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DIV. OF HIGHWAYS SHOSHONE, IDAHO

ID. TRANSPORTATION DEPT.

Jack T. Coe, Division Administrator U.S. Department of Transportation Federal Highway Administration Idaho Division 3050 Lakeharbor Lane, Suite 126 Boise, Idaho 83703-6217

Dear Mr. Coe:

This is to acknowledge receipt of the revised Attachment A of our Memorandum of Understanding which includes the Eastern Snake River Plain as a Sole Source Aquifer. We concur with the revision and have incorporated the language into our copy of the memorandum.

Sincerely,

Lavaa Kasnussa

Dana A. Rasmussen Regional Administrator

cc: C. Rountree, ITD, Boise

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MEMORANDUM OF UNDERSTANDING Between THE FEDERAL HIGHWAY ADMINISTRATION

REGION 10, PORTLAND, OREGON and

THE ENVIRONMENTAL PROTECTION AGENCY REGION 10, SEATTLE, WASHINGTON and

THE IDAHO TRANSPORTATION DEPARTMENT BOISE, IDAHO

> Sole Source Aquifer State of Idaho



# Introduction

The purpose of this memorandum is to develop an understanding between the Environmental Protection Agency (EPA), the Federal Highway Administration (FHWA) and the Idaho Transportation Department (ITD) concerning the review of Federalaid highway projects which may affect water quality of the designated sole source aquifer listed on Attachment A, hereinafter referred to as the Aquifers. The agreement area is the collective designated "sole source area" encompassing these Aquifers. This memorandum outlines basic criteria against which projects will be evaluated and the procedures to be followed by FHWA and EPA in conducting project evaluation and formal review within the State of Idaho.

# Goel and Definitions

The goal of this memorandum is to assure that each highway project that is to receive FHWA financial assistance is designed and constructed in a manner that will prevent the introduction of contaminants into a "sole source" aquifer in quantities that may create a significant hazard to public health. A "significant hazard to public health" will be deemed to occur if the level of contaminants in an Aquifer would:

- (a) exceed any maximum contaminent levels set forth in the National Primary Drinking Water Standards at any point where the water may be used for drinking purposes, or
- exceed public health advisory levels for currently unregulated (b) contaminants, and where treatment may be needed to achieve appropriate standards or levels.
- violate the intent of Executive Order 12088, "Federal Compliance with Pollution Control Standards"

In determining whether a level of contaminant would threaten public health, the following factors at a minimum shall be considered:

- the toxicity and transportation/transformation (in the coinvolved; of the contaminants (1)
- the volume of contaminants which may enter the Aquifer; and (2)
- Aquifer characteristics, i.e., geochemical, hydrological, geological, (3)etc., and attenuation capability of the Aquifer.

# Criteria and Procedures

ITD and FHWA will screen all Federal-aid highway projects to assure that action which may affect water quality in the sole source aquifers will be referred to EPA for evaluation. Examples of actions to be referred to EPA are listed in Attachment C. Maps and descriptions of designated sole source aquifers with the State are included in Attachment A.

EPA shall be provided an early opportunity to participate in the development and review all draft environmental documents for projects listed in Attachment C.

EPA agrees that all environmental documentation submitted by ITD/FHWA for evaluation or review purposes shall be responded to within thirty (30) calendar days of receipt unless:

- (1) EPA requests in writing for an additional 30-day review period and request is concurred in by FHWA.
- (2) EPA receives a citizen's petition prior to FHWA approval of the environmental documentation. EPA will immediately notify FHWA (in writing if time permits or by telephone if the end of the comment period is near). EPA will re-evaluate the project, and will notify FHWA within thirty (30) days of receiving such petition information of EPA's decision.

ITD agrees that all contracts for projects in the sole source aquifer area will contain adequate provisions for the cleanup of any petroleum spill.

FHWA and ITO agree to provide EPA with a copy of the contract plans and specifications for all projects previously submitted for EPA review, and to permit EPA inspection of their construction:

# General Information

Environmental documents furnished EPA under this Memorandum of Understanding will be addressed to the attention of the Office of Ground Water in EPA's Region 10 Office in Seattle. Project review comments by EPA will be addressed to the Idaho Transportation Department District Office transmitting the document with a copy to the FHWA Idaho Divison Office.

FHWA, EPA and ITD will assign a liaison officer to serve as a central contact point to be responsible for maintaining communications as to procedures and activities of their respective agency. The liaison officers are:

FHWA: Regional Environmental Program Manager FHWA Region 10 Office 708 S.W. Third Avenue Portland, Oregon 97204 (503) 221-2061 or FTS 423-2061 Environmental Coordinator Division Administrator FHWA Idaho Division 3010 W. State Street Boise, Idaho 83703 (208) 334-1690 or FTS 554-1690

EPA: Chief, Office of Ground Water
U.S. Environmental Protection Agency
1200 Sixth Avenue, Mail Stop WD-139
Seattle, Washington 98101
(206) 442-1216 or FTS 399-1216

ITD: Environmental Planning Section Supervisor Idaho Transportation Department 3311 West State Street Boise, Idaho 83707 This Memorandum of Understanding is subject to revision upon agreement of the following parties.

IDAHO PRANSPORTATION DEPARTMENT

Director

Date: FEDERAL HIGHWAY ADMINISTRATION Jack T. Coe Division Administrator M. Eldon Green Regional Administrator

ECTION AGENCY NVIRONMENTAL

Administrator Regiona

# ATTACHMENT A

Pursuant to the Safe Drinking Water Act (42 USC 300 h-3e), EPA has determined that the aquifer listed below is the sole or principal drinking water source for their respective designated areas. As such, no commitment for Federal financial assistance may be entered into within the boundaries of the designated area for any project which EPA determines may contaminate any of the aquifers through their recharge area (watershed) so as to create a significant hazard to public health or the environment.

250	*	Federal	
Aquifer Name	Location	Register Notice	Date -
Spokane Valley Rathdrum Prairie	Kootenai County, ID* (aquifer only)	Vol. 43, No. 28 5566 et. seg.	02/9/78
Lewiston Basin	Nez Perce and Lewis Counties, ID	Vol. 53, No. 191 38762 et. seq.	10/3/88
Eastern Snake River Plain	South Eastern, ID**	Vol. 56, No. 194 50635 et. seq:	10/7/91

<sup>\*</sup> As indicated on the aquifer map (Attachment A(1)), the aquifer is surrounded by the Streamflow source area located in Bonner, Kootenai, Shoshone, Benewah, and Latah Counties.

Projects listed in Attachment C and located in the Streamflow source area shall be submitted to EPA for review.

