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Groundwater Inventory Map ("GIM")

**GROUND-WATER BASIC DATA REPORT  
ORANGE COUNTY WATER AUTHORITY  
ORANGE COUNTY, NEW YORK**

**EXECUTIVE SUMMARY**

The Ground-Water Basic Data Report consists of a compilation of regional town-wide ground studies completed by the respective Community Consultants. The significant tasks were to gather existing ground-water information, inventory existing and proposed ground-water supplies, and inventory existing and potential ground-water contamination sites. The respective studies and maps will be utilized by LBG to complete the Orange County Ground-Water Study in 1994.

The data provided by the Community Consultants indicate a majority of the municipalities expect to have adequate water supply up to the projected year of 2020. However, a majority of the water supplies will rely on the development of proposed water supplies inventoried by the Community Consultants, not presently in service, or development of other alternative water supplies in the future. In addition, proposed water supplies within a municipality may not be feasible to connect to existing water supplies, therefore, new water-supply systems or districts will have to be developed to meet the future demands.

The data indicate that water-supply deficiencies for the Village of Goshen of about 0.15 mgd (million gallons per day), and for the Village of Unionville of about 0.04 mgd, presently exist. The Town of Monroe presently obtains water from the Village of Monroe because of water-supply deficiencies in certain water districts. The Village of Kiryas Joel, Village of Montgomery and Town of Wawayanda are projected to have water deficiencies of about 0.121 mgd, 0.003 mgd, and 0.004 mgd, respectively, by the year 2010, if additional supplies are not developed. The Town of Walkill is projected to have a deficiency of about 0.47 mgd by the year 2020.

Minimal to no data are available to project water demands for the Towns of Deerpark, Greenville, Highland, Minisink, Mount Hope, Hamptonburgh and Crawford. Present development in these towns is presently and is projected in the future to be low density. Present and future water supplies will likely be developed from individual domestic wells and small community water-supply systems.

A compilation of the Projected Water Demand tables from the respective reports is as follows:

**PROJECTED WATER DEMAND**

<b>Municipality</b>	<b>Current Maximum Yield Capacity (mgd)</b>	<b>Current and Proposed* Maximum Yield Capacity (mgd)</b>	<b>1993 Projected Water Demand ----- Water-Supply Adequacy**</b>	<b>2000 Projected Water Demand ----- Water-Supply Adequacy**</b>	<b>2010 Projected Water Demand ----- Water-Supply Adequacy***</b>	<b>2020 Projected Water Demand ----- Water-Supply Adequacy***</b>
Town of Blooming Grove	0.712	1.312	0.295 ----- + 0.147**	0.350 ----- + 0.362**	0.436 ----- + 0.876***	0.626 ----- + 0.686***

Municipality	Current Maximum Yield Capacity (mgd)	Current and Proposed* Maximum Yield Capacity (mgd)	1993 Projected Water Demand ----- Water-Supply Adequacy**	2000 Projected Water Demand ----- Water-Supply Adequacy**	2010 Projected Water Demand ----- Water-Supply Adequacy***	2020 Projected Water Demand ----- Water-Supply Adequacy***
Town of Chester	1.132	1.753	0.443 ----- + 0.689**	0.615 ----- + 1.138***	0.779 ----- + 0.974***	1.004 ----- + 0.749***
Town of Cornwall	0.602	0.602	0.374 ----- + 0.228**	0.393 ----- + 0.228**	0.395 ----- + 0.228**	0.395 ----- + 0.228**
Town of Crawford	0.35	0.35	0.15 ----- + 0.200**	0.179 ----- + 0.171**	0.255 ----- + 0.095**	0.368 ----- -0.018**
Town of Deerpark	NA	NA	NA	NA	NA	NA
Town of Goshen	1.243	3.243	0.765 ----- + 0.48**	1.233 ----- + 2.478***	1.328 ----- + 1.915***	1.467 ----- + 1.770***
Town of Greenville	NA	NA	NA	NA	NA	NA
Town of Hamptonburgh	0.10	0.10	0.095 ----- + 0.005**	0.095 ----- + 0.005**	0.095 ----- + 0.005**	0.095 ----- + 0.005**
Town of Highlands	NA	NA	1.09 ----- NA	1.09 ----- NA	1.17 ----- NA	1.26 ----- NA
Town of Minisink	NA	NA	NA	NA	NA	NA
Town of Montgomery	0.017	0.017	0.011 ----- + 0.006**	0.012 ----- + 0.005**	0.013 ----- + 0.004**	0.014 ----- + 0.003**
Town of Mount Hope	0.235	0.235	0.098 ----- + 0.047**	0.098 ----- + 0.047**	0.098 ----- + 0.047**	0.098 ----- + 0.047**
Town of New Windsor	4.17	5.17	2.55 ----- + 1.62**	3.69 ----- + 1.48***	4.42 ----- 0.744***	5.176 ----- 0***
Town of Newburgh	5.6	10.6	2.39 ----- + 3.21**	2.83 ----- + 7.77***	3.17 ----- + 7.43***	3.50 ----- + 7.10***
Town of Tuxedo	NA	NA	NA	NA	NA	NA
Town of Wallkill	4.08	5.50	2.50 ----- + 1.58**	3.59 ----- + 1.91***	4.67 ----- + 0.83***	5.97 ----- -0.47***

