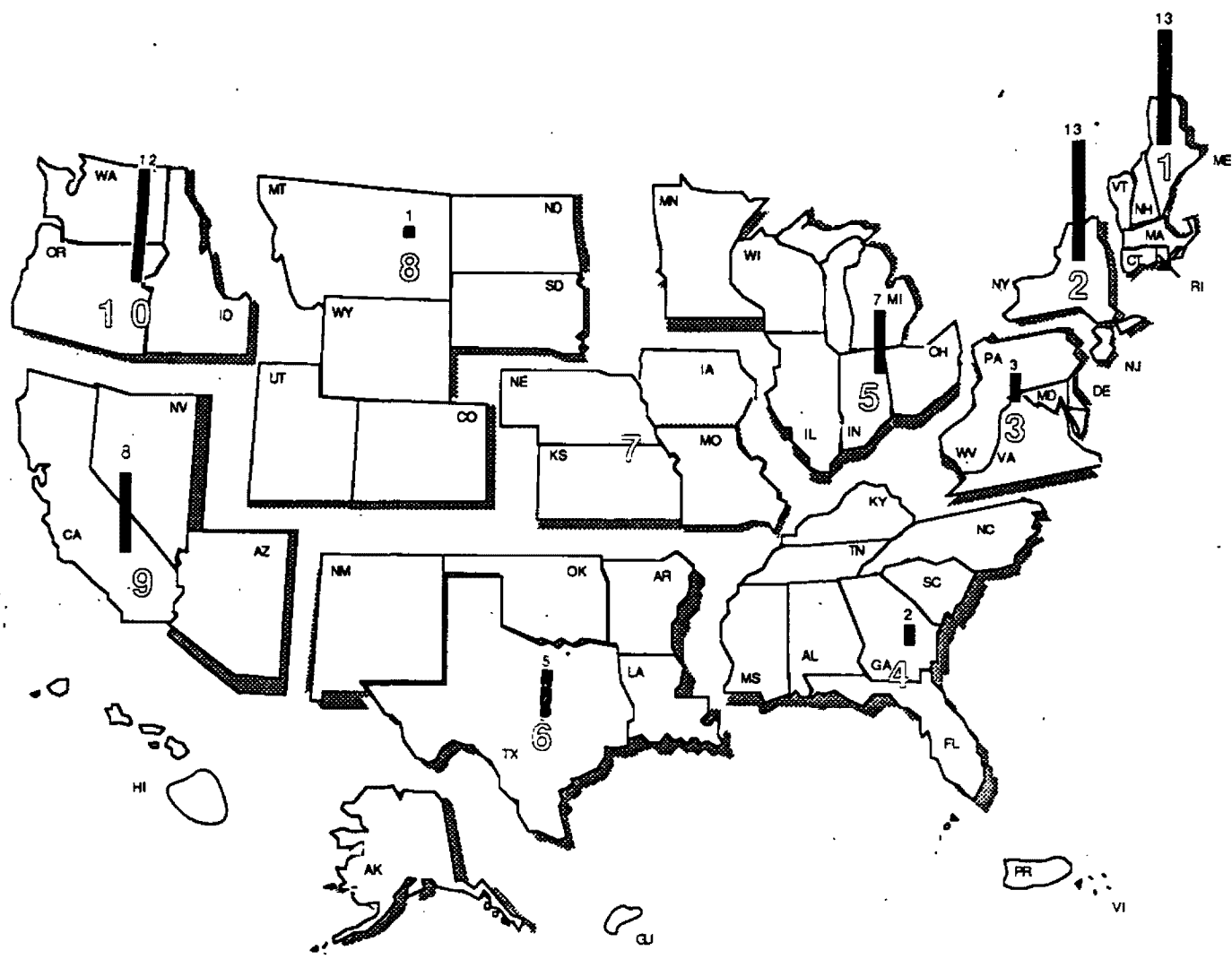


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DESIGNATED SOLE SOURCE AQUIFERS NATIONALLY

Fact Sheet with Designated Aquifers and Pending Petitions Listed

31398784



Key

8
 Length of Bar Indicates number of Sole Source Aquifer Designations in each EPA Region

*Includes a Sole Source Aquifer Designation shared with an adjoining Region. See attached Lists for Details