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<sup>\*\*</sup> As indicated on the aquifer map (attachment A(2))

no later than March 23, 1978 All comments received will be made available to the public. Copies of all comments received and a verbatim transcript of the meeting will be available for public inspection and copying during normal working hours at the U.S. Environmental Protection Agency's Public Information and Reference Unit, Room 2922 Waterside Mall 401 M Street SW., Washington, D.C. 20460.

All communications and correspondence should be directed to U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, MD-12, Research, Triangle Park, N.C. 27711, Attn.: Mr. Joseph Padgett 919-541-5204.

Dated: February 2, 1978.

EDWARD F. TUERLE. Acting Azristant Administrator for dir and Waste Management (FR Doc. 78-3478 Filed 3-4-78; 8:45 am)

[6560-01]

[FRL 831-3]

### SPOKANE YALLEY-KATHDRUM PRAIRIE AQUIFEE

Determination

Notice is hereby given that pursuant. to section 1424(e) of the Safe Drinking Water Act (Pub. L. 93-323) the Admin-Istrator of the Environmental Protect tion Agency has determined that the Valley-Rathdrum Prairie Spokane Aquifer is the sole or principal source of drinking water for an area in Idaho and Washington. The Aquifer supplies water to public water supplies and individual wells in Kootenai County, Idaho, and Spokane County, Wash.

### BACKUROUND

The Safe Drinking Water Act was enacted on December 16, 1974. Section 1424(e) of the Act states: "(a) If the Administrator determines, on his own initiative or upon petition, that an area has an aquifer which is the sole or principal drinking water source for the area and which, if contaminated, would create a significant hazard to public health, he shall publish notice of that determination in the Propost REGISTER After the publication of any such notice, no commitment for Federal financial assistance (through a grant, contract, loan guarantee, or otherwise) may be entered into for any project which the Administrator determines may contaminate such aquifer through a recharge zone so as to create a significant hazard to public health, but a commitment for Federal financial assistance may, if authorized under another provision of law, be en-· tered into to plan or design the project to assure that it will not so contarni-.
nate the aquifer."

During the fall 1976, petitions were presented on behalf of the Idaho Co-

alition for Shorelands Preservation, Spokane Audubon Society, Spokane Vera Valley Citizens Committee, and Spokane Sierra Club urging the U.S. Environmental Protection Agency to make a "Sole Source" determination under section 1424(e) for the Spokane Valley-Rathdrum Prairie Aquifer in Idaho and Washington. The petitioners are interested in protecting their drinking water source from contamination. They desire controls which are not tied to local politics and industrial and commercial influence. A Notice of Receipt of this petition, together with a request for comments, was published in the Prograt REGISTER on January 31, 1977. In response to the notice and request for comments, written comments were received from both the public and private sectors. On March 4, 1977, the EPA held a public hearing in Spokane, Wash, to hear the views of interested persons on the Spokane Valley-Rathdrum Prairie Aquifer issue

Among the determinations which the Administrator must make in connection with the designation of an area under section 1424(s) are: (1) In the Aquifer the area's sole or principal source Aquifer of water supply, and (2) if contaminated, would a significant hazard to public health be created? EPA does not construe this provision to require a determination that projects planned or likely to be con-structed will in fact create such a hazard it is sufficient to demonstrate that approximately 338,000 people depend on the Spokane Valley-Rathdrum Prairie Aquifer as their principal source of drinking water, and that the aquifer is vulnerable to contamination through its recharge zone. Obviously, tirrests to the quality of the drinking water supply for such a large population could create a significant bazard to public health.

In public comments, the view was expressed that EPA should refrein from designating the Aquifer because a system of State and local controls to prevent contamination siredy existed. or special 208 studies would promote the controls needed. While the existence and effectiveness of local controis are clearly relevant to the question of reviewing future Federal financially assisted projects, section 1424(e) does not make designation contingent on the absence of Stage or local regulations. Therefore, these factors do not properly bear on the decision whether or not to designate the Aquifer.

### A Designation of "Sole Source" AQUITION

The Agency has carefully reviewed both the data presented at the public hearing for the Spokane Valley-Rathdrum Prairie Aquifer and subsequent written comments. Most speakers at the hearing expressed the view to the Aguifer provided the sole source drinking water for a large area Idaho and Washington and that th would be a danger to public health it were contaminated A "sole sou or principal source squifer" means squiler which supplies 50 percent more of the drinking water for an a Clarge territory, usually encompass. more than one county).

On the basis of the substant amount of information which is avable to this Agency and that presen by the public, the Administrator 1 made the following findings, which : the basis for the determination not

STOOLS

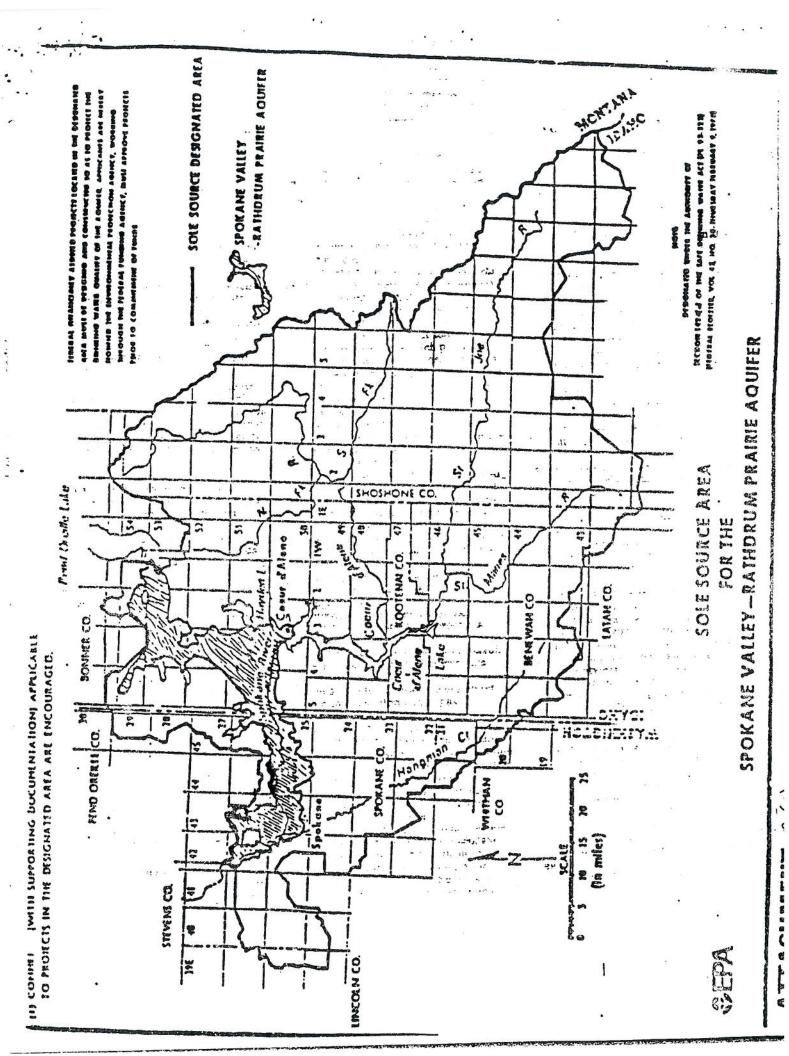
1. The Spokane Valley-Rathdr. Prairie Aquifer is the "sole source" high quality drinking water for or 238,000 people, including cities a towns and people using individu wells. Current water supply treatme practice is limited to minimal disinf. tion for some systems and no tre: ment for other systems for drinki purposes, and there is no alternat! source of drinking water supply whi could economically replace the Sc Valley-Asthdrum sung Aquifer.