<b>Municipality</b>	<b>Current Maximum Yield Capacity (mgd)</b>	<b>Current and Proposed* Maximum Yield Capacity (mgd)</b>	<b>1993 Projected Water Demand ----- Water-Supply Adequacy**</b>	<b>2000 Projected Water Demand ----- Water-Supply Adequacy**</b>	<b>2010 Projected Water Demand ----- Water-Supply Adequacy***</b>	<b>2020 Projected Water Demand ----- Water-Supply Adequacy***</b>
Town of Warwick	1.149	1.192	0.398 ----- + 0.751**	0.518 ----- + 0.674**	0.619 ----- + 0.573**	0.689 ----- + 0.446**
Town of Wawayanda	0.121	0.425	0.072 ----- + 0.049**	0.16 ----- + 0.265***	0.429 ----- -0.004***	0.431 ----- -0.006***
Town of Woodbury	1.3	2.3	0.97 ----- + 0.33**	1.15 ----- + 1.15***	1.35 ----- + 0.95***	1.6 ----- + 0.70***
Village of Chester	1.58	1.58	0.675 ----- + 0.905**	0.733 ----- + 0.847**	0.838 ----- + 0.742**	0.908 ----- + 0.672**
Village of Cornwall-on-Hudson	2.3	2.3	1.2 ----- + 1.1**	1.2 ----- + 1.1**	1.326 ----- + 1.0**	1.647 ----- + 0.7**
Village of Florida	0.500	0.500	0.285 ----- + 0.215**	0.308 ----- + 0.192**	0.308 ----- + 0.192**	0.308 ----- + 0.192**
Village of Goshen	1.05	1.30	1.2 ----- -0.15**	1.525 ----- -0.225***	1.577 ----- -0.277	1.641 ----- -0.341***
Village of Greenwood Lake	0.792	1.51	0.332 ----- + 0.460**	0.539 ----- + 1.11***	0.474 ----- + 1.04***	0.474 ----- + 1.04***
Village of Harriman	0.580	1.48	0.403 ----- + 0.177**	0.600 ----- + 0.880***	0.650 ----- + 0.830***	0.700 ----- + 0.780***
Village of Highland Falls	0.53	0.53	0.42 ----- + 0.11**	0.42 ----- + 0.11***	0.44 ----- + 0.09***	0.45 ----- + 0.08***
Village of Kiryas Joel	0.879	1.379	0.850 ----- + 0.029**	1.300 ----- + 0.079***	1.500 ----- -0.121***	1.800 ----- -0.421
Village of Maybrook	1.522	0.522	0.34 ----- 0.182 **	0.357 ----- 0.165**	0.382 ----- 0.140**	0.445 ----- 0.077**
Village and Town of Monroe	1.529	3.139	0.987 ----- + 0.542**	1.145 ----- + 0.994***	1.334 ----- + 0.805***	1.603 ----- + 0.537***
Village of Montgomery	0.482	0.482	0.314 ----- + 0.168**	0.409 ----- + 0.073**	0.485 ----- -0.003**	0.570 ----- -0.088**
Village of Otisville	NA	NA	NA	NA	NA	NA