Office of Water
 Office of Ground Water and Drinking Water
 U. S. Environmental Protection Agency
 July 1994

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Sole Source Aquifer Designation Program

Background

The Sole Source Aquifer (SSA) program allows individuals and organizations to petition the Environmental Protection Agency (EPA) to designate aquifers as the "sole or principal" source of drinking water for an area. The program was established under Section 1424(e) of the Safe Drinking Water Act (SDWA) of 1974. The primary purpose of the designation is to provide EPA review of Federal financially assisted projects planned for the area and to determine their potential for contaminating the aquifer "so as to create a significant hazard to public health". Based on this review, no commitment of Federal financial assistance may be made for projects "which the Administrator (of EPA) determines may contaminate such (an) aquifer," although Federal funds may be used to modify projects to ensure that they will not contaminate the aquifer.

The first aquifer to be designated was the Edwards Aquifer in the San Antonio, Texas area in 1975. The EPA proposed specific regulations for this first designated aquifer.

In 1977, EPA issued proposed regulations to implement this program. The proposed regulations contained detailed definitions, sole source aquifer designation procedures and project review criteria. Although these guidelines were not finalized, an additional twenty (20) aquifers were designated from this time until the SDWA Amendments were enacted on June 19, 1986.

The SSA program is not intended to be used to inhibit or stop development of landfills, publicly-owned treatment works (POTWs) or public facilities financed by non-Federal funds. Furthermore, the SSA program is not linked to other Federal environmental regulatory or remedial programs, except where Federal financial assistance is committed in a designated sole source aquifer area.

Current Program

In 1987, EPA delegated authority to approve SSA petitions to Regional Administrators. EPA also published the Sole Source Aquifer Designation Petitioner Guidance to assist SSA petitioners in preparing and submitting petitions to EPA Regional Offices.

The guidance document provides the petitioner with an outline of methods for determining the sole or principal source of drinking water and the aquifer boundaries and describes other hydrogeological and water supply data, necessary for EPA Regional Offices to make a finding of sole source or principal source status.

The Safe Drinking Water Amendments of 1986 added a new Section 1427, "to establish procedures for development,

implementation and assessment of demonstration programs designed to protect critical aquifer areas located within areas designated as sole or principal source aquifers under section 1424(e) of this Act." This section allows areas with either an SSA designation by June 19, 1988, or designation by June 19, 1986 and an approved Clean Water Act Section 208 plan to apply for demonstration program funds to plan, implement and evaluate innovative management approaches to protecting ground-water quality. EPA established criteria to identify critical aquifer protection areas. (See 40 CFR 149, Federal Register, February 14, 1989, pages 6836 to 6843.) No funding has been appropriated for the demonstration program for FY 87 - 94 and, as a result, no grant guidance or application forms have been developed by EPA.

Current Sole Source Aquifer Designation Status

As of July, 1994, thirty seven sole source aquifer designations have been made using the 1987 petitioner guidance. In total, EPA has approved 64 SSA designations nation-wide. Also, 9 petitions are currently being evaluated for possible designation. In the past, 13 petitions have not been approved because of insufficient information or loss of petitioner interest in following up to provide needed data. A list and a general location map of the 64 designated Sole Source Aquifers is attached. A list of the 9 Sole Source Aquifer petitions undergoing designation review in the Regions is also provided.

