	337	9	3%	2.0	-	342	9	3%	2.0	-	338	9	3%	2.0	-
1,1-dichloroethylene	337	41	12%	48.0	-	342	46	13%	65.0	-	338	38	11%	46.0	-
cis-1,2-dichloroethylene	337	35	10%	570.0	-	342	36	11%	500.0	-	336	28	8%	930.0	-
trans-1,2-dichloroethylene	296	1	<1%	0.5	-	318	3	<1%	0.9	-	337	3	<1%	1.6	-
1,2-dichloropropane	337	5	1%	5.6	-	342	4	1%	2.0	-	338	6	2%	4.0	-
1,3-dichloropropane	337	0	0%	-	-	342	0	0%	-	-	338	0	0%	-	-
2,2-dichloropropane	337	0	0%	-	-	342	2	<1%	2.0	-	336	5	1%	2.0	-

All values are in µg/L.
Based on NCDH and certified private laboratory results for all samples tested during the period.
Results reported as combinations of two or more constituents are not included if positive since the detected constituent or level could not be assumed.

ORGANIC CHEMICAL LEVELS DETECTED BY CONTAMINANT
PUBLIC WATER SUPPLY WELLS
TOTAL (ALL AQUIFERS) - RAW WATER
Annual Testing Results During 1999, 1998 and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
1,1-dichloropropene	337	2	<1%	480.0	342	1	<1%	490.0	338	1	<1%	0.5
cis-1,3-dichloropropene	337	0	0%	-	342	0	0%	-	338	0	0%	-
trans-1,3-dichloropropene	337	0	0%	-	342	0	0%	-	337	0	0%	-
Ethyl Benzene	337	0	0%	-	342	2	<1%	3.0	338	0	0%	-
Hexachlorobutadiene	337	0	0%	-	342	0	0%	-	338	0	0%	-
Isopropylbenzene	337	0	0%	-	342	0	0%	-	338	0	0%	-
p-isopropyltoluene	337	0	0%	-	342	0	0%	-	338	1	<1%	1.1
Methylene chloride	337	7	2%	1.8	342	5	1%	1.2	338	3	<1%	1.6
N-propylbenzene	337	0	0%	-	342	0	0%	-	338	1	<1%	0.5
Styrene	337	0	0%	-	342	0	0%	-	338	1	<1%	0.5
1,1,1,2-tetrachloroethane	337	0	0%	-	342	1	<1%	0.6	338	0	0%	-
1,1,2,2-tetrachloroethane	337	0	0%	-	342	0	0%	-	338	0	0%	-
Tetrachloroethylene	337	72	21%	660.0	342	74	22%	1100.0	338	65	19%	450.0
Toluene	337	9	3%	3.1	342	6	2%	39.0	338	4	1%	2.0
1,2,3-Trichlorobenzene	337	0	0%	-	342	0	0%	-	338	0	0%	-
1,2,4-Trichlorobenzene	337	0	0%	-	342	1	<1%	0.9	338	0	0%	-
1,1,1-Trichloroethane	337	63	19%	91.0	342	55	16%	69.0	338	45	13%	77.0
1,1,2-Trichloroethane	337	1	<1%	0.7	342	2	<1%	0.8	338	1	<1%	0.6
Trichloroethylene	337	73	22%	620.0	342	70	20%	710.0	338	61	18%	910.0
Trichlorofluoromethane	336	5	1%	2.4	318	5	2%	4.0	337	6	2%	4.1
1,2,3-Trichloropropane	329	0	0%	-	342	0	0%	-	338	2	<1%	3.4
1,2,4-Trimethylbenzene	337	0	0%	-	342	4	1%	2.5	338	3	<1%	14.0
1,3,5-Trimethylbenzene	337	0	0%	-	342	2	<1%	1.3	338	3	<1%	3.5
Vinyl Chloride	337	4	1%	2.0	342	1	<1%	1.1	338	1	<1%	1.4
m-Xylene	241	0	0%	-	265	0	0%	-	243	0	0%	-
o-Xylene	324	0	0%	-	342	2	<1%	4.0	338	1	<1%	1.1
p-Xylene	241	0	0%	-	265	0	0%	-	243	0	0%	-
Methyl-tert-butyl-ether (MTBE)	326	22	7%	23.0	330	19	6%	7.0	0	0	-	-

All values are in µg/l.

Based on NCDH and certified private laboratory results for all samples tested during the period.

Results reported as combinations of two or more constituents are not included if positive since the detected constituent or level could not be assumed.

NASSAU COUNTY DEPARTMENT OF HEALTH

SPECIFIC ORGANIC CHEMICALS (SOC's), INCLUDING PESTICIDES AND HERBICIDES

DETECTED BY CONTAMINANT

PUBLIC SUPPLY WELLS - RAW WATER

GLACIAL AQUIFER

Annual Testing Results During 1999, 1998, and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
- Group 1 Chemicals -												
Alachlor	18	0	0%	-	15	0	0%	-	14	0	0%	-
Aldicarb	14	0	0%	-	14	0	0%	-	12	0	0%	-
Aldicarb sulfone	14	0	0%	-	14	0	0%	-	12	0	0%	-
Aldicarb sulfoxide	14	0	0%	-	14	0	0%	-	12	0	0%	-
Atrazine	18	0	0%	-	15	0	0%	-	14	0	0%	-
Carbofuran	14	0	0%	-	14	0	0%	-	12	0	0%	-
Chlordane	18	1	6%	0.25	15	1	7%	0.36	15	1	7%	0.48
2,4-D	18	0	0%	-	15	0	0%	-	14	0	0%	-
Dibromochloropropane (DBCP)	19	0	0%	-	18	0	0%	-	17	0	0%	-
Endrin	18	0	0%	-	15	0	0%	-	15	0	0%	-
Ethylene dibromide (EDB)	19	0	0%	-	18	0	0%	-	17	0	0%	-
Heptachlor	18	0	0%	-	15	0	0%	-	15	0	0%	-
Heptachlor epoxide	18	1	6%	0.03	15	1	7%	0.05	15	1	7%	0.06
Lindane	18	0	0%	-	15	0	0%	-	15	0	0%	-
Methoxychlor	18	0	0%	-	15	0	0%	-	15	0	0%	-
Pentachlorophenol	18	0	0%	-	15	0	0%	-	14	0	0%	-
Polychlorinated biphenyls (PCB's)	7	0	0%	-	8	0	0%	-	7	0	0%	-
Toxaphene	18	0	0%	-	15	0	0%	-	15	0	0%	-
2,4,5-TP (Silvex)	18	0	0%	-	15	0	0%	-	14	0	0%	-

All values are in ug/l.