2. The Aquifer is vulnerable to co tamination through its recharge zo primarily because the glaciated so which are highly permeable. There evidence of localized contamination from industrial sources and sept tanks: Since contamination ground water aquifer can be difficu or impossible to reverse, contamir. tion of the Spokane Valley-Rathdru Prairie Aquifer could pose a signu cant hazard to those people depender on the aquiler for drinking purposes.

B. DESCRIPTION OF SPORANT VALLE RATHORUM PRAIRIE AQUUTA R CHARGE AND STREAMPLOW SOUR ZONX

The Aquiler begins in Idaho ne Spirit Lake and Pend Oreille Lal stretching through the Rathdru Frairie and into the Washington Sp kane Valley through the City of Sp kane, terminating at the confluence the Spokene River and Little Spokar River. The Aguifer consists of unco solidated glacial deposits which have high capacity to store and transm large quantites of water.

Section 1424(e) of the Act requir that efter publication of the Admini trator's decision, "no commitment f Frederal financial assistance (through n grant, contract, loan guarantee, otherwise) may be entered into f any project which the Administrat determines may contaminate sur aquifer through a recharge zone so to create a significant hazard to pub health " " ." The recharge zone that area through which water ente or could enter into the squifer. Th



recharge zone in the case of the Spokane Valley-Rathdrum Prairie Aquifer is the land area directly overlying and adjacent to the Aquifer. The Aquifer extends from near Spirit Lake and Pend Orelle Lake in Bonner and Kootenal Counties, Idaho, southwest across the Rathdrum Prairie and down the Spokane Valley to the Little Spohane River and the Spokane River in Spokane County, Wash, and it includes the cities of Spirit Lake, Athol. Rathdrum, Hayden Lake, Coeur d'Alene, Post Falls, Spokane and several other small towns. This is the mone which will receive high priority

for project review. There is an upstream headwaters area draining into the recharge zone and contributing over 90 percent of the recharge flow to the Aquiler. This is the stramflow source some. EPA may also review projects in this outlying cone. Since such a high percentage of the recharge flow to the Aquifer originates in this area, it could have a significant impact on the quality of the water in the Aquiler. This streamflow or lake source includes the drainage area of the Spokane River-Coeur d'Alene Lake Basin (approximately 3,000 square miles) and, therefore, encompasses the area to be designated a "sole source." Some recharge occurs from precipitation on the Aquifer but the major recharge comes from Spirit Lake, Tain Lakes, Eayden Lake, Coeur d'Alene Lake, Hauser Lake, Newman Lake, Liberty Lake, Spokane. River and miscellaneous tributara. streams from secondary upland flow onto the Aquifer recharge zone. The area includes much of the counties of Rootenti, Benewah and Shoshone, Idaho and Spokane, Wash, and parts of the counties of Lincoln and Whitman, Wash., and Latch and Clearwiter. Idaho.

The designatesic area includes the drainage and recharge areas to the Aquiler. The surface water drainage basin above the Pand Orellie Lake, (22,900 square miles) is not included within the designated area because recharge from Pend Orelile Lake to the Aquifer is small (about 50 cubic feet per second). It is doubtful that a project located in the drainage basin above the outlet of Pend Oreille Lake could significantly impact the Aquifer.

The ground-water divide between. the Aquifer and the Pend Oreille. River Basin is not accurately known. Therefore, this short stretch of the [6560-01] boundary has been determined by applying the best hydrogeological judgment contained in the background document prepared by the U.S. Geological Survey.

The data upon which these findings are based are available to the public and may be inspected during normal business hours at the office of the Emvironmental Protection Agency, M.S.

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605, Region X. 1200 Sixth Avenue, Seattle, Wash. 98101, and at the follow-ing public libraries: Spokane, West 906 Main Street, Spokane County, East 11811 First Avenue, Wash., and 702 Lakeside, Coeur d'Alene, Idaho. The data include

(1) Maps outlining the Spokane Valley-Rathdrum Prairie Aquifer, the recharge zone and the streamflow source sone (major replenishment srea):

(2) The exact coordinates of the designated area which includes the recharge zone and the streamflow source sone:

(3) A copy of the transcript of the public hearing and copies of public comments and

(4) A technical support document. for designation of the Spokane Valley-Rathdrum Prairie Aquifer under section 1424(e) of the Safe Drinking Water AcL

A copy of the above documentation is also available at the U.S. Environment Protection Agency, Office of Public Awareness, 401 M Street SW., Washington, D.C. 20460.

The proposed National Regulations for Implementation of section 1424(e) of the Safe Drinking Water Act (Pub. L. 93-523, France Ricistra dated September 29, 1977) contain the procedures for review of Federal Huancially maxisted programs or actions which hasy contaminate "Sole Source" aquifers through the recharge zone so as to create a significant hazard to public health.

EPA Region X is working with the Pisteral agencies, which may in the mear future fund projects in the area of concern to EFA, to develop interagency procedures whereby EPA will be motified of proposed commitments for projects which could contaminate the equifer. Although the project review process cannot be delegated the Regional Administrator in Region Z will rely to the maximum extent possible upon any existing or future State and local control mechanisms in protecting the ground-water quality of the Spo-Prairie Valley-Rathdrum ERne Aquifer. -

Dated: January 31, 1978.

Dorglas M. Costle ... - Administrator.

IFR Doc. 78-3478-Filed 2-8-78; 5:45 am)

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[FRL 651-4; OPP-66041]

PESTICIDE PROGRAMS .

