

P-04-146

Forsmark site investigation

Sampling and analyses of surface waters

Results from sampling in the Forsmark area, March 2003 to March 2004

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December 2004

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This report concerns a study which was conducted for SKB. The conclusions and viewpoints presented in the report are those of the authors and do not necessarily coincide with those of the client.

A pdf version of this document can be downloaded from www.skb.se

Abstract

The second year of chemical surface water investigations in Forsmark is presented in this report. Sampling and analyses of lake waters, running waters and shallow bay waters were performed in order to characterise the surface water of the area. The surface water sampling activity included field measurements and an extensive analysis programme in six lakes, four shallow sea bays and eight running waters at twenty occasions during the period March 2003 to March 2004.

The results obtained include field measurements of redox potential, pH, dissolved oxygen, electric conductivity, salinity, measurement depth, barometric pressure, turbidity, chlorophyll, light/PAR (photosynthetic Active Radiation) and water temperature as well as chemical analyses of major constituents, nutrient salts, carbon species, trace metals and isotopes.

Sammanfattning

Andra året av kemiska ytvattenundersökningar i Forsmark presenteras i denna rapport. Provtagning och analyser av sjövattnet, rinnande vatten och vatten från grunda havsvikar utfördes för att karakterisera ytvattnet i området. Ytvattenaktiviteten inkluderade fältmätningar och ett omfattande analysprogram i sex sjöar, fyra grunda havsvikar och åtta små vattendrag vid tjugo tillfällen under perioden mars 2003 till mars 2004.

Resultaten som erhöles omfattar fältmätningar av redoxpotential, pH, löst syre, elektrisk konduktivitet, salinitet, mätdjup, barometer tryck, turbiditet, klorofyll, ljus/PAR (Photosynthetic Active Radiation) och vattentemperatur liksom kemiska analyser av huvudkomponenter, närsalter, oorganiskt och organiskt kol, spårelement och isotoper.

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1 Introduction

This document reports the performance and results from the activity: “Surface water sampling and analyses” performed within the site investigation at Forsmark /1/. The work was conducted according to activity plans AP PF 400-02-07 (March 2002–May 2003) and AP PF 400-03-36 (May 2003–March 2004) and is part of both the geochemistry and the surface ecosystem programme. The surface water activity includes chemical analysis of lake waters, running waters and waters from shallow bays in the Forsmark area as well as measurements of some physical parameters. The sampling points are shown in Figure 1-1.

The report treats sampling, analyses and field measurements from the second and last year of the surface water sampling campaign, March 2003 to March 2004. The first year of sampling is reported in /2/. However, all surface water data from the start in March 2002 are included in Appendix 1. After this second year, the surface water sampling will continue as a supervision/monitoring programme implying a reduced number of sampling points as well as reduced sampling frequency.

The field note references to the present activity in the database SICADA are: field note numbers Forsmark 120, 126, 137, 143, 150, 152, 167, 168, 180, 198, 207, 212, 221, 225, 250.