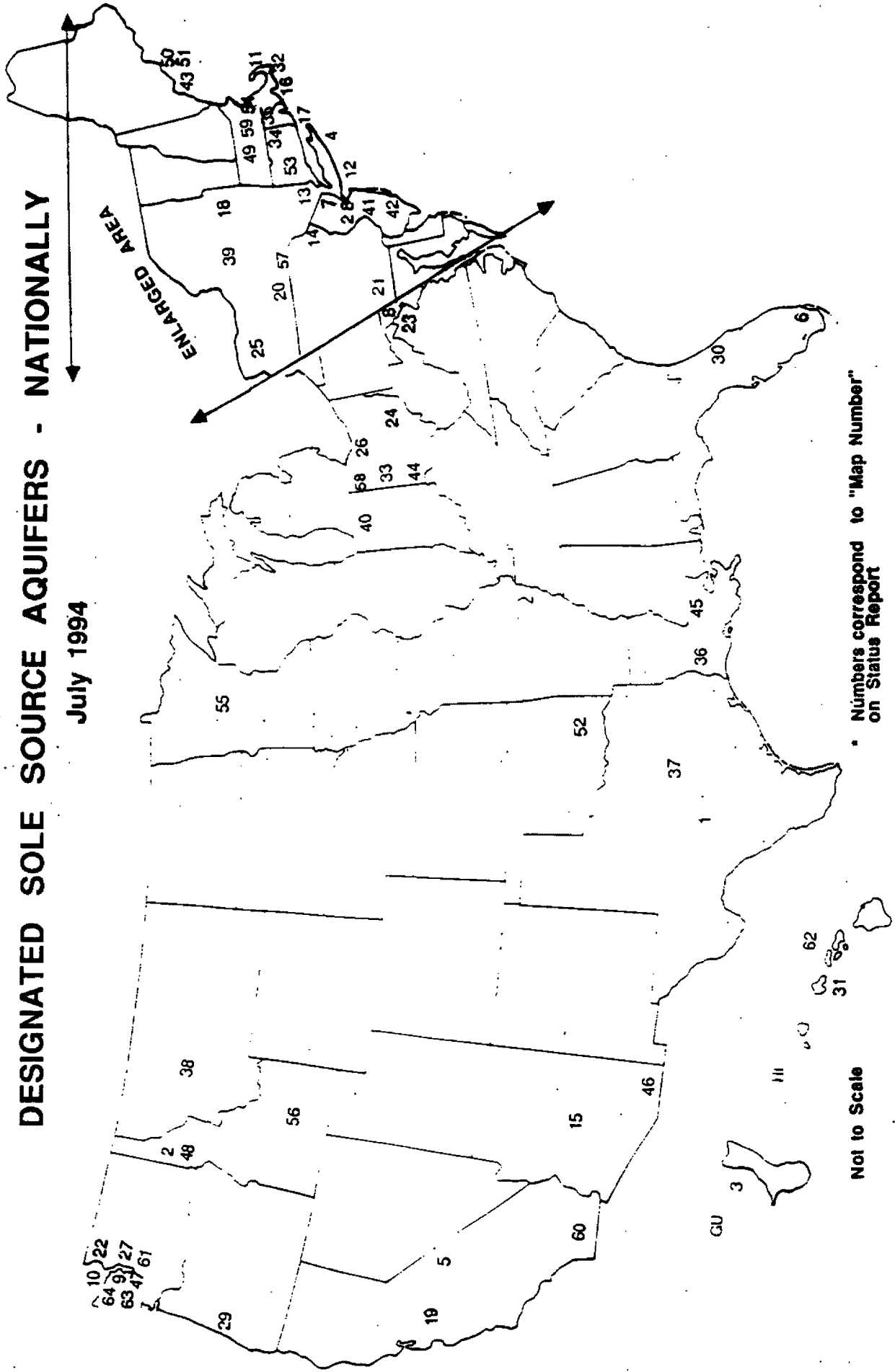
Post-Designation Review

After designation, no commitment of Federal financial assistance may be made to a project that is found through EPA review to have the potential to contaminate the aquifer so as to create a hazard to public health. The EPA has established and continues to set up arrangements with other Federal agencies to expedite this project review where sole source aquifers have been designated. In some cases, hydrogeological data for federally assisted projects is supplied under requirements of the National Environmental Policy Act (NEPA) which may be adequate for a determination regarding the potential for aquifer contamination. The Regional Offices of EPA make the determinations regarding the potential for SSA contamination of the designated aquifers in their regions. For additional details regarding the reporting of post SSA designation reviews see, Sole Source Aquifer-Post Designation Project Review Tracking Summary for Fiscal Year 1990 and Fiscal Year 1991. These reports and additional 1992 and 1993 Fiscal Year Post Designation Summaries are available upon request to the Environmental Protection Agency, Office of Water, Ground Water Protection Division, Washington, DC 20460.

