

# Application Data Sheets

ISSUE DATE 5-3-2009 9:01:16

Parameter	Matrix		Range	Method	Analyzer	nbr	Date:
						130	
<b>Acetic, Nitric &amp; Phosphoric Acid</b>	<i>Blended acid in etching bath</i>	<b>H3PO4</b>	70 - 75 % w/w	Titration - Acid/base	2040	1212	03-dec-03
		<b>CH3COOH</b>	7 - 11 % w/w	Titration - Acid/base			
		<b>HNO3</b>	1.5 - 2.5 % w/w	Titration - Acid/base			
<b>Acid Free &amp; Total, Nitrite &amp; Zinc</b>	<i>Phosphatizing bath.</i>	<b>Acid, Free</b>	0.01 - 0.1 mol/l	Titration - Acid/base	2040	1671	06-sep-05
		<b>Acid, Total</b>	0.01 - 0.1 mol/l	Titration - Acid/base			
		<b>NO2-</b>	20 - 200 mg/l	Titration - Redox			
		<b>Zn2+</b>	0.3 - 6 g/l	Titration - Complexometric			
<b>Acidity, Carbonate &amp; hydroxide</b>	<i>NaCl or KCl Brine.</i>	<b>HCl</b>	15 - 140 mg/l	Titration - Acid/base	2040	1665	18-jan-05
		<b>(CO3)2-</b>	24 - 240 mg/l	Titration - Acid/base			
		<b>OH-</b>	5 - 60 mg/l	Titration - Acid/base			
<b>Alkali, Carbonate, Hydroxide &amp; Sulfide</b>	<i>White, green and black liquors</i>	<b>Alkali (active, eff</b>	0.1 - 8 mol/l	Titration - Acid/base	2040	1300	18-feb-04
		<b>(CO3)2-</b>	0.1 - 3 mol/l	Titration - Acid/base			
		<b>OH-</b>	0.1 - 6 mol/l	Titration - Acid/base			
		<b>S2-</b>	0.1 - 3 mol/l	Titration - Acid/base			
<b>Aluminium</b>	<i>Drinking water, Industrial waste water and Surface water.</i>	<b>Al3+</b>	0 - 1 mg/l	Colorimetry - VIS	2019 HD 2040	1265	21-apr-06
<b>Aluminium</b>	<i>Drinking water, Industrial waste water and Surface water.</i>	<b>Al3+</b>	0 - 200 ug/l	Colorimetry - VIS	2019 HD 2040	1271	27-jun-05
<b>Aluminium</b>	<i>Drinking water, Industrial waste water and Surface water.</i>	<b>Al3+</b>	0 - 1 mg/l	Colorimetry - VIS	2004 Alert	1255	20-apr-06
<b>Aluminium</b>	<i>Drinking water, Industrial waste water and Surface water.</i>	<b>Al3+</b>	0 - 100 ug/l	Colorimetry - VIS	2040	1270	06-sep-05
<b>Ammonia</b>	<i>Boiler feed, Cooling water, Drinking water and Surface water.</i>	<b>NH3</b>	0 - 1 mg/l	Colorimetry - VIS	2004 Alert	1312	27-jun-05
<b>Ammonia</b>	<i>Drinking water, Industrial waste water, Municipal waste water and Surface water.</i>	<b>NH3</b>	0 - 100 mg/l	Standard addition ISE	2003 Alert	1308	27-jun-05
<b>Ammonia</b>	<i>Drinking water, Industrial waste water, Municipal waste water and Surface water.</i>	<b>NH3</b>	0 - 100 mg/l	Standard addition ISE	2018 HD 2040	558	03-jul-07
<b>Ammonia</b>	<i>Boiler feed, Cooling water, Drinking water and Surface water.</i>	<b>NH3</b>	0 - 3 mg/l	Colorimetry - VIS	2004 Alert	1314	27-jun-05
<b>Ammonia</b>	<i>Boiler feed, Cooling water, Drinking water and Surface water.</i>	<b>NH3</b>	0 - 1 mg/l	Colorimetry - VIS	2019 HD 2040	878	01-okt-08
<b>Ammonia</b>	<i>Boiler feed, Cooling water, Drinking water and Surface water.</i>	<b>NH3</b>	0 - 3 mg/l	Colorimetry - VIS	2019 HD 2040	1296	27-jun-05

