

## **APPENDIX 2**

### **SAMPLE PARAMETER TABLES**

Each table in this appendix provides sample parameter information for the groundwater studies discussed in this report including:

- Sample parameter names.
- Sample parameter CAS Number [in brackets].
- Sample parameter measurement units.
- Sample parameter detection or reporting limits.
- Sample parameter drinking water standard (if applicable).

**Table 1**  
**Prineville Groundwater Study (1993)**  
**Volatile Organic Compounds**

Notes:

- All measurements in mg/L.
- N.A. = Not Available or Not Applicable.

Constituent	CAS Number	Method Reporting Limit	Drinking Water Standard
Acrolein (2-Propenal)	107-02-8	0.0015	N.A.
Benzene	71-43-2	0.0005	0.005
Bromodichloromethane	75-27-4	0.0005	0.08
Bromoform	75-25-2	0.0005	0.08
Bromomethane	74-83-9	0.0005	N.A.
2-Butanone (MEK)	78-93-3	0.05	N.A.
Carbon Tetrachloride	56-23-5	0.0005	0.005
Chlorobenzene	108-90-7	0.0005	0.1
Chloroethane	75-00-3	0.0005	N.A.
2-Chloroethyl Vinyl Ether	110-75-8	0.005	N.A.
Chloroform	67-66-3	0.0005	0.08
Chloromethane	74-87-3	0.0005	N.A.
Dibromochloromethane	124-48-1	0.0005	0.08
1,2-Dibromoethane (EDB)	106-93-4	0.0005	0.00005
1,2-Dichlorobenzene	95-50-1	0.0005	0.6
1,3-Dichlorobenzene	541-73-1	0.0005	N.A.
1,4-Dichlorobenzene	106-46-7	0.0005	0.075
1,1-Dichloroethane	75-34-3	0.0005	N.A.
1,2-Dichloroethane	107-06-2	0.0005	0.005
cis-1,2-Dichloroethylene	156-59-2	0.0005	N.A.
trans-1,2-Dichloroethylene	156-60-5	0.0005	N.A.
1,1-Dichloroethylene	75-35-4	0.0005	0.007
1,2-Dichloropropane	78-87-5	0.0005	0.005
trans-1,3-Dichloropropene	10061-02-6	0.0005	N.A.
1,2-Dimethylbenzene	95-47-6	0.0005	N.A.
1,3-Dimethylbenzene	108-38-3	0.0005	N.A.
1,4-Dimethylbenzene	106-42-3	0.0005	N.A.
Ethylbenzene	100-41-4	0.0005	0.7
Methylene Chloride	75-09-2	0.0005	0.005
2-Methyl-4-Pentanone (MIBK)	108-10-1	0.005	N.A.
Styrene	100-42-5	0.0005	0.1
1,1,2,2-Tetrachloroethane	79-34-5	0.0005	N.A.
1,1,2,2-Tetrachloroethylene	127-18-4	0.0005	0.005
Toluene	108-88-3	0.0005	1
1,1,1-Trichloroethane	71-55-6	0.0005	0.2
1,1,2-Trichloroethane	79-00-5	0.0005	0.005
Trichloroethylene	79-01-6	0.0005	0.005
Trichlorofluoromethane	75-69-4	0.0005	N.A.
1,2,4-Trimethylbenzene	95-63-6	0.0005	N.A.
Vinyl Chloride	75-01-4	0.0005	0.002

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**Table 2**  
**Prineville Groundwater Study (1993)**  
**Pesticides**

Notes:

- All measurements in mg/L.
- N.A. = Not Available or Not Applicable.

Constituent	CAS Number	Method Reporting Limit	Drinking Water Standard
Aldicarb	116-06-3	0.0036	0.003
Atrazine	1912-24-9	0.0001	0.003
Bromacil	314-40-9	0.0015	N.A.
2,4-D	94-75-7	0.0001	N.A.
Carbofuran	1563-66-2	0.0074	0.04
Dinoseb	88-85-7	0.0001	0.007
Diuron	330-54-1	0.0004	N.A.
Metribuzin	21087-64-9	0.0001	N.A.
Oxamyl	23135-22-0	0.0064	N.A.
Nitrogen/Phosphorus Screen	Various	N.A.	N.A.
OCL Screen	Various	N.A.	N.A.
OP Screen	Various	N.A.	N.A.
Phenoxyherbicide Screen	Various	N.A.	N.A.

**Table 3**  
**Prineville Groundwater Study (1993)**  
**Metals, Nutrients, Physical Parameters**

Notes:

- All measurements in mg/L.
- N.A. = Not Available or Not Applicable.

