Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
A Simple Stochastic Model Predicting Conservative Mass Transport Through the Unsaturated Zone Into Groundwater	John A. Hoopes, John A. Brasino, UW-Mad	07/30/1985- 06/01/1986	DNR	WR85R 015	1
Groundwater Monitoring Project for Pesticides	Jeffrey K. Postle, Kevin Brey, DATCP.	08/13/1985- 06/30/1990	DNR	WR85R 007	2
Fate of Aldicarb Residues in a Groundwater Basin Near Plover, Wisconsin	George J. Kraft, WGNHS.	12/05/1985- 06/30/1988	DNR	WR85R 010	3
Volatile Organic Compounds in Small Community Wastewater Disposal Systems Using Soil Absorption	William C. Boyle, William C. Sonzogni, James C. Converse, John A. Hoopes, James O. Peterson, E. Jerry Tyler, Bruce A. Greer: UW- Mad	10/25/1985- 06/30/1986	DNR	WR85R 023	5
The Use of Groundwater Models to Predict Groundwater Mounding Beneath Proposed Groundwater Gradient Control Systems for Sanitary Landfill Designs	John A. Hoopes, Kathleen O. Slane, UW- Mad.	09/30/1985- 06/30/1986	DNR	WR85R 014	6
Evaluation Techniques for Groundwater Transport Models	John A. Hoopes, Howard Trussell, UW-Mad.	09/25/1985- 06/30/1986	DNR	WR85R 013	7
West Bend Area Road Salt Study	Marianna Sucht, DNR	1986-1991	DNR	WR85R 003	8
The Prediction of Nitrate Contamination Potential Using Known Hydrogeologic Properties	Douglas S. Cherkauer, Cynthia L.W. Cruciani, Univeristy of Wisconsin- Mil.	11/25/1985- 06/30/1987	DNR	WR85R 020	10
Investigation of Hydrogeology and Groundwater Geochemistry in the Shallow Fractured Dolomite Aquifier in Door County, Wisconsin	Kennth R. Bradbury, Maureen A. Muldoon, WGNHS. Margaret C. Blanchard, UW-Mad	03/06/1986- 06/30/1990	DNR	WR85R 022	12
Groundwater Quality Monitoring - Long Term Effects of Intensive Farming and Sprinkler Irrigation on Groundwater Quality	Phil Kammerer, United States Geological Survey	1986	DNR	WR85R 011	15
The Effect of Construction, Installation and Development Techniques on the performance of Monitoring Wells in Fine Grained Glacial Tills	Douglas S. Cherkauer, Carl D. Palmer, Duane G. Paul, UW-Mil.	10/01/1985- 06/30/1986	DNR	WR85R 019	16
The Occurrence of Volatile Organic Compounds in Wastewater, Sludges and Groundwater at Selected Wastewater Treatment Plants in Wisconsin	Carolyn Hunger, John Melby, DNR	1985	DNR	WR85R 012	18
Fate and Mobility of Radium-226 in Municipal Wastewater Sludge Following Agricultural Landspreading	Thomas L. Portle, Carolyn Hunger, DNR	1985	DNR	WR85R 008	19
Data Management - No report		<u> </u>			20

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Hydrogeology of the Wisconsin River	Kenneth R. Bradbury,	05/01/1986-	DNR	WR85R	22
Valley in Marathon County, Wisconsin	WGNHS. Eloise Kendy, UW-Mad.	06/30/1986		021	
Treatment of Cheese Processing	William Boyle, Frederic	1985	DNR	WR85R	23
Wastewater by Ridge and Furrow Disposal -	J. Doran, UW-Mad.	1985	DIVIN	025	23
Nitrogen Transformations	S. Boran, O.V. Maa.			023	
Environmental Investigation of the City	Thomas P. Van Biersel,	01/30/1986-	DNR	WR85R	24
of Two Rivers Landfills, Manitowoc County,	Michael R. Noel, Hydro-	06/30/1987		002	
Wisconsin	Search Inc.				
Groundwater Quality and Laundromat	Jack G. Saltes, Ed Kruel,	1985	DNR	WR85R	29
Wastewater: Summit Lake, Wisconsin	DNR			005	
Barron County Nitrate Study	Dave Hanson, William McKinley, DNR	1985	DNR	WR85R 017	37
Volatile Organic Compound	Thomas Witthopf,	1985	DNR	WR85R	41
Contamination of Private Water Supplies	Environmental Health			001	
Adjacent to Abandoned Landfills in Marathon	Division-Marathon				
County	County				
Graphical and Statistical Methods to	Kenneth W. Potter, Iris	08/30/1985-	DNR	WR85R	14a
Assess the Effect of Landfills on Groundwater	Goodman, UW-Mad.	06/30/1987		006	
Quality					
Field Investigation of Groundwater	John A. Hoopes, Laurie	01/21/1985-	DNR	WR85R	17a
Impacts from Absorption Pond Systems Used	Parsons, UW-Mad.	06/30/1986		016	
for Wastewater Disposal					
A Case Study of Nitrogen	William C. Boyle, John	11/15/1985-	DNR	WR85R	17b
Transformation at a Rapid Infiltration	A. Hoopes, John	06/30/1986		024	
System Used for the Disposal of Food	Niewoehner, UW-Mad.				
Processing Wastewater					
Filtration Preservation Study of	David Sauer, John	1985	DNR	WR85R	21a
Groundwater Samples	Schwalbe, DNR			004	
Monitoring of Volatile Organic	Charles J. Krohn	1985	DNR	WR85R	31a
Compounds in Tomah, Wisconsin				009	
Hydrogeological Investigation of VOC	Jim Anklam, William J.	1985	DNR	WR85R	31b
Contaminated Private Wells Near Hudson,	Evans, DNR			026	
Wisconsin					_
Volatile Organic Compounds in	Marci A. Friedman, DNR	1985-1987	DNR	WR85R	4a
Groudwater and Leachate at Wisconsin				018	
Landfills	Labor D. Timbers 1004 Face	1007 1000	DND	WDOCD	11
Nitrate Contamination in West-Central	John R. Tinker, UW-Eau	1987-1990	DNR	WR86R	11
Wisconsin with Emphasis on Mil.l Run First Edition Subdivision	Claire			002	
Lead Migration from Contaminated Sites	James J. Wiersma,	08/07/1986-	DNR	WR86R	13
- Door County, Wisconsin	Ronald D. Stieglitz, UW- Green Bay	09/30/1988	DINK	001	13
North-Central District Gas Probe Purchase					25
				-	7 <i>c</i>
Lake Michigan District Maplewood Investigation					26
Lake Michigan District Green Bay					27
Terminal Study					

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Hydrogeologic Investigation and Groundwater Quality Assessment (Havenswood Landfill)	Pratap N. Singh, Mil.ler Consulting Associates, Anthony R. Pawloski, Mil.ler Consulting Engineers	1986	DNR	WR86R 003	28
Flambeau Paper Sulfite Lagoon Site Contamination Study	William Lantz, Dan Detroit, DNR	07/08/1986- 08/15/1986	DNR	WR86R 006	30
Computer Purchase					32
SIR System Purchase					33
Lake Michigan Districe Well Conversion					35
Lake Michigan District Well Abandonment					36
Downward Movement of Water Below Barnyard Grass Filter Strips - Case Studies	Gary D. Bubenzer, James C. Converse, John W. Patoch, UW-Mad.	08/26/1986- 09/30/1988	DNR	WR86R 008	39
1987 Volatile Organic Compound Testing Project in Rock County, Wisconsin	David Holman, Environmental Health Division, Rock County	1986	DNR	WR86R 007	40
Investigation of Large Scale Subsurface Soil Absorption Systems	Daniel Peerenboom, DNR	11/13/1986- 06/30/1987	DNR	WR86R 004	42
Characterization of Groundwater Impacts at an Above Ground Petroleum Storage Terminal	Gregory T. Becker, Robert K. Ham, UW- Mad.	08/13/1986- 06/30/1987	DNR	WR86R 010	43
Plover Area Nitrate Study	Fred Bailey, DNR	1986	DNR	WR86R 011	48
Research and Data Analysis of Groundwater Contamination from Municipal Rapid Infiltration Land Disposal Systems	William C. Boyle, John A. Hoopes, Kenneth W. Potter, John Schwalbe, UW-Mad.	1986	DNR	WR86R 009	56
Groundwater Survey of Bacterial Contamination Near Rapid Infiltration Wastewater Treatment System	Chris Norenberg, Jon Standridge, Wisconsin State Laboratory of Hygiene	1986	DNR	WR86R 005	21b
Sealing Characteristics of Sodium Bentonite Slurries for Water Wells	Tuncer Edil, Michael M.K. Chang, AhMad. S.H. Mahanna, L.T. Lan, UW-Mad.	07/27/1987- 06/30/2988	DNR	WR87R 008	34
Mutagenic Effects of Selected Toxicants Found in Wisconsin's Groundwater	Lorraine F. Meisner, UW- Mad David A. Belluck, DHSS. Boyd Roloff, UW- State Laboratory of Hygiene	08/01/1987- 12/31/1989	DNR	WR87R 007	38
Lead Contamination Study of Door County	Rick Stoll, DNR	1987	DNR	WR87R 002	44
North-Central Sand and Gravel Mining					45
Devil's Lake Soils Work					46

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Analytical Determination of Atrazine Alachlor and Their Selected Degradation Products in Contaminated Groundwater: Implication for Wisconsin Groundwater	William Sonzogni, Wisconsin State Laboratory of Hygiene. Deborah B. DeLuca, UW- Mad	09/1987- 08/1989	DNR	WR87R 003	47
Assessment of Geologic Controls on Groundwater Flow and Distribution in Precambrian Bedrock, Central Wisconsin, Using Remote Sensing and Geophysical Analysis	Donald M. Davidson Jr., Northern Illinios University. Bruce A. Brown,WGNHS	07/13/1987- 06/30/1989	DNR	WR87R 012	49
A Ground Penetrating Radar Study of Water Table Elevation in a Portion of Wisconsin's Central Sand Plain	Mary P. Anderson, Charles R. Bentley, Geoffrey C. Bohling, UW- Mad.	07/22/1987- 06/30/1988	DNR	WR87R 014	50
Mineralogical and Geophysical Monitoring Naturally Occurring Radioactive Elements in Selected Wisconsin Aquifers	Robert W. Taylor, Gregory Mursky, UW- Mil.	07/15/1987- 12/30/1988	DNR	WR87R 006	51
Degradation of Atrazine, Alachlor, Metolachlor in Soils and Aquifer Materials	Gordon Chesters, Geronimo V. Simsiman, Riyadh Fathulla, Bashar J. Alhajjar, Robin F. Harris, John M. Harkin, Jonathan Levy, UW-Mad.	07/10/1987- 09/30/1989	DNR	WR87R 010	52
Evaluation of the Effect of Stormwater Disposal on Groundwater	Byron Shaw, Gerald Nienke, James Berndt, UW-Stevens Point	07/16/1987- 06/30/1989	DNR	WR87R 005	53
Radionuclides in Drinking Water of North central Wisconsin	Chuck Fitzgerald, Bill Dobbins, DNR	1987	DNR	WR87R 009	54
Digital Simulation of Solute Transport to Green Bay and Lake Michigan by Groundwater from Door County, Wisconsin	Douglas S. Cherkauer, Peter McKereghan, Linda Schalch, UW-Mil.	07/1987- 09/1990	DNR	WR87R 011	57
Methods for Determining Compliance with Groundwater Quality Regulations at Waste Disposal Facilities	Kenneth W. Potter, Sarah R. Fisher, UW-Mad.	08/05/1987- 12/31/1988	DNR	WR87R 004	14b
VOC Contamination at Selected Wisconsin Landfills - Sampling Results and Policy Implications	Janet R. Battista, DNR	1988-1989	DNR	WR87R 013	4b
Pesticide Migration Study	Byron Shaw, UW - Stevens Point, and Mike Heitman, UW - Stevens Point	07/01/1989 – 06/30/1991	DNR	WR88R 004	55
Grade A Dairy Farm Water Well Quality Survey	Gary LeMasters, DATCP. Douglas J. Doyle, WASS.	09/02/1988- 06/30/1989	DNR	WR88R 007	58
Demo of low input strategies for potato/vegetable production in irrigated sands	Shaw, Curwen, Kraft, Osborne	07/01/1989 - 6/30/1991	DNR	WR88R 001	59