# Application Data Sheets

ISSUE DATE 5-3-2009 9:01:16

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Boric acid	Cooling water and Industrial waste water.	H3BO3	10 - 300 mg/l	Titration - Acid/base	2016 2040	886	14-apr-04
Boric acid, Chloride & Nickel	Galvanic nickel bath.	H3BO3	0.5 - 50 g/l	Titration - Acid/base	2040	549	18-jan-05
		Cl-	0.14 - 14 g/l	Titration - Argentometric			
		Ni2+	1 - 100 g/l	Titration - Complexometric			
Bromine Index	Hydrocarbons	Bromine Index	0 - 1000 mg bromine / 100 g	Argentometric titration	2040	1470	21-aug-06
Calcium	Boiler feed, Cooling water, Drinking water, Industrial waste water and Surface water.	Ca2+	0 - 150 mg/l	Standard addition ISE	2003 Alert	1307	27-jun-05
Calcium	Boiler feed, Cooling water, Drinking water, Industrial waste water and Surface water.	Ca2+	0 - 150 mg/l	Standard addition ISE	2018 HD 2040	914	23-aug-05
Calcium & Magnesium	Brine solution.	Calcium	0 - 100 ug/l	Colorimetry - VIS	2019 Special 2040	1319	27-jun-05
Chemical Oxygen Demand	Industrial waste water, Municipal waste water and Surface water.	COD	50 - 1000 mg/l	Titration - Redox	2040	966	06-sep-05
Chemical Oxygen Demand	Industrial waste water, Municipal waste water and Surface water.	COD	0 - 5000 mg/l	Colorimetry - VIS	2019 Special 2040	1766	16-jun-06
Chemical Oxygen Demand	Industrial waste water, Municipal waste water and Surface water.	COD	0 - 20000 mg/l	Colorimetry - VIS	2019 Special 2040	1767	16-jun-06
Chloride	Sodiumhydroxide (50%)	Cl-	10 - 500 mg/l	Titration - Argentometric	2040	1170	06-sep-05
Chloride	Boiler feed, Cooling water, Drinking water, Industrial waste water and Surface water.	Cl-	0 - 60 mg/l	Standard addition ISE	2018 HD 2040	1169	23-aug-05
Chloride	Boiler feed, Cooling water, Drinking water, Industrial waste water and Surface water.	Cl-	0 - 1500 mg/l	Standard addition ISE	2003 Alert	1309	27-jun-05
Chloride & Iron(II)	Etching bath.	Cl-	0.1 - 3.5 g/l	Titration - Argentometric	2040	969	18-jan-05
		Fe(II)	1 - 60 g/l	Titration - Redox			
Chlorine	Boiler feed, Cooling water, Drinking water, Industrial waste water, Municipal waste water and Surface water.	Cl2	20 - 600 mg/l	Titration - Iodometric	2016 2040	1199	29-sep-04
Chlorine, Free	Boiler feed, Cooling water, Drinking water, Industrial waste water, Municipal waste water and Surface water.	Cl2	0 - 3 mg/l	Colorimetry - VIS	2019 HD 2040	1686	27-jun-05
Chlorine, Free	Boiler feed, Cooling water, Drinking water, Industrial waste water, Municipal waste water and Surface water.	Cl2	0 - 3 mg/l	Colorimetry - VIS	2004 Alert	1687	21-apr-06