DATE: July, 1994

DESIGNATED SOLE SOURCE AQUIFERS - NATIONALLY

July 1994



(This map shows only the general relative locations of designated aquifers and should not be used for the purpose of finding specific locations)

STATUS OF 07/94

DESIGNATED SOLE SOURCE AQUIFERS - NATIONALLY

		<u>Federal Register Notice</u>				
<u>Region</u>	<u>Map Number</u>	<u>Aquifer and/or Location</u>	<u>State</u>	<u>Petition Filed</u>	<u>Citation</u>	<u>Publication Date</u>
VI	1.	San Antonio Area Edwards Aquifer	TX	01/03/75	40 FR 58344	12/16/75
X	2.	Spokane Valley-Rathdrum Prairie Aquifer	WA/ID	fall of '76	43 FR 5566	02/09/78
IX	3.	Northern Guam	GU	11/20/75	43 FR 17868	04/26/78
II	4.	Nassau/Suffolk Counties Long Island	NY	01/21/75	43 FR 26611	06/21/78
IX	5.	Fresno County	CA	08/09/76	44 FR 52751	09/10/79
IV	6.	Biscayne Aquifer	FL	05/08/78	44 FR 58797	10/11/79
II	7.	Buried Valley Aquifer System	NJ	01/15/79	45 FR 30537	05/08/80
III	8.	Maryland Piedmont Aquifer Montgomery, Frederick, Howard, Carroll Counties	MD	09/12/75	45 FR 57165	08/27/80
X	9.	Camano Island Aquifer	WA	04/13/81	47 FR 14779	04/06/82
X	10.	Whidbey Island Aquifer	WA	04/13/81	47 FR 14779	04/06/82
I	11.	Cape Code Aquifer	MA	03/04/81	47 FR 30282	07/13/82

DESIGNATED SOLE SOURCE AQUIFERS - NATIONALLY

<u>Region</u>	<u>Map Number</u>	<u>Aquifer and/or Location</u>	<u>State</u>	<u>Petition Filed</u>	<u>Citation</u>	<u>Date</u>
II	12.	Kings/Queens Counties	NY	06/18/79	49 FR 2950	01/24/84
II	13.	Brunswick Shale and Sandstone Aquifer, Ridgewood Area	NJ	07/04/79	49 FR 2950	01/24/84
II	14.	Rockaway River Basin Area	NJ	11/30/79	49 FR 2946	01/24/84
IX	15.	Upper Santa Cruz & Avra Altar Basin Aquifers	AZ	06/29/81	49 FR 2948	01/24/84
I	16.	Nantucket Island Aquifer	MA	12/02/82	49 FR 2952	01/24/84
I	17.	Block Island Aquifer	RI	02/18/83	49 FR 2952	01/24/84
II	18.	Schenectady/Niskayuna Schenectady, Saratoga and Albany Counties	NY	08/20/82	50 FR 2022	01/14/85
IX	19.	Santa Margarita Aquifer Scotts Valley, Santa Cruz County	CA	09/07/77	50 FR 2023	01/14/85
II	20.	Clinton Street-Ballpark Valley, Aquifer System, Broome and Tioga Counties	NY	02/26/81	50 FR 2025	01/14/85