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Groundwater Quality Investigation of Selected Townships in Jefferson County, Wisconsin	Fred Madison, UW. Andrea Kenter, Wisconsin Geological & Natural History Survey	12/27/1988- 07/01/1989	DNR	WR88R 006	60
Effects of Volatile Organic Compounds on clay landfill liner performance	Edil, Berthouex, Park, Sandstrom	December 20, 1988 through December 31, 1990	DNR	WR88R 008	61
Effect of Soil Type on Atrazine and Alachlor Movement Through Unsaturated Zone	Tommy Daniel, Rick Wietersen, Kevin Fermanich, UW-Mad.	10/05/1988- 06/20/1989	DATCP, DNR,	WR88R 009	62
Designs for wellhead protection in Central Wisconsin	Osborne, Sorenson, Knaak, Mechenich	September 29, 1989 to November 30, 1989	DNR	WR88R 005	63
Subdivision impacts on groundwater quality	Shaw, Ameson, VanRyswyk	07/01/1989 - 6/30/1991	DNR	WR88R 002	67
Optimum Manure Application Rate - Corn Fertility Management and NitrateLeaching to Groundwater in Sandy Soils	Byron Shaw, Paul Trapp, UW - Stevens Point	07/01/1989 - 06/30/1991	DNR	WR88R 003	71
Atrazine Contamination of Groundwater in Dane County, Wisconsin	Bradbury, McGrath	07/01/1989 – 06/30/1991	DNR, DATCP	WR89R 009	64
Sources and Extent of Atrazine Contamination of Groundwater at a Grade A Dairy Farm in Dane County, Wisconsin	Gordon Chesters, UW- Mad., and Jonathan Levy, Miami University	07/01/1989 – 06/30/1991	DATCP, UWS, DNR	WR89R 008	65
Incorporation of County Groundwater Inventory Data into the DNR Groundwater Information Network (GIN)	Bohn	07/01/1989 – 06/30/1990	DNR	WR89R 010	68
DNR and DATCP Rural Well Survey	LeMasters	01/1990 - 03/1991	DNR	WR89R 005	69
Follow Up to the Grade A Dairy Farm Well Water Quality Survey	Cowell, LeMasters	07/01/1989 – 06/30/1990	DNR	WR89R 007	70
Report on Bacteriological Water Quality Monitoring of Door County Variance and Special Casing Approval Wells	Keith Hutchinson, Bruce Urben, and Sue Beaumier, DNR	07/01/1989 – 06/30/1991	DNR	WR89R 006	72
Volatile Organic Compound Attenuation in Unsaturated Soil Above and Below an Onsite Wastewater Infiltration System	Tyler, Peterson, Sauer	07/01/1989 – 06/30/1991	DNR	WR89R 001	73
Variation in Hydraulic Conductivity in Sandy Glacial Till: Site Variation Versus Methodology	Rayne, Mickelson, Bradbury	0	DNR	WR89R 004	74
A Field Evaluation of Drainage Ditches as Barriers to Contaminant Migration	Jean Bahr, Lucy W. Chambers, UW-Mad.	11/16/1989- 09/30/1991	DNR	WR89R 011	75

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Nitrogen Isotope Monitoring at	John Tinker	01/1990 -	DNR	WR89R	76
Unsewered Subdivisions		03/1991		002	
Analytical Determination of Pesticide Metabolites and Carrier Chemicals in Wisconsin Wells	William C. Sonzogni, Michael Eldan, J. Robert Lawrence, Wisconsin Laboratory of Hygiene, UW-Mad.	01/1990 - 03/1991	DNR	WR89R 003	77
Barnyard Management Practices: Effect on Movement of Nitrogen Through Soils and Impact on Groundwater Quality	Byron Shaw, Michael J. Travis, Bryan D. Bowen, UW-Stevens Point. Bob Wilson, Soil Conservation Service. Tim Victor, PCLCC. Dave Jelinski, DATCP.	08/25/1988- 09/30/1990	DNR	WR90R 002	9
Effect of Soil Type, Selected Best Management Practices, and Tillage on Atrazine and Alachlor Movement through the Unsaturated Zone	Lowery, McSweeney, Fermanich, Hart, Wang, Seybold	8/18/89- 12/31/91	DNR	WR90R 011	66
To Expand Groundwater Sampling in the Lower Wisconsin River Valley	Cates, Madison., Postle	07/01/1990 – 06/30/1991	DNR	WR90R 026	78
Crop Rotations Effects on Leaching Potential and Groundwater Quality	J. L. Posner, G. D. Bubenzer, F. Mad., UW- Mad.	06/01/1990 - 12/31/1992	DNR	WR90R 003	80
A Study of the Response of Nitrate and Atrazine Concentrations in Groundwater from Agricultural use on a Sandy, Irrigated Corn Field in the Lower Wisconsin River Valley	Kim Cates, Fred Madison	07/01/1990 – 06/30/1993	DNR	WR90R 010	81
A Comparative Study of Nitrate Loading to Groundwater from Mound, In-Ground Pressure and At-Grade Septic Systems	Byron Shaw, Nancy Turyk	7/01/1991- 6/30/1992	DNR	WR90R 001	82
The Biological Impact of Landfill Leachate on Nearby Surface Waters	William Sonzogni, Jonathon Standridge, and Steven Geis, UW - State Laboratory of Hygiene	07/01/1990 – 06/30/1991	DNR	WR90R 022	83
Dependence of aldicarb residue degradation rates on groundwater chemistry in the Wisconsin Central Sands	George Kraft, Phil Helmke	07/01/1990 – 06/30/1991	DNR	WR90R 014	84
Munipcal wastewater sanitary lagoon project	Kopecky, Portle, Dunn	07/01/1990 – 06/30/1991	DNR	WR90R 015	85
Waupaca County groundwater project: Towns of St. Lawrence and Little Wolf	Wilson, Blonde	7/01/1990- 6/30/1992	DNR	WR90R 000	79a
Bioremediation of Herbicide- Contaminated Soil and Water	Robin F. Harris, UW- Mad.	07/01/1990 – 06/30/1992	UWS	WR90R 018	
Contamination Attenuation Indices for Sandy Soils: Tools for Information Transfer.	Kevin McSweeney, UW- Mad., Fred Madison, Geological and Natural History Survey	07/01/1990 – 06/30/1991	UWS	WR90R 008	

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Facility plan amedment for wastewater		07/01/1990 -	DIHLR	WR90R	π
collection for Green Lake Sanitary District,		06/30/1991	DIHLK	009	
Green Lake, WI		00/30/1991		003	
Design of a small scale transportable	Kammel	07/01/1990 –	DATCP	WR90R	
mixing/loading system	Kallillei	06/30/1992	DATCP	016	
Prediction of organic chemical leachate	Jae Park	07/01/1990 -	UWS	WR90R	
concentrations from soil samples	Jae Fai K	06/30/1991	0 0 0 3	004	
concentrations from son sumples		00/30/1331		004	
The economic effects of groundwater	Rabinowitz, Page		UWS	WR90R	
contamination on real estate	Rabinowitz, i age		0113	005	
A tracer technique for measuring	Monkmeyer	07/01/1990 –	UWS	WR90R	
regional groundwater velocities from a single	Wionkineyer	06/30/1991	0113	006	
borehole					
Tracking contaminant pathways in	David Mickelson, Mary	07/01/1990 –	UWS	WR90R	
groundwater using a geologically based	Anderson	06/30/1992		007	
computer code for outwash					
Nitrate Movement through the	Lowery, Fermanich,		UWS	WR90R	
Unsaturated Zone of a Sandy Soil in the	Grant, McSweeney,			012	
Lower Wisconsin River Valley	Kussow				
Using ground pnetrating radar to	Kiung, Madison	07/01/1990 –	UWS	WR90R	
predict preferential solute movement and		06/30/1992		013	
improve contaminant monitoring in sandy					
soils					
Near-source transport of contaminants	John Hoopes		UWS	WR90R	
in heterogeneous media	·			017	
The Effects of Complex Mixtures of	Grundl, Cherkauer		UWS	WR90R	
Chemicals in Leachates on the Transport of				019	
Pollutants in Groundwater					
Adsorptive Behavior of Atrazine and	Grundl, Small		UWS	WR90R	
Alachlor in Organic•Poor Sediments				020	
Chemical transport across a sediment-	Green	07/01/1990 –	UWS	WR90R	
water interface		06/30/1992		021	
Reactions of Chlorohydrocarbons on	Fripiat	07/01/1990 –	UWS	WR90R	
Clay Surfaces		06/30/1991		023	
In-situ Removal of Fe, Mn, and Ra from	Christensen, Cherkauer		UWS	WR90R	
groundwater				024	
Renovation of Pesticide Contaminated	Gordon Chesters, John		UWS	WR90R	
Rinse Water	Harkin			025	
Evaluation of Potential Phytotoxicity and	Binning	07/01/1990 –	UWS	WR90R	
Crop Residues when Using Sprayer		06/30/1991		027	
Rinsate as a Portion of the Diluent in					
Pesticide Spray Mixtures					
On-site nitrogen removal systems	Ayers and Associates	07/01/1990 –	UWS	WR90R	
research demonstration project: Phase 1		06/30/1991		028	
Dala of makila sallaidi.	A management of the first		111476	MANDOOD	
Role of mobile colloids in the transport	Armstrong, Shafer		UWS	WR90R	
of chemical contaminants in groundwater				029	
Integrated designs guarant for	Adams Dansar		LIME	MADOOD	
Integrated decision support for	Adams, Benson		UWS	WR90R	
wellhead protection	1			030	

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Arsenic as a naturally elevated parameter in water supply wells in eastern Winnebago and Outagamie Counties	Rick Stoll	07/01/1991 – 06/30/1992	DNR	WR91R 002	87
Spatial attributes of the soil-landscape- groundwater system of the lower Wisconsin River Valley	McSweeney, Madison, Attig, Bohn, Falk	07/01/1991 – 06/30/1993	DNR	WR91R 009	88
Preliminary comparison of a discrete fracture model with a continuum model for groundwater movement in fractured dolomite	Bradbury, Muldoon	07/01/1991 – 06/30/1992	DNR	WR91R 018	89
Evaluation of NURE hydrogeochemical groundwater data for use in Wisconsin groundwater studies	Bradbury, Mudrey, Shrawder	07/01/1991 – 06/30/1992	DNR	WR91R 019	90
Distribution of radionuclides in Wisconsin groundwater	Bradbury, Mudrey	07/01/1991 – 06/30/1992	DNR	WR91R 020	91
Assessment of Wisconsin's Groundwater Monitoring Plan (GWM) Program for Active Non-Approved Landfills (1985- 1990)	Laura Pugh, DNR, Barbara Gear, DNR	07/01/1991 – 06/30/1992	DNR	WR91R 004	92
GIS Mapping of Groundwater Contaminant Sources Quality and Contamination Susceptibility for Door County	Richard Stoll, Mike Hronek	07/01/1991 – 06/30/1993	DNR	WR91R 017	93
Evaluation of denitrification systems for improving groundwater from on-site waste disposal systems	Byron Shaw	07/01/1991 – 06/30/1993	DNR	WR91R 003	94
Remediation of Soils Contaminated by Leaking Underground Storage Tanks by Vapor Extraction and in situ Bioremediation	Hickey, Jacobsen, Bubenzer	07/01/1991 – 06/30/1993	DNR	WR91R 011	96
Municipal wastewater absorption pond renovation for enhanced nitrogen removal	Gilbert, Oman	07/01/1991 – 06/30/1993	DNR	WR91R 013	97
Dane County atrazine/lead management project	Conners, Bohn, Madison, Muldoon, Richardson	07/01/1991 – 06/30/1992	DNR	WR91R 015	99
Waupaca County: Towns of Lebanon and Scandinavia	Wilson, Blonde	07/01/1991 – 06/30/1992	DNR	WR91R 001	79b
Investigation of Potential Groundwater Impacts at Demolition Landfills and Deer Pits	Svavarsson, Fauble	07/01/1991 – 06/30/1993	DNR	WR91R 005	98a
Nitrogen removal from domestic wastewater in unsewered area	Otis, Converse	07/01/1991 – 06/30/1993	DIHLR	WR91R 008	
Estimating the spatial distribution of groundwater recharge rates using hydrologic, hydrogeologic, and geochemical methods	Ken Potter and Carl Bowser			WR91R 006	
New approaches to measuring bioloic effects of groundwater contaminants	Warren Porter	07/01/1991 – 06/30/1992	UWS	WR91R 007	

