

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13AB-MT		Page 1 of 7
Title: Specific Requirements for Montana Raw and Finished Drinking Water		
Revision: 1	Replaces: 04/01/04	Effective: 07/01/04

1. Purpose:

To provide a listing of PDP identified required compounds for raw and finished drinking water.

2. Scope:

This standard operating procedure (SOP) shall be followed by the Montana Department of Agriculture laboratory analyzing raw and finished drinking water samples for PDP.

3. Outline of Procedure:

- 5.1 Compounds Required for Montana Raw and Finished Drinking Water Multiresidue Screen
- 5.2 Marker Pesticides for Montana Raw and Finished Drinking Water Multiresidue Screen

4. References:

- PDP Program Plan January – June 2004
 - Montana Department of Agriculture Raw and Finished Drinking Water LC Method Validation for Polar Pesticides, February 2, 2004
 - Montana Department of Agriculture Raw and Finished Drinking Water GC Method Validation for Non-Polar Pesticides, January 8, 2004
 - Montana Department of Agriculture Raw and Finished Drinking Water LC Method Validation for Triazole Fungicides, December 24, 2003
 - USDA/AMS PDP Federal/State Meeting, October 21-23, 2003
 - USDA/EPA US Triazoles Task Force Meeting, August 25, 2003
 - USDA/AMS-EPA Planning Meeting, March 14, 2001
 - USDA/AMS PDP Quality Assurance (QA)/Technical Meeting, February 21-22, 2001
 - Memo from Cathy Eiden, EPA/OPP/HED, to Tom Gilding, ACPA, Follow-up to October 28, 1998, Work Group Meeting
 - PDP/Drinking Water Monitoring Work Group Meeting, October 28, 1998
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- PDP/Drinking Water Monitoring Work Group Meeting, September 8, 1998
- USGS NAWQA Program Constituents (Occurrence Based)
- US EPA OGWDW/OW, Regulated Contaminants
- US EPA OGWDW/OW, Pesticides Considered Occurrence Priorities under the Candidate Contaminant List (CCL)
- US EPA OGWDW/OW, Pesticides under Unregulated Contaminants Monitoring
- US EPA OPP Potential PDP List, Scheduled REDs

5. Specific Procedures:

This standard operating procedure (SOP) represents minimum PDP requirements and is presented as a general guideline. Each laboratory shall have written procedures that provide specific details concerning how the procedure has been implemented in that laboratory.

5.1 Compounds Required for Montana Raw and Finished Drinking Water Multi Residue Screen

Water Compound	Pest Code
1,2,4-Triazole	A68
2,4-D	026
2,4-DB	317
Acetochlor	807
Alachlor	227
Aldrin	001
Atrazine	305
Bensulfuron methyl	ABR
Bentazon	758
Bifenthrin	930
Bromacil	153
Bromuconazole 46	ADU
Bromuconazole 47	ADV
Butachlor	806
Butylate	783
Carbaryl	102

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Water Compound	Pest Code
Carbofuran	180
Chlorfenvinphos total	AAK
Chlorimuron ethyl	717
Clopyralid	B46
Cyanazine	228
Cycloate	232
Cyfluthrin	781
Cyhalothrin (total)	AEL
Cypermethrin	597
Cyproconazole	A22
Deltamethrin	612
Desethyl atrazine	964
Desisopropyl atrazine	785
Difenoconazole	ABK
Dimethenamid	ADD
Disulfoton	117
Disulfoton sulfone	216
Diuron	032
Epoxyconazole	B53
EPTC	200
Ethion	107
Ethoprop	175
Fenbuconazole	A30
Fenitrothion	391
Fenpropathrin	808
Fenthion	177
Fenvalerate	546
Fluvalinate	297
Halosulfuron methyl	AEH
Hexaconazole	954
Hydroxy atrazine	AED
Imazamethabenz acid	AGE
Imazamethabenz ester	753
Imazamox	ACA

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Water Compound	Pest Code
Imazapic	ACZ
Imazapyr	ACB
Imazaquin	ACC
Imazethapyr	ACD
Lindane	050
Linuron	129
Malathion	052
MCPA	318
MCPB	620
Metalaxyl	607
Metolachlor	283
Metribuzin	181
Metsulfuron methyl	ACI
Myclobutanil	679
Neburon	061
Nicosulfuron	ACM
Parathion ethyl	065
Parathion methyl	057
Permethrin, cis	222
Permethrin, trans	223
Picloram	329
Prallethrin	ADC
Prometon	942
Prometryn	249
Propachlor	675
Propanil	341
Propiconazole	264
Resmethrin	556
Siduron	ACT
Simazine	149
Sulfometuron methyl	ACP
Tebuconazole	A58
Tebuthiuron	780
Tefluthrin	B26

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Water Compound	Pest Code
Terbufos	205
Tetraconazole	ADO
Tetramethrin	947
Thifensulfuron	AEF
Thiobencarb	726
Triadimefon	608
Triadimenol	638
Triallate	621
Triasulfuron	ADP
Triazole acetic acid	ADX
Triazole alanine	ADW
Triticonazole	ADR

5.2 Marker Pesticides for Montana Raw and Finished Drinking Water Multiresidue Screening

To be determined by the analytical laboratory in consultation with the PDP Technical Director.

For each set, the laboratory shall prepare a spike sample by fortifying a well water sample with all reported compounds at two times the level of quantitation (LOQ).

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Gail Parker

6-16-04

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6-18-04

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