STATUS AS OF 07/94

DESIGNATED SOLE SOURCE AQUIFERS - NATIONALLY

<u>Region</u>	<u>Map Number</u>	<u>Aquifer and/or Location</u>	<u>State</u>	<u>Petition Filed</u>	<u>Citation</u>	<u>Date</u>
III	21.	Seven Valleys Aquifer York County	PA	09/24/81	50 FR 9126	03/06/85
X	22.	Cross Valley Aquifer Snohomish, King Counties	WA	07/29/83	52 FR 18606	05/18/87
III	23.	Prospect Hill Aquifer Clark County	VA	06/27/85	52 FR 21733	06/09/87
V	24.	Pleasant City Aquifer, Guernsey County	OH	08/27/84	52 FR 32342	08/27/87
II	25.	Cattaraugus Creek Basin Aquifer System (CCBA)	NY	02/28/85	52 FR 36100	09/25/87
V	26.	Catawba Island Bass Island Aquifer	OH	03/17/86	52 FR 37009	10/02/87
X	27.	Newberg Area Aquifer Snohomish County	WA	01/16/84	52 FR 37215	10/05/87
II	28.	Highlands Aquifer System	NY/NJ	03/14/85	52 FR 37213	10/05/87
X	29.	North Florence Dunal Aquifer, Lane County	OR	06/02/85	52 FR 37519	10/07/87
IV	30.	Volusia-Floridan Aquifer Volusia, Flagler, Putnam Counties	FL	06/18/82	52 FR 44221	11/18/87

Federal Register Notice

DESIGNATED SOLE SOURCE AQUIFERS - NATIONALLY

<u>Region</u>	<u>Map Number</u>	<u>Aquifer and/or Location</u>	<u>State</u>	<u>Petition Filed</u>	<u>Citation</u>	<u>Date</u>
IX	31.	Southern Oahu Basal Aquifer	HI	05/03/83	52 FR 45496	11/30/87
I	32.	Martha's Vineyard Regional Aquifer	MA	06/16/87	53 FR 3451	02/05/88
V	33.	Buried Valley Aquifer System (BVAS)	OH	11/25/87	53 FR 15876	05/04/88
I	34.	Pawcatuck Basin Aquifer System	RI/CT	11/30/87	53 FR 17108	05/13/88
I	35.	Hunt-Annaquatucket-Pettaquamscutt Aquifer System (HAP)	RI	12/30/87	53 FR 19026	05/26/88
VI	36.	Chicot Aquifer	LA	12/05/86	53 FR 20893	06/07/88
VI	37.	Austin Area Edwards Aquifer	TX	08/29/86	53 FR 20897	06/07/88
VIII	38.	Missoula Valley Aquifer	MT	11/23/87	53 FR 20895	06/07/88
II	39.	Cortland-Homer-Preble Aquifer System	NY	09/15/87	53 FR 22045	06/13/88
V	40.	St. Joseph Aquifer System (Elkart Co)	IN	12/11/87	53 FR 2368206	23/88

DESIGNATED SOLE SOURCE AQUIFERS - NATIONALLY

<u>Region</u>	<u>Map Number</u>	<u>Aquifer and/or Location</u>	<u>State</u>	<u>Petition Filed</u>	<u>Citation</u>	<u>Federal Register Notice Date</u>
II	41.	N.J. Fifteen Basin Aquifer Systems	NJ/NY	11/18/85	53 FR 23685	06/23/88
II **	42.	N.J. Coastal Plain Aquifer System	NJ/PA/DE	02/04/78	53 FR 23791	06/24/88
I	43.	Monhegan Island	ME	05/16/88	53 FR 24496	06/29/88
V	44.	OKI - Miami Buried Valley Aquifer	OH	03/10/88	53 FR 25670	07/08/88
VI ***	45.	Southern Hills Aquifer System	LA/MS	05/19/80	53 FR 25538	07/07/88
IX	46.	Bisbee-Naco Aquifer, Cochise County	AZ	10/00/83	53 FR 38337	09/03/88
X	47.	Cedar Valley Aquifer King County	WA	03/03/88	53 FR 38779	10/03/88
X	48.	Lewiston Basin Aquifer	WA/ID	12/27/87	53 FR 38782	10/03/88

** Sole Source Aquifer Designated by Region II. Federal review actions affecting the SSA(s) in Delaware and Pennsylvania are conducted by Region III.

*** Sole Source Aquifer Designated by Region VI. Federal review actions affecting the SSA(s) in Mississippi are conducted by Region IV.