Title	Investigators	Contract Period	Funding	UW #	DNR
	1		Agency		#
Herbicide and nitrate movement in a	Lowery, McSweeney	07/01/1991 –	UWS	WR91R	
sandy soil aquaifer in the Lower Wisconsin		06/30/1993		010	
River Valley	1	07/04/4004		14/0040	
Living mulch systems for nitrate	Harrison	07/01/1991 –	UWS	WR91R	
trapping in vegetable production		06/30/1993		012	
Use of tire chips to attenuate VOC's	Tuncer Edil, Jae Park	07/01/1991 –	UWS	WR91R	
		06/30/1993		014	
Distribution, Sources and Fate of	Gordon Chesters,	07/01/1991 –	UWS &	WR91R	
Atrazine in a Sandy-Till Aquifer	Jonathan Levy	06/30/1993	DATCP	016	
GIS for subsurface characterization	Bosscher, Adams	07/01/1991 –	UWS	WR91R	
	<u> </u>	06/30/1993		021	
Effects of transient cross-stratification	Jean Bahr	07/01/1991 –	UWS	WR91R	
flow on contaminant dispersion		06/30/1993		022	
Evaluation of Groundwater	Michael A. Bohn,	07/01/1992 –	DNR	WR92R	100
Susceptibility Assessment Systems in Dane	Maureen A. Muldoon,	06/30/1994		009	
County, Wisconsin	Frederick W. Madison,				
	Kenneth R. Bradbury,				
	Alexander Zaporozec				
Tracer Study for Characterization of	Maureen A. Muldoon,	07/01/1992 –	DNR	WR92R	101
Groundwater Movement and	Kenneth R. Bradbury	06/30/1994		010	
Contaminant Transport in Fractured					
Dolomite					
Urban stormwater infiltration:	David Armstrong	07/01/1992 –	DNR	WR92R	102
Assessment and enhancement of		06/30/1994		012	
pollutant removal					
Long-term Transformation and Fate of	John Harkin, Chen Peng	07/01/1992 –	DNR	WR92R	103
Nitrogen in Mound-type Soil Absorption	Chen	06/30/1994		004	
Systems for Septic Tank Effluent					
A further study of organics at municpal	Jack Connelly, Janet	07/01/1992 –	DNR	WR92R	104
solid waste landfills	batista	06/30/1994		006	
The Impact of Atrazine Management	Peter Nowak, Steven	07/01/1992 –	DATCP and	WR92R	
Areas Designation on Weed Control	Wolf and Robert	06/30/1994	Ciba Geigy	001	
Strategies in Wisconsin Corn Production	McCallister, Heather				
	Hartley, UW - Mad.				
Variability of hydraulic conductivity in	David Mickelson	07/01/1992 –	UWS	WR92R	
supraglacial sediments		06/30/1994		002	
Field evaluation of near source transport	John Hoopes		UWS	WR92R	
of contaminants in heterogeneous				003	
media					
Ultrasonic verification technique for	Tuncer Edil		UWS	WR92R	
evaluating well seals			<u> </u>	005	
Impact of tunnel dewatering on surface	Doug Cherkauer	07/01/1992 –	UWS	WR92R	
water bodies in Mil. County		06/30/1994	1	007	
Management of sweet corn processing	Larry Bundy		UWS	WR92R	
to protect groundwater quality				800	
Trace metal transport affected by	Jean Bahr	07/01/1992 –	UWS	WR92R	
groundwater stream interactions	1	06/30/1994		011	

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Optimization of two recirculating sans	Byron Shaw	07/01/1993 –	DNR	WR93R	95
filters for nitrogen and organic chemical	7.0	06/30/1994	2	006	
removal from domestic wastewater					
Integrated computerized mapping of	Rick Stoll	07/01/1993 –	DNR	WR93R	105
point source contaminants and physical		06/30/1994		004	
environmental characterisitics to protect and					
manage groundwater quality					
An investigation of field-filtering and	Jack Connelly, Charles	07/01/1993 -	DNR	WR93R	106
low-field pumping when sampling for metals	Ostergren	06/30/1994		015	
Groundwater Monitoring for Pesticides	Jeff Postle	07/01/1993-	DNR		107
(continuation of project #2)		06/30/1996			
Evaluation of NR140 Groundwater					108
Standards Compliance, NR 103 wetlands					
Water Quality Standards Compliance, and					
Groundwater Monitoring requirements for					
Zone-Of-Saturation Design Landfills in					
Wisconsin					
Construction business along of an	W	07/04/4002	DAID /DATCD	14/D02D	100
Groundwater hydrogeology of an	Ken potter	07/01/1993 -	DNR/DATCP	WR93R 008	109
agricultural watershed The further incidence of native arsenic	Rick Stoll	06/30/1995 07/01/1993 –	DNR	WR93R	110
in eastern Wisconsin water supply wells:	RICK Stoll	06/30/1994	DINK	003	110
Marinette, Oconto, Shawano and Brown		00/30/1994		003	
Counties					
Factors affecting the determination of	William Sonzogni	07/01/1993 –	DNR	WR93R	111
radon in groundwater	VVIIII 3011206111	06/30/1994	Divin.	005	
Groundwater Survey for Alachlor and	James Vanden Brook,	01/6/1994 –	DATCP,	WR93R	112
ESA its Polar Metabolite in Southern	DATCP, Bureau of	05/30/1994	DNR,	002	
Wisconsin	Agrichemical	, ,	Monsanto		
	Management		Company		
Investigation of potential groundwater	Pugh, Connelly	07/01/1993 –	DNR	WR93R	98b
impacts at yard waste sites		06/30/1994		007	
Investigation of potential groundwater	Pugh, Connelly				98b
impacts at yard waste sites					
Cover Crops to Limit Herbicide Use on	Astrid Newenhouse	07/01/1993 -	DATCP	WR93R	
Sweet Corn		08/30/1995		009	
Mineral Phase Sorption of Selected	Timothy J. Grundl and	1994 – 1995	UWS	WR93R	
Agrichemicals to Wisconsin Soils	Greg Small, UW-Mil.			014	
The use of peat as an absorbtive	Jim Wiersma, Ron	07/01/1993 –	DATCP	WR93R	
medium	Stieglitz	06/30/1994		001	
Cover crops to limit herbicide use on	Newenhouse	07/01/1993 –	DATCP	WR93R	
sweet corn	Dial Laura	06/30/1994	D.4.T.C.2	009	
Leaching potential of Imazethapyr and	Birl Lowery	07/01/1993 -	DATCP	WR93R	
nicosulfron in Sparta sand	M/III and I !! - !: - :	06/30/1994	1046	010	
Comparative evaluation of	William Hickey	07/01/1993 –	UWS	WR93R	
biostimulation approaches for enhancing in		06/30/1995		011	
situ TCE degradation in contaminated aquaifers					
aqualicis	<u> </u>			<u> </u>	

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Using "PREDICT" to reduce herbicide	Harvey	07/01/1993 -	UWS	WR93R	
usage and improve groundwater quality	,	06/30/1995		012	
Stratigraphy, sedimentaology and	Mark Harris	07/01/1993 -	UWS	WR93R	
porosity distribution of the Silurian rocks of		06/30/1995		013	
Door County, Wisconsin					
Mineral phase sorption of selected	Tim Grundl	07/01/1993 –	UWS	WR93R	
agrichemicals to Wisconsin soils		06/30/1995		014	
Herbicide contamination of soil and	Gordon Chesters	07/01/1993 –	UWS &	WR93R	
groundwater at a mixing and loading site		06/30/1995	DATCP	016	
Improved design of pump and treat	Jean Bahr	07/01/1993 –	UWS	WR93R	
systems for heterogeneous aquaifers	0.4 0.1	06/30/1995	1046	017	
Photocatalytic degradation of volatile	Marc Anderson	07/01/1993 –	UWS	WR93R	
organic carbon	Kan Dradbury Mayrean	06/30/1995 07/01/1994 –	DND	018	112
Application of a discrete fracture flow model for wellhead protection at	Ken Bradbury, Maureen Muldoon	06/30/1996	DNR	WR94R 015	113
Sturgeon Bay, Wisconsin	IVIUIUOOII	00/30/1990		013	
A comparison of low flow pumping and	Jack Connelly	07/01/1994 –	DNR	WR94R	114
bailing for VOC sampling	Jack Conneny	06/30/1995	DIVIN	012	114
An evaluation of long-term trends and a	Weissbach, Pelczar	07/01/1994 –	DNR	WR94R	115
mineralogical interpretation of naturally	Weissbach, Felezar	06/30/1996	Divii.	002	113
occurring metals contamination and		, , , , , , , , , , , , , , , , , , , ,			
acidification					
Agrichemical impacts to groundwater	George Kraft, Bryant	07/01/1994 –	DNR	WR94R	116
under irrigated vegetables in the	Browne	06/30/1996		009	
Central Sand Plains					
Characterization of E. coli and total	William Sonzogni	07/01/1994 –	DNR	WR94R	117
coliform organisms isolated from		06/30/1995		004	
Wisconsin groundwater and					
reassessment of their public health					
significance					
Collection of hydraulic and geologic	Zaporozec	07/01/1994 –	DNR	WR94R	118
data to improve the quality of the		06/30/1996		001	
Wiscosnin Groundwater Monitoring					
Network	D : 1 N 4: 1 - 1	07/04/4004	DND	14/DO 4D	110
Vertical and horizontal variability of hyrogeologic properties of glaciated	David Mickelson	07/01/1994 – 06/30/1995	DNR	WR94R 008	119
landscapes		00/30/1993		008	
Direct and residual effects of land-	Larry Bundy	07/01/1994 –	DNR	WR94R	120
applied sweet corn processing wastes on	Larry Buridy	06/30/1996	DININ	014	120
nitrate loss to groundwater		00/30/1330		014	
a low-input crop management plan for	Delahunt	07/01/1994 –	DATCP	WR94R	
Wisconsin fresh-market vegetable growers		06/30/1995	27.1.0.	011	
		, = = , ====			
Evaluation of enzyme-linked	William Sonzogni	07/01/1994 –	UWS	WR94R	
immunosorbent assay for herbicide analysis		06/30/1995		003	
of Wisconsin soil in comparison to gas					
chromatogeraphy					
Geologic constraints on arsenic in	Tony Simo	07/01/1994 –	UWS	WR94R	
groundwater with applications to		06/30/1995		005	
groundwater modeling					

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Development and demonstration of an	Shinners	07/01/1994 –	UWS	WR94R	••
accurate manure spreading system to protect	Silliniers	06/30/1996	0 0 0 3	006	
water quality, improve waste management		00/30/1990		000	
and farm profitability					
Synergistic effects of endocrine	Warren Porter	07/01/1994 –	UWS	WR94R	
dirupters in drinking water		06/30/1996		007	
Use of heavy nitrogen to study nitrate	John Harkin	07/01/1994 –	UWS &	WR94R	
flux from septic systems		06/30/1996	Commerce	010	
Integration of hydraulics and geology into a hydrostratigraphic model for the	Doug Cherkauer	07/01/1994 – 06/30/1995	UWS	WR94R 013	
Paleozoic Aquifer of eastern Dane County,					
Wisconsin					
Tracer study for characterization of	Ken Bradbury	07/01/1994 -	UWS	WR94R	
groundwater movement and	·	06/30/1996		016	
contaminant transport in fractured dolomite					
Evaluating the efectiveness of landfill	Craig Benson	07/01/1994 –	UWS	WR94R	
liners	Cruig Delison	06/30/1996	0 1 1 3	017	
Delineation of capture zones for	Ken Bradbury	07/01/1995 –	DNR	WR95R	121
municipal wells in Dane County, Wisconsin	Ken Bradbary	06/30/1997	DIVIN	014	121
mameipai wells in Bane county, wisconsin		00/30/133/		014	
Optimum management of groundwater	Jim Krohelski	07/01/1995 –	DNR	WR95R	122
resources in the Lower Fox River Valley		06/30/1997		009	
Variability of nitrate loading and	Fred Madison	07/01/1995 –	DNR	WR95R	123
determination of monitoring frequency for		06/30/1996		800	
a shallow sandy aquifer, Arena, Wisconsin					
An Investigation of VOC Sampling	Jack Connelly	cancelled	DNR		124
techniques at Slowly Recovering Monitoring					
Wells					
Evaluation of shallow-soil adsorption	Ron Stieglitz	07/01/1995 –	UWS & DNR	WR95R	125
fields associated with on-site disposal systems		06/30/1997	& DATCP	003	
GIS as a tool to prioritize environmental	Stoll	07/01/1995 –	DNR	WR95R	126
releases, integrate their managaement and		06/30/1997		002	
alleviate their public threat					
Land Use Effects on Groundwater and	Byron Shaw and Phillip	07/01/1995 –	DATCP	WR95R	
Streamwater Quality in the Little Plover River	Albertson, UW-Stevens	06/30/1997		005	
Watershed	Point				
Groundwater recharge and	Ken Potter	07/01/1995 –	DATCP	WR95R	
contamination in Wisconsin's Driftless Area		06/30/1997		006	
An integrated approach to the	Wedberg	07/01/1995 –	UWS	WR95R	
management of insects in sweet corn		06/30/1997	55	000	
grown for fresh market		, ,			
The use of azimuthal resistivity and self	Taylor	07/01/1995 –	UWS	WR95R	
potential measurements to delineate	,	06/30/1996	3443	001	
groundwater flow direction in fractured		33,30,1330		331	
media					
media				I	