Constituent	CAS #	Method Reporting Limit	Drinking Water Standard
Alkalinity	N.A.	1	N.A.
Aluminum	7429-90-5	0.1	N.A.
Ammonia	7664-41-7	0.02	N.A.
Arsenic	7440-38-2	0.005	0.01
Barium	7440-39-3	0.03	2
Beryllium	7440-41-7	0.01	0.004
Boron	7440-42-8	0.03	N.A.
Cadmium	7440-43-9	0.01	0.005
Calcium	7440-70-2	0.1	N.A.
Chemical Oxygen Demand	N.A.	5	N.A.
Chloride	16887-00-6	0.5	N.A.
Chromium	7440-47-3	0.03	0.1
Cobalt	7440-48-4	0.06	N.A.
Conductivity	N.A.	1 µmhos/cm	N.A.
Copper	7440-50-8	0.02	1.3 (Action Level)
Dissolved Oxygen	N.A.	0.1	N.A.
Fluoride	7681-49-4	0.1	4
Hardness	N.A.	3	N.A.
Iron	7439-89-6	0.04	N.A.
Lanthanum	7439-91-0	0.05	N.A.

Lead	7439-92-1	0.005	0.015 (Action Level)
Lithium	7439-93-2	0.05	N.A.
Magnesium	7439-95-4	0.5	N.A.
Manganese	7439-96-5	0.01	N.A.
Nickel	7440-02-2	0.04	N.A.
Nitrate/Nitrite-N	N.A.	0.02	10
pH	N.A.	0.1 S.U.	6.5-8.5
Potassium	7440-09-7	0.5	N.A.
Selenium	7782-49-2	0.005	0.05
Silica	7631-86-9	0.3	N.A.
Silver	7440-22-4	0.01	N.A.
Sodium	7440-23-5	0.5	N.A.
Sulfate	14808-79-8	0.2	N.A.
Temperature	N.A.	0.1°C	N.A.
Total Dissolved Solids	N.A.	1	N.A.
Total Organic Carbon	N.A.	1	N.A.
Vanadium	7440-62-2	0.03	N.A.
Zinc	7440-66-6	0.02	N.A.

**Table 4**  
**Statewide Ambient Monitoring Program**  
**Oregon Department of Agriculture Pesticide Screens**

Notes:

- Reporting limits in ug/L; Drinking water standards in mg/L.
- N.A. = Not Available or Not Applicable.

Constituent	CAS #	Reporting Limit (ug/L)	Drinking Water Standard (mg/L)
<b>Nitrogen-Phosphorus &amp; Organo Phosphate Screens*</b>			
Alachlor	15972-60-8	0.5	0.002
Atrazine	1912-24-9	0.1	0.003
Bromacil	314-40-9	2.2	N.A.
Butachlor	23184-66-9	1.5	N.A.
Butylate	2008-41-5	2.0	N.A.
Carboxin	5234-68-4	3.0	N.A.
Chlorpropham	101-21-3	1.0	N.A.
Cycloate	1134-23-2	10.0	N.A.
Diphenamid *	957-51-7	2.0	N.A.
EPTC (Eptam)	759-94-4	1.0	N.A.
Ethoprop *	13194-48-4	0.2	N.A.
Fenamiphos *	22224-92-6	0.2	N.A.
Hexazinone	51235-04-2	1.0	N.A.
Mevinphos *	7786-34-7	0.3	N.A.
Metolachlor	51218-45-2	1.0	N.A.
Metribuzin	21087-64-9	1.0	N.A.
Napropamide	15299-99-7	0.5	N.A.
Prometon	1610-18-0	2.0	N.A.
Prometryn	7287-19-6	0.2	N.A.
Propazine	139-40-2	0.2	N.A.
Simazine	122-34-9	0.2	0.004
Tebuthiuron	34014-18-1	0.45	N.A.
<b>OCL/Organo Chlorides Screen</b>			
4,4-DDD	72-54-8	0.50	N.A.

4,4-DDE	72-55-9	0.50	N.A
4,4-DDT	50-29-3	0.50	N.A
Aldrin	309-00-2	0.50	N.A
Alpha-Chlordane	5103-71-9	0.30	0.002
Alpha-HCH	319-84-6	0.12	N.A
Beta-HCH	319-85-7	0.12	N.A
Chlorothalonil	1897-45-6	0.20	N.A
cis-Permethrin	54774-45-7	1.80	N.A
Dieldrin	60-57-1	0.50	N.A
Endosulfan Sulfate	1031-07-8	0.50	N.A
Endrin	72-20-8	0.10	0.002
Gamma-Chlordane	12789-03-6	0.30	0.002
Gamma-HCH	58-89-9	0.09	N.A
Heptachlor	76-44-8	0.10	0.0004
Heptachlor-epoxide	1024-57-3	0.10	0.0002
Hexachlorobenzene	118-74-1	0.10	0.001
Methoxychlor	72-43-5	0.10	0.04
Propachlor	1918-16-7	1.30	N.A
trans-Permethrin	51877-74-8	1.00	N.A
Trifluralin	1582-09-8	0.50	N.A