Municipality	Current Maximum Yield Capacity (mgd)	Current and Proposed* Maximum Yield Capacity (mgd)	1993 Projected Water Demand ----- Water-Supply Adequacy**	2000 Projected Water Demand ----- Water-Supply Adequacy**	2010 Projected Water Demand ----- Water-Supply Adequacy***	2020 Projected Water Demand ----- Water-Supply Adequacy***
Village of Tuxedo Park	0.65	0.65	0.368 ----- 0.282**	0.405 ----- 0.245**	0.442 ----- 0.208**	0.442 ----- 0.208**
Village of Unionville	0.06	0.06	0.10 ----- -0.04**	0.10 ----- -0.04**	0.10 ----- -0.04**	0.10 ----- -0.04**
Village of Walden	0.916	0.916	0.662 ----- + 0.254**	0.747 ----- + 0.169**	0.823 ----- + 0.093**	0.911 ----- + 0.005**
Village of Warwick	0.864	0.864	0.436 ----- + 0.428**	0.484 ----- + 0.038	0.493 ----- + 0.371	0.493 ----- + 0.371
Village of Washingtonville	1.000	1.000	0.325 ----- + 0.675**	0.404 ----- + 0.596**	0.450 ----- + 0.550**	0.500 ----- + 0.500**
City of Middletown	6.00	10.00	4.20 ----- + 1.80**	5.12 ----- + 4.88***	5.48 ----- + 4.52***	5.84 ----- + 4.16***
City of Newburgh	9.6	9.6	2.29 ----- + 5.82**	NA ----- NA	NA ----- NA	NA ----- NA
City of Port Jervis	3.0	3.0	1.5 ----- + 1.5**	1.5 ----- + 1.5**	1.5 ----- + 1.5**	1.5 ----- + 1.5**

- \* Combined yield capacity of both current and proposed water supply(s).
- \*\* Calculated by current maximum yield capacity minus projected water demands.
- \*\*\* Calculated by current and proposed maximum yield capacity minus projected water demands.
- + Surplus water supply, mgd.
- Water supply deficiency, mgd.
- NA Data not available.

### INTRODUCTION

The Ground-Water Basic Data Report consists of a compilation of town-wide ground-water studies prepared by 11 Community Consultants. The Community Consultants were chosen, because they were familiar with the existing ground-water condition in the Towns of the County. The format specifications for the studies were prepared by Leggette, Brashears & Graham, Inc. (LBG), and the studies were reviewed by LBG and OCWA's staff to assure uniform content and quality of these reports. The emphasis of the investigations was to:

- ! Review available geologic, hydrogeologic and

water-quality data, and pertinent reports.

- ! Inventory existing and proposed municipal and community water supplies in the community.
- ! Determine the adequacy of the existing and proposed water supplies and their ability to meet present and future demands.
- ! Review zoning and land use.
- ! Review existing and potential ground-water contamination problems within the community which may affect existing and proposed water systems.

Table 1 lists the respective community and the engineering or ground-water consulting firm that completed the respective studies. The regional town-wide ground-water studies are presented in Appendix A in alphabetical order by town.

The town-wide regional ground-water studies included the respective city and village(s) within the town boundaries. Municipal and private systems with well yields or water demands equal to or greater than 50,000 gallons per day were inventoried for the studies. Also, inventoried were existing surface-water supplies presently utilized, however, only brief evaluations of the existing surface-water supply were conducted as part of the ground-water studies.

Ground-water supplies within Orange County have been developed from both sand and gravel aquifers and bedrock aquifers. The areal extent of sand and gravel aquifers are limited where the bedrock aquifers extend throughout the Orange County region. The regional ground-water studies indicate that the sand and gravel aquifers in the County are most prolific, with well yields commonly ranging between 200 to 300 gpm (gallons per minute) and as high as 800 gpm. Data indicate bedrock aquifers commonly yield between 30 to 75 gpm and as high as 300 gpm. The studies indicate the general water quantity of both sand and gravel and bedrock aquifers are of good quality. Some wells require treatment for high iron and manganese which exceed maximum permissible limits. Some wells completed in sedimentary bedrock aquifers produce hydrogen sulfide (rotten egg odor).