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Stratigraphic controls on the	Tony Simo	07/01/1995 –	UWS	WR95R	
mobilization and transport of naturally-		06/30/1996		004	
occurringarsenic in groundwater: Implication					
for wellhead protection					
Characterization of the role of	Ken Potter	07/01/1995 –	UWS	WR95R	
evapotranspiration on groundwater		06/30/1997		007	
movement and solute chemistry in					
groundwater-fed wetlands					
Biostmulation of trichloroethylene	William Hickey	07/01/1995 –	UWS	WR95R	
degradation in contaminated aquifers		06/30/1997		010	
Iron-based abiotic destruction of	Gerry Eykholt	07/01/1995 –	UWS	WR95R	
chlorinated pesticides in groundwater		06/30/1996		011	
Evaluation of well seals using an	Tuncer Edil	07/01/1995 –	UWS	WR95R	
ultrasonic probe		06/30/1996		012	
Responses of biological toxicity tests to	Gordon Chesters	07/01/1995 –	UWS	WR95R	
mixtures of pesticides and metabolites		06/30/1997		013	
Bioremediation of Hydrocarbons	Jean Bahr	07/01/1995 –	UWS	WR95R	
influenced by air sparging: A multi- model		06/30/1997		015	
approach to assess contaminant mass					
removal					
A study of well construction guidance	Weissbach	07/01/1996 –	DNR	WR96R	127
for arsenic contamination in northeast		06/30/1998		001	
Wisconsin					
Improved detection limits for	William Sonzogni	07/01/1996 –	UWS & DNR	WR96R	128
groundwater monitoring		06/30/1997		003	
Stratigraphic controls on distribution of	Tony Simo	07/01/1996 –	DNR	WR96R	129
hydraulic conductivity in carbonate aquifers		06/30/1998		004	
Evaluation of the use of DUMPSTAT to	Ken Potter	07/01/1996 -	DNR	WR96R	130
detect the impact of landfills on groundwater		06/30/1997		005	
quality					
Nitrate-contaminated drinking water	Marty Kanarek	07/01/1996 -	DNR	WR96R	131
followback study		06/30/1997		800	
Determining compatibility between	Sucoff	07/01/1996 -	DATCP	WR96R	
herbicide release and habitat for Karner Blue		06/30/1997		002	
butterfly in red pine plantations					
Holding tank effluent and fecal-	Mark Borchardt	07/01/1996 –	Commerce	WR96R	
contaminated groundwater: soureces of		06/30/1998		014	
infectious diarrhea in central Wisconsin					
Treatment of groundwater contaminated	Jae Park	07/01/1996 –	UWS	WR96R	
with chlorinated aliphatics using silicone		06/30/1998	3,13	006	
tubing supported methanotrophic biofilm		22,30,200			
reactor					
Fate of nicosulfron in Sparta sand	Birl Lowery	07/01/1996 –	DATCP	WR96R	
		06/30/1997		007	
Molecular techniques for detection and	William Hickey	07/01/1996 –	Commerce	WR96R	
identification of sewage-borne human		06/30/1998		009	
pathogens in soils					

Title	Investigators	Contract	Funding	UW	DNR
		Period	Agency	#	#
Stratigraphy, seidmentology and	Mark Harris	07/01/1996 –	UWS	WR96R	
porosity distribution of the Silurian Aquifer of		06/30/1997		010	
Ozaukee County, Wisconsin Experiemtnal verification of models	Tuncer Edil	07/01/1996 –	UWS	WR96R	
used to evaluate landfill liner effectiveness	Tuncer Eali	06/30/1997	UWS	011	
used to evaluate landin liner effectiveness		00/30/1997		011	
Groundwater bioremediation:	MLP Collins	07/01/1996 –	UWS	WR96R	
Monitoring with MMO probes		06/30/1998		012	
Development of a variable rate nitrogen	Larry Bundy	07/01/1996 –	UWS	WR96R	
application approach for corn		06/30/1998		013	
Groundwater protection by application	George Blondin	07/01/1996 –	UWS	WR96R	
of modern portfolio theory to		06/30/1997		015	
microbiotesting strategies					
In situ air sparging: Air plume	Craig Benson	07/01/1996 –	UWS	WR96R	
characterization and removal effectiveness		06/30/1998		016	
Hydrogeochemical and microbiological	Jean Bahr	07/01/1996 –	UWS	WR96R	
studies for enhanced groundwater		06/30/1998		017	
bioremediation					
Improved estimation of groundwater	Mary Anderson	07/01/1996 –	UWS	WR96R	
recharge rates		06/30/1997		018	
Relationships between water quality in	Byron Shaw	07/01/1997 –	DNR	WR97R	132
stream base flow and private wells and land		06/30/1999		005	
use in the Tomorrow/Waupaca watershed					
Northeast region public water supply	Stoll	07/01/1997 –	DNR	WR97R	133
location utilizing GIS and GPS	3.0	06/30/1998	51111	003	100
Characterization of the	Timothy Eaton	07/01/1997 –	DNR	WR97R	134
hydrostratigraphy of the deep		06/30/1999		011	
sandstone aquifer in southeatern		, ,			
Wisconsin					
Evaluation of geology and hydraulic	Alex Zaporozec	07/01/1997 –	DNR	WR97R	135
performance of Wisconsin groundwater	·	06/30/1998		001	
monitoring wells					
Further evaluation of well seals using	Tuncer Edil	07/01/1997 –	DNR	WR97R	136
ultrasonic probes		06/30/1998		010	
Groundwater-surface water interactions	Jean Bahr	07/01/1997 –	DNR	WR97R	137
in the Nine Springs watershed		06/30/1999		015	
Evaluation of the Confining Properties of	Timothy T. Eaton,	07/01/97 -			138
the Maquoketa Formation in the	Kenneth R. Bradbury	08/01/1998			130
SEWRPC Region of Southeastern	Remieti N. Braabary	00/01/1330			
Wisconsin					
Preliminary Model Design And	Feinstein, Eaton,	07/01/1997 –	DNR	WR97R	139
Literature Review For The Sandstone	Krohelsjki, Bradbury	06/30/1998	2	014	100
Aquifer System In Sourtheastern	32.2,, 2,	22,20,200			
Wisconsin					
Determining Ground-Water Recharge	Douglas S. Cherkauer,	07/01/1999 –	UWS	WR97R	
=	UW-Mil., and Craig J.	06/30/2001	-	012	
Rates in Southern Wisconsin County	To vv iviii., and craig 3.	00/30/2001		012	

Title	Investigators	Contract	Funding	UW #	DNR #
		Period	Agency		#
Effects of Fosamine, Glyphosate,	Paul C. West	07/01/1997 –	DATCP	WR97R	
Picloram, Triclopyr, and Sodium		06/30/1998		002	
Tetraborate on Reducing Aspen in					
Prairie Bush Clover Habitat					
Impact of Ginseng Production on	William DeVita and	07/01/1997 –	DATCP	WR97R	
Groundwater Quality	Byron Shaw	06/30/1998		004	
Fate of metolachlor, alachlor and nitrate	Eykholt, Davenport,	07/01/1997 –	DATCP	WR97R	
in granular iron/soil/ water systems	Wonsettler	06/30/1998		008	
The direct effect of agricultural	William Karasov	07/01/1997 –	UWS &	WR97R	
chemicals on Wisconsin's declining and	William Rarasov	06/30/1999	DATCP	006	
endangered amphibians		00/30/1333	D/ (TC)		
Investigation of air sparging: Numerical	Hoopes	07/01/1997 –	UWS	WR97R	
modeling, laboratory verification and design	Hoopes	06/30/1999	0 0 0 3	007	
guidelines		00/30/1999		007	
Evaluation of exploration borehole seals	Tuncer Edil	07/01/1997 –	UWS	WR97R	
using Time Domain Reflectomtery	Tuncer Eali		UVVS	009	
using time Domain Reflectoritery		06/30/1999		009	
Watershed-scale nitrate contamination	Drugat Drawns	07/01/1997 –	UWS	WR97R	
	Bryant Browne	06/30/1999	UVVS	013	
and chlorofluorocarbon ages in the Little		00/30/1999		013	
Plover Basin: A study at the					
groundwater/surface water interface					
Assessment of impacts on	Mary Anderson	07/01/1997 –	UWS	WR97R	
groundwater/lake and wetland systems		06/30/1998		016	
Hydraulic Conductivity and Specific	Timothy T. Eaton, David	07/01/1998 –		WR98R	
Storage of the Maquoketa Shale	J. Hart, Kenneth R.	06/30/2000		001	
storage or the maquoneta onale	Bradbury, Herbert F. Wang.	00,00,200		001	
	University; WGNHS and				
	UW-Mad.				
A suto and abrania taviaity of nitrata to	Ronald Crunkilton, UW-	07/01/1998 –	DNR	WR98R	140
Acute and chronic toxicity of nitrate to brook trout Salvelinus fontinalis	Stevens Point, and Todd	06/30/2000	DINK	010	140
brook trout salveillus fortillalis	-	00/30/2000		010	
	Johnson, UW-Stevens				
	Point				
Maquoketa Shale as Radium Source for	Tim Grundl	07/01/1998 –	DNR	WR98R	141
the Cambro-Ordovician Aquifer in Eastern		06/30/2000		009	
Wisconsin					
Mechanical controls on fracture	Cooke, Muldoon	07/01/1998 –	DNR	WR98R	142
development in carbonate aquifers:		06/30/2000		011	
implications for groundwater flow					
systems					
Analysis of Microbiological and	William J. Hickey, UW-	07/01/1998 –	DNR	WR98R	143
Geochemical Processes Controlling	Mad., Jean M. Bahr, UW-	06/30/2000		007	
Biodegradation of Aromatic	Mad.; Madeline Schreiber,				
Hydrocarbons in Anaerobic Aquifers	UW-Mad.; Michele				
	Zwolinski, UW- Mad.; and				
	Peter Taglia, UW-Mad.				
Viral contamination of household wells	M. Borchardt, W.	07/01/1998 –	DNR	WR98R	144
near disposal sites for human excretia	Sonzogni	06/30/2000		014	