Eunschation of Registration of Postickin Products

Fursuant to section 8(2)(1) of the Federal Insecticide, Funcicide, and Rodenticide Act (FIFRA), as amended '(86 Stat. 973, 89 Stat. 751, 7 U.S.C. 136(a) et seq.), the firms listed below have requested that the Environmental Protection Agency (EPA) cancel the registrations of several pesticide products Such cancellation shall be effective within 30 days after receipt of a certified letter from EPA or publication of this notice in the Propul REGISTER, Whichever occurs later. unless the registrant or an interested person with the concurrence of the registrant, requests that the registration be continued in effect.

The Agency has determined that the distribution and sale of stocks of these products which were in existence on the effective date of cancellation would not be inconsistent with the purposes of FIFRA and would not have an unreasonable adverse effect on the environment. Pursuant to section 6(a×1) of FIFRA, therefore, the distribution and sale of existing stocks of these products shall be permitted until the supply is exhausted or for one year from receipt of the notice of intended cancellation sent to each registrant by certified mail, whichever occurs earlier, Provided, That these products shall be used only in a manner consistent with the label and labeling registered with EPA

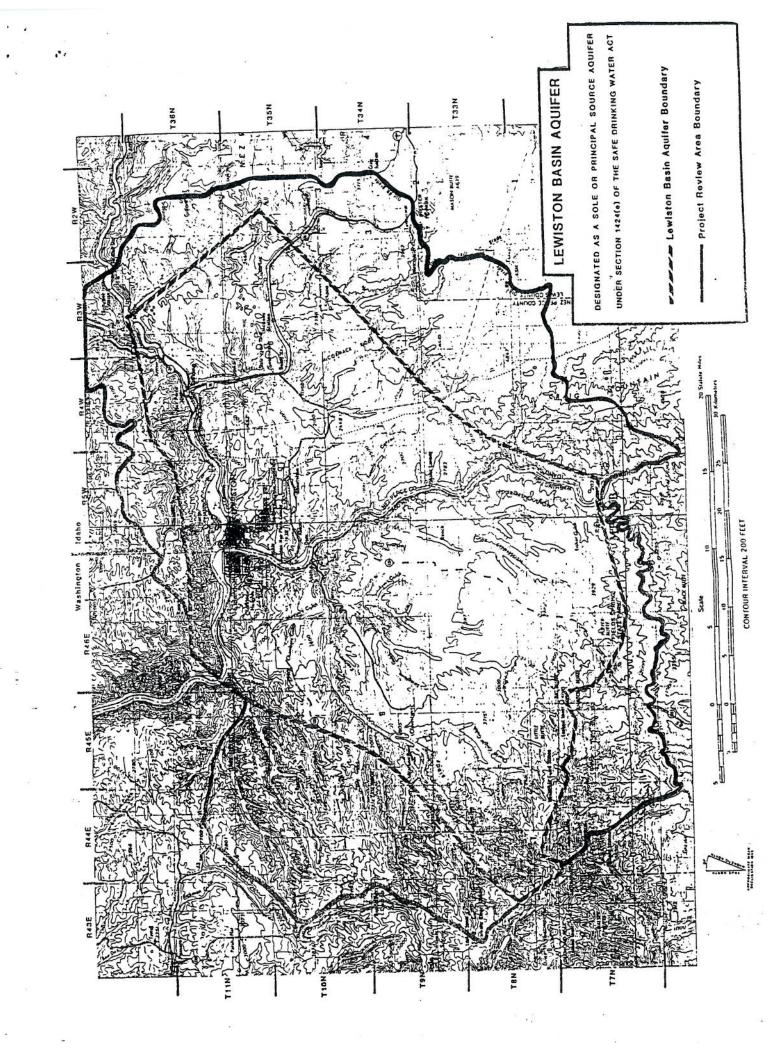
Requests that the registration of these products be continued may be submitted in triplicate to the Product Control Branch, Registration Division (WH-567), Office of Pesticide Programs, EPA, 401 M Street SW., Wash. ington, D.C. 20460. Any comments filed regarding this notice of intended tancellation will be available for public inspection in the office of the Freduct Control Branch from 8:30 sim to 4 pin Monday through Friday.

The registrants concerned and the products effected by this action are listed below.

Dated: February 2, 1978.

EDWIN L. JORDISON. Deputy Assistant Administrator for Pesticide Programs.

XPA Aug. No.	Product name	Registrant
4-137	Ronide Paris Green Pallets Mosquito Larracido	Benide Chemical Co., 2 Furz Are_ Torkville, N.Y. 13495.
E3-15	Repellent Outdoor Spray.	The Hypenex Co. Inc. P.O. Box 4500, Copley. Ohio 64321.
1:5-199	Celty Garden-	Cibs-Geley Corp., Agricultural Director, P.O. Box 11422.
	• •	Greensboro, N.C. 27409
180-30	Revieteb Maiathles	W. T. Rawleigh Co. 223 East
*	Insecticide Providered	Maio St. Freezon III. 61032



[FRL-3457-2]

Sole Source Designation of the Lewiston Basin Aquitor, Asotto sad Garfield Counties, WA, and Rex Pares and Lewis Counties, 10

AGENCY: U.S. Environmental Protection Agency.

ACTION Final determination.

SUMMARY: Pursuant to section 1414(e) of the Safe Drinking Water Act, the Region 10 Administrator of the U.S.

Environmental Protection des Acquiller in pasts of id Washington, is be cirinking water for the and that the aquille, it would create a signific public health. As a result of this indexal financially and shall probable seposed in the project review area w a mobject to EPA review to sense that these projects are designed and constructed so that they do not creats a significant barard to public beals. EFFECTIVE DATE This determination should be promutented for perposes of bedicial review at 1:00 p.m. Epstern throu na October 17, 1986 appreciated The data poor which these findings are based say available to the public and may be inspected design mercul buriness boses at the Assets County Library, Main Branch, Sixth and Chestout Clarkston, Washington Assotin County Library, Heights Branch. 2008 Fourth Avenue, Carloon, Washington; Nex Perce County Library. Lapwai Branch, 108 Maie Street Lapwel Idaba Lewiston City Library Taceminicum Branch, 422 Thaine Road. Lewiston Idaho: Lewiston City Liberty. Cornegie Branch, Piouser Fack, Lawiston Idaha: EPA Idaho Operations Other, 422 West Washington Street. But a Idabec and EPA Region 199 Library, 1200 Sixth Avenue Sweet's, Washington.

FOR FUETHER MECONNATION-CONTACT. Jonathan Williams at (208) 662-1541 of PTS 399-1561.

Cupplementary byformatikes Plotice is hereby given that pursuant to exction 1424(e) of the Sale Drinking Water Act [-2 U.S.C., 3081, 3001-364], Pub. L. Se-523] the Region 20 Administrator of the U.S. Environmental Pretaction Agency has determined that the Lawiston Besin Aquifer located in Asocia and Garfield Counties, Washington, and Nan Perce and Lewis Counties, Idaho, is the principal source of drinking water for much of the souther service sress. Pursuant to section 1424(e), inducal financially-assisted projects proposed for construction to the project review. area will be subject to BPA reviews.