**Phenoxy Herbicide Screen**

2,4,5-T	93-76-5	0.20	N.A
2,4,5-TP	93-72-1	0.20	N.A
2,4-D	94-75-7	0.30	0.07
2,4-DB	94-82-6	1.00	N.A
DCPA Acid (Dacthal)	1861-32-1	0.10	N.A
Dicamba	1918-00-9	1.00	N.A
Dichlorprop	120-36-5	0.50	N.A
Dinoseb	88-85-7	1.00	0.007
PCP	87-86-5	0.10	0.001
Picloram	1918-02-1	2.00	0.5

**HPLC/UV Screen**

Diuron	330-54-1	3	N.A
PCNB (Terachlor)	82-68-8	3.6	N.A
Demeton	8065-48-3	0.2	N.A

**Other Pesticides Tested**

Garlon (Triclopyr)	55335-06-3	N.A	N.A
MCPA	94-74-6	N.A	N.A
Terbacil	5902-51-2	N.A	N.A
Triademefon	N.A.	N.A	N.A
Chlordane	12789-03-6	N.A	0.002
Diazinon	333-41-5	N.A	N.A
Captan	133-06-2	N.A	N.A
Silvex	93-72-1	N.A	N.A
Glyphosate	1071-83-6	N.A	0.7
Phorate	298-02-2	N.A	N.A
Dimethoate	60-51-5	N.A	N.A
Dichlobenil	1194-65-6	N.A	N.A
Iprodione	36734-19-7	N.A	N.A
Bladex/Cyanazine	21725-46-2	N.A	N.A
Chlorpyrifos	2921-88-2	N.A	N.A
Norflurazon	27314-13-2	N.A	N.A
Disulfotol	298-04-4	N.A	N.A
Dyfonate/Fonofos	944-22-9	N.A	N.A
AMPA (Glyphosate by product)	N.A.	N.A.	N.A.

<b>Carbamate Screen</b>			
3-Hydroxycarbofuran	16655-82-6	5	N.A
Aldicarb	116-06-3	1	N.A
Aldicarb Sulfone	1646-88-4	1	N.A
Aldicarb Sulfoxide	1646-87-3	1	N.A
Baygon	114-26-1	1	N.A
Carbaryl	63-25-2	1	N.A
Carbofuran	1563-66-2	1	0.04
Methiocarb	2032-65-7	1	N.A
Methomyl	16752-77-5	1	N.A
Oxamyl	23135-22-0	1	0.2

**Table 5**  
**La Pine Groundwater Study (1993)**  
**Volatile Organic Compounds**

Notes:

- All measurements in mg/L.
- N.A. = Not Available or Not Applicable.

<b>Constituent</b>	<b>CAS Number</b>	<b>Method Reporting Limit</b>	<b>Drinking Water Standard</b>
Acrolein (2-Propenal)	107-02-8	0.0015	N.A.
Benzene	71-43-2	0.0005	0.005
Bromodichloromethane	75-27-4	0.0005	0.08
Bromoform	75-25-2	0.0005	0.08
Bromomethane	74-83-9	0.0005	N.A.
2-Butanone (MEK)	78-93-3	0.05	N.A.
Carbon Tetrachloride	56-23-5	0.0005	0.005
Chlorobenzene	108-90-7	0.0005	0.1
Chloroethane	75-00-3	0.0005	N.A.
2-Chloroethyl Vinyl Ether	110-75-8	0.005	N.A.
Chloroform	67-66-3	0.0005	0.08
Chloromethane	74-87-3	0.0005	N.A.
Dibromochloromethane	124-48-1	0.0005	0.08
1,2-Dibromoethane (EDB)	106-93-4	0.0005	0.00005
1,2-Dichlorobenzene	95-50-1	0.0005	0.6
1,3-Dichlorobenzene	541-73-1	0.0005	N.A.
1,4-Dichlorobenzene	106-46-7	0.0005	0.075
1,1-Dichloroethane	75-34-3	0.0005	N.A.
1,2-Dichloroethane	107-06-2	0.0005	0.005
cis-1,2-Dichloroethylene	156-59-2	0.0005	N.A.
trans-1,2-Dichloroethylene	156-60-5	0.0005	N.A.
1,1-Dichloroethylene	75-35-4	0.0005	0.007
1,2-Dichloropropane	78-87-5	0.0005	0.005
cis-1,3-Dichloropropene	10061015	0.0005	N.A.
trans-1,3-Dichloropropene	10061-02-6	0.0005	N.A.
1,2-Dimethylbenzene	95-47-6	0.0005	N.A.
1,3-Dimethylbenzene	108-38-3	0.0005	N.A.
1,4-Dimethylbenzene	106-42-3	0.0005	N.A.
Ethylbenzene	100-41-4	0.0005	0.7
Methylene Chloride	75-09-2	0.0005	0.005
2-Methyl-4-Pentanone (MIBK)	108-10-1	0.005	N.A.
Styrene	100-42-5	0.0005	0.1