Based on NCDH and certified private laboratory results for all samples tested during the period.

NASSAU COUNTY DEPARTMENT OF HEALTH
SPECIFIC ORGANIC CHEMICALS (SOC's), INCLUDING PESTICIDES AND HERBICIDES
DETECTED BY CONTAMINANT
PUBLIC SUPPLY WELLS - RAW WATER
GLACIAL AQUIFER

Annual Testing Results During 1999, 1998, and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
- Group 2 Chemicals -												
Aldrin	18	0	0%	-	15	0	0%	-	15	0	0%	-
Benzo(a)pyrene	18	0	0%	-	15	0	0%	-	14	0	0%	-
Butachlor	18	0	0%	-	15	0	0%	-	14	0	0%	-
Carbaryl	14	0	0%	-	14	0	0%	-	12	0	0%	-
Dalapon	14	0	0%	-	14	0	0%	-	12	0	0%	-
Di(2-ethylhexyl)adipate	14	0	0%	-	14	0	0%	-	12	0	0%	-
Di(2-ethylhexyl)phthalate	14	0	0%	-	8	0	0%	-	8	0	0%	-
Dicamba	18	0	0%	-	15	0	0%	-	14	0	0%	-
Dieldrin	18	2	11%	0.06	15	1	7%	0.08	15	1	7%	0.08
Dinoseb	18	0	0%	-	15	0	0%	-	14	0	0%	-
Diquat	14	0	0%	-	0	0	0%	-	0	0	0%	-
Endothall	14	0	0%	-	0	0	0%	-	0	0	0%	-
Glyphosate	14	0	0%	-	14	0	0%	-	13	0	0%	-
Hexachlorobenzene	18	0	0%	-	15	0	0%	-	14	0	0%	-
Hexachlorocyclopentadiene	18	0	0%	-	15	0	0%	-	14	0	0%	-
3-Hydroxycarbofuran	14	0	0%	-	14	0	0%	-	12	0	0%	-
Methomyl	14	0	0%	-	14	0	0%	-	12	0	0%	-
Metolachlor	14	0	0%	-	14	0	0%	-	14	0	0%	-
Metribuzin	18	0	0%	-	15	0	0%	-	14	0	0%	-
Oxamyl (vydate)	14	0	0%	-	14	0	0%	-	12	0	0%	-
Pichloram	18	0	0%	-	15	0	0%	-	14	0	0%	-
Propachlor	18	0	0%	-	15	0	0%	-	14	0	0%	-
Simazine	18	0	0%	-	15	0	0%	-	14	0	0%	-
2,3,7,8-TCDD (Dioxin)	14	0	0%	-	0	0	0%	-	0	0	0%	-

All values are in ug/l.
Based on NCDH and certified private laboratory results for the all samples tested during the period.

NASSAU COUNTY DEPARTMENT OF HEALTH

SPECIFIC ORGANIC CHEMICALS (SOC's), INCLUDING PESTICIDES AND HERBICIDES
DETECTED BY CONTAMINANT
PUBLIC SUPPLY WELLS - RAW WATER
MAGOTHY AQUIFER

Annual Testing Results During 1999, 1998, and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX	TESTED	DETECTED	%	MAX	TESTED	DETECTED	%	MAX
- Group 1 Chemicals -												
Alachlor	175	0	0%	-	229	0	0%	-	189	0	0%	-
Aldicarb	168	0	0%	-	197	0	0%	-	189	0	0%	-
Aldicarb sulfone	168	0	0%	-	197	0	0%	-	188	0	0%	-
Aldicarb sulfoxide	168	0	0%	-	197	0	0%	-	188	0	0%	-
Atrazine	175	1	<1%	3.40	229	0	0%	-	189	0	0%	-
Carbofuran	168	0	0%	-	197	0	0%	-	188	0	0%	-
Chlordane	175	0	0%	-	230	0	0%	-	191	0	0%	-
2,4-D	175	0	0%	-	230	0	0%	-	192	0	0%	-
Dibromochloropropane (DBCP)	178	2	1%	0.17	234	0	0%	-	199	0	0%	-
Endrin	175	0	0%	-	230	0	0%	-	191	0	0%	-
Ethylene dibromide (EDB)	204	1	<1%	0.47	241	1	<1%	0.47	206	1	<1%	0.24
Heptachlor	175	0	0%	-	230	0	0%	-	191	0	0%	-
Heptachlor epoxide	175	0	0%	-	230	0	0%	-	191	0	0%	-
Lindane	175	0	0%	-	230	0	0%	-	191	0	0%	-
Methoxychlor	175	0	0%	-	230	0	0%	-	191	0	0%	-
Pentachlorophenol	175	0	0%	-	229	0	0%	-	190	0	0%	-
Polychlorinated biphenyls (PCB's)	146	0	0%	-	128	0	0%	-	122	0	0%	-
Toxaphene	175	0	0%	-	230	0	0%	-	191	0	0%	-
2,4,5-TP (Silvex)	175	0	0%	-	230	0	0%	-	191	0	0%	-

All values are in ug/l.

Based on NCDH and certified private laboratory results for all samples tested during the period.