### L Backgrowni

Section 1424(s) of the Sale Lichking Water Act states: "If the Administrator determines, on his own initiative of upon petition, that an area has an equiter which is the sole or principal drinking water source for the same and which, if contaminated, srould create a significant hazard to public health, he shall publish notice of that;

Affer the publication of such notice, no commitment for indexed femancial againstance fibrough a grant, centrant, loan guarantee, or otherwise; may be entered into fer any project which the Administrator determines may contaminate such aculiar through a recharge zone so as to cream a significant hazard to public health, but a commitment for federal financial assistance may, if authorized maker another provision of the law, be entered into to plan or design the project to assure that it will not so contaminate the equilies."

On December 27, 1987, the Region 19
Office of the U.S. Environmental
Protection Agency (EPA) received a
petition from the Asotin County Public
Gillity District (PUD) requesting that
EPA designate the "Russell Aquifer" as
a sole source aquifer. The PUD provided
additional information through a revised
petition which was received by EPA sa

Fohrwary 1, 1988.

The "Russell Aquifer" was defined so the upper 600 feet of the Grande Roads Formation within the Lewiston Basin by a hydrogeological report published in 1982 EPA has combined the Grande Roade Formation with other waterbusing rocks of the Lewiston Basis and labeled the aquifer system as the Lewiston Basin Aquifer.

In order to obtain public comment. EPA distributed a press release on Mag 4, 1000, stating that (1) the EPA Regional Office was considering designation of the Lawiston Basin Aquifer as a sole source aquifer. (2) a Resource Document courserizing the bases for the proposal was evallable for review, (3) public comments were being requested and (6) a public bearing was to be held on hisy 17, 1988. Legal notices, announcing distribution of the Resource Document. the public bearing, and the closure date for public comment, were printed in the Lewiston Tribune on May 9, 1982, and the Clarkston Valley American on May 12, 1986. The public bearing was hold in Clarkston, Washington, as scheduled. and the public comment period remained open until June 2 1988

On May 31, 1966. EPA received a letter from the Idahe Water Resource Board which requested a 60 day extension of the public comment period. EPA granted the request. An additional public assetting was conducted in Lawiston, Idaho on July 19, 1968. Written testimony was received through August 5, 1968.

### H. Besis For Deterroination

Among the determinations which the Regional Administrator must make in connection with the designation of so

area under section 1424(e) are: (1) Whether the aquifer is the sole or principal source of drinking water in the area, and (2) whether, if contaminated, a significant hazard to public health would result.

Based on the information available to this Agency, the Regional Administrator has made the following findings, which are the bases for the determination noted above:

1. The Lewiston Basin Aquifer directly supplies about 68 percent of the drinking water used in the area.

2. No economically feasible alternative drinking water sources exist within the area or nearby which could supply all those who now depend upon the aquifer as their source of drinking water.

3. Since the aquifer system represents the principal source of drinking water for the area, contamination of the equifer would pose a significant hazard to public health.

### III. Description of the Lewiston Basin Aquifer

(Information in this section represents en unfootnoted summary of meterial from: Support Document for Designation of the Lewiston Basin Aquifer as a Sole Source Aquifer, issued in September of 1988 by the Region 10 Office of Ground Water.)

The Lewiston Basin covers approximately 500 square miles of southeestern Washington and western north-central Idaho, including part of the Nez Perce Indian Reservation. The structural and topographic basin, bounded by faults and anticlinal folds. represents a ground-water basin within

the Columbia Plateau.

Basalts of the Columbia River Group, and especially those of the Grande Ronde Formation, store and transmit most of the ground water in the Lewiston Basin. The basalt itself iz dense and impermeable to water, but the basalt flows are fractured throughout. Most ground water moves laterally along flow tops (composed of vesicular and broken basalt formed by rapid cooling at the top of the flow), but some water also moves between flow tops through the entablature and colonnade. Very thin basalt flows may consist only of a flow top and an intensely fractured base which forms a good hydrologic connection with the underlying flow top. The center pordions of thick flows, although not impermeable, may restrict vertical ground-water movement enough to act as confining beds.

Sedimetary deposits between basalt flows, called interbeds vary greatly to their thickness and ability to transmit

water. Ground water moves seeily through course-grained interbeds but hardly at all through fine-grained units. Fine-grained interbeds, which act as confining units, occur commonly in the Wanapum and Seddle Mountains Formations but rarely between flows of the Grande Ronde Banelt,

Unconsolidated sedimentary material. composed mostly of gravel and sand with some sift, covers much of the triangular lowland at the confinence of the Snake and Clearwater Rivers, and perm of the Lapwai Valley. The unconsolidated sediments do transmit water to the underlying baselt and, where adequate recharge exists, form water table aquifers atop the besalt

aquifer system.

Major faults and anticlinal folds form most of the hydrogeological boundaries of the Lewiston Basin. Faults act as ground-water barriers by offsetting highly permable flow tops. Also, the pulverized rock in the fault some weathers to form a clay-rich plane for low permeability. Tight folds, caused by stress intense enough to severely deform the baselt, but not so strong as to offset the beds. Crush and compact the flow tops so that they transmit water much more slowly. Major anticlinal folds. where the strata dip downward from the fold axia, also act as regional groundwater divides. Faults and anticlinal folds, as mapped by the U.S. Geological: Survey and Idaho Burean of Mines and Geology, form all but the southwestern boundaries of the ground-water besin The southwestern boundary has been drawn along a major topographic divids in the Blue Mountains which acte as a regional ground-water divids. No water budget studies for the busin, which would serve to check the hydrogeological significance of the boundaries, have been published.

Rivers and creeks flow across the structural barriers which act as boundaries for the ground-water basin. Federal financially assisted projects located in the drainage basins of surface streems which recharge ground water within the Lewiston Basin may constitute significant sources of contamination to the aquifer. While the entire streamflow source area includes all of the Snake River drainage upstream from Silcott, Washington, only a portion of the streamflow source area immediately adjacent to the groundwater basin has been delinested for

project review purposes.