Land use may have an impact on the water quality of ground water. Therefore, land use information has been compiled and presented to help local leaders and OCWA to site new wells in areas away from potential contamination sources and to protect existing wells through wellhead protection measures.

The land-use maps for the respective towns were prepared by Space Track, Inc. (Space Track) of New York, New York. The land-use maps were prepared utilizing NYSDOT base maps and the land-use information for each tax parcel from the New York State Equalization and Assessment database. The New York State Equalization and Assessment database contains information about each land parcel in the state. One piece of that information is a land use code for each parcel. Land use codes are assigned to each parcel by the local tax assessor. There is a list of 263 land use codes from which the assessor can choose. For the purposes of the Orange County Ground-Water Study, the land use codes were grouped into five basic

land use categories:

- ! vacant and agricultural
- ! residential
- ! commercial
- ! industrial
- ! public

The land uses were further differentiated into:

- ! potential ground-water contamination sources
- ! open space
- ! public water system facilities

Table 2 indicates the land-use codes included within the respective land-use categories. In addition, potential contamination sources were inventoried on the land-use maps utilizing land-use categories. The land-use categories and parcels identified by Space Track as potential ground-water contaminated sources are presented in Appendix B.

The maps prepared by the Community Consultants were prepared on digitized Orange County DOT Base Maps, created in Intergraph/AutoCAD files. Town base maps were prepared by Space Track and produced at 1:24,000 scale. The maps include gravel aquifer(s) not previously mapped by LBG or included on existing published maps; existing wells; and existing and potential ground-water contamination sites. The Ground-Water Summary Report presents more detailed maps which show information from this Basic Data Report and information from recent hydrogeologic evaluation of the County.

An inventory of ground-water contamination problems town-wide was provided by Lawler, Matusky and Skelly Engineers (LMS), and gathered from a Freedom of Information (FOIL) request from the New York State Department of Environmental Conservation (NYSDEC). The report completed by LMS is located in Appendix C. The town-wide ground-water studies completed by the Community Consultants include inventories of existing and potential ground-water contamination problems. The inventory includes sites inventoried by both LMS and the Community Consultants.

The regional ground-water studies reviewed Alternative Orange County Landfill Candidate Areas and inventoried any existing or proposed ground-water supplies on the proposed landfill sites or on

adjacent properties. A summary of Landfill Candidate Areas and related ground-water supply information are summarized on Table 3.

The regional town-wide ground-water studies have been utilized by LBG to inventory data required to complete the Orange County Ground-Water Study.

LEGGETTE, BRASHEARS & GRAHAM, INC.

Thomas P. Cusack, CPG  
Senior Hydrogeologist

Reviewed by:

R. G. Slayback, CPG  
President

dmt  
June 15, 1994  
ocwadbas.rpt/ocwa

TABLE 2

ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES

LAND USE CATEGORIES	
Agricultural	Subcategory
100 Agricultural: General	
105 Agri Land: Vacant, Productive	
110 Agri: Livestock & Products, General	
111 Agri: Poultry & Poultry Products	
112 Agri: Dairy Products	
113 Agri: Cattle, Calves, Hogs	
114 Agri: Sheep & Wool	
115 Agri: Honey & Beeswax	
120 Agricultural: Field Crops, General	
129 Agri: Acquired Development Rights	
130 Agri: Truck Crops, Mucklands	
140 Agri: Truck Crops, Not Mucklands	
150 Agri: Orchard Crops, General	
151 Agri: Apples, Pears, Peaches etc.	
152 Agri: Vineyards	
160 Agriculture: Other Fruits	
170 Agri: Nursery & Greenhouse	
180 Agri: Specialty Farms, General	
181 Agri: Fur Products	
182 Agri: Pheasant	
183 Agri: Aquatic: Oysterlands	
190 Fish, Game & Wildlife Preserves	
320 Vacant Land: Rural, General	
321 Abandoned Agricultural Land	
323 Other Rural Vacant Land	
533 Game Farms	
555 Riding Stables	