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Assessing and Reducing Leaching of Agricultural Chemicals on Silt Loam Soils under Different Farming Systems	K-J Samuel Kung, Joshua Posner, Gary Bubenzer, and John Hall, UW - Mad.	07/01/1998 – 06/30/2000	DATCP	WR98R 006	
Fate of herbicides atrazine, cyanazine and alachlor and selected metabolites Natural Attenuation of fuel and related	Stoltenberg William Sonzogni	07/01/1998 – 06/30/1999 07/01/1998 –	UWS	WR98R 002 WR98R	
groundwater contaminants - A measurement method	William Sonzogni	06/30/1999	OWS	003	
Water and land use: interpretation of existing data to foster constructive public dialog and policy formulation	Harry Read	07/01/1998 – 06/30/1999	UWS	WR98R 004	
Using GIS and soil landscape models to predict critical sites for nonpoint source pollution	Birl Lowery	07/01/1998 – 06/30/2000	DATCP	WR98R 005	
Sedimentology, stratigraphy, and porosity-conductivitiy relations of the Silurian aquaifer in Ozaukee County, Wisconsin	Harris	07/01/1998 – 06/30/2000	UWS	WR98R 008	
Monitoring: Evaluation of the Abundance, Diversity, and Activity of Methanotroph Populations in Groundwater	Mary Lynne Perille Collins and Charles C. Remsen, UW-Mil.	07/01/1998 – 06/30/2000	UWS	WR98R 012	
Groundwater Flow and Heat Transport in Wetlands: Transient Simulations and Frequency-Domain Analysis	Hector Bravo, UW-Mil.	07/01/1998 – 06/30/2000	UWS	WR98R 013	
A rational design for permeable reactive walls	Craig Benson			WR98R 015	
On-line SFE/GC for Improved Detection of Trace Organic Pollutants in Ground Water Monitoring	David E. Armstrong, Robert J. Noll, UW - Mad.	07/01/1998 – 06/30/1999	UWS/DATCP	WR98R 016	
Pheasant Branch Groundwater Quality Study	Hunt, Steuer				145
A groundwater model for the Central Sands of Wisconsin: Assessing the environmental and economic impacts of irrigated agriculture	Anderson, Bland, Kraft	7/1/1999 - 06/30-2000	DNR/DATCP	800	146
Remediating Groundwater Using Reactive Walls Containing Waste Foundry Sands	Craig Benson (Gerry Eykholt left UW to start private practice in Madison)	7/1/1999 - 06/30-2001	UWS & DNR	WR99R 006	147
Field Verification of Captures Zones for Municipal Wells at Sturgeon Bay, Wisconsin	Bradbury, Rayne, Muldoon	7/1/1999 - 06/30-2000	DNR/DATCP	WR99R 019	148
Improvement of Wisconsin groundwater monitorng network	Zaporozec	7/1/1999 - 06/30-2000	DNR	WR99R 014	149
Refinement of two methods for estimation of groundwater recharge rates	Bradbury, Anderson, Potter, Dripps	7/1/1999 - 06/30-2000	DNR	WR99R 018	150

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Evaluating options for changing groundwater and leachate monitoring requirements for landfills to reduce mercury used by laboratories	Connelly, Stephens, Shaw	7/1/1999 - 06/30-2001	DNR	WR99R 017	151
An Investigation of the Hydrogeological Conditions Responsible for Springs in a Glaciated Terrain	Susan Swanson, Jean Bahr, UW-Mad.	7/1/1999 - 6/30/00	DNR		161
Degradates of matolachlor and Acetochlor in Municipal and Private Water Supplies of Wisconsin	Jim Vanden Brook	7/1/1999- 6/30/2000	DNR		162
Arsenic in Groundwater in Lake Geneva, Wisconsin	Madeline Gotkowitz WGNHS	3/1/00 - 6/30/00	DNR		163
Agrochemical Leaching From Sub- Optimal, Optimal, and Excessive Manure-N Fertilization of Corn Agroecosystems	John M. Norman, UW - Mad.	07/01/2001 – 06/30/2003	DATCP	WR99R 001A	
Field Monitoring of Drainage and Nitrate Leaching from Managed and Unmanaged Ecosystems	John Norman, UW-Mad.	7/1/1999 - 06/30-2001	UWS & USGS B	WR99R 001	
Compatibility of Containment Systems with Mine Waste Liquids.	Tuncer B. Edil , Craig H. Benson, S. Basak Gulec, UW-Mad.	07/1999 - 06/2001	UWS	WR99R 002	
Macropore Flow: A Means for Enhancing Groundwater Recharge or a Potential Source of Groundwater Contamination	Kenneth Potter, Peter Bosscher, UW-Mad.	7/1/1999 - 06/30-2001	UWS	WR99R 003	
Development of Neural Network Models for Predicting Nitrate Concentration in Well Water in the Tomorrow-Waupaca Watershed	Hangshen Lin	7/1/1999 - 06/30-2001	UWS	WR99R 004	
Causes of Historical Changes in Groundwater Recharge Rates in Southeastern Wisconsin	Douglas Cherkauer	7/1/1999 - 06/30-2001	UWS	WR99R 005	
Admicelle-Catalyzed Reductive Dechlorination of Perchloroethylene (PCE) by Zero Valent Iron	Dr. Zhaohui Li, UW - Parkside	07/01/1999 – 06/30/2001	UWS	WR99R 007	
Time Domain Electromagnetic Induction Survey Of Eastern Waukesha County And Selected Locations	John Jansen, Aquifer Science and Technology; Robert Taylor, UW-Mil.	7/1/1999 - 06/30-2000	UWS	WR99R 016	
Geologic and geochemical controls on arsenic in groundwater in northeastern Wisconsin	Gotkowitz		DNR	WR00R 013	152
VOC trend analysis of WI solid waste landfill monitoring data: A preliminary analysis of the natural attenuation process	Connelly	01/00/00	DNR	WR00R 018	153
Development of analytical methods for comprehensive chemical and physical speciation of arsenicals in groundwater	Aldstadt		DNR	WR00R 021	154

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
New approaches to the assessment of	Collins	7/1/2000 -	DNR	WROOR	155
microbes in groundwater: application to		6/30/2002		019	
monitoring bioremediation and detection of					
pathogens					
An analysis of arsenic replacement wells	O'Connor	7/1/2000 -	DNR	WROOR	156
to determine validity of current DNR well		6/30/2002		009	
construction guidance		5, 55, 2552			
Verification and characterization of a	Eaton		DNR	WROOR	157
fracture network within the Maguoketa				015	
shale confining unit, SE Wisconsin					
Public health impacts of arsenic	Knobeloch	01/00/00	DNR	WROOR	158
contaminated drinking water	in obciden	01,00,00	J. W.	011	130
A study of microbiological testing of	Braatz	7/1/2000 -	DNR	WROOR	159
well water quality in Door County and	Di datz	6/30/2001	DIVIN	020	133
incidence of illness in humans		0/30/2001		020	
An Improved Hydrogeologic Model for	Jean Bahr,and Laura	07/01/99 -	DNR		160
the Token Creek Watershed	Parent, UW-Mad.	06/30/01	DINK		100
			DND		164
Assessment of the Ability of Mound Sand	Jon Standridge, Jeremy	7/1/00 -	DNR		164
(ASTM C-33) to Remove Micro-	Olstadt, William Sonzogni	6/30/01			
organisms in Column Experiments	WSLH	7/4/2020		14/2002	
Remediation of Soil and Groundwater	Nancy Turyk, Byron	7/1/2000 -	UWS & DNR	WR00R	
Using Effectively and Ineffectively Nodulated	Shaw	6/30/2002		006	
Alfalfa					
Groundwater Modeling: Semi-Analytical	Lin Li, Gerald R. Eykholt,	7/1/2000 -	UWS	WR00R	
Approaches for Heterogeneity and	Craig H. Benson; UW- Mad.	6/30/2001		014	
Reaction Networks					
Importance of Groundwater in	R.W. Stoor, David	7/1/2000 -	UWS & USGS	WR00R	
Productions and Transport of Methyl	Armstrong, et al	6/30/2002	В	003	
Mercury in Lake Superior Tributaries					
A Basin-Scale Denitrification Budget for	Bryant Browne, George	7/1/2000 -	UWS & USGS	WR00R	
a Nitrate Contaminated Wisconsin Aquifer: A	Kraft	6/30/2002	В	004	
Study at the Groundwater/Surface Water					
Interface					
The Spatial and Temporal Variability of	Weston Dripps, Mary	7/1/2000 -	UWS	WR00R	
Groundwater Recharge	Anderson, Kenneth	6/30/2001		800	
	Potter				
Removal of As(III) and As(V) in	Marc Anderson	7/1/2000 -	UWS	WR00R	
Contaminated Groundwater with Thin- Film		6/30/2002		005	
Microporous Oxide Adsorbents					
Effect of Clean and Polluted	Stanley Dodson	7/1/2000 -	UWS	WROOR	
Groundwater on Daphnia Reproduction and		6/30/2001		007	
Development					
Pesticide and nitrate leaching in soils	Lowery, Arriaga,	7/1/2000 -	DATCP	WROOR	
receiving manure	Stoltenberg	6/30/2001		010	
Screening of agricultural and lawn care	Greenlee	7/1/2000 -	DATCP	WROOR	
pesticides for developmental toxicity using		6/30/2001		012	
the mouse embryo assay		-,,			
Effectiveness of phytoremediation and	DeVita, Dawson	7/1/2000 -	DATCP	WROOR	
hydrogeologic response at an agricultural	Sevica, Davvson	6/30/2002	JA10	016	
chemical facility in Bancroft, WI		0, 50, 2002		010	
one mean racincy in bullerore, wi					
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Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Evaluation of pathogen and nitrogen movement beneath on-site systems receiving domestic effluent from single pass sand filters	Converse	7/1/2000 - 6/30/2001	Comm	WR00R 017	
Susceptibility of La Crosse municipal wells to enteric virus contamination from surface water contributions	Hunt, Borchardt	3/1/2001 - 6/30/2002	DNR	WR01R 021	165
Preservation and survival of E. coli in well water samples submitted for routine analyses	Sonzogni, Standridge, Bussen		DNR	WR01R 016	166
Development of a culture method for detection of Helicobacter pylori in groundwater	Sonzogni, Standridge, Degnan		DNR	WR01R 015	167
Monitoring contaminant flux from a stormwater infiltration facility to groundwater	Dunning, Bannerman	7/1/2001 - 6/30/2003	DNR	WR01R 023	168
Occurrence of antibiotics in wastewater effluents and their mobility in soils. A case study for Wisconsin	Karthikeyan, Bleam	7/1/2001 - 6/30/2003	DATCP/DNR	WR01R 020	169
Delineation of High Salinity Conditions in the Cambro-Ordovician Aquifer of Eastern Wisconsin	Tim Grundl, and Lori Schmidt, UW – Mil.	7/1/2001 - 6/30/2002	DNR	WR01R 022	170
Nitrate loading history, fate, and origin for two WI groundwater basins	Kraft , Browne, DeVita, Mechenich	7/1/2001 - 6/30/2003	DNR	WR01R 019	171
Importance of disinfection on arsenic release from wells	Sonzogni, Bowman Standridge, Clary	7/1/2001 - 6/30/2003	DNR	WR01R 017	172
Time domain electromagnetic induction survey of the sandstone aquifer in the Lake Winnebago area	Taylor, Jansen	01/00/00	DNR	WR01R 014	173
Microfabricated, Low-Power, Inorganic, Water Quality Sensor Based on Direct Current Argon Plasma Emission Spectroscopy	Anderson, Gianchandani			WR01R 011	
Field Evaluation of Rain Gardens as a Method for Enhancing Groundwater Recharge	Kenneth Potter	7/1/2001 - 6/30/2002	UWS	WR01R 002	
Investigation of Changing Hydrologic Conditions of the Coon Creek Watershed in the Driftless Area of Wisconsin	Randy Hunt	7/1/2001 - 6/30/2002	UWS	WR01R 003	
Groundwater-Lake Interaction: Response to Climate Change in Vilas County, Wisconsin	Mary Anderson	7/1/2001 - 6/30/2002	UWS	WR01R 004	
Impacts of Land Use and Groundwater Flow on the Temperature of Wisconsin Trout Streams	Stephen Gaffield	7/1/2001 - 6/30/2003	UWS	WR01R 005	
Impacts of Privately Sewered Subdivisions on Groundwater Quality in Dane County, Wisconsin	Kenneth Bradbury	7/1/2001 - 6/30/2003	UWS	WR01R 006	
Removal of Heavy Metals and Radionuclides from Soils Using Cationic Surfactant Flushing	Christine Evans, Zhaohui Li	7/1/2001 - 6/30/2003	UWS & USGS B	WR01R 007	