# Application Data Sheets

ISSUE DATE 5-3-2009 9:01:16

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<b>Chlorine, Total</b>	Boiler feed, Cooling water, Drinking water, Industrial waste water, Municipal waste water and Surface water.	Cl <sup>2</sup> 0 - 2.5 mg/l	Colorimetry - VIS	2004 Alert	1264	27-jun-05
<b>Chlorine, Total</b>	Boiler feed, Cooling water, Drinking water, Industrial waste water, Municipal waste water and Surface water.	Cl <sup>2</sup> 0 - 2.5 mg/l	Colorimetry - VIS	2019 HD 2040	1252	27-jun-05
<b>Chromium(VI)</b>	Industrial waste water and Surface water.	Cr <sup>6+</sup> 0 - 1 mg/l	Colorimetry - VIS	2019 HD 2040	1260	21-apr-06
<b>Chromium(VI)</b>	Industrial waste water and Surface water.	Cr <sup>6+</sup> 0 - 1 mg/l	Colorimetry - VIS	2004 Alert	1266	21-apr-06
<b>Cobalt</b>	Zinc production + waste water	Co 0 - 10 mg/l	Colorimetry - VIS	2040	416	14-dec-07
<b>Copper(I) &amp; Copper(II)</b>	Boiler feed, Cooling water, Drinking water and Industrial waste water.	Cu <sup>+</sup> & Cu <sup>2+</sup> 0 - 5 mg/l	Colorimetry - VIS	2004 Alert	1500	27-jun-05
<b>Copper(I) &amp; Copper(II)</b>	Boiler feed, Cooling water, Drinking water and Industrial waste water.	Cu <sup>+</sup> & Cu <sup>2+</sup> 0 - 5 mg/l	Colorimetry - VIS	2019 HD 2040	1657	27-jun-05
<b>Copper, free EDTA, Formaldehyde &amp; OH-</b>	Electroless copper bath.	Cu <sup>2+</sup> 0.3 - 6 g/l EDTA 2 - 25 g/l Formaldehyde 2 - 20 g/l OH <sup>-</sup> 1 - 17 g/l	Titration - Iodometric Titration - Complexometric Titration - Acid/base Titration - Arithmatic	2040	1569	18-jan-05
<b>Cyanide</b>	Industrial waste water and Surface water.	CN <sup>-</sup> 0.2 - 6 mg/l CN	Standard addition ISE	2003 Alert	1336	20-jan-09
<b>Cyanide</b>	Industrial waste water and Surface water.	CN <sup>-</sup> 2 - 50 mg/l	Titration - Argentometric	2016 2040	1178	24-aug-06
<b>Cyanide</b>	Industrial waste water and Surface water.	CN <sup>-</sup> 0 - 3 mg/l CN	Standard addition ISE	2018 HD 2040	1174	23-aug-05
<b>Cyanide, Free</b>	Drinking water, Industrial waste water, Municipal waste water and Surface water.	CN <sup>-</sup> 0 - 200 ug/l	Colorimetry - VIS	2019 HD 2040	1724	27-jun-05
<b>Cyanide, Free</b>	Drinking water, Industrial waste water, Municipal waste water and Surface water.	CN <sup>-</sup> 0 - 200 ug/l	Colorimetry - VIS	2004 Alert	1504	27-jun-05
<b>Fluoride</b>	Drinking water, Industrial waste water and Surface water.	F <sup>-</sup> 0 - 10 mg/l	Standard addition ISE	2018 HD 2040	751	23-aug-05
<b>Fluoride</b>	Drinking water, Industrial waste water and Surface water.	F <sup>-</sup> 0 - 10 mg/l	Standard addition ISE	2003 Alert	1297	27-jun-05
<b>Glucose</b>	Sugar water	Glucose 0.006 - 3 g/l	Colorimetry - VIS	2019 HD 2040	1318	27-jun-05
<b>Glycerol</b>	Glycerin production, Hydrolysis of Fats	Glycerol 0 - 4 % (w/w)	Titration - Redox	2040	972	06-sep-05
<b>Hardness, Calcium &amp; Magnesium</b>	Drinking water, Industrial waste water and Surface water.	Ca <sup>2+</sup> 8 - 200 mg/l	Titration - Complexometric	2016 2040	1275	03-apr-07