**TABLE 2  
(continued)**

**ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES**

LAND USE CATEGORIES	
Residential	Subcategory
210 One-Family Year Round Residence	
220 Two-Family Year Round Residence	
230 Three-Family Year Round Residence	
240 Rural Residence With 10+ Acres	
250 Estate With 5+ Acres	
260 Seasonal Residences	
270 Mobile Home	
271 Multiple Mobil Homes	
280 Multiple Residences	
310 Vacant Land: Residential, General	
311 Residential Vacant Land	
312 Vacant Res. Land w/Small Improvement	
313 Waterfront Vacant Lot	
314 Rural Vacant Lots 10 Acres or Less	
315 Underwater Vacant Land, Res. Area	
316 Waterfront Vacant w/Small Improvement	
322 Res. Vacant Land Over 10 Acres	
410 Living Accommodations - General	
411 Apartments	
412 Condo/Coop	
413 Condo/Coop	
416 Mobile Home Park	

**TABLE 2  
(continued)**

**ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES**

LAND USE CATEGORIES	
Commercial	Subcategory
330 Vacant Land: Commercial Area	
414 Hotel	
415 Motel	
417 Camps, Cottages, Bungalows	
418 Inns, Lodges, Boarding, Frat., etc.	
420 Dining Establishments, General	
421 Restaurants	
422 Diners & Luncheonettes	
423 Snack Bars, Drive-Ins, Ice Cream Bars	
424 Night Clubs	
425 Bar	
426 Fast Food Franchise	
430 Motor Vehicle Services, General	(potential contamination)
431 Auto Dealer - Sales & Service	(potential contamination)
432 Service & Gas Stations	(potential contamination)
433 Auto Body, Tire, Other Auto Sales	(potential contamination)
434 Automatic Car Wash	
435 Manual Car Wash	
436 Self-Service Car Wash	
437 Parking Garage	
438 Parking Lot	
439 Small Parking Garage	
440 Storage, Warehouse & Distribution, General	

**TABLE 2  
(continued)**

**ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES**

LAND USE CATEGORIES	
Commercial (continued)	Subcategory
441 Gas, Fuel, Oil, Petro Storage & Distribution	(potential contamination)
442 Bottled Gas, Natural Gas Facilities	
443 Grain & Feed Elev., Mixers, Sales Outlet	
444 Lumber Yards, Sawmills	
445 Coal Yards, Bins	(potential contamination)
446 Cold Storage Facilities	
447 Trucking Terminals	(potential contamination)
448 Piers, Wharves, Docks & Related Facility	
449 Other Storage, Warehouse & Distribution	
450 Retail Services, General	
451 Regional Shopping Centers	
452 Area/Neighborhood Shopping Centers	
453 Large Retail Outlets	
454 Large Retail Food Stores	
455 Dealerships Sales & Services (non-auto)	
460 Banks & Office Buildings, General	
461 Standard Bank/Single Occupant	
462 Drive-In Bank Branch	
463 Bank Complex with Office Buildings	
464 Office Building	
465 Professional Building	
470 Miscellaneous Services	
471 Funeral Homes	
472 Dog Kennels, Veterinary Clinics	

**TABLE 2  
(continued)**

**ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES**

<b>LAND USE CATEGORIES</b>	
<b>Commercial (continued)</b>	<b>Subcategory</b>
473 Greenhouses	
475 Junkyards	(potential contamination)
480 Multiple Use or Multipurpose	
481 Downtown Row Type (with common wall)	
482 Downtown Row Type (detached)	
483 Converted Residence	
484 One Story Small Structure	
485 One Story Small Structure-Multioccupant	
486 Minimart	
<b>Industrial</b>	<b>Subcategory</b>
340 Vacant Land: Industrial Area	
700 Industrial	
710 Manufacturing & Processing	(potential contamination)
720 Mining & Quarrying, General	
721 Mining & Quarry: Sandy & Gravel	
722 Mining & Quarry: Limestone	
723 Mining & Quarry: Trap Rock	
724 Mining & Quarry: Salt	
725 Mining & Quarry: Iron & Titanium	
726 Mining & Quarry: Talc	
727 Mining & Quarry: Lead & Zinc	
728 Mining & Quarry: Gypsum	
729 Mining & Quarry: Other	
730 Wells, General	

