

## Table 9

# Toxic water pollution in Minnesota

### Companies reporting toxic discharges to water (1990-1994)

City: Anoka, Minnesota

Facility: **Federal-Hoffman Inc.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
<b>All toxic chemicals</b>		80	30	30	15	15	<b>170</b>
Antimony compounds	Rum River		5	5	5	5	<b>20</b>
Copper compounds	Rum River		5	5	5	5	<b>20</b>
Lead compounds	Rum River		5	5	5	5	<b>20</b>
Chromium compounds	Rum River		5	5			<b>10</b>
Nickel compounds	Rum River		5	5			<b>10</b>
Zinc compounds	Rum River		5	5			<b>10</b>
Ethylene glycol	Unknown	5					<b>5</b>
Toluene	Unknown	5					<b>5</b>
Xylene (mixed isomers)	Unknown	5					<b>5</b>
Phosphoric acid	Unknown	5					<b>5</b>
Dichloromethane	Unknown	5					<b>5</b>
n-Butyl alcohol	Unknown	5					<b>5</b>
1,1,1-Trichloroethane	Unknown	5					<b>5</b>
Lead compounds	Unknown	5					<b>5</b>
Zinc compounds	Unknown	5					<b>5</b>
Chromium compounds	Unknown	5					<b>5</b>
Nickel compounds	Unknown	5					<b>5</b>
Copper compounds	Unknown	5					<b>5</b>
Antimony compounds	Unknown	5					<b>5</b>
Sulfuric acid	Unknown	5					<b>5</b>
Nitric acid	Unknown	5					<b>5</b>
Methyl ethyl ketone	Unknown	5					<b>5</b>

City: Blue Earth, Minnesota

Facility: **Darling Intl. Inc.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
<b>All toxic chemicals</b>		1,460	773	33,977	1,852		<b>38,062</b>
Ammonia	Blue Earth River	1,460	773	33,977	1,852		<b>38,062</b>

City: Brainerd, Minnesota

Facility: **Potlatch Corp.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
<b>All toxic chemicals</b>		5,382	12,000	18,800	17,093	1,466	<b>54,741</b>
Ammonia	Mississippi River	5,370	12,000	18,800	17,093	1,466	<b>54,729</b>
Hydrochloric acid	Mississippi River	12					<b>12</b>

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Companies reporting toxic discharges to water (1990-1994)

City: Columbia Heights, Minnesota

Facility: **Advanced Flex Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		53,946					<b>53,946</b>
Ammonium sulfate (solution)	Unknown	53,946					<b>53,946</b>

City: Columbia Heights, Minnesota

Facility: **Invest Cast Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		1,111					<b>1,111</b>
Chromium	Unknown	1,111					<b>1,111</b>

City: Cottage Grove, Minnesota

Facility: **3M**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		363,187	312,216	260,895	276,817	23,897	<b>1,237,012</b>
Ammonia	Mississippi River	310,000	290,000	240,000	250,000	18,700	<b>1,108,700</b>
Acetone	Mississippi River	19,000	11,000	8,900	14,000		<b>52,900</b>
Methanol	Mississippi River	20,000	20	19	14	8	<b>20,061</b>
Methyl methacrylate	Mississippi River	2,100	4,600	5,600	5,500	1,700	<b>19,500</b>
Zinc compounds	Mississippi River	6,100	4,000	2,600	1,600	1,800	<b>16,100</b>
Dichloromethane	Mississippi River	120	2	540	2,900	19	<b>3,581</b>
Formaldehyde	Mississippi River	1,100	1,100	1,000	3	1	<b>3,204</b>
Chlorine	Mississippi River	2,300	350				<b>2,650</b>
Methyl ethyl ketone	Mississippi River	1,900		550	18	18	<b>2,486</b>
Cobalt compounds	Mississippi River		940	820	290	350	<b>2,400</b>
Nickel compounds	Mississippi River			360	750	680	<b>1,790</b>
Ethylbenzene	Mississippi River	10	1	22	1,500	44	<b>1,577</b>
Toluene	Mississippi River	58	7	10	150	290	<b>515</b>
Phenol	Mississippi River	380	25	19			<b>424</b>
Xylene (mixed isomers)	Mississippi River	34	12	190	61	80	<b>377</b>
Silver compounds	Mississippi River		130	200			<b>330</b>
Chloroform	Mississippi River					190	<b>190</b>
1,1,1-Trichloroethane	Mississippi River	46	13	41			<b>100</b>
Ethyl acrylate	Mississippi River		16	19	25	16	<b>76</b>
Glycol ethers	Mississippi River	16					<b>16</b>
1,2-Dichloroethane	Mississippi River	14					<b>14</b>
2-Ethoxyethanol	Mississippi River			5	6	1	<b>12</b>
1,1,2-Trichloroethane	Mississippi River	4					<b>4</b>
Acrylic acid	Mississippi River	2					<b>2</b>
Ethylene glycol	Mississippi River	2					<b>2</b>
Catechol	Mississippi River	1					<b>1</b>