NASSAU COUNTY DEPARTMENT OF HEALTH
SPECIFIC ORGANIC CHEMICALS (SOC's), INCLUDING PESTICIDES AND HERBICIDES
DETECTED BY CONTAMINANT
PUBLIC SUPPLY WELLS - RAW WATER
MAGOTHY AQUIFER

Annual Testing Results During 1999, 1998, and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
- Group 2 Chemicals -												
Aldrin	175	0	0%	-	230	0	0%	-	191	0	0%	-
Benzo(a)pyrene	175	0	0%	-	229	0	0%	-	189	0	0%	-
Butachlor	175	0	0%	-	229	0	0%	-	189	0	0%	-
Carbaryl	168	0	0%	-	197	0	0%	-	188	0	0%	-
Dalapon	168	0	0%	-	197	0	0%	-	187	0	0%	-
Di(2-ethylhexyl)adipate	168	0	0%	-	197	0	0%	-	186	0	0%	-
Di(2-ethylhexyl)phthalate	168	0	0%	-	138	0	0%	-	124	0	0%	-
Dicamba	175	0	0%	-	229	0	0%	-	190	0	0%	-
Dieldrin	175	1	<1%	0.05	230	0	0%	-	191	0	0%	-
Dinoseb	175	0	0%	-	229	0	0%	-	190	0	0%	-
Diquat	165	0	0%	-	0	0	0%	-	0	0	0%	-
Endothall	167	0	0%	-	0	0	0%	-	0	0	0%	-
Glyphosate	168	0	0%	-	197	0	0%	-	186	0	0%	-
Hexachlorobenzene	175	0	0%	-	229	0	0%	-	191	0	0%	-
Hexachlorocyclopentadiene	175	0	0%	-	229	0	0%	-	189	0	0%	-
3-Hydroxycarbofuran	168	0	0%	-	197	0	0%	-	188	0	0%	-
Methomyl	168	0	0%	-	197	0	0%	-	188	0	0%	-
Metolachlor	168	0	0%	-	197	0	0%	-	189	0	0%	-
Metribuzin	175	0	0%	-	229	0	0%	-	189	0	0%	-
Oxamyl (vydate)	168	0	0%	-	197	0	0%	-	188	0	0%	-
Pichloram	175	0	0%	-	229	0	0%	-	190	0	0%	-
Propachlor	175	0	0%	-	229	0	0%	-	189	0	0%	-
Simazine	175	1	<1%	0.60	229	0	0%	-	189	0	0%	-
2,3,7,8-TCDD (Dioxin)	164	1	<1%	1.2E-5	0	0	0%	-	0	0	0%	-

All values are in ug/l.

Based on NCDH and certified private laboratory results for the all samples tested during the period.

NASSAU COUNTY DEPARTMENT OF HEALTH

SPECIFIC ORGANIC CHEMICALS (SOC's), INCLUDING PESTICIDES AND HERBICIDES
DETECTED BY CONTAMINANT
PUBLIC SUPPLY WELLS - RAW WATER
LLOYD AQUIFER

Annual Testing Results During 1999, 1998, and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
- Group 1 Chemicals -												
Alachlor	26	0	0%	-	24	0	0%	-	20	0	0%	-
Aldicarb	24	0	0%	-	22	0	0%	-	20	0	0%	-
Aldicarb sulfone	24	0	0%	-	22	0	0%	-	20	0	0%	-
Aldicarb sulfoxide	24	0	0%	-	22	0	0%	-	20	0	0%	-
Atrazine	26	0	0%	-	24	0	0%	-	20	0	0%	-
Carbofuran	24	0	0%	-	22	0	0%	-	20	0	0%	-
Chlordane	26	0	0%	-	24	0	0%	-	20	0	0%	-
2,4-D	26	0	0%	-	24	0	0%	-	20	0	0%	-
Dibromochloropropane (DBCP)	26	0	0%	-	23	0	0%	-	20	0	0%	-
Endrin	26	0	0%	-	24	0	0%	-	20	0	0%	-
Ethylene dibromide (EDB)	29	0	0%	-	24	0	0%	-	20	0	0%	-
Heptachlor	26	0	0%	-	24	0	0%	-	20	0	0%	-
Heptachlor epoxide	26	0	0%	-	24	0	0%	-	20	0	0%	-
Lindane	26	0	0%	-	24	0	0%	-	20	0	0%	-
Methoxychlor	26	0	0%	-	24	0	0%	-	20	0	0%	-
Pentachlorophenol	26	0	0%	-	24	0	0%	-	20	1	5%	0.07
Polychlorinated biphenyls (PCB's)	18	0	0%	-	11	0	0%	-	8	0	0%	-
Toxaphene	26	0	0%	-	24	0	0%	-	20	0	0%	-
2,4,5-TP (Silvex)	26	0	0%	-	24	0	0%	-	20	0	0%	-

All values are in ug/l.

Based on NCDH and certified private laboratory results for all samples tested during the period.

NASSAU COUNTY DEPARTMENT OF HEALTH
SPECIFIC ORGANIC CHEMICALS (SOC's), INCLUDING PESTICIDES AND HERBICIDES
DETECTED BY CONTAMINANT
PUBLIC SUPPLY WELLS - RAW WATER
LLOYD AQUIFER

Annual Testing Results During 1999, 1998, and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
- Group 2 Chemicals -												
Aldrin	26	0	0%	-	24	0	0%	-	20	0	0%	-
Benzo(a)pyrene	26	0	0%	-	24	0	0%	-	20	0	0%	-
Butachlor	26	0	0%	-	24	0	0%	-	20	0	0%	-
Carbaryl	24	0	0%	-	22	0	0%	-	20	0	0%	-
Dalapon	24	0	0%	-	22	0	0%	-	20	0	0%	-
Di(2-ethylhexyl)adipate	24	0	0%	-	22	0	0%	-	20	0	0%	-
Di(2-ethylhexyl)phthalate	24	0	0%	-	11	0	0%	-	8	0	0%	-
Dicamba	26	0	0%	-	24	0	0%	-	20	0	0%	-
Dieldrin	26	0	0%	-	24	0	0%	-	20	0	0%	-
Dinoseb	26	0	0%	-	24	0	0%	-	20	0	0%	-
Diquat	24	0	0%	-	0	0	0%	-	0	0	0%	-
Endothall	24	0	0%	-	0	0	0%	-	0	0	0%	-
Glyphosate	24	0	0%	-	22	0	0%	-	20	0	0%	-
Hexachlorobenzene	26	0	0%	-	24	0	0%	-	20	0	0%	-
Hexachlorocyclopentadiene	26	0	0%	-	24	0	0%	-	20	0	0%	-
3-Hydroxycarbofuran	24	0	0%	-	22	0	0%	-	20	0	0%	-
Methomyl	24	0	0%	-	22	0	0%	-	20	0	0%	-
Metolachlor	24	0	0%	-	22	0	0%	-	20	0	0%	-
Metribuzin	26	0	0%	-	24	0	0%	-	20	0	0%	-
Oxamyl (vydate)	24	0	0%	-	22	0	0%	-	20	0	0%	-
Pichloram	26	0	0%	-	24	0	0%	-	20	0	0%	-
Propachlor	26	0	0%	-	24	0	0%	-	20	0	0%	-
Simazine	26	0	0%	-	24	0	0%	-	20	0	0%	-
2,3,7,8-TCDD (Dioxin)	24	0	0%	-	0	0	0%	-	0	0	0%	-

All values are in ug/L.
Based on NCDH and certified private laboratory results for the all samples tested during the period.