The boundaries of the project review area, which are shown on a 1,250,000 scale map in the Support Document, are as follows: Beginning west from the confluence of the Grande Roude and Snake River up to the Grande Ronde

River to Menatchee Creek north up to Menatchee Creek to the ridge separating Menatchee Creek and Saddle Spring Creek northwest along the ridge separating the two creek basins, over Mt. Horrible, to the unimproved road between Saddle Spring and Misery Spring northwest along the road to Clearwater Range Station; north along the ridge road separating the Charley and Pataha Creek besins to the intersection of Washington state highway 128, about 2 miles west of Peola; nowthwest about three miles to the Sweeny Gulch Road; northwest on the Sweeny Guich Road, which generally follows the ridge between the Pataha and Alphowa Creek basins, to U.S. Highway 12; east along Highway 12 to where the Vista Fault trace crosses the highway, about 1 mile east of the Head of Pow Wah Kee guich and about 2 miles west of Silcott, Washington; northeast and east along the Vista Fault, as mapped by the U.S. Geological Survey, to a high-duty, mostly unimproved road which extends from U.S. Highway 195 to the north side of the Snake River, northeast along the road to U.S. Highway 195; southeast on U.S. Highway 195 to its intersection with U.S. Highway 95; northeast on U.S. highway \$5 about 6 miles to the light-duty road which heads east to Catholic Creek: east, southeast, and east along the road to Catholic Creek; north along the Catholic Creek Road about 2 miles to its intersection with the road to Howard Gulch; east to Howard Gulch and then north along the Howard Gulch Road to the Nez Perce-Latah County line, east along the latitude of the county line about 7 miles, across Idaho state Highway 2, to the light-duty road which reaches the north bank of the Clearwater River about 1 mile downstream from the where Pine Creek meets the Clearwater, south on that road to the Clearwater River; southeast for 2 miles along a prominent ridge to the road between Cottonwood Creek and the town of Summit south and east to Summit south along the road through the towns of Gifford and Lookout to the town of Reuban; south along the reilroad between Ruban and Craig Junction; generally southwest along an old railroad grade to its end about 4 miles southeast of Soldiers Meadow Reservoir, west along the unimproved road to Craig Mountain: south along the unimproved Craig Mountain Road, and then southwest to the Snake River along the unimproved road which reaches tha river about 1 mile upstream from Shovel Creek Rapids; north to the confluence of the Grande Ronde and Sneke Rivers, the point of beginning.

THE SHEETS WELLER THE

On a grand scale, ground water moves from the high elevation areas of the Lewiston Basin, mostly through the basalt flow tops, towards the lower elevation areas of the basin.

Generalized water level contours for the Grande Ronde Basalt range from ever 5000 feet near the crest of the Blue Mountains to less than 800 feet along the Snake River. However, geologic features within the basin act to intercept, direct, or dramatically slow the ground water as it moves through the gently sloping basalt beds.

Recharge to the Lewston Basin squiser system occurs principally from streamflow infiltration. Streamflow infiltration to the basali aquifers occurs mostly where rivers and crooks flow over basalt flow tops, which happens where basalt beds dip more steeply than the surface drainage gradient. Although no steamflow data have been obtained to measure the amount of recharge, water level records to deep wells in the Lewiston-Clarkston area suggest excellent hydrologic communication between surface water sources and the Grande Ronde Formation.

Precipitation easily recharges the basalt and unconsolidated sediment lying at or near the surface. At lower elevations, however, scant precipitation and high evaporation rates probably allow recharge via precipitation on a sporadic basis only. Precipitation may significantly recharge the basalt aquifers at higher elevations, but hydrogeologic impediments (canyons and dikes) may prevent much of that ground water from reaching the water supply wells in the Lewiston-Clarkston area.

Excess irrigation water, which recharges water table aquifers in the unconsolidated sediments, also partly recharges aquifers of the Wanapum and Saddle Mountains Formations in parts of the Lewiston-Clarkston area. Predominately lateral flow through the upper basalt and fine-grained interbeds combine to prevent most excess irrigation water from percolating to the Grande Ronde Basalt before reaching a discharge point.

Shellow ground water discharges mostly as springs along deeply incised surface drainages, whereas production wells tap much of the deeper ground water in the Lewiston-Clarkston area. Earlier investigations have identified areas where ground water from the Grende Ronde Formation discharged naturally to the Snake River before construction of Lower Grandte Dam. However, with the filling of the Lower Granite Reservoir (February of 1973), the static water levels in wells near the river rose but remained below the elevation of the reservoir uniface. Thus,

it seems that the repervoir now provides perital recharge to the against in the Lewiston-Clarkston area.

Estes of production jurificial discharged from wells within the Grande Ronde Formation are considerable bisher than those from the overlying basalt and unconsolidated sediments. The Asolin County PUD wells produce at rates of 1345 to 4220 gallons per minute [gum] from the top 800 leet of the Grande Ronde Basalt. In contrast, wells completed in the Wanapum and Seddle Mountains Formations average 10 to 30 game.

Public water suprity walls in the Lewiston-Clarkston area produce excellent quality water from the Grande Ronde Formation. The water typically contains fewer than 350 parts per suffice (ppm) total dissolved solids (TDS), and requires no treatment before drinking. The chemistry of water withdrawn from the Grande Ronde Formation appears typical for ground water from the Columbia River Basalt Published reports have documented contaminated ground water in alluvial sediments of Lapwai Creek, probably from septic tank and drain field usage.

Aquifer units within the Lewiston
Basin are vulnerable to contamination
for one or more of the following reasons:
(1) They occur at or near the surface,
where precipitation, excess irrigation,
and other artificial recharge can
introduce contaminants to the
subsurfaces; (2) they are extensively
recharged by surface waters; (3) they
are hydralogically connected to nearsurface againers, either naturally or by
wellbores.

The most valuable portion of the Lewiston Basin aguifar system from a drinking water standpoint, the upper 800 feet of the Grande Roade Formatien, is most valuarable to contamination from surface water recharge. Therefore, any project or activity which would threaten the water quality of a possible surface water recharge area would puse a threat to the principal source of drinking water within the Lewiston Basin. The Grande Roade Baselt apolier could also suffer if the overlying water-bearing strata became contaminated.

Aquifers in the microssolidated sediments and upper basalt units are susceptible to contamination from surface activity since they lie close to the surface in the most populous portions of the Lewiston Basin. Possible sources of contamination include improper storage, handling or disposal of hexardous materials, septic tank efficient, storm runoff, perticides, and chemical fertilizers. Although the shallow aquifer units serve far fewer people than the Grande Rends

Formstion, they do serve as the sele assure of drinking syster for misserous households. Also, they are hydrologically connected to the Grande Ronde Basalt (although poorly in many acces). But most importantly, they discharge to surface waters which, in turn, recharge the Grande Rando Formation.