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Companies reporting toxic discharges to water (1990-1994)

City: Crookston, Minnesota

Facility: **American Crystal Sugar Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		55			26,914	8,639	<b>35,608</b>
Ammonia	Red Lake River	55			26,914	8,639	<b>35,608</b>

City: Dawson, Minnesota

Facility: **Ag Processing Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		11,250	250	250	250	85	<b>12,085</b>
Chlorine	West Fork - Lac Qui Parle River	11,250	250	250	250	85	<b>12,085</b>

City: Duluth, Minnesota

Facility: **ME Intl.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		158	195	249	216	131	<b>949</b>
Chromium	St. Louis River	101	92	148	125	125	<b>591</b>
Manganese	St. Louis River	57	101	98	84		<b>340</b>
Molybdenum trioxide	St. Louis River				4	5	<b>9</b>
Nickel	St. Louis River		2	3	2	1	<b>8</b>
Aluminum (fume or dust)	St. Louis River				1		<b>1</b>

City: East Grand Forks, Minnesota

Facility: **American Crystal Sugar Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		250			10,300	24,700	<b>35,250</b>
Ammonia	Red River	250			10,300	24,700	<b>35,250</b>

City: Fridley, Minnesota

Facility: **FMC Corp. Armament Sys. Div.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>					71	58	<b>129</b>
Copper	Mississippi River				59	58	<b>117</b>
Nickel	Mississippi River				11		<b>11</b>
Chromium	Mississippi River				1		<b>1</b>

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Companies reporting toxic discharges to water (1990-1994)

City: Glencoe, Minnesota

Facility: **Pillsbury/green Giant Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>			250	5			<b>255</b>
Ammonia	Buffalo Creek		250	5			<b>255</b>

City: Hastings, Minnesota

Facility: **Conagra Flour Milling Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		250					<b>250</b>
Chlorine	Vermillion River	250					<b>250</b>

City: International Falls, Minnesota

Facility: **Boise Cascade Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		75,400	93,900	78,900	22,200	137,060	<b>407,460</b>
Methanol	Rainy River		80,000	73,000	18,000	130,000	<b>301,000</b>
Chloroform	Rainy River	70,000	12,000	4,200	4,000	6,900	<b>97,100</b>
Ammonia	Rainy River	3,800	1,900	1,700	200	160	<b>7,760</b>
Catechol	Rainy River	1,600					<b>1,600</b>

City: Little Falls, Minnesota

Facility: **Hennepin Paper Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		250	14	40			<b>304</b>
C.I. Basic Green 4	Mississippi River	250	14	40			<b>304</b>

City: Luverne, Minnesota

Facility: **IBP Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		4,067		1,200	22,000	13,000	<b>40,267</b>
Ammonia	Rock River	4,067		1,200	22,000	13,000	<b>40,267</b>

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Companies reporting toxic discharges to water (1990-1994)

City: Mankato, Minnesota

Facility: **Midwest Electric Prods. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>					250		<b>250</b>
1,1,1-Trichloroethane	No Name Creek				250		<b>250</b>

City: Minneapolis, Minnesota

Facility: **Minnesota Metal Finishing Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>					3,500	3,500	<b>7,000</b>
Sulfuric acid	Unknown				750	750	<b>3,000</b>
Nitric acid	Unknown				750	750	<b>3,000</b>
Hydrochloric acid	Unknown				250	250	<b>1,000</b>

City: Moorhead, Minnesota

Facility: **American Crystal Sugar Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		250	1,800	35,800	35,600	13,000	<b>86,450</b>
Ammonia	Red River	250	1,800	35,800	35,600	13,000	<b>86,450</b>

City: Rosemount, Minnesota

Facility: **Koch Refining Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		246,332	183,762	14,760	17,474	53,892	<b>516,220</b>
Ammonia	Mississippi River	240,000	180,000	11,000	14,000	50,000	<b>495,000</b>
Barium compounds	Mississippi River	980	1,300	1,400	1,300	850	<b>5,830</b>
Selenium compounds	Mississippi River	630				1,900	<b>2,530</b>
Silver compounds	Mississippi River	65	710	780	730		<b>2,285</b>
Hydrogen cyanide	Mississippi River	810	250	280	260	620	<b>2,220</b>
Zinc compounds	Mississippi River	520	440	480	450		<b>1,890</b>
Phenol	Mississippi River	1,300	290	130	56	74	<b>1,850</b>
Nickel compounds	Mississippi River	400	220	240	230		<b>1,090</b>
Chromium compounds	Mississippi River	610	210	64	94	88	<b>1,066</b>
Manganese compounds	Mississippi River	100	130	150	140	360	<b>880</b>
Cobalt compounds	Mississippi River	130	170	190	170		<b>660</b>
Lead compounds	Mississippi River	520					<b>520</b>
Arsenic compounds	Mississippi River	150					<b>150</b>
Copper compounds	Mississippi River		42	46	44		<b>132</b>
Beryllium compounds	Mississippi River	65					<b>65</b>
Cadmium compounds	Mississippi River	52					<b>52</b>