NASSAU COUNTY DEPARTMENT OF HEALTH

SPECIFIC ORGANIC CHEMICALS (SOC's), INCLUDING PESTICIDES AND HERBICIDES

DETECTED BY CONTAMINANT

PUBLIC SUPPLY WELLS - RAW WATER

TOTAL (ALL AQUIFERS)

Annual Testing Results During 1999, 1998, and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
- Group 1 Chemicals -												
Alachlor	219	0	0%	-	268	0	0%	-	223	0	0%	-
Aldicarb	206	0	0%	-	233	0	0%	-	221	0	0%	-
Aldicarb sulfone	206	0	0%	-	233	0	0%	-	220	0	0%	-
Aldicarb sulfoxide	206	0	0%	-	233	0	0%	-	220	0	0%	-
Atrazine	219	1	<1%	3.40	268	0	0%	-	223	0	0%	-
Carbofuran	206	0	0%	-	233	0	0%	-	220	0	0%	-
Chlordane	219	1	<1%	0.25	269	1	<1%	0.36	226	1	<1%	0.48
2,4-D	219	0	0%	-	269	0	0%	-	226	0	0%	-
Dibromochloropropane (DBCP)	223	2	<1%	0.17	275	0	0%	-	236	0	0%	-
Endrin	219	0	0%	-	269	0	0%	-	226	0	0%	-
Ethylene dibromide (EDB)	252	1	<1%	0.47	283	1	<1%	0.47	243	1	<1%	0.24
Heptachlor	219	0	0%	-	269	0	0%	-	226	0	0%	-
Heptachlor epoxide	219	1	<1%	0.03	269	1	<1%	0.05	226	1	<1%	0.06
Lindane	219	0	0%	-	269	0	0%	-	226	0	0%	-
Methoxychlor	219	0	0%	-	269	0	0%	-	226	0	0%	-
Pentachlorophenol	219	0	0%	-	268	0	0%	-	224	1	<1%	0.07
Polychlorinated biphenyls (PCB's)	171	0	0%	-	147	0	0%	-	137	0	0%	-
Toxaphene	219	0	0%	-	269	0	0%	-	226	0	0%	-
2,4,5-TP (Silvex)	219	0	0%	-	269	0	0%	-	225	0	0%	-

All values are in ug/l.

Based on NCDH and certified private laboratory results for all samples tested during the period.

NASSAU COUNTY DEPARTMENT OF HEALTH

SPECIFIC ORGANIC CHEMICALS (SOC's), INCLUDING PESTICIDES AND HERBICIDES

DETECTED BY CONTAMINANT

PUBLIC SUPPLY WELLS - RAW WATER

TOTAL (ALL AQUIFERS)

Annual Testing Results During 1999, 1998, and 1997

CONTAMINANT	1999				1998				1997			
	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL	TESTED	DETECTED	%	MAX LEVEL
- Group 2 Chemicals -												
Aldrin	219	0	0%	-	269	0	0%	-	226	0	0%	-
Benzo(a)pyrene	219	0	0%	-	268	0	0%	-	223	0	0%	-
Butachlor	219	0	0%	-	268	0	0%	-	223	0	0%	-
Carbaryl	206	0	0%	-	233	0	0%	-	220	0	0%	-
Dalapon	206	0	0%	-	233	0	0%	-	219	0	0%	-
Di(2-ethylhexyl)adipate	206	0	0%	-	233	0	0%	-	218	0	0%	-
Di(2-ethylhexyl)phthalate	206	0	0%	-	157	0	0%	-	140	0	0%	-
Dicamba	219	0	0%	-	268	0	0%	-	224	0	0%	-
Dieldrin	219	3	1%	0.06	269	1	<1%	0.08	226	1	<1%	0.08
Dinoseb	219	0	0%	-	268	0	0%	-	224	0	0%	-
Diquat	203	0	0%	-	0	0	0%	-	0	0	0%	-
Endothall	205	0	0%	-	0	0	0%	-	0	0	0%	-
Glyphosate	206	0	0%	-	233	0	0%	-	219	0	0%	-
Hexachlorobenzene	219	0	0%	-	268	0	0%	-	225	0	0%	-
Hexachlorocyclopentadiene	219	0	0%	-	268	0	0%	-	223	0	0%	-
3-Hydroxycarbofuran	206	0	0%	-	233	0	0%	-	220	0	0%	-
Methomyl	206	0	0%	-	233	0	0%	-	220	0	0%	-
Metolachlor	206	0	0%	-	233	0	0%	-	223	0	0%	-
Metribuzin	219	0	0%	-	268	0	0%	-	223	0	0%	-
Oxamyl (vydate)	206	0	0%	-	233	0	0%	-	220	0	0%	-
Pichloram	219	0	0%	-	268	0	0%	-	224	0	0%	-
Propachlor	219	0	0%	-	268	0	0%	-	223	0	0%	-
Simazine	219	1	<1%	0.60	268	0	0%	-	223	0	0%	-
2,3,7,8-TCDD (Dioxin)	202	1	0%	1.2E-5	0	0	0%	-	0	0	0%	-

All values are in ug/l.

Based on NCDH and certified private laboratory results for the all samples tested during the period.