# Application Data Sheets

ISSUE DATE 5-3-2009 9:01:17

Parameter	Matrix	Range	Method	Analyzer	nbr	Date:	
Hydrazine	Boiler feed, Cooling water and Power Utility	N2H4	0 - 500 ug/l	Colorimetry - VIS	2004 Alert	1501	27-jun-05
Hydrochloric acid	Etching bath, Pickling bath, Waste water	HCl	0.2 - 7 g/l	Titration - Acid/base	2016 2040	1050	03-feb-04
Hydrochloric acid, Iron(II) & Iron(III)	Etching bath.	Fe2+ Fe3+ HCl	10 - 200 g/l 1 - 20 g/l 15 - 250 g/l	Titration - Redox Titration - Complexometric Titration - Acid/base	2040	739	26-mei-04
Hydrofluoric acid	Semicon etching bath.	HF	0 - 15 g/l	Titration - Acid/base	2040	1674	16-feb-05
Hydrofluoric acid, Iron(III) & Nitric acid	Pickling bath.	HF Fe(III) HNO3	5 - 100 g/l 5 - 130 g/l 10 - 250 g/l	Standard addition ISE Titration - Complexometric Titration - Acid/base	2040	1670	03-feb-05
Hydrogenperoxide & Sulfuric acid	Pickling bath.	H2O2 H2SO4	0.1 - 2.5 mol/l 0.1 - 2.5 mol/l	Titration - Redox Titration - Acid/base	2040	400	16-feb-05
Hydroxide	Calcium "milk" (Ca(OH)2)	OH-	0.9 - 17 g/l	Titration - Acid/base	2016 2040	426	18-jan-05
Hydroxide & Hypochlorite	Process solution.	OH- OCl-	5 - 150 g/l 5 - 100 g/l	Titration - Acid/base Titration - Acid/base	2040	1667	03-feb-05
Hypophosphite & Nickel	Electroless Nickel Bath	Ni2+ H2PO-	0.5 - 10 g/l 5 - 50 g/l	Titration - Complexometric Titration - Redox	2040	421	03-feb-05
Iodide	Brine	I-	0.025 - 1.25 g/l	Titration - Redox	2016 2040	1779	17-aug-06
Iron(II)	Boiler feed, Cooling water, Drinking water, Industrial waste water and Surface water	Fe2+	0 - 1 mg/l	Colorimetry - VIS	2019 HD 2040	1795	12-dec-07
Iron(II)	Boiler feed, Cooling water, Drinking water, Industrial waste water and Surface water	Fe2+	0 - 1 mg/l	Colorimetry - VIS	2004 Alert	1794	12-dec-07
Iron(II)	Etching bath	Fe2+	0.02 - 1.0 g/l	Titration - Redox	2016 2040	1781	21-aug-06
Iron(II) & Iron(III)	Boiler feed, Cooling water, Drinking water, Industrial waste water and Surface water.	Fe2+ & Fe3+	0 - 1 mg/l	Colorimetry - VIS	2004 Alert	1279	12-dec-07
Iron(II) & Iron(III)	Boiler feed, Cooling water, Drinking water, Industrial waste water and Surface water.	Fe2+ & Fe3+	0 - 5 mg/l	Colorimetry - VIS	2004 Alert	1705	27-jun-05
Iron(II) & Iron(III)	Boiler feed, Cooling water, Drinking water, Industrial waste water and Surface water.	Fe2+ & Fe3+	0 - 1 mg/l	Colorimetry - VIS	2019 HD 2040	1278	27-jun-05