The Lewiston-Clarkston area accesses for most of the drinking water consumed In the Lewiston Basin. The city of Lewiston uses water withdrawn from the Clearwater River for soost of its shirty after soon sheets had about produce from the Grande Ronde Formation for about 17 percent of its consumption. All other public water purveyors in the Lewiston Basin depend entirely upon wells which produce from the Grande Ronde Formation. Private users, such as food processors, who sepend upon large volumes of high quality water derive their supplies exclusively from wells completed in the Grande Ronde Basalt Individual households which need only small quantities of ground-water utilize the baselts and sediments which overlie the Grande Ronde Formation. Overall. ground water supplies about 68 percent of the water consumed within the basin. which is well above the 50 percent required for sole source designation.

Surface water supplies capable of serving the Lewiston Basin are physically and legally available, but rizing the available surface water would be economically infeasible. The main water purveyors for the area, the city of Levelston and the Asotin County PUD. have water rights which would allow them to legally withdraw enough surface water to supply the whole area. In fact, the Asotin County PUD alone has legal access to approximately 43 million gallons per day from the Snake Riverenough to supply the peak water usage for the entire basin. However, public and private water purveyors have not fully utilized surface water sources because the Grande Rende Basalt provides higher quality water at a far lower cost. Surface water from the Snake and Clearwater Rivers requires filtration and disinfection before municipal use. Also, surface water treatment, storage, transmission and distribution facilities cost considerably more to build and operate than systems using high quality ground water.

In order to be considered
"economically feasible", according to
EPA guidelines, an alternative water
source must not sost the typical
household more than 0.4 to 6.5 percent
of the average annual household income
for the area. Conservative cost estimates

serated by the Asonn county room licate that the cost of using surfaces iter render that atternative source momically infeasible for all the public iter-purveyors in the basin. The cost replacing individual homeowner wells the surface water supply would be asiderably higher.

### roject Review

When EPA publishes a determination a sole or principal drinking water arce, the consequence is that no nmitment for federal financial istance may be made if the ministrator finds that the federal ancially-assisted project may staminate the aquifer through a harge zone so as to create a nificant hazard to public health [Sefe nking Water Act section 1424(a), 42 i.C. 300h-3(e)]. In many cases, these ieral financially-assisted projects may o be analyzed in a National vironmental Policy Act (NEPA) ament. 42 U.S.C. 4332(2)(c). to streamline EPA's review of the mible environmental impacts upon ignated aquifers, when an action is slyzed in a NEPA document, the two iews will be consolidated, and both horities will be cited. The EPA iew under the Safe Drinking Water t of federal financially-assisted jects potentially affecting sole or ncipal source aquifers will be luded in the EPA review of any NEPA nument accompanying the same eral financially-assisted project. The er transmitting EPA's comments on nal Environmental Impact

nent to the lead agency will be the side for informing the lead agency of A's actions under section 1426(e).

# Discussion of Public Comment

turing the initial public comment iod. comments were submitted by the r Perce Tribe, the Idaho Water source Board, and the Snake River servation Council. The Nez Perce be submitted information by phone about the present and ected population of the Lapwei lley which suggests that ground water l become an increasingly valuable ource in the area, referred EPA to a te agency in an effort to document es of ground-water contamination. i requested that implementation of sole source program respect their ereign status. The Idaho Water source Board requested that the bic comment period remain open for additional 60 days so that they could ther evaluate the proposal. The Snake re Preservation Council wrote to mess their support for the proposed monation.

The comments from the New Perce Tribe, although neither in support of or opposition to designation, are interpreted to underscore the value of ground-water protection in the Lewiston Basin EPA will respect the Nex Purce Tribal authority and work appropriately with the Tribe on an equivalent basis as with state and local jurisdictions. implementation of the project review portion of section 1424(e) of the Bate Drinking Water Act will occur through memoranda of Understanding (MOUs) between EPA and federal funding agencies. These MOUs will identify the types of projects EPA will review, and will specify timetranes for project reviews. Therefore, EPA will work directly through federal funding agencies on project review decisions and with local state, and tribel governments on program coordination.

in response to the idaho Water Resource Board, EPA reviewed its efforts to publicize the proposed action and make the Resource Document available to public officials, interested agencies, and the general public. The ... Agency is satisfied that appropriate steps were taken to enlist public comment. The technical criteria for evaluation of the aquifer for determination as a principal source of drinking water supply for the squifer vervice area are well defined to EPA guidelines which were published in February 1987. The petitioners documented through their analysis that the aquifer meets the criterie for principal source definition. Region 10 offered to brief the Water Resource : Board or its individual members. No new data were presented or suggested as being available. Nevertheless, EPA granted the request to extend the public comment period. Delaying the designation decision precluded local, state and tribal jurisdictions from eligibility to apply for sole source aquifer demonstration grants. To date, however, Congress has not appropriated any of the authorized funds.

During the extended public commentperiod. EPA received comments from the Nez Perce Tribe, the Asotia County Public Utility District (FUD), the Lewiston Orchards Irrigation District and the Idaho Water Resource Board. The Nez Perce Tribe confirmed in writing some of the comments submitted by telephone on June 2, 1988. The Asotin County PUD submitted a cost estimate addendum which demonstrates that the cost of replacing ground water with available surface water would be even higher than originally calculated. The Lewiston Orchards Irrigation District wrote in support of sole source

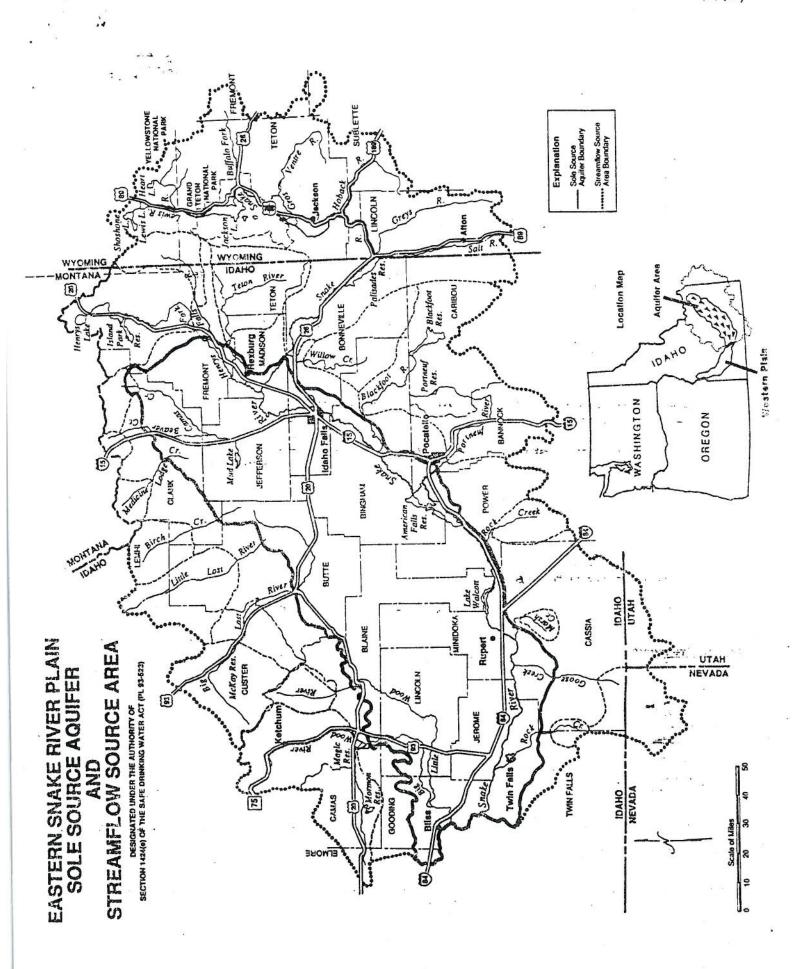
designation, arging the Regional
Administrator to make a determination
by June 18, 1988. The idaho Water
Resource Board wrote to communicate
continuing reservations about the
proposed designation, although the
Board stated that they "will not oppose"
sole source designation of the Lewiston
Busin Aquifer.