NASSAU COUNTY DEPARTMENT OF HEALTH

ABANDONED PUBLIC SUPPLY WELLS IN NASSAU COUNTY

1953 - 1999

WATER SYSTEM	NYSDEC WELL NO.	LOCAL WELL NO.	YEAR DRILLED	DEPTH (FT)	YEAR ABANDONED	REASON
Bethpage W.D.	3142	4	1949	163	1958	Pulled Sand
"	3147	5	1949	233	1959	Pulled Sand
"	4063	7	1952	233	1971	Nitrates
"	4146	8	1956	212	1971	Nitrates
East Meadow W.D.	5321	9	1956	509	1995	Iron
Farmingdale Village	706	1-2	1936	70	1967	Nitrates, Iron, Mn
"	1937	2-1	1941	146	1988	Capacity
Freeport Village	131	1	1929	523	1955	Capacity
Garden City Park W.D.	2565	3	1948	405	1995	Organics, Nitrates
Garden City Village	361	1	-	40	1956	Capacity
"	92	5	1926	77	1959	Capacity
"	91	2	1911	82	1965	Capacity
"	94	6	1931	382	1989	Casing, Organics
Glen Cove City	112	1(a)	1950	150	1968	Capacity
"	802-818	2-18(a)	1950	42-169	1968	Capacity
"	3466	20	1950	177	1989	Organics
"	8327	22	1965	168	1989	Organics
W.A. of Great Neck N.	23	3A	1937	434	1962	Capacity
"	5884	10	1957	163	1995	Screen Failure
"	700	21A	1935	70	1996	Screen Failure
"	30	1	1927	203	1997	Chlorides
"	31	4	1930	229	1997	Chlorides
Hempstead Village	78	1	1927	376	1954	Capacity
Hicksville W.D.	150	1-2	1941	144	1953	Capacity
"	149	1-1	1941	127	1967	Capacity
"	2072	1-3	1946	159	1967	Capacity
"	148	2-1	1941	153	1967	Capacity
"	3552	4-1	1951	169	1978	Nitrates
"	3488	3-1	1951	168	1980	Nitrates
"	3553	5-1	1951	152	1980	Organics, Nitrates
Jericho W. D.	4246	10	1954	458	1980	Organics
"	4133	8	1954	455	1980	Taste & Odor
Levittown W.D.	3193	5	1949	320	1960	Pulled Sand
"	3312	8	1950	307	1963	Pulled Sand
"	2581	4	1948	80	1965	Nitrates, Taste & Odor
"	2403	2	1947	84	1966	Nitrates
"	3313	7	1950	95	1966	Nitrates
"	2402	1	1952	208	1976	Nitrates
"	3194	6	1949	256	1986	Nitrates
"	5301	11	1955	377	1994	Nitrates
Lido-Pt Lookout W.D.	46	1	1937	1260	1994	Screen Failure
"	5227	2	1956	1260	1995	Casing
Locust Valley W.D.	115	1	1925	416	1970	Capacity
Long Beach City	42	4	1929	1184	1957	Casing
"	43	5	1929	1263	1965	Casing
"	1927	8	1943	1230	1965	Casing
"	41	3	1937	1255	1968	Casing
"	44	6	1929	1265	1970	Casing
"	3448	7	1950	1230	1972	Casing

NASSAU COUNTY DEPARTMENT OF HEALTH

CHRONOLOGY OF ABANDONED PUBLIC SUPPLY WELLS IN NASSAU COUNTY

1953-1999

YEAR ABANDONED	NYSDEC WELL NO.	WATER SYSTEM	REASON
1953	150	Hicksville W.D.	Capacity
1954	78	Hempstead Village	Capacity
1954	49	Rockville Centre Village	Capacity
1955	131	Freeport Village	Capacity
1955	48	Rockville Centre Village	Capacity
1956	361	Garden City Village	Capacity
1957	42	Long Beach City	Casing
1958	3142	Bethpage W.D.	Pulled Sand
1959	3147	Bethpage W.D.	Pulled Sand
1959	92	Garden City Village	Capacity
1960	3193	Levittown W.D.	Pulled Sand
1962	23	Great Neck N.W A	Capacity
1963	3312	Levittown W.D.	Pulled Sand
1963	105	Old Westbury Village	Capacity
1964	2603	N.Y. Water Service Corp.	Detergents,Manganese
1964	3886	N.Y. Water Service Corp.	Detergents,Manganese
1964	728	N.Y. Water Service Corp.	Detergents,Manganese
1964	1667	Westbury W.D.	Capacity
1964	827	Westbury W.D.	Capacity
1964	828	Westbury W.D.	Capacity
1964	829	Westbury W.D.	Capacity
1965	91	Garden City Village	Capacity
1965	2581	Levittown W.D.	Nitrates,Taste&Odor
1965	1927	Long Beach City	Casing
1965	43	Long Beach City	Casing
1966	2403	Levittown W.D.	Nitrates
1966	3313	Levittown W.D.	Nitrates
1966	729	N.Y. Water Service Corp.	Detergents,Manganese
1967	706	Farmingdale Village	Nitrates, Iron, Manganese
1967	148	Hicksville W.D.	Capacity
1967	149	Hicksville W.D.	Capacity
1967	2072	Hicksville W.D.	Capacity
1967	3782	Long Island Water Corp.	Casing
1967	2577	N.Y. Water Service Corp.	Detergents,Manganese
1967	3186	N.Y. Water Service Corp.	Detergents,Manganese
1967	3187	N.Y. Water Service Corp.	Detergents,Manganese
1967	3437	N.Y. Water Service Corp.	Detergents,Manganese
1967	580	N.Y. Water Service Corp.	Detergents,Manganese
1967	634	N.Y. Water Service Corp.	Detergents,Manganese
1967	2236	Westbury W.D.	Pulled Sand
1968	41	Long Beach City	Casing
1968	10	Western Nassau W.A.	Screen Failure
1968 (a)	112	Glen Cove City	Capacity
1968 (a)	802-818	Glen Cove City	Capacity
1970	115	Locust Valley W.D.	Capacity
1970	44	Long Beach City	Casing
1971	4063	Bethpage W.D.	Nitrates
1971	4146	Bethpage W.D.	Nitrates
1971	5848	N.Y. Water Service Corp.	Iron
1972	3448	Long Beach City	Casing
1972	3564	N.Y. Water Service Corp.	Nitrates,Detergents,Manganese

SOURCE: NCDH records.

(a) Common suction system - treated as one well.