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Removal of Arsenic in Groundwater	Jae Park	7/1/2001 -	UWS	WR01R	
Using Novel Mesoporous Sorbent		6/30/2003		800	
Co-occurrence and Removal of Arsenic	Paul McGinley	7/1/2001 -	UWS	WR01R	
and Iron in Groundwater	,	6/30/2003		009	
Monitoring and Scaling of Water Quality	Bryant Browne (Henry	7/1/2001 -	UWS	WR01R	
in the Tomorrow-Waupaca Watershed	Lin was also a Pl, but he left	6/30/2003		010	
·	USTP)	, ,			
Chloroacetanilide and atrazine residue	DeVita, McGinley, Kraft	7/1/2001 -	DATCP	WR01R	
penetration and accumulation in two	, , , , ,	6/30/2003		011	
Wisconsin groundwater basins					
Agrochemical leaching from sub-	Norman, Brye	7/1/2001 -	DATCP	WR01R	
optimal, optimal, and excessive manure- N	, , ,	6/30/2003		018	
fertilization of corn agroecosystems		, ,			
Arsenic Contamination in Southeast	Jean Bahr, Madeline	7/1/2002 -	UWS & DNR	WR02R	174
Wisconsin: Sources of Arsenic and	Gotkowitz, Tara Root	6/30/2004		003	
Mechanisms of Arsenic Release					
Evaluation of Enzyme Linked	John Strauss, William	7/1/2002 -	DNR	WR02R	175
Immunosorbent Assay for Analysis of Di	Sonzogni	6/30/2003		800	
Amino Atrazine in Wisconsin Groundwater in					
Comparison to Chromatography					
An Experimental and Mathematical	Sonzogni, Arndt, West	7/1/2002 -	DNR	WR02R	176
Study of the Alpha-Particle Activity of	, ,	6/30/2003		009	
Wisconsin Ground Waters with High Gross					
Alpha					
Determination of Aquitard and	David Hart, David	7/1/2002 -	UWS & USGS	WR02R	
Crystalline Bedrock Depth Using Time Domain	•	6/30/2003	В	006	
Electromagnetics		2, 23, 233	_		
F Test for Natural Attenuation in	Fe Evangelista	7/1/2002 -	UWS	WR02R	
Groundwater: Application on Benzene	r e zvarigensta	6/30/2003		004	
Photocatalytic Adsorption Media and	Marc Anderson	7/1/2002 -	UWS	WR02R	
Processes for Enhanced Removal of	Ware Anderson	6/30/2003	0 *** 5	005	
Arsenic from Groundwaters		0,30,2003		003	
Monitoring the Effectiveness of	William DeVita	7/1/2002 -	UWS & USGS	WR02R	
Phytoremediation and Hydrogeologic	William Bevita	6/30/2004	B	001	
Response at an Agricultural Chemical		0,30,2004		001	
Facility					
Role of the Hyporheic Zone in	David Armstrong	7/1/2002 -	UWS & USGS	WR02R	
Methylmercury Production and	David Armstrong	6/30/2004	B B	002	
Transport to Lake Superior		0/30/2004	, b	002	
Susceptibility of La Crosse municipal	Hunt, Borchardt	7/1/2002 -	DNR	WR01R	177
wells to enteric virus contamination from	munt, burchdfut	6/30/2003	אווט	021	1//
surface water contributions (continued from		0/30/2003		UZI	
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project 165)	Due dle con c D = le :-	7/4/2002	DND	\A/D025	470
Monitoring and predictive modeling of	Bradbury, Bahr	7/1/2003 -	DNR	WR03R	178
subdivision impacts on groundwater in		6/30/2005		012	
Wisconsin		7/4/0000	5	14/0.00	4=0
Field and Laboratory Validation of	Anderson (Marc)	7/1/2003 -	DNR	WR03R	179
Photoactivated Adsorption for Removal of		6/30/2004		014	
Arsenic in Groundwaters					

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Development of a groundwater flow model for the Mukwonago River watershed, southeastern Wisconsin	Bahr	7/1/2003 - 6/30/2005	DNR	WR03R 013	180
Groundwater Pollutant Transfer and Export in Northern Mississippi Loess Hills Watersheds	Kraft, Masarik, Browne	7/1/2003 - 6/30/2005	DNR	WR03R 011	181
Design and Evaluation of Rain Gardens for Enhancement of Groundwater Recharge	Kenneth Potter	7/1/2003 - 6/30/2005	UWS	WR03R 001	
Evaluation of Contamination of Groundwater around Landfills	Tuncer Edil, Craig Benson and Jack Connelly	7/1/2003 - 6/30/2005	UWS	WR03R 006	
Fate Of Representative Fluoroquinolone, Macrolide, Sulfonamide And Tetracycline Antibiotics In Subsurface Environments	K.G. Karthikeyan and Joel Pedersen	7/1/2003 - 6/30/2005	UWS	WR03R 008	
Coupled Modeling of Gravity and Aeromagnetic Data For Analysis of the Waukesha Fault, Southeastern Wisconsin	John Skalbeck	7/1/2003 - 6/30/2004	UWS	WR03R 003	
What happens when the confined Cambrian-Ordovician aquifer in SE Wisconsin is "dewatered"?	Timothy Eaton	7/1/2003 - 6/30/2004	UWS	WR03R 004	
An Assessment of Aquifer Storage Recovery for Selected Generic Hydrogeologic Settings in Wisconsin	Mary Anderson	7/1/2003 - 6/30/2004	UWS	WR03R 005	
Combination of Surfactant Solubilization with Permanganate Oxidation for Groundwater Remediation	Zhaohui Li	7/1/2003 - 6/30/2005	UWS	WR03R 009	
A Combined Hydrogeologic/Geochemical Investigation of Groundwater Conditions in the Waukesha County Area, WI	Timothy Grundl, Kenneth Bradbury, Daniel Feinstein and David J. Hart	7/1/2003 - 6/30/2005	UWS	WR03R 002	
Providing Communities with the Groundwater Information Needed for Comprehensive Planning.	Douglas Cherkauer	7/1/2003 - 6/30/2005	UWS & USGS B	WR03R 007	
Water Isotope Analyses of Community Wells in Support of EPA-funded Project: "Community-Randomized Intervention Trial with UV-disinfection for Estimating the Risk of Pediatric Illness from Municipal Groundwater Consumption"	Mark Borchardt Marshfieold Medical Clinic, Randy Hunt USGS	6/1/04 - 10/15/04	DNR	0	182
Occurrence of Estrogenic Endocrine Disruptors in Groundwater	William Sonzogni, Jocelyn Hemming, Miel Barman and Steven Geis	7/1/2004 - 6/30/2006	UWS	WR04R 004	

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Development of Tools to Address	Lynn Markham, Charles	7/1/2004 -	UWS	WR04R	
Groundwater in Comprehensive	Dunning and Chin-Chun	6/30/2005		005	
Planning	Tang				
Mercury Speciation along a	David Armstrong and	7/1/2004 -	UWS	WR04R	
Groundwater Flowpath	Christopher L. Babiarz	6/30/2006		001	
Delineation of Flow Paths, Capture	Mary Anderson	7/1/2004 -	UWS	WR04R	
Zones and Source Areas, Allequash Basin,		6/30/2005		002	
Vilas County, Wisconsin					
Hydrostratigraphy of West-Central	David L. LePain and	7/1/2004 -	UWS	WR04R	
Wisconsin: A New Approach to Groundwater	Kenneth R. Bradbury	6/30/2005		006	
Management					
Monitoring Environmental Effects at an	William M. DeVita and	7/1/2004 -	UWS	WR04R	
Established Phytoremediation Site	Mark Dawson	6/30/2006		007	
Foundry Slag for Treating Arsenic in	Craig H. Benson and	7/1/2004 -	UWS	WR04R	
Groundwater and Drinking Water	David W. Blowes	6/30/2006		800	
A Comparison of USEPA-Approved	James Schauer, Jeremy	7/1/2004 -	UWS	WR04R	
Enzyme-Based Total Coliform/E. coli Tests for	Olstadt, Jon Standridge and	6/30/2005		003	
Microbiological Groundwater Monitoring and	Sharon Kluender				
Laboratory Consultation					
Mapping and Characterization of	Fermanich, Stieglitz,	7/1/2006 -	DNR	WR05R	183
Springs in Brown and Calumet Counties	Zorn	6/30/2007		012	
Identification and characterization of	Grote	7/1/2006 -	DNR	WR05R	184
springs in west-central Wisconsin		6/30/2007		011	
Assessing the Ecological Status and	Susan Swanson, Kenneth	7/1/2005 -	UWS	WR05R	185
Vulnerability of Springs in Wisconsin	Bradbury, David Hart	6/30/2007		004	
	,,	., ,			
A Survey of Baseflow for Groundwater	Kraft	7/1/2006 -	DNR	WR05R	186
Protection Areas Western Fox-Wolf		6/30/2008		014	
Watershed		, ,			
Evaluating drinking-well vulnerability to	Hunt, Borchardt	7/1/2006 -	DNR	WR05R	187
viruses	, , , , , , , , , , , , , , , , , , , ,	6/30/2008		010	
Disinfection of Enteric Viruses in	Harrington, Borchardt,	7/1/2006 -	DNR	WR05R	188
Wisconsin Municipal Groundwater Systems	Xagoraraki	6/30/2008		009	
,	S	, ,			
Groundwater Mounding and	Thompson	7/1/2006 -	DNR	WR05R	189
Contaminant Transport Beneath		6/30/2008		013	
Stormwater Infiltration Basins					
Centralizing Access to Groundwater	Markham, Tang,	7/1/2006 -	DNR	WR05R	190
Information for Use in Comprehensive	Dunning	6/30/2008		015	
Planning .		, ,			
Mechanisms of Groundwater Flow	Hart, Bradbury,	7/1/2006 -	DNR	WR05R	191
across Aquitards	Feinstein and Yikoff	6/30/2007	1	016	
Validation of Transport of VOCs from	Tuncer Edil, Craig	7/1/2005 -	UWS	WR05R	
Composite Liners	Benson,	6/30/2007		008	
Arsenic Species (III,V) Distribution in	Martin Shafer, Kristie	7/1/2005 -	UWS & USGS	WR05R	
Wisconsin Groundwaters: Field	Ellickson, James Schauer	6/30/2007	B	001	
Measurements and Prediction Using		-,,,	-		
Multivariate Analysis of Geochemical Data					
Prediction Using Multivariate Analysis of			1		
Geochemical Data			1		
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Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Measuring and Modeling Macroporous Soil Water and Solute Flux Below the Root Zone of a Plano Silt-Loam Soil	Birl Lowery, John Norman, Brian Lepore	7/1/2005 - 6/30/2007	UWS	WR05R 002	
Nitrate and Pesticide Penetration into a Northern Mississippi Valley Loess Hills Aquifer	George Kraft, Bryant Browne	7/1/2005 - 6/30/2007	UWS & USGS B	WR05R 003	
Climate Signals in Groundwater and Surface Water System: Spectral Analysis of Hydrologic Processes	Hector Bravo	7/1/2005 - 6/30/2007	UWS	WR05R 005	
Evaluation of On-Site Wastewater Treatment as a Source of Antibiotic Resistance Genes in Groundwater	Katherine McMahon	7/1/2005 - 6/30/2006	UWS	WR05R 006	
Transient Functioning of a Groundwater Wetland Complex, Allequash basin, Wisconsin	Mary Anderson	7/1/2005 - 6/30/2007	UWS	WR05R 007	
Mineral transformation and release of arsenic to solution under the oxidizing conditions of well disinfection	Gotkowitz, Roden, Schreiber, Shelobolina	7/1/2006- 6/30/2007	DNR		192
Precambrian Basement Surface Estimation using Coupled 3D Modeling of Gravity and Aeromagnetic Data in Fond du Lac County and Southeastern, Wisconsin	Skalbeck	7/1/2006- 6/30/2008	DNR		193
Groundwater recharge through a thick sequence of fine-grained sediment in the Fox River Valley, east-central Wisconsin	Hooyer, Hart, Bradbury, Mickelson	7/1/2006- 6/30/2007	DNR		194
Use of Human and Bovine Adenovirus for Fecal Source Tracking	Pedersen, McMahon, Kluender	7/1/2006- 6/30/2008	DNR		195
Knowledge Development for Groundwater Withdrawal Management around the Little Plover River	Clancy and Kraft	7/1/2006- 6/30/2008	DNR		196
Multi-Parameter, Remote Groundwater Monitoring with Referencing Using Crossed Optical Fiber Fluorescent Sensor Arrays	Peter Geissinger	7/1/2006 - 6/30/2008	UWS	WR06R 001	
Enhanced Reductive Dechlorination of Chlorinated Aliphatic Hydrocarbons: Molecular and Biochemical Analyses	William Hickey	7/1/2006 - 6/30/2008	UWS & USGS B	WR06R 002	
Application of LSQR to Calibration of a Regional MODFLOW Model: Trout Lake Basin, Wisconsin	Mary Anderson, Haijiang Zhang	7/1/2006 - 6/30/2007	UWS	WR06R 003	
Assessment of virus presence and potential virus pathways in deep municipal wells	Bradbury , Gotkowitz, Borchardt and Hunt	7/1/2007- 6/30/2008	DNR		197
Assessing Seasonal Variations in Recharge and Water Quality in the Silurian Aquifer in Areas with Thicker Soil Cover	Muldoon and Bradbury	7/1/2007- 6/30/2008	DNR		198