DESIGNATED SOLE SOURCE AQUIFERS - NATIONALLY

<u>Region</u>	<u>Map Number</u>	<u>Aquifer and/or Location</u>	<u>State</u>	<u>Federal Register Notice</u>		
				<u>Petition Filed</u>	<u>Citation</u>	<u>Date</u>
I	49.	Head of Neponset Aquifer Area	MA	05/10/88	53 FR 49920	12/12/88
I	50.	Vinalhaven Island Aquifer System	ME	06/03/88	54 FR 29779	07/14/89
I	51.	North Haven Island Aquifer System	ME	06/03/88	54 FR 29934	07/17/89
VI	52.	Arbuckle-Simpson Aquifer South Central Oklahoma	OK	07/29/88	54 FR 39230	09/25/89
I	53.	Pootatuck Aquifer	CT	03/09/89	55 FR 11056	03/26/90
I	54.	Plymouth-Carver Aquifer	MA	04/07/89	55 FR 32137	08/07/90
V	55.	Mille Lacs Aquifer	MN	12/87	55 FR 43407	10/29/90
X	56.	Eastern Snake River Plain Aquifer	ID	09/25/82	56 FR 50634	10/07/91
II	57.	Ramapo River Basin Aquifer System	NY/NJ	09/08/90	57 FR 39201	08/28/92
V	58.	Allen County Area Combined Aquifer System	OH	10/16/90	57 FR 53111	11/06/92
I	59.	Canoe River Aquifer	MA	12/10/92	58 FR 28402	05/13/93

STATES AS OF 07/94

DESIGNATED SOLE SOURCE AQUIFERS - NATIONALLY

Federal Register Notice

<u>Region</u>	<u>Map Number</u>	<u>Aquifer and/or Location</u>	<u>State</u>	<u>Petition Filed</u>	<u>Citation</u>	<u>Publication Date</u>
IX	60.	Campo/Cottonwood Creek Aquifer	CA	08/22/91	58 FR 31024	05/28/93
X	61.	Central Pierce County Aquifer	WA	07/01/87	59 FR 224	01/01/94
IX	62.	Molokai Aquifer Maui County	HI	04/23/93	59 FR 23063	05/04/94
X	63.	Marrowstone Island Aquifer System, Jefferson County	WA	08/27/91	59 FR 28752	06/02/94
X	64.	Vashon-Maury Island Aquifer System, King County	WA	04/02/92	59 FR 34468	07/05/94

PENDING SOLE SOURCE AQUIFER PETITIONS - BY REGION

STATUS AS OF 07/94

PENDING SOLE SOURCE AQUIFER PETITIONS - BY REGION

<u>Region</u>	<u>Aquifer and/or Location</u>	<u>State</u>	<u>Petitioner(s)</u>	<u>Petition Filed</u>
I	Matinicus Island Aquifer Islesboro Island Aquifer Swan Island Aquifer Long Island Aquifer (Frenchboro) Broad Brook Sole Source Aquifer	ME ME ME ME ME	State of Maine State of Maine State of Maine State of Maine Pioneer Valley Planning Comm.	03/90 06/90 10/90 12/90 12/93
II	NONE			
III	Columbia, Yorktown, Eastover Multiaquifer System, Accomac Co. & Northhampton Co.	VA	Bi-County Ad-Hoc Citizens Comm. on Oversight	07/28/92
IV	NONE			
V	NONE			
VI	NONE			
VII	NONE			
VIII	New Rockford Aquifer	ND	P.A.S.S.-People Against Sewage Sludge Orval Hovey	10/92 05/08/84

STATUS AS OF 07/94

PENDING SOLE SOURCE AQUIFER PETITIONS - BY REGION

<u>Region</u>	<u>Aquifer and/or Location</u>	<u>State</u>	<u>Petitioner(s)</u>	<u>Petition Filed</u>
IX	NONE			
X	Eastern Columbia Plateau Aquifer System	WA/ID	Palouse-Clearwater Environmental Institute	02/03/93

TOTAL - 9 SSA Petitions Pending
Review