**TABLE 2  
(continued)**

**ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES**

LAND USE CATEGORIES	
Industrial (continued)	Subcategory
731 Wells: Oil - Natural Flow	
732 Wells: Oil - Forced Flow	
733 Wells: Gas	
734 Wells: Junk	
735 Wells: Water Used for Oil Production	
736 Wells: Gas or Oil Storage Wells	
740 Industrial Product Pipelines	(potential contamination)
741 Industrial Gas Pipelines	(potential contamination)
742 Industrial Water Pipelines	
743 Industrial Brine Pipelines	(potential contamination)
744 Industrial Petroleum Products Pipelines	(potential contamination)
749 Industrial Pipelines - Other	(potential contamination)
800 Public Utility Services	
810 Electric & Gas, General	
811 Electric Power Generation - Hydro.	
812 Electric Power General - Coal Burning Plant	(potential contamination)
813 Electric Power General - Oil Burning Plant	(potential contamination)
814 Electric Power Generation - Nuclear Plant	(potential contamination)
815 Electric Power Generation - Gas Burning Plant	(potential contamination)
816 Gas Generation Plant	(potential contamination)
817 Electric Transmission & Distribution	(potential contamination)
818 Gas Transmission & Distribution	(potential contamination)
820 Public Service: Water, General	(public water)
821 Flood Control Land	(open space)
822 Water Supply	(public water)

**TABLE 2  
(continued)**

**ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES**

LAND USE CATEGORIES	
Industrial (continued)	Subcategory
830 Public Service: Communications	
831 Telephone	
832 Telegraph	
833 Radio	
834 TV Other than CATV	
835 Community Antenna TV	
836 Telecommunications	
840 Transportation	
841 Transport Service: Terminal, Garage, etc.	(potential contamination)
842 Ceiling Railroad	(potential contamination)
843 Nonceiling Railroad	(potential contamination)
844 Air Transportation	(potential contamination)
845 Tunnels & Subways	
846 Bridges, Tunnels & Subways	
847 Petroleum Pipelines (utility)	(potential contamination)
850 Waste Disposal, General	(potential contamination)
851 Solid Waste Disposal (ex fill/dumps)	(potential contamination)
852 Landfills and Dumps	(potential contamination)
853 Sewage Treatment, Water Pollution Control	(potential contamination)
854 Air Pollution Control	
860 Special Franchise Property	
861 Special Franchise: Electric & Gas	
862 Special Franchise: Water	(public water)
866 Special Franchise: Telephone	
867 Special Franchise: Miscellaneous	
868 Special Franchise: Pipelines	
869 Special Franchise: Television	

**TABLE 2  
(continued)**

**ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES**

LAND USE CATEGORIES	
Public	Subcategory
500 Recreation & Entertainment	
510 Entertainment Assembly	
511 Legitimate Theaters	
512 Motion Picture Theater	(non-drivein)
513 Drive-In Theaters	
514 Auditoriums, Exhib. & Exposition Halls	
515 Radio, TV, Motion Picture Studios	
520 Sports Assembly	
521 Stadium, Arenas, Armories, Field Houses	
522 Racetracks	
530 Amusement Facilities	
531 Fairgrounds	
532 Amusement Parks	
534 Social Organizations	
540 Indoor Sports Facilities	
541 Bowling Centers	
542 Ice or Roller Skating Rinks	
543 YMCAs, YWCAs etc.	
544 Health Spas	
545 Indoor Swimming Pools	
546 Other Indoor Sports	
550 Outdoor Sports Activities	
551 Skiing Centers	
552 Public Golf Courses	
553 Private Golf Country Clubs	
554 Outdoor Swimming Pools	
556 Ice or Roller Skating Rinks	
557 Other Outdoor Sports	