# Application Data Sheets

ISSUE DATE 5-3-2009 9:01:17

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<b>Lactic acid (C3H6O3)</b>	<i>Dairy products</i>	<b>Lactic acid</b> 0.2 - 9 g/l	Titration - Acid/base	2016 2040	953	03-feb-04
<b>Manganese</b>	<i>Drinking water</i>	<b>Mn2+</b> 10-100 ug/l	Colorimetry - VIS	2019 Special 2040	1762	25-jan-06
<b>Manganese</b>	<i>Drinking water, Industrial waste water, Municipal waste water and Surface water.</i>	<b>Mn2+</b> 0 - 4000 ug/l	Colorimetry - VIS	2004 Alert	1502	29-apr-08
<b>Manganese</b>	<i>Drinking water</i>	<b>Mn2+</b> 0 - 100 ug/l	Colorimetry - VIS	2004 Alert	1800	25-feb-08
<b>Nickel</b>	<i>Waste water</i>	<b>Ni2+</b> 0.5 - 12.5 g/l	Titration - Complexometric	2016 2040	1780	17-aug-06
<b>Nickel</b>	<i>Boiler feed, Cooling water and Industrial waste water.</i>	<b>Ni2+</b> 0 - 3 mg/l	Colorimetry - VIS	2004 Alert	1503	27-jun-05
<b>Nickel</b>	<i>Boiler feed, Cooling water and Industrial waste water.</i>	<b>Ni2+</b> 0 - 3 mg/l	Colorimetry - VIS	2019 Special 2040	1305	06-sep-05
<b>Nitrate</b>	<i>Drinking water, Industrial waste water, Municipal waste water and Surface water.</i>	<b>N-NO3</b> 0 - 200 ug/l	Colorimetry - VIS	2019 HD 2040	931	27-jun-05
<b>Nitrate</b>	<i>Drinking water, Industrial waste water, Municipal waste water and Surface water.</i>	<b>N-NO3</b> 0 - 200 ug/l	Colorimetry - VIS	2004 Alert	1313	27-jun-05
<b>Nitrate</b>	<i>Drinking water, Industrial waste water, Municipal waste water and Surface water.</i>	<b>NO3-</b> 0 - 1500 mg/l	Standard addition ISE	2003 Alert	1310	27-jun-05
<b>Nitrate</b>	<i>Drinking water, Industrial waste water, Municipal waste water and Surface water.</i>	<b>NO3-</b> 0 - 120 mg/l	Standard addition ISE	2018 HD 2040	1214	23-aug-05
<b>Nitrite</b>	<i>Drinking water, Industrial waste water, Municipal waste water and Surface water.</i>	<b>N-NO2</b> 0 - 150 ug/l	Colorimetry - VIS	2004 Alert	1263	27-jun-05
<b>Nitrite</b>	<i>Drinking water, Industrial waste water, Municipal waste water and Surface water.</i>	<b>N-NO2</b> 0 - 150 ug/l	Colorimetry - VIS	2019 HD 2040	1251	27-jun-05
<b>Nitrogen, total</b>	<i>Industrial waste water, Municipal waste water and Surface water.</i>	<b>Total N</b> 0 - 100 mg/l	Colorimetry - VIS	2040	1289	06-sep-05
<b>Nitrogen, total</b>	<i>Industrial waste water, Municipal waste water and Surface water.</i>	<b>Total N</b> 0 - 100 mg/l	Colorimetry - VIS	2040	1280	06-sep-05
<b>P &amp; M number</b>	<i>Drinking water, Industrial waste water, Municipal waste water, Process water and Surface water.</i>	<b>P-number</b> 0 - 20 mmol/l <b>M-number</b> 0 - 40 mmol/l	Titration - Acid/base Titration - Acid/base	2016 2040	1384	19-jul-04
<b>Phenol</b>	<i>Industrial waste water.</i>	<b>Phenol</b> 0 - 5 mg/l	Colorimetry - VIS	2019 HD 2040	1261	21-apr-06
<b>Phenol</b>	<i>Industrial waste water.</i>	<b>Phenol</b> 0 - 5 mg/l	Colorimetry - VIS	2004 Alert	1267	27-jun-05

