

Table 5. Laboratory instrumentation and analytical details for chemical analysis of water samples from wells and multilevel samplers in the treated-wastewater plume, 1994–2004 (Repert and others, 2006).

Sample dates	Instrument used	Analytical details
Nitrate and Chloride		
1994	Alpkem Model RFA-300 flow-injection autoanalyzer	Cadmium reduction and diazotization colorimetric method (Antweiler and others, 1996)
1995 to 1999	Dionex Model DX300 ion chromatograph	AS4A-4 mm column, 1.9 mN Na ₂ CO ₃ /NaHCO ₃ mobile phase (Smith and others, 2006)
2000 to 2004	Dionex Model DX500 ion chromatograph	AS15A-4 mm column, 34 mN NaOH mobile phase (Smith and others, 2005)
Nitrite		
1994 to 2004	Alpkem Model RFA-300 flow-injection autoanalyzer	Diazotization colorimetric method (Antweiler and others, 1996)
Ammonium		
1994	Alpkem Model RFA-300 flow-injection autoanalyzer	Salicylate/nitroferricyanide colorimetric method (Antweiler and others, 1996)
1995 to 1999	Dionex Model DX100 ion chromatograph	CS12A-4 mm column, 15 mN H ₂ SO ₄ mobile phase (Smith and others, in 2006)
2000 to 2004	Dionex Model DX300 ion chromatograph	CS12A-4 mm column, gradient elution of 5 to 25 mN H ₂ SO ₄ mobile phase (Smith and others, 2005)
Dissolved Organic Carbon		
1994 to 2004	Oceanographic International Model 700 carbon analyzer	Acidification and heated persulfate oxidation, infrared detection (Barber and others, 2001)
1997 to 2004	Seivers Model 800 carbon analyzer	Acidification and ultraviolet light/ammonium persulfate oxidation, conductivity detection (Barber, 2003)
Dissolved Inorganic Carbon		
1994 to 1997	Oceanographic International Model 700 carbon analyzer	Acidification with infrared detection (Barber and others, 2001)
1997 to 1998	Seivers Model 800 carbon analyzer	Acidification with conductivity detection (Barber, 2003)
1998 to 2004	Field data	Calculated from pH and alkalinity
Inorganic Solutes		
1994 to 1999	Thermo-Jarrell Ash Model 61	Inductively coupled plasma atomic emission spectroscopy (Coston and others, 1998)
2000 to 2004	Thermo-Electron Iris Dual View	Inductively coupled plasma atomic emission spectroscopy (Savoie and others, 2004)