**TABLE 2  
(continued)**

**ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES**

LAND USE CATEGORIES	
Public (continued)	Subcategory
560 Improved Beaches	
570 Marinas	
580 Camps, Camping Facilities & Resorts	
581 Camps	
582 Camping Facilities	
583 Resort Complexes	
590 Parks	
591 Playgrounds	
592 Athletic Fields	
593 Picnic Grounds	
600 Community Services	
610 Education	
611 Libraries	
612 Schools (gen. elementary, secondary)	
613 Colleges & Universities	
614 Special Schools & Institutions	
615 Other Educational Facilities	
620 Religious	
630 Welfare Facilities, General	
631 Orphanages	
632 Benevolent & Moral Associations	
633 Homes for the Aged	
640 Health, General	
641 Hospitals	
642 All Other Health Facilities	
650 Government, General	
651 Government Highway Garage	(potential contamination)
652 Government Office Building	



**TABLE 2  
(continued)**

**ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES**

LAND USE CATEGORIES	
Public (continued)	Subcategory
653 Government Parking Lots	
660 Protection, General	
661 Armed Forces Installation, Radar, etc.	(potential contamination)
662 Fire/Police/Civil Defense Facility	
670 Correctional	
680 Cultural & Recreational	
681 Cultural Facilities	
682 Recreational Facility - Trails, Paths etc.	
690 Miscellaneous	
691 Professional Associations	
694 Animal Welfare Shelters	
695 Cemeteries	
910 Private Wild & Forest, ex Hunt & Fish	(open space)
911 Forest Land-Section 480 RP Tax Law	(open space)
912 Forest Land-Section 480-a RP Tax Law	(open space)
920 Private Hunting & Fishing Laws	(open space)
930 State Owned Forest Land	(open space)
931 [combine into 930]	(open space)
932 [combine into 930]	(open space)
940 Reforested & Other Conservation	(open space)
941 State Owned Taxable Reforested Land	(open space)
942 County Owned Reforested Land	(open space)
950 Hudson & Black River Reg. Dist. Land	(open space)
960 Public Parks	(open space)
961 Public Parks: State Owned	(open space)
962 Public Parks: County Owned	(open space)
963 Public Parks: City/Town/Village	(open space)
970 Other Wild or Conservation Lands	(open space)

**TABLE 2  
(continued)**

**ORANGE COUNTY WATER AUTHORITY  
GROUND-WATER BASIC DATA REPORT  
LAND USE AND CATEGORIES**

<b>LAND USE CATEGORIES</b>	
<b>Public (continued)</b>	<b>Subcategory</b>
971 Wetlands (pub/priv) w/use restrictions	(open space)
972 Land Under Water (public or private)	(open space)
980 Taxable State Owned Conserv. Easements	(open space)
990 Other Taxable State Land Assessments	
991 [combine under 991]	(open space)
992 [combine under 991]	(open space)
993 [combine under 991]	(open space)
994 [combine under 991]	(open space)

**TABLE 3**  
**ORANGE COUNTY WATER AUTHORITY**  
**GROUND-WATER BASIC DATA REPORT**

**Orange County**  
**Landfill Candidate Areas**

Area	Town	Existing Ground-Water Information
L1	Deerpark	No ground-water sources are known to exist in the area.
L2	Deerpark	No ground-water sources are known to exist in the area.
L3	Greenville	No ground-water sources are known to exist in the area.
L4	Greenville	No ground-water sources are known to exist in the area.
L5	Minisink/Greenville	No ground-water sources are known to exist in the area.
L6	Wawayanda	No ground-water sources are known to exist in the area.
L7	Walkill	No ground-water sources are known to exist in the area.
L8	Crawford	No ground-water sources are known to exist in the area.
L9	Walkill	No ground-water sources are known to exist in the area.
L10	Warwick	Area is immediately west of the Eurich Heights Water District.
L11	Warwick	Area is immediately west of the Eurich Heights Water District.
L12	Crawford	A spring exists on the DeVries property. This suggests there are ground-water reserves in the area.
L13	Montgomery	A private water supply for a nursing home is within 2,000 feet of the area.
L14	New Windsor	No ground-water sources are known to exist in the area.
L15	Blooming Grove	No ground-water sources are known to exist in the area.
L16	Blooming Grove/Goshen	No ground-water sources are known to exist in the area.
L17	Blooming Grove	No ground-water sources are known to exist in the area.

Note: Extensive onsite exploratory testing would be necessary to determine the suitability of any area for landfill activities.