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Hydrostratigraphy and Groundwater	Mickelson and Anderson	7/1/2007-	DNR		199
Flow Model: Troy Valley Glacial Aquifer,		6/30/2008	2		
Southern Waukesha Co., WI		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Investigating groundwater recharge to	Hooyer, Hart, Mickelson	7/1/2007-	DNR		200
the Cambrian-Ordovician aquifer through	and Bradbury	6/30/2008			
fine-grained glacial deposits in the Fox River	,				
Valley, Wisconsin					
Water Balance Modeling for Irrigated	Lowery and Bland	7/1/2007-	DNR		201
and Natural Landscapes in Central Wisconsin		6/30/2009			
Understanding the Effects of	Kraft, Clancy and	7/1/2007-	DNR		202
Groundwater Pumping on Lake Levels	Mechenich	6/30/2009			
Assessing the Potential of Hormones	Hemming, Landreman	7/1/2007-	DNR		203
from Agricultural Waste to Contaminate	and Hedman	6/30/2009			
Groundwater					
Transport and Survival of Pathogenic	Jin Li, Ching-Hong Yang	7/1/2007 -	UWS	WR07R	
Bacteria Associated With Dairy Manure in Soil		6/30/2009		001	
and Groundwater					
Is Phosphorus-Enriched Groundwater	Bryant Browne	7/1/2007 -	UWS	WR07R	
Entering Wisconsin Streams?		6/30/2009	0110	002	
Occurrence and Generation of Nitrite in	Emily Stanley	7/1/2007 -	UWS	WR07R	
Ground and Surface Waters in an		6/30/2009	0110	003	
Agricultural Watershed		0,00,200			
Geochemical Characterization of Sulfide	John Luczaj, Michael	7/1/2007 -	UWS	WR07R	
Mineralization in Eastern Wisconsin	McIntire	6/30/2009	0.1.5	004	
Carbonate Rocks					
A Thermal Remote Sensing Tool for	Steven Loheide	7/1/2007 -	UWS	WR07R	
Mapping Spring and Diffuse	3.0.0.0.0.0.0.0	6/30/2009	0110	005	
Groundwater Discharge to Streams					
Monitoring Septic Effluent Transport and	Dante Fratta, David Hart	7/1/2007 -	UWS	WR07R	
Attenuation using Geophysical Methods		6/30/2009		006	
, , , , , , , , , , , , , , , , , , ,					
Influence of Wetland Hydrodynamics on	Jean Bahr, Eric Roden	7/1/2007 -	UWS	WR07R	
Subsurface Microbial Redox	,	6/30/2009		007	
Transformations of Nitrate and Iron					
Controls on Methylation of Groundwater	Martin Shafer, Chris	7/1/2007 -	UWS	WR07R	
Hg(II) in Hyporheic Zones of Wetlands	Babiarz	6/30/2009		008	
Drawdown in the Northeast	Luczaj and Hart	7/1/2008 -	DNR		204
Groundwater Management Area (Brown,	_	6/30/2009			
Outagamie, and Calumet Counties, WI)					
Human viruses as tracers of wastewater	Bradbury, Borchardt,	7/1/2008-	DNR		205
pathways into deep municipal wells	and Gotkowitz	12/31/2009			
Development and Validation of a PCR-	Long and Kluender	7/1/2008 –	DNR		206
based Quantification Method for		6/30/2009			
Rhodococcus coprophilus		1 ' '			
Groundwater Sustainability in a Humid	Madeline Gotkowitz		UWS	WR04R	
Climate: Groundwater Pumping,				009	
Groundwater Consumption and Land Use					
Change					
BC		1			

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Assessing Levels and Potential Health Effects of Endocrine Disrupting Chemicals in Groundwater Associated with Karst Areas in Northeast Wisconsin	Bauer-Dantoin, Fermanich, Zorn, UW – Green Bay	7/1/2008 – 6/30/2009	UWS	WR08R 004	
The lethal and sublethal effects of elevated groundwater nitrate concentrations on infaunal invertebrates in the Central Sand Plains	Stelzer, Eggert, and Muldoon, UW - Oshkosh	7/1/2008 – 6/30/2010	UWS	WR08R 003	
Use of the 2009 Behavioral Risk Factor Surveillance Survey to Assess the Safety of Private Drinking Water Supplies	Knobeloch, DHS	7/1/2008 – 6/30/2010	UWS	WR08R 001	
Combination of Co-Precipitation with Zeolite Filtration to Remove Arsenic from Contaminated Water	Li, UW - Parkside	7/1/2009 – 6/30/2010	UWS	WR08R 002	
Fecal Source Tracking Using Human and Bovine Adenovirus and Polyomaviruses	Pedersen, McMahon, Long	7/1/2009 – 6/30/2011	UWS	WR09R 002	
Predicting Mercury Methylation: Testing the Neutral Sulfide Speciation Model in a Groundwater-Dominated Wetland	Shafer	7/1/2009 – 6/30/2011	UWS	WR09R 003	
Assessing the Effect of Pleistocene Glaciation on the Water Supply of Eastern Wisconsin	Grundl, UW-Mil	7/1/2009 – 6/30/2010	UWS	WR09R 004	
Forecasting Impacts of Extreme Precipitation Events on Wisconsin's Groundwater Levels	Gotkowitz, WGNHS	7/1/2009 – 6/30/2010	UWS	WR09R 005	
DTS as a Hydrostratigraphic Characterization Tool	Bahr, Hart, UW-Mad	7/1/2009 – 6/30/2010	UWS	WR09R 006	
From sand bags to sanity: Lessons from the Midwest floods of 2008	D. Moynihan	3/1/2009 – 2/28/2010	UWS/ USGS	WR09R 001	
Opportunities for Reducing Water Use by Wisconsin Golf Courses	D. Soldat, J. Stier	7/1/2010 - 6/30/2012	DNR		207
Information Support for groundwater Management in the Wisconsin Central Sands	G. Kraft, D. Mechenich	7/1/2010 - 6/30/2012	DNR		208
Groundwater Recharge Characteristics and Subsurface Nutrient Dynamics Under Alternate Biofuel Cropping Systems in Wisconsin	A. Thompson, UW-Mad; K.J. Karthikeyan; R. Jackson	7/1/2010 – 6/30/2012	UWS	WR10R 003	
Groundwater nitrate processing in deep stream sediments	R. Stelzer UW-Osh; Bartsch	7/1/2010 – 6/30/2011	UWS	WR10R 005	
Reducing nitrate in groundwater with slow-release fertilizer	Ruark UW-Mad, Lowery, Buckley	7/1/2010 – 6/30/2012	UWS	WR10R 004	
Influence of Adsorbed Antibiotics on Water Quality and Soil Microbes	Li UW-Parkside, McWilliams	7/1/2010 – 6/30/2012		WR10R 006	

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Transport of manure-derived,	Xu UW-Mil	7/1/2010 -		WR10R	
tetracycline resistant Escherichia coli in		6/30/2012		007	
unsaturated soil		, ,			
Development of a User-Friendly	S. Loheide, UW-Mad	3/1/2010 -		WR10R	
Interface for Predicting Climate Change		2/28/2011		001	
Induced Changes in Evapo-transpiration					
Ecological Limits of Hydrologic	M. Diebel, DNR; J.	10/1/2011 -	DNR	<u> </u>	209
Alteration in Wisconsin Streams	Stewart, USGS	3/31/2013	DIVIN		203
Validation of a qPCR Assay for E. coli in	S. Long UW-SLH	7/1/2011 -	DNR		210
Drinking and Recreational Waters	J. Long OW-JEH	6/30/2013	DIVIN		210
Response of Ice Cover Lake Level and	C. Wu UW-Mad	3/1/2010 -	USGS**	WR10R	
Thermal Structure to Climate Change in	c. vva ovv-iviau	2/28/2011	0303	002	
Wisconsin Lakes		2,20,2011		002	
Silage Leachate: Waste Quality	R. Larson, J. Panuska UW-	7/1/2011 -	UWS	WR11R	
Assessment and Treatment	Mad	6/30/2013		007	
Establishing Paleoclimate Records from	M. Muldoon UW-Osh; S.	7/1/2011 -	UWS	WR11R	
Spring Tufa Deposits in the Driftless Area of	Swanson Beloit Col.	6/30/2012		004	
Wisconsin		,,,,,			
Preferential flow paths in heterogeneous	D. Hart WGNHS	7/1/2011 -	UWS	WR11R	
glacially-deposited aquitards		6/30/2012		005	
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The effects of particulate organic carbon	R. Stelzer, T. Scott, L.	7/1/2011 -	UWS	WR11R	
quantity and quality on denitrification of	Bartsch UW-Osh	6/30/2013		006	
groundwater nitrate					
Climate change impacts on stream	P. McIntyre UW-Mad	3/1/2011 -	UWS/	WR11R	
temperature and flow: consequences for		2/28/2013	USGS**	002	
Great Lakes fish migrations					
Simulating lake responses to climate	K. McMahon UW-Mad	3/1/2011 -	UWS/	WR11R	
change with a mechanistic water quality		2/28/2013	USGS**	001	
model					
Uncertainty and variability of Wisconsin	C. Wu	3/1/2011 –	UWS/ USGS	WR11R	
lakes in response to climate change		2/28/2013		003	
Identifying the controls on flow and	D. Hart WGNHS	7/1/2012 -	UWS	WR12R	
contaminant distribution in siliciclastic		6/30/2014		001	
bedrock aquifer systems					
Effects of nuanced changes in lot layout	S. Loheide UW-Mad	7/1/2012 -	UWS	WR12R	
and impervious area connectivity on urban		6/30/2014		002	
recharge					
An evaluation of the distribution and	J. Luczaj, M. Zorn UW-GB	7/1/2012 -	UWS	WR12R	
sources of dissolved strontium in the		6/30/2013		004	
groundwater of eastern Wisconsin, with a					
focus on Brown and Outagamie counties					
Transport of manure-derived	Xu UW-Mil	7/1/2012 -	UWS	WR12R	
Escherichia coli within naturally- fractured		6/30/2014		003	
dolomite					

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Hexavalent chromium (Cr(VI)) in WI groundwater: Identifying factors controlling the natural concentration and geochemical cycling in a diverse set of aquifers	P. Gorski, UW-Mad	7/1/2012 - 6/30/2014	UWS	WR12R 005	
Evaluation of manure and N fertilizer management strategies for corn to minimize nitrate loss	C. Laboski, UW-Mad	7/1/2012 - 6/30/2013	DNR		211
Selection and evaluation of chemical indicators for waste stream identification	W. DeVita, UW-SP	7/1/2012 - 6/30/2014	DNR		212
Meeting monitoring and information needs to support groundwater management and policy processes in the Wisconsin Central Sands	G. Kraft, UW-SP	7/1/2012 - 6/30/2014	DNR		213
Subsurface fate and transport of cryptosporidium in soils of Wisconsin's carbonate aquifer region	K.J. Karthikeyan, UW- Mad.	7/1/2012 - 6/30/2014	DNR		214
Impacts of potato and maize management and climate change on groundwater recharge across the Central Sands	Chris Kucharik, UW-Mad	7/1/2012 - 6/30/2014	DNR		215
Microbial community diversity as a predictor of virus survival in groundwater	Trina McMahon, UW- MSN and Mark Borchardt, USDA	7/1/13- 6/30/15	UWS	WR13R 001	
Assessing the Effect of Riverbank Inducement on Groundwater Quality	Tim Grundl, UW- Milwaukee	7/1/13- 6/30/15	UWS	WR13R 002	
Using the New Rome Formation as a geologic weighing lysimeter for water management in Wisconsin's sand plain	Hart, Bradbury, Parsen	7/1/2013 - 6/30/14	DNR		216
Impacts of a rural subdivision on groundwater: results of a decade of monitoring	Bradbury, Rayne, Parsen	7/1/2013 - 6/30/14	DNR		217
Characterizing the sources of elevated groundwater nitrate in Dane County, WI	McDonald, Lathrop, Bradbury, Sorsa	7/1/2013 - 6/30/15	DNR		218
Evaluating Chemical Tracers in Suburban Groundwater as Indicators of Nitrate-Nitrogen Sources	McGinley, DeVita	7/1/2013 - 6/30/15	DNR		219
Assessment of Environmental Impacts of Geothermal Source Heat Exchange	Christopher Choi, David Hart and James Tinjum, WGNHS	7/1/2014 - 6/30/16	UWS	WR14R 002	
Hydrologic Impacts of the Loss of Wisconsin's Winter on Surface Water- Groundwater Interactions	Steven Loheide, UW- MSN	7/1/2014 - 6/30/16	UWS	WR14R 003	
Effect of Source Chemistry on Mn- Bearing Solid Dissolution and Reactivity in Municipal Water Systems	Matthew Gindervogel and Christina Remucal, UW-MSN	7/1/2014 - 6/30/16	UWS	WR14R 004	
Design of a field-scale approach for evaluating nitrogen management practices impacts to groundwater	Kevin Masarik	7/1/2014 - 6/30/15	DNR		220