# Application Data Sheets

ISSUE DATE 5-3-2009 9:01:17

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Phosphate	Boiler feed, Cooling water, Industrial waste water, Municipal waste water, Power Utility and Surface water.	P-PO4	0 - 1 mg/l	Colorimetry - VIS	2004 Alert	1298	27-jun-05
Phosphate	Boiler feed, Cooling water, Industrial waste water, Municipal waste water, Power Utility and Surface water.	P-PO4	0 - 7 mg/l	Colorimetry - VIS	2004 Alert	1268	21-apr-06
Phosphate	Boiler feed, Cooling water, Industrial waste water, Municipal waste water, Power Utility and Surface water.	P-PO4	0 - 7 mg/l	Colorimetry - VIS	2019 HD 2040	1269	21-apr-06
Phosphate	Boiler feed, Cooling water, Industrial waste water, Municipal waste water, Power Utility and Surface water.	P-PO4	0 - 1 mg/l	Colorimetry - VIS	2019 HD 2040	1299	27-jun-05
Phosphate, Total inorganic	Industrial wastewater, Municipal wastewater and Surface water.	Total P	0 - 20 mg/l	Colorimetry - VIS	2040	1751	12-okt-06
Phosphate, Total inorganic	Industrial wastewater, Municipal wastewater and Surface water.	Total P	0 - 20 mg/l	Colorimetry - VIS	2040	1371	12-okt-06
Phosphate, Total organic and inorganic	Industrial waste water, Municipal waste water and Surface water	Total-P	0 - 20 mg/l	Colorimetry - VIS	2040	1783	12-okt-06
Phosphate, Total organic and inorganic	Industrial waste water, Municipal waste water and Surface water	Total-P	0 - 20 mg/l	Colorimetry - VIS	2040	1782	12-okt-06
Phosphoric acid	65% Phosphoric acid.	H3PO4	1 - 12.5 mol/l	Titration - Acid/base	2016 2040	1666	18-jan-05
Potassium	Drinking water, Industrial waste water, Municipal waste water and Surface water.	K+	0 - 150 mg/l	Standard addition ISE	2003 Alert	1276	27-jun-05
Potassium	Drinking water, Industrial waste water, Municipal waste water and Surface water.	K+	0 - 150 mg/l	Standard addition ISE	2018 HD 2040	1259	23-aug-05
Saturation Index	Drinkingwater, Industrial waste water, Municipal waste water and surface water	Saturation Index	-5 - 5	Titration	2040	1799	05-sep-08
Silica	Boiler feed, Cooling water, High Purity water and Power Utility.	Si4+	0 - 1 mg/l	Colorimetry - VIS	2004 Alert	1303	27-jun-05
Silica	Boiler feed, Cooling water, High Purity water and Power Utility.	Si4+	0 - 1 mg/l	Colorimetry - VIS	2019 HD 2040	1294	27-jun-05
Silica	Boiler feed, Cooling water, High Purity water and Power Utility.	Si4+	0 - 50 ug/l	Colorimetry - VIS	2004 Alert	1383	27-jun-05
Sodium	High Purity water and Power Utility	Na	1 - 30 ug/l	Standard addition ISE	2018 HD	1821	06-jan-09

# Application Data Sheets

ISSUE DATE 5-3-2009 9:01:17

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Sodium	Boiler feed, Cooling water and Industrial waste water.	Na+	0 - 150 mg/l	Standard addition ISE	2018 HD 2040	1157	23-aug-05
Sodium	Boiler feed, Cooling water and Industrial waste water.	Na+	0 - 1500 mg/l	Standard addition ISE	2003 Alert	1311	27-jun-05
Sodium	High Purity water and Power Utility	Na+	3 - 10 ug/l	Standard addition ISE	2003 Alert	1769	06-jan-09
Sulfate	Drinking water, Process water and Surface water.	(SO4)2-	0.3 - 30 mg/l	Titration - Colorimetry	2040	1382	19-jul-04
Sulfate	Drinking water, Industrial waste water, Municipal waste water and Surface water.	(SO4)2-	5 - 250 mg/l	Titration - Colorimetry	2040	1342	22-jun-04
Sulfate	Drinking water, Industrial waste water, Municipal waste water and Surface water.	(SO4)2-	100 - 5000 mg/l	Titration - Colorimetry	2040	1301	22-jun-04
Sulfide	Industrial waste water, Municipal waste water and Surface water.	S2-	10 - 500 mg/l	Titration - Argentometric	2016 2040	791	14-apr-04
Sulfide	Waste water	S2-	0 - 2.5 mg/l	Colorimetry - VIS	2019 Special 2040	1231	19-apr-06
Sulfuric acid & Zinc	Zinc sulfate.	H2SO4 Zn2+	50 - 200 g/l 10 - 90 g/l	Titration - Acid/base Titration - Redox	2040	1518	18-jan-05
TBC (4-tertiary-Butylcatechol)	Styrene monomer or AMS (alpha-Methylstyrene)	TBC	0 - 37 mg/l	Colorimetry - VIS	2040	1293	05-mrt-09
Water	Iso-heptane, containing water and toluene (10%).	H2O	10 - 200 mg/l	Titration - Karl Fischer	2016 2040	86	20-apr-06
Zinc	Industrial waste water and Surface water.	Zn2+	10 - 600 mg/l	Titration - Complexometric	2016 2040	557	17-aug-06
Zinc(II)	Drinking water, Industrial waste water and Surface water.	Zn2+	0 - 2 mg/l	Colorimetry - VIS	2019 Special 2040	1682	12-dec-07
Zinc(II)	Drinking water, Industrial waste water and Surface water.	Zn2+	0 - 2 mg/l	Colorimetry - VIS	2004 Alert	1505	23-feb-09