NASSAU COUNTY DEPARTMENT OF HEALTH
CHRONOLOGY OF ABANDONED PUBLIC SUPPLY WELLS IN NASSAU COUNTY
1953-1999
(Continued)

YEAR ABANDONED	NYSDEC WELL NO.	WATER SYSTEM	REASON
1975	52	Rockville Centre Village	Casing
1976	2402	Levittown W.D.	Nitrates
1977	4603	Massapequa W.D.	Capacity,Sand,Iron
1977	11	Western Nassau W.A.	Screen Failure
1978	3552	Hicksville W.D.	Nitrates
1978	3780	N.Y. Water Service Corp.	Nitrates,Manganese
1979	3327	Long Island Water Corp.	Capacity
1979	8672	N.Y. Water Service Corp.	Capacity
1980	3488	Hicksville W.D.	Nitrates
1980	3553	Hicksville W.D.	Organics, Nitrates
1980	4133	Jericho W. D.	Taste & Odor
1980	4246	Jericho W. D.	Organics
1980	5486	Roosevelt Field W.D.	Organics
1981	98	Mineola W.D.	Capacity
1982	24	Manhasset-Lakeville W.D.	Capacity
1982	5259	N.Y. Water Service Corp.	Capacity
1982	4042	South Farmingdale W.D.	Screen Collapse
1983	3427	N.Y. Water Service Corp.	Capacity
1983	3463	N.Y. Water Service Corp.	Capacity
1983	3680	N.Y. Water Service Corp.	Capacity
1983	3894	N.Y. Water Service Corp.	Capacity
1983	4461	N.Y. Water Service Corp.	Capacity
1985	3781	Long Island Water Corp.	Casing
1985	12	Western Nassau W.A.	Capacity
1985	13	Western Nassau W.A.	Capacity
1986	3194	Levittown W.D.	Nitrates
1986	15	Western Nassau W.A.	Organics
1988	1937	Farmingdale Village	Capacity
1989	94	Garden City Village	Casing, Organics
1989	3466	Glen Cove City	Organics
1989	8327	Glen Cove City	Organics
1990	2115	Western Nassau W.A.	Organics
1990	2413	Western Nassau W.A.	Mechanical
1991	5484	Roosevelt Field W.D.	Organics
1991	5485	Roosevelt Field W.D.	Organics, Nitrates
1992	6046	Roosevelt Field W.D.	Nitrates
1993	107	Old Westbury Village	Capacity
1994	5301	Levittown W.D.	Nitrates
1994	46	Lido-Pt Lookout W.D.	Screen Failure
1994	6076	Plainview W.D.	Organics
1995	5321	East Meadow W.D.	Iron
1995	2565	Garden City Park W.D.	Organics, Nitrates
1995	5884	Great Neck N.W A	Screen Failure
1995	5227	Lido-Pt Lookout W.D.	Casing
1996	700	Great Neck N.W A	Screen Failure
1997	30	Great Neck N.W A	Chlorides
1997	31	Great Neck N.W A	Chlorides
1997	103	Williston Pk. Village	Screen Failure

SOURCE: NCDH records.

(a) Common suction system - treated as one well.

NASSAU COUNTY DEPARTMENT OF HEALTH

**PUBLIC SUPPLY WELLS IN NASSAU COUNTY
RESTRICTED DUE TO INORGANIC CHEMICALS**

1999

WATER SYSTEM	NYSDEC WELL NO.(a)	WATER SYSTEM NO.	DEPTH (ft)	DATE RESTRICTED	CHEMICAL	STATUS
Albertson W.D.	None					
Bayville Village	N-7643	1-2	218	1967	Nitrate	Not Used
Beaver Dam Sports Club	None					
Bethpage W.D.	N-6078	9	275	1971	Nitrate	Not Used
Carle Place W.D.	N-2747	1	328	1969	Nitrate	Not Used
Deforest Dr. Assoc W.S.	None					
Farmingdale Village	None					
Franklin Square W.D.	None					
Freeport Village	None					
Garden City Park W.D.	N-8409	9	400	1969	Nitrate	Not Used
	N-651	2	340	1970	Nitrate	Not Used
	N-3673	5	429	1970	Nitrate	Not Used
	N-650	1	346	08/22/77	Nitrate	Not Used
Garden City Village	None					
Glen Cove, City of	None					
Great Neck No.W.A. of	N-30	1	203	1970	Chloride	Not Used
Hempstead Village	None					
Hicksville W.D.	N-6191	7-2	550	1973	Nitrate	Not Used
	N-3953	6-1	419	07/06/79	Nitrate	Not Used
	N-6193	8-2	467	09/12/83	Nitrate	Not Used
	N-8525	3-2	503	04/16/90	Nitrate	Not Used
	N-8249	1-5	490	11/20/90	Nitrate	Not Used
	N-6190	7-1	600	1997	Nitrate	Not Used
Jericho W.D.	None					
Jones Beach State Park	None					
Lido-Pt. Lookout W.D.	None					
Locust Valley W.D.	None					
Long Beach, City of	None					
Long Island Water Corp.	None					
Manhasset-Lake W.D.	None					
Massapequa W.D.	None					

(a) Wells which cannot be used without treatment or blending to meet MCL

**PUBLIC SUPPLY WELLS IN NASSAU COUNTY
RESTRICTED DUE TO INORGANIC CHEMICALS**

1999

WATER SYSTEM	NYSDEC WELL NO.(a)	WATER SYSTEM NO.	DEPTH (ft)	DATE RESTRICTED	CHEMICAL	STATUS
Mill Neck Estates W.S.	None					
Mineola Village	N-578	3	407	03/28/77	Nitrate	Not Used
N.Y. Water Service Corp.	N-3893	2S	151	1966	Nitrate	Not Used
Old Westbury Village	None					
Oyster Bay W.D.	None					
Plainview W.D.	N-4097	3-1	463	08/21/85	Nitrate	Not Used
Port Washington W.D.	None					
Rockville Centre Village	None					
Roslyn W.D.	None					
Sagamore Hill N.H.S.	None					
Sands Point Village	None					
Sea Cliff Water Co.	None					
Seawanhaka Yacht Club	None					
So. Farmingdale W.D.	None					
Split Rock W.S.	None					
Swan Cove W.S.	None					
Tobay Beach	None					
<u>Town of Hempstead W.S.</u>						
Bowling Green W.D.	None					
East Meadow W.D.	N-3457	2	320	06/02/83	Nitrate	Not Used
	N-4447	4	330	09/20/78	Nitrate	Not Used
Levittown W.D.	N-2580	3	357	08/25/81	Nitrate	Not Used
	N-4451	10	403	1997	Nitrate	Not Used
Roosevelt Field W.D.	None					
Uniondale W.D.	None					
Western Nassau, W.A. of	N-693	15D	93	05/01/90	Nitrate	Not Used
Westbury W.D.	None					
West Hempstead W.D.	None					
Williston Park Vill	N-2487	3	338	1967	Nitrate	Not Used