### VL Summery

Today's action only affects the Lewiston Basin Aquifer in Asotin and Garfield Counties, Washington, and Nez Perce and Lewis Counties, Idaho. This action provides a review process to ensure that necessary ground-water protection measures are incorporated into federal financially-assisted projects. Roble G. Russell,

Date: September 18, 1988. [PR Doc 85-22822 Filed 8-30-80; 8:45 am] 531.000 0000 0000-00-00

Resignal Administrator.



# ATTACHMENT B

Projects that need not be referred to EPA:

Resurfacing; lighting; signing; pavement marking; guardrail; signalization; freeway surveillance and control system; railroad protective devices; glare screening; median barriers; energy attenuators; and the temporary replacement of highway facilities damaged by natural disasters or catastrophic failures.

## ATTACHMENT C

Federally-funded projects within the designated aquifer listed below shall be submitted to EPA for evaluation and comment:

- 1. All projects documented by an Environmental Impact Statement or those which indicate in the environmental assessment possible adverse impacts on the aguifer.
- 2. All projects that include:
  - a. Addition of drainage wells, detention or retention basins or new wetland areas;
  - Extensive grading and/or blasting;
  - Rest areas, weigh stations or scenic overlooks with new expanded sewage disposal stations;
  - d. Use of any pesticides, herbicides, or fertilizers in excess of the labeling requirements for application methods and rates.
  - e. Clean-up or containment facilities for trucks leaking substances that are or may be hazardous materials or petroleum products, or
  - f. Opening of a new material source which could result in a potential contamination or in the use of mining tailings or aggregates containing radon gas.
- 3. Other projects in which FHWA determines may impact the aquifer.

# August 1987

# MATIONAL PRIMARY DRINKING WATER REGULATIONS? (40 CFR Part 141)

	•	•
Inorganics	Arsenic	
	Barium	0.05 mg/l
	Ca dan fum	1.0 mg/1
	Chromium	0.010 mg/1
	Lead	0.05 mg/1
	Mercury	0.05 mg/1
	Mitrate (as N)	0.002 mg/1
	Selenium	10 mg/1
	Silver	0.01 mg/1
	Fluoride	0.05 mg/1
Pesticides	Endrin	4 mg/1
		0.0002 mg/7
	Lindane :	0.004 mg/1
	the choxychiop	0.1 mg/1
	Toxaphene	0.005 mg/1
	2,4 - D	0.1 mg/1
Minnellation	CALL DILVEY	0.01 mg/1
Microbiological	Coliform bacteria	1/100 ml =
Physical/Microbiological		1 RTU **
Radiological	Radium - 226 + radium - 228	
	Gross alpha particle activity	5 pC1/1
	Beta particle and photon padiosecusa.	15 pC1/1
Volatile Organics	Beta particle and photon radioactivity Total Tribalomethanes	4 mrem(annual dose 3qu
185	Trichloroethylene	U. 10 mg/1
	Carbon Tetrachloride	.005 mg/1
	1,2 Dichioroethane	.005 mg/1
. 66.5	Vinyl Chloride	-005 mg/l
•	Benzene	.002 mg/1
	para - Dichlorobenzene	-005 mg/1
	1,1 - Dichlorosthylene	.075 mg/1
	1 1 1 Yelehlausehlaus	.007 mg/1
	1,1,1 Trichloroethane	0.2 mg/1
		중요

\* as a monthly average; individual samples may be higher " up to 5 KTU in some circumstances

# HATIONAL SECONDARY DRINKING WATER REGULATIONS<sup>2</sup> (40 CFR Part 143)

Chloride	250 mg/1
Color	15 color units
Copper	1 mg/1
Corrosivity	
Foaming Agents	Mon-corrosive
	0.5 mg/l
Iron	0.3 mg/1
Manganese	0.05 mg/1
Odor	9.05 mg/1
	3 threshold odor number
PH	6.5 - 8.5
Sulfate	250 mg/1
TDS	\$00 mg/1
Zinc	
Fluoride	5 mg/1
F1801108	2 mg/1

1) Regulated for health concerns
2) Regulated generally for aesthetic concerns

# EPA PRIORITY LEACHERS (Current as of October 21, 1987 but could change)

acilinorfen	gamma-chlordane	disulfoton	metribuzin DA
alachior	chlorothaionii	distillation stillane	metribuzin DADK
aldicarb	cyanazine	diuron	metribuzin DK
aldkarb suifone	cycloate	endrin	nitrates
aldicarb sulfoxide	2.4-0	ethylene dibromide	oxamyl
2metryn	dalapon	510	pentachlorophenol
atrazine	dibromochioropropane	fenamiphos sulfone	pichloram
atrazine, dealkylated	DCPA	fenamiphos sulfoxide	pronamide metabolite.
paydon	DCPA acid metabolites	fluormeturon	RH 24.580
bromacil	diazinon	heptachlor	propachlor
butylate	dicamba	heptachlor epoxide	propazine
carbaryi	5-hydroxy dicamba	hexachiorobenzene	propham
Carbofuran	3.5-dichlorobenzoic	hexazinone	simazine
carbofuran-30H	acid	methomyl	2.4.5-T
Carboxin	1.2 dichloropropane	methoxychlor	2.4.5-TP
carboxin sulfoxide	dieldrin	methyl paraoxon	tebuthiuron
chloramben	diphenamid	metolachlor	terbacil
alpha-chlordane	dinoseb	metribuzin	trifluralln .