Title	Investigators	Contract Period	Funding Agency	UW #	DNR #
Reducing Human Health Risks from Groundwater: Estimating Private Well Testing Behaviors and Water Use Among Private Well Owners in Wisconsin	Kristen Malecki	7/1/2014 - 6/30/15	DNR		221
Meeting the Source Assessment Requirement under the RTCR: A Wisconsin Pilot Project	Sharon C. Long	7/1/2014 - 6/30/16	DNR		222
Monitoring and Modeling Support for Groundwater Management and Policy in the Wisconsin Central Sands	George Kraft	7/1/2014 - 6/30/16	DNR		223
An updated springs inventory for the State of Wisconsin	Kenneth Bradbury and Susan Swanson	7/1/2014 - 6/30/17	DNR		224
The Wonewoc and Tunnel City: A Potential Natural Source of Groundwater Contamination in Western & Central Wisconsin	Jay Zambito, Michael Parsen, Patrick McLaughlin, UW- Extension	7/1/15- 6/30/16	UWS	WR15R 004	
Long-term Alterations in Groundwater Chemistry Induced by Municipal Well Pumping	Jean Bahr, Madeline Gotkowitz, UW-Madison and UW-Extension	7/1/15- 6/30/17	UWS	WR15R 002	
Phosphorus & Arsenic Sensors for Real Time Environmental Monitoring	Daniel Noguera, Marc Anderson, UW-Madison	7/1/15- 6/30/17	UWS	WR15R 001	
Engaging Stakeholders to Improve the Use of Groundwater Flow Models for Decision Making	Kenneth Genskow, Kenneth Bradbury. UW- Madison and UW- Extension	7/1/15- 6/30/16	UWS	WR15R 005	
Predicting the locations of nitrate removal hotspots at the groundwater-surface water interface in Wisconsin streams	Robert Stelzer, UW- Oshkosh	7/1/15- 6/30/17	UWS	WR15R 003	
Describing connected fracture flow with pressure waves – oscillating flow interference testing	Michael Cardiff, UW- Madison	7/1/15- 6/30/17	DNR		225
Evaluation of Quantitative Real Time PCR (qPCR) for the Measurement of E. coli in Well Water Samples	Greg Kleinheinz, Nilay Sheth, UW-Oshkosh	7/1/15- 6/30/16	DNR		226
Anthropogenically driven changes to the metagenome of a shallow groundwater and its effect on aquifer reactivity	Tim Grundl, Ryan Newton, UW-Milwaukee	7/1/16- 6/30/18	UWS	WR16R 001	
Investigating the impact of nitrate- nitrogen contamination on uranium concentrations in Wisconsin groundwater	Amy Nitka, Paul McGinley, UW-Stevens Point	7/1/16- 6/30/17	uws	WR16R 002	
Geologic sources of radium to municipal wells in Wisconsin	Matthew Ginder-Vogel, Madeline Gotkowitz, UW Madison	7/1/16- 6/30/18	UWS	WR16R 006	
Characterizing the timing and variability of enteric pathogen contamination within the dolomite aquifer in northeastern WI	Maureen Muldoon, UW- Oshkosh and Mark Borchardt, USDA/USGS	7/1/16- 6/30/17	DNR		227

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Linking groundwater and climate to understand long-term lake level fluctuations in Wisconsin	Noah Lottig, UW- Madison	7/1/16- 6/30/18	DNR		228
Field verification of adenovirus assays for source tracking	Sharon Long, UW- Madison	7/1/16- 6/30/17	DNR		229
Evaluating the effects of septic system density on groundwater quality in Southeastern Wisconsin	James A. LaGro, UW- Madison	7/1/16- 6/30/17	DNR		230
Monitoring support for groundwater management in the Wisconsin Central Sands	George Kraft, UW- Stevens Point	7/1/16- 6/30/17	DNR		231
Source investigation of nitrate contamination for private wells in Eau Claire County	Laura Suppes, UW-Eau Claire	7/1/16- 6/30/18	DNR		232
Linking groundwater and nutrients to monitor fen ecosystems using airborne imaging spectroscopy	Eric Booth, Steven Loheide, David Bart, Philip Townsend, UW– Madison	7/1/17- 6/30/19	UWS	WR17R 001	
Historic changes in groundwater use by trees in Wisconsin due to high-capacity groundwater pumping and climate variability	Steven Loheide, UW–Madison	7/1/17- 6/30/19	UWS	WR17R 002	
Mapping the base of the Cambrian aquifer through geophysical modeling of Precambrian topography, southern Wisconsin	Esther Stewart, Madeline Gotkowitz, UW–Extension	7/1/17- 6/30/18	UWS	WR17R 003	
New proxy-based hydrological reconstructions over the past five centuries in southwest Wisconsin	Christopher Underwood, Evan Larson, UW–Platteville	7/1/17- 6/30/18	UWS	WR17R 004	
Quantifying effects of crop rotation on nitrate loading using lysimetry and groundwater monitoring approaches	Kevin Masarik, UW–Stevens Point	7/1/17- 6/30/19	DNR		233
Multi-instrument stream surveys with continuous data for better groundwater/surface water understanding in Wisconsin	Dave Hart, Susan Swanson, UW–Extension (WGNHS)	7/1/17- 6/30/19	DNR		234
The impact of dissolved organic matter composition on the formation of disinfection byproducts in groundwater	Christina Remucal, UW-Madison	7/1/2018 - 6/30/2020	UWS	WRI18 R003	
Improving water and nitrogen use efficiency under changing weather variability in the Central Sands	Christopher Kucharik, UW-Madison Matthew Ruark, UW- Madison	7/1/2018 - 6/30/2020	UWS	WRI18 R001	

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Dynamics of Arsenic concentration and speciation in Wisconsin private drinking water wells	Shangping Xu, UW- Milwaukee Yin Wang, UW- Milwaukee	7/1/2018 - 6/30/2020	UWS	WRI18 R002	
Identification of naturally occurring fluoride and selected metals in northwestern Wisconsin groundwater	Kelsey Prihoda, UW- Superior Thomas Markee, UW- Superior Christine Polkinghorne, UW- Superior	7/1/2018 - 6/30/2020	DNR		235
Geographic, hydrologic, and geochemical characterization of Ra contaminated groundwater in Wisconsin	Matthew Ginder- Vogel, UW-Madison Madeline Gotkowitz, UW-Extension Florence Olson, WI DNR	7/1/2018 - 6/30/2020	DNR		236
Assessment of pesticide contamination in suburban drinking water wells in Southeastern Wisconsin	Yin Wang, UW- Milwaukee Shangping Xu, UW- Milwaukee	7/1/2018 - 6/30/2020	DATCP	DATCP 2018-1	
Characterization of the geology and hydrogeology of the Rountree Formation in southwestern Wisconsin	Eric C. Carson, UW- Madison/WGNHS	7/1/19 – 6/30/21	DNR		237
Water security in Armenia, WI: Modeling for informed decision-making in a nitrate-impacted watershed	Michael Cardiff, UW- Madison; Stephanie DeVries, WGNHS	7/1/19 – 6/30/21	DNR		238
Impact of changing snow cover and frozen ground regimes on groundwater recharge	Steven P. Loheide, UW- Madison	7/1/19 – 6/30/21	UWS	WR19 R005	
Microbially-mediated oxidation of trace element-bearing sulfide minerals in sandstones of Trempealeau County, WI	Eric Roden, UW-Madison; Matthew Ginder-Vogel, UW-Madison; James Zambito, Beloit College; Lisa Haas, UW-Madison	7/1/19 – 6/30/21	UWS	WR19 R001	
Assessment of the source and mobility of phosphorus in the hydrologic system in western Wisconsin	Sarah A. Vitale, UW-Eau Claire; J. Brian Mahoney, UW-Eau Claire; Anna C. Baker, USGS	7/1/19 – 6/30/20	DNR	WR19 R002	239

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Integrative monitoring of neonicotinoid insecticides in baseflow-dominated streams on the Central Sand Plain	William M. DeVita, UW- Stevens Point	7/1/19 – 6/30/21	DATCP	DATCP 2019-1	
Sublethal effects of chronic exposure to neonicotinoid pesticides on aquatic organisms	Tisha King-Heiden, UW-La Crosse; Elisabeth Harrahy, UW-Whitewater	7/1/19 – 6/30/21	DATCP	DATCP 2019-2	
Aerial thermal imaging applied to Wisconsin 's groundwater, springs, thin soils, and slopes	David J. Hart, UW- Madison/WGNHS; Susan K. Swanson, Beloit College; J. Elmo Rawling, UW-Madison/WGNHS	7/1/19 – 6/30/20	UWS, DATCP	WR19 R003	
Investigation of PFAS adsorption by selected Wisconsin aquifer sediments	Yin Wang, UW- Milwaukee; Shangping Xu (Co-PI, UW- Milwaukee)	7/1/20- 6/30/22	DNR		240
Geophysics-informed transport and shallow bedrock topography in Northeast and Southcentral Counties in Wisconsin	Dante Fratta, UW- Madison; David Hart (Co- PI, UW-Madison), Michael Cardiff (Co-PI, UW-Madison), Francisco Arriaga (Co-PI, UW- Madison), Jingyi Huang (Co-PI, UW-Madison)	7/1/20- 6/30/22	DATCP, DNR	DATCP 2021-2	
Neonicotinoid contaminants in Wisconsin groundwater: relationships to landscape cropping system	Russell Groves, UW- Madison; David Hart (Co- PI, UW-Madison), Michael Parsen (Co-PI, UW-Madison), Benjamin Bradford (AI, UW- Madison)	7/1/20- 6/30/22	DATCP	DATCP 2021-1	
Investigating in-season cover crops for reducing nitrate loss to groundwater below potatoes	Kevin Masarik, UW- Stevens Point; Jacob Prater (Co-PI, UW- Stevens Point)	7/1/20- 6/30/22	uws	WR20 R001	
Valuing groundwater quality: A cost function analysis of Wisconsin water utilities	James Price, UW- Milwaukee	7/1/20- 6/30/22	uws	WR20 R002	
Source to sink evaluation of phosphorus in the hydrologic system in Wisconsin: Implications for lake eutrophication	Sarah Vitale, UW-Eau Claire; Anna Baker (Co- PI, USGS Upper Midwest Water Science Center), J. Brian Mahoney (Co-PI, University of Wisconsin- Eau Claire)	7/1/20- 6/30/21	UWS	WR20 R003	

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Correlating bedrock folds and fractures to arsenic detection in drinking water, southeast Wisconsin	Eric Stewart, UW- Madison; Esther Stewart (Co-PI, UW-Madison)	7/1/20- 6/30/21	uws	WR20 R004	
Investigating sources of salinity associated with Ra and Sr in the Cambrian-Ordovician aquifer system of eastern WI	Matthew Ginder Vogel, UW-Madison; Patrick Gorski (Co-PI, Wisconsin State Laboratory of Hygiene), Sean Scott (AI, Wisconsin State Laboratory of Hygiene)	7/1/20- 6/30/22	UWS	WR20 R005	