(a) Wells which cannot be used without treatment or blending to meet MCL

NASSAU COUNTY DEPARTMENT OF HEALTH

**PUBLIC SUPPLY WELLS IN NASSAU COUNTY
AFFECTED BY VOLATILE ORGANIC CHEMICALS**

1999

WATER SYSTEM	WELLS OUT OF SERVICE		WELLS AVAILABLE FOR USE		
	NOT USED, EXCEEDS MCL	VOLUNTARILY NOT USED, COULD EXCEED MCL	EXCEEDS MCL	MEETS MCL	
			TREATED	TREATED	NOT TREATED
Albertson W.D.	NONE	NONE	N-3732, N-4327	N-3733, N-5947, N-8558	
Bayville Village	N-7643	NONE			
Beaver Dam Sports Club	NONE				
Bethpage W.D.	NONE	NONE	N-8004, N-3876	N-6915, N-6916, N-8941	
Carle Place W.D.	N-2747	NONE			N-2748, N-4206
Deforest Dr. Assoc. W.S.	NONE	NONE			
Farmingdale Village	NONE	NONE			N-6644
Franklin Square W.D.	NONE	NONE	N-7117, N-8818		
Freeport Village	NONE	NONE			
Garden City Park W.D.	N-3672, N-3673 N-8409	N-650, N-651	N-5603	N-6945, N-7512, N-9768	
Garden City Village	NONE	N-3881	N-3934, N-3935, N-5163, N-7058, N-8339		
Glen Cove, City of	N-3892, N-8326	N-5261		N-9334	N-9211, N-5762
Great Neck No. W.A. of	NONE	NONE	N-12796, N-3443, N-4388		N-8342, N-12735, N-1298
Hempstead Village	NONE	NONE	N-4425, N-83		N-80, N-81, N-82, N-7298
Hicksville W.D.	NONE	N-3953	N-7562, N-9488, N-6192, N-9180, N-8526, N-7561, N-9212		N-10208
Jericho W.D.	NONE	N-6651, N-7030			N-570, N-4245, N-11107
Jones Beach State Park	NONE				
Lido-Pt. Lookout W.D.	NONE	NONE			
Locust Valley W.D.	NONE	NONE			N-1651
Long Beach, City of	NONE	NONE			
Long Island Water Corp.	NONE	N-3832	N-1346		
Manhasset-Lake W.D.	NONE	N-7126, N-7892	N-2028, N-5528, N-3903, N-4243, N-5710, N-7651, N-1802, N-3523	N-1618	N-10557, N-10889
Massapequa W.D.	NONE	NONE			
Mill Neck Estates W.S.	NONE	NONE			
Mineola Village	NONE	NONE	N-3185		N-97, N-5596, N-8576
N.Y. Water Service Corp.	NONE	NONE			
Old Westbury Village.	NONE	NONE			

Shading indicates treatment by Granular Activated Carbon (GAC) filters.

Non-shaded indicates treatment by Packed Tower Aeration (Air Stripping) devices.

MCL - Maximum Contaminant Level

NASSAU COUNTY DEPARTMENT OF HEALTH

**PUBLIC SUPPLY WELLS IN NASSAU COUNTY
AFFECTED BY VOLATILE ORGANIC CHEMICALS**

1999

WATER SYSTEM	WELLS OUT OF SERVICE		WELLS AVAILABLE FOR USE		
	NOT USED, EXCEEDS MCL	VOLUNTARILY NOT USED, COULD EXCEED MCL	EXCEEDS MCL	MEETS MCL	
			TREATED	TREATED	NOT TREATED
Oyster Bay W.D.	NONE	NONE			N-585
Plainview W.D.	NONE	NONE		N-4097 N-6077,N-6956,N-7421	N-7526,N-6580,N-8054
Port Washington W.D.	NONE	NONE	N-2052,N-6087 N-7551,N-7552	N-4860,N-9809	N-2030,N-5876
Rockville Centre Village	NONE	NONE			
Roslyn W.D.	NONE	NONE		N-8010	N-1870,N-2400,N-4623
Sagamore Hill N.H.S.	NONE	N-590			
Sands Point Village	NONE	NONE			N-36,N-4389
Sea Cliff Water Co.	NONE	NONE			N-5792
Seawanhaka Yacht Club	NONE				
So. Farmingdale W.D.	NONE	NONE			
Split Rock W.S.	NONE	NONE			
Swan Cove W.S.	NONE	NONE			
Tobay Beach	NONE				
<u>Town of Hempstead</u> <u>Contiguous Systems</u>					
Bowling Green	NONE	NONE	N-8956,N-8957*		
East Meadow	NONE	NONE			N-3456,N-3465
Levittown	NONE	N-4451			N-8321,N-7076,N-12560, N-5303,N-4450
Roosevelt Field	NONE	NONE	N-7957		N-9846
Uniondale	NONE	NONE	N-8474,N-8475		
Western Nassau, W.A. of	NONE	NONE	N-7649,N-7650, N-17,N-4298,N-5156	N-4077,N-7445,N-5155, N-6744,N-6745	N-11037,N-1958,N-10206 N-10207
West Hempstead W.D.	NONE	N-75,N-76,N-2239, N-3704,N-4118			
Westbury W.D.	NONE			N-101,N-7785	N-5654
Williston Park Village	NONE	N-104	N-8248		

Shading indicates treatment by Granular Activated Carbon (GAC) filters.

Non-shaded indicates treatment by Packed Tower Aeration (Air Stripping) devices.

MCL - Maximum Contaminant Level

* Bowling Green wells 1 and 2 are treated by both GAC and Air Stripping units.

NASSAU COUNTY DEPARTMENT OF HEALTH

PROGRAMS AND ACTIONS TAKEN TO CONTROL SOURCES OF GROUND WATER CONTAMINATION IN NASSAU COUNTY(a)

Sources of ground water contamination have been identified and abated for many years. Programs and corrective actions taken in Nassau County include:

- . Installation of sanitary sewers
- . Ban on phosphate in detergent products
- . Ban on use of cesspool cleaners containing volatile organic chemicals
- . Inspection, testing and replacement of underground petroleum and gasoline storage tanks
- . Regulation of industrial wastewater discharges
- . Elimination of open storage of road salt compounds
- . Regulation of toxic and hazardous material storage and handling
- . Regulation of population density and exclusion of industrial wastewater discharges in Special Ground Water Protection Areas
- . Elimination of the discharge of hazardous materials to on-site disposal systems at dry cleaning establishments, automotive repair stations and other industrial facilities

(a) Programs undertaken by local and State agencies, including NCDH, to control pollution sources

NASSAU COUNTY DEPARTMENT OF HEALTH

PUBLIC WATER SUPPLY REGULATION AND GROUND WATER PROTECTION PROGRAMS AND ACTIVITIES

WATER SUPPLY REGULATION ACTIVITIES

1. Enforce Federal and New York State Water Quality Standards

Monitoring requirements based on federal and New York State water quality standards are developed and enforced. The frequency and results of testing are reviewed to determine monitoring and maximum contaminant level (MCL) violations. Consumer and public notifications are made when required and corrective action to eliminate violations is undertaken.