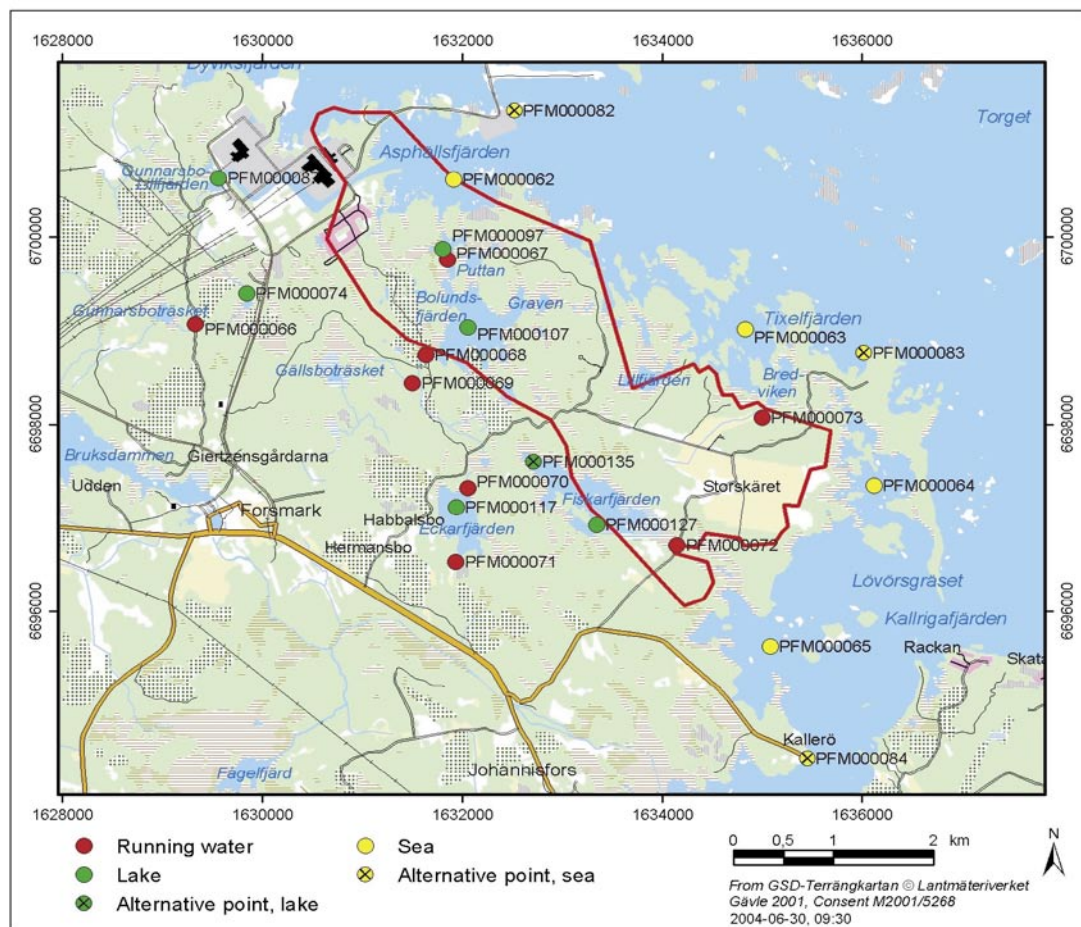


Figure 1-1. Sampling points in the surface water programme. Points marked with crosses are alternatives for regular points (see Table 4-1).

2 Objective and scope

Sampling and analyses of lake waters, running waters and shallow bay waters were performed twenty times a year during two years in order to characterise the surface water of the area. Examples of addressed issues are groundwater formation, identification of discharge or recharge areas, nutrient transport and biological production.

The activity includes water sampling for chemical analysis as well as direct measurements of physical and chemical parameters such as redox potential, pH, dissolved oxygen, electric conductivity, salinity, measurement depth, barometric pressure, turbidity, chlorophyll, light/ PAR (photosynthetic Active Radiation) and water temperature. The extent of the sampling differs between different occasions. A main programme including major constituents and surface water supplements (nutrient salts, chlorophyll etc) was performed quite frequently (16 times a year) while an extended programme including also isotopes and trace elements was performed once per season (four times a year).

3 Equipment

3.1 Sampling equipment

Water samples were collected using a 1.7 litre “Ruttner sampler” until week 21, May 2003. From week 21 and onwards water samples were collected using an online pumping setup, consisting of an electrical peristaltic pump system, PPS (ASF Thomas SR 10/100, powered by 12 VDC, 7 Ah cells), connected to 4–8 m long teflon-tubes (FEP 140) of 5 mm inner diameter. A manually operated regulator (ELFA, DCM 24–40 pwm) was used to adjust the water flow to maximum 1.3–2.9 litres/minute (depending on tube length, tube diameter and pumping level). The sampling equipment is presented in Figure 3-1.

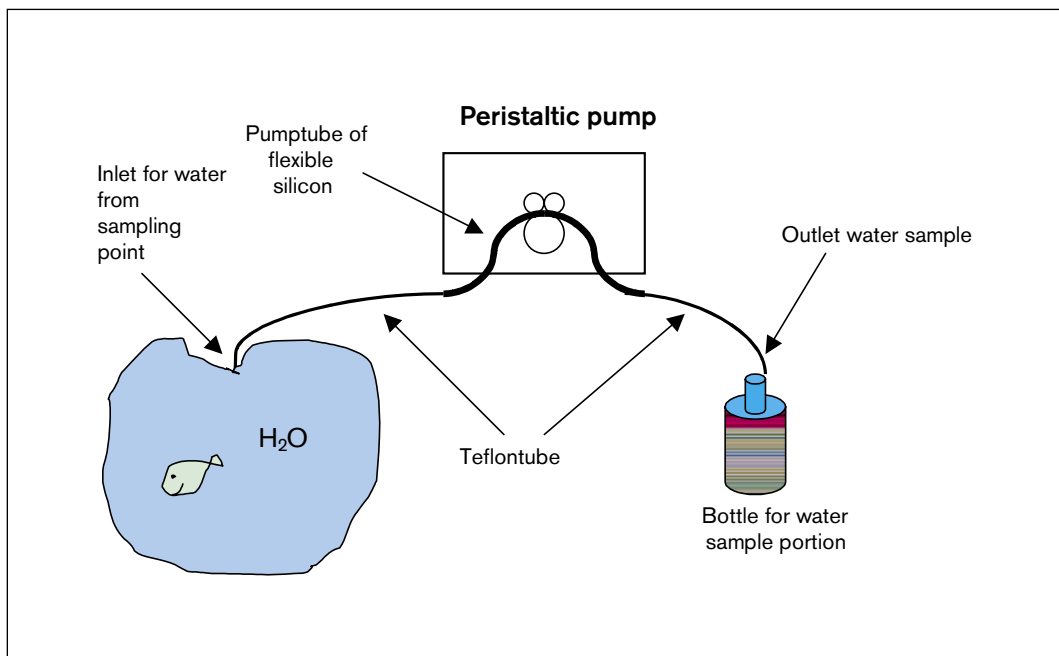


Figure 3-1. Schematic presentation of the peristaltic pump system (PPS).

3.2 Multi-parameter sondes

Field measurements were performed with two multi-parameter sondes (YSI 6600 EDS and YSI 600 QS). A terminal (YSI 650 MDS) is connected to each sonde through a cable for logging data. The terminal and sondes are presented in Figure 3-2. The calibration of the sondes was conducted according to the measurement system description SKB MD 910.003 (SKB internal controlling document).