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Companies reporting toxic discharges to water (1990-1994)

City: Rosemount, Minnesota

Facility: **Continental Nitrogen**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>				250			<b>250</b>
Ammonium nitrate (solution)	Mississippi River			250			<b>250</b>

City: Saint Louis Park, Minnesota

Facility: **Acsist Assoc. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>			120	110	50		<b>280</b>
Chlorine	Minnehaha Creek		120	110	50		<b>280</b>

City: Saint Paul, Minnesota

Facility: **Metalcote Grease & Oil Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		372	250				<b>622</b>
Ethylene glycol	Mississippi River	372	250				<b>622</b>

City: Saint Paul, Minnesota

Facility: **North Star Steel Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>						365	<b>365</b>
Zinc compounds	Fish Creek					168	<b>168</b>
Molybdenum trioxide	Fish Creek					110	<b>110</b>
Zinc compounds	North Star Lake					66	<b>66</b>
Molybdenum trioxide	North Star Lake					14	<b>14</b>
Chromium compounds	North Star Lake					2	<b>2</b>
Copper compounds	North Star Lake					2	<b>2</b>
Lead compounds	North Star Lake					2	<b>2</b>
Nickel compounds	North Star Lake					1	<b>1</b>

City: Saint Paul Park, Minnesota

Facility: **Ashland Petroleum Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
<b>All toxic chemicals</b>		20,540	61,547	57,715	35,237	10,531	<b>185,570</b>
Ammonia	Mississippi River	19,000	42,000	54,919	32,529	6,011	<b>154,459</b>
Ethylene	Mississippi River	250	2,600	731	737	577	<b>4,895</b>
Propylene	Mississippi River	250	2,600	731	737	577	<b>4,895</b>
1,3-Butadiene	Mississippi River	26	2,600	731	737	577	<b>4,671</b>
1,2,4-Trimethylbenzene	Mississippi River	16	3,300	62	32	84	<b>3,494</b>
Naphthalene	Mississippi River	16	3,300	62	32	27	<b>3,437</b>
Biphenyl	Mississippi River	16	3,300	62	32		<b>3,410</b>
Zinc compounds	Mississippi River					2,102	<b>2,102</b>
Chlorine	Mississippi River	250	250	250	250	250	<b>1,250</b>

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Companies reporting toxic discharges to water (1990-1994)

City: Saint Paul Park, Minnesota

Facility: **Ashland Petroleum Co.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
<b>All toxic chemicals</b>		20,540	61,547	57,715	35,237	10,531	<b>185,570</b>
Xylene (mixed isomers)	Mississippi River	16	580	49	39	192	<b>876</b>
Carbon tetrachloride	Mississippi River		420	18	15	16	<b>469</b>
Lead	Mississippi River	330					<b>330</b>
Cyclohexane	Mississippi River	33	110	19	15	26	<b>203</b>
Benzene	Mississippi River	22	96	16	13	38	<b>185</b>
Toluene	Mississippi River	16	96	16	13	26	<b>167</b>
Styrene	Mississippi River	16	100	17	13	14	<b>160</b>
Ethylbenzene	Mississippi River	16	96	16	13	14	<b>155</b>
Cumene	Mississippi River	16	99	16	13		<b>144</b>
Chromium	Mississippi River	120					<b>120</b>
Nickel	Mississippi River	98					<b>98</b>
Cobalt	Mississippi River	33					<b>33</b>
1,1,1-Trichloroethane	Mississippi River				17		<b>17</b>

City: Sartell, Minnesota

Facility: **Champion Intl. Corp.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
<b>All toxic chemicals</b>		68,000	21,200	1,460	3,710	2,250	<b>96,620</b>
Ammonia	Mississippi River	52,000	200	260	410	250	<b>53,120</b>
Ethylene glycol	Mississippi River	16,000	21,000	1,200	3,300	2,000	<b>43,500</b>

City: Winona, Minnesota

Facility: **Badger Foundry Co.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
<b>All toxic chemicals</b>		250					<b>250</b>
Copper	Mississippi River	250					<b>250</b>