2. Perform Routine Comprehensive Water Testing to Augment Monitoring of Quality by Public Water Systems

Routine monitoring of approximately 400 public supply wells and the tap water from 54 public water systems is performed by the Department for organic and inorganic chemicals and bacteriological quality. This monitoring is in addition to the required water quality monitoring performed by each public water system in Nassau County.

3. Regulate Production, Treatment, Storage and Distribution of Water

Public Water Systems are required to obtain the approval of the Department of Health prior to the construction of any new or modified water supply facilities including wells, storage tanks, water mains and water treatment facilities. Engineering plans and specifications must also be submitted for the approval of any new devices to prevent the backflow of contaminants into the drinking water system. During 1999, plans were approved for 73 new or modified water supply facilities and 805 new backflow prevention device installations.

Regular inspections are performed by the Department of Health to assure that water supply facilities are operated and maintained in accordance with State and local health department requirements. All 54 public water systems in the County were inspected during 1999 to insure that a safe and adequate water supply is provided to consumers.

NASSAU COUNTY DEPARTMENT OF HEALTH

**PUBLIC WATER SUPPLY REGULATION AND GROUND WATER
PROTECTION PROGRAMS AND ACTIVITIES**

WATER SUPPLY REGULATION ACTIVITIES (Cont'd)

4. Train and Approve Qualifications of Water Treatment Plant Operators

All water treatment plants and distribution systems must be under the responsible charge of a certified water plant operator and assistant operator. Candidates for operator and assistant operator grades must meet specified requirements of experience and education, including the successful completion of appropriate level water treatment operator courses. The Department accordingly reviews the qualifications of all water plant operator candidates by conducting field evaluations and tests and provides periodic water treatment plant courses and seminars to train operators. Currently, over 400 certified water plant operators have been evaluated and certified by the Department and are at work in the public water systems in Nassau County.

5. Participate In Comprehensive Studies of Aquifers to Identify Contaminant Levels and Trends as a Basis for Corrective Action

Preliminary studies of areas of known ground water contamination by organic chemicals are undertaken to identify the level, extent and movement of the contaminants as a basis for consideration of remedial action.

6. Respond to Water Supply Emergencies and Order Immediate Measures to Protect Public Health

The Department investigates complaints of substandard water quality and utilizes its laboratory to determine instances of drinking water contamination. Where necessary, the Department may order the chlorination of a water system on an emergency basis, the closure of contaminated wells or may require other actions by water systems to prevent or eliminate drinking water contamination. Water systems are required to report emergency conditions to the Department and to prepare written plans to provide safe drinking water to all consumers during an emergency.

NASSAU COUNTY DEPARTMENT OF HEALTH

**PUBLIC WATER SUPPLY REGULATION AND GROUND WATER
PROTECTION PROGRAMS AND ACTIVITIES**

AQUIFER PROTECTION ACTIVITIES

**1. Control Generation and Disposal of Hazardous Wastes Through State and
County Law**

Generators of industrial hazardous wastes are regulated by having these wastes removed by permitted industrial scavengers. About 900 facilities, each generating more than 100 kilograms (200 pounds) are under permit.

2. Regulate Storage, Handling and Disposal of Hazardous and Toxic Substances

The storage of hazardous materials is regulated by the Nassau County Public Health Ordinance Article XI, which controls the storage of chemicals, petroleum products and regulated medical wastes. This ordinance requires the regulation and monitoring of storage facilities, including tanks and smaller containers. Gasoline storage tanks are similarly regulated by the Office of the Fire Marshall.

3. Promote Municipal Sewering and Insure Connection to Sewers Where Available

Municipal sewers protect ground water from contamination. Over 90 percent of Nassau County's population is served by municipal sewer systems. In 1999, there were approximately 20,000 homes and other buildings in sewerred areas which remained to be connected to the existing sewer systems.

**4. Regulate Population Density in Special Ground Water Protection Areas to
Reduce Nitrate Contamination**

Development within approximately 51 square miles in Special Ground Water Protection Areas (SGPA) is limited to a density of not greater than one home per 40,000 square feet or equivalent for commercial development by Nassau County Public Health Ordinance Article X. The discharge of industrial wastewater is prohibited in these areas, which are located in the northern half of the County.

NASSAU COUNTY DEPARTMENT OF HEALTH
PUBLIC WATER SUPPLY REGULATION AND GROUND WATER
PROTECTION PROGRAMS AND ACTIVITIES

AQUIFER PROTECTION ACTIVITIES (Cont'd)

5. Respond to Spills of Toxic Chemicals, Including Petroleum Products, to Insure Containment and Clean - up of Ground Water Contamination

Department staff respond to spills of chemicals or abandoned containers of chemicals, including petroleum products, to assess and determine the public health significance. Technical guidance is provided to Fire and Police Departments as well as other emergency services. The Department also prepares documents to support legal action against polluters.

6. Identify and Assess Threats to Ground Water Quality From Inactive Hazardous Waste Sites and Provide Technical Guidance to Federal and State Superfund Investigations

The Department has collected and analyzed thousands of samples of potentially contaminated soil and water to evaluate the impact on the environment. Staff engineers and sanitarians work with Federal and State agencies in preparing reports of investigations. Sites that are identified as containing hazardous wastes are referred to the New York State Department of Health for environmental and health assessment and the Department of Environmental Conservation for Superfund listing and remediation.

7. Participate in the U.S.E.P.A.'s Underground Injection Control (UIC) Program in Nassau County

The Program is administered by the USEPA for the purpose of locating, abating and remediating sources of ground water contamination resulting from the use of interior floor drains and dry wells in automotive repair facilities, dry cleaning establishments and other commercial establishments.