1,1,2,2-Tetrachloroethane	79-34-5	0.0005	N.A.
1,1,2,2-Tetrachloroethylene	127-18-4	0.0005	0.005
Toluene	108-88-3	0.0005	1
1,1,1-Trichloroethane	71-55-6	0.0005	0.2
1,1,2-Trichloroethane	79-00-5	0.0005	0.005
Trichloroethylene	79-01-6	0.0005	0.005
Trichlorofluoromethane	75-69-4	0.0005	N.A.
1,2,4-Trimethylbenzene	95-63-6	0.0005	N.A.
Vinyl Chloride	75-01-4	0.0005	0.002

**Table 6**  
**La Pine Groundwater Study (1993)**  
**Pesticides**

Notes:

- All measurements in mg/L.
- N.A. = Not Available or Not Applicable.

<b>Constituent</b>	<b>CAS Number</b>	<b>Method Reporting Limit</b>	<b>Drinking Water Standard</b>
Atrazine	1912-24-9	0.0001	0.003
Bromacil	314-40-9	0.0022	N.A.
2,4-D	94-75-7	0.0005	N.A.
Diuron	330-54-1	0.0005	N.A.
Diclobenil	1194-65-6	0.0006	N.A.
Dicamba	1918-00-9	0.0002	N.A.
Picloram	1918-02-1	0.0002	0.5

**Table 7**  
**La Pine Groundwater Study (1993)**  
**Metals, Nutrients, Physical Parameters**

Notes:

- All measurements in mg/L.
- N.A. = Not Available or Not Applicable.

<b>Constituent</b>	<b>CAS #</b>	<b>Method Reporting Limit</b>	<b>Drinking Water Standard</b>
Alkalinity	N.A.	1	N.A.
Aluminum	7429-90-5	0.1	N.A.
Ammonia	7664-41-7	0.02	N.A.
Arsenic	7440-38-2	0.005	0.01
Barium	7440-39-3	0.03	2
Beryllium	7440-41-7	0.01	0.004
Boron	7440-42-8	0.03	N.A.
Cadmium	7440-43-9	0.01	0.005
Calcium	7440-70-2	0.1	N.A.
Chemical Oxygen Demand	N.A.	5	N.A.
Chloride	16887-00-6	0.5	N.A.
Chromium	7440-47-3	0.03	0.1
Cobalt	7440-48-4	0.06	N.A.
Conductivity	N.A.	1 µmhos/cm	N.A.

Copper	7440-50-8	0.02	1.3 (Action Level)
Hardness	N.A.	3	N.A.
Iron	7439-89-6	0.04	N.A.
Lanthanum	7439-91-0	0.05	N.A.
Lead	7439-92-1	0.005	0.015 (Action Level)
Lithium	7439-93-2	0.05	N.A.
Magnesium	7439-95-4	0.5	N.A.
Manganese	7439-96-5	0.01	N.A.
Mercury	7439-97-6	0.0005	0.002
Molybdenum	7439-98-7	0.05	N.A.
Nickel	7440-02-2	0.04	N.A.
Nitrate/Nitrite-N	N.A.	0.02	10
pH	N.A.	0.1 S.U.	6.5-8.5
Potassium	7440-09-7	0.5	N.A.
Selenium	7782-49-2	0.005	0.05
Silica	7631-86-9	0.3	N.A.
Silver	7440-22-4	0.01	N.A.
Sodium	7440-23-5	0.5	N.A.
Sulfate	14808-79-8	0.2	N.A.
Temperature	N.A.	0.1°C	N.A.
Total Dissolved Solids	N.A.	1	N.A.
Total Kjeldahl Nitrogen	N.A.	0.2	N.A.
Total Organic Carbon	N.A.	1	N.A.
Total Phosphate	N.A.	0.01	N.A.
Turbidity	N.A.	1 NTU	N.A.
Vanadium	7440-62-2	0.03	N.A.
Zinc	7440-66-6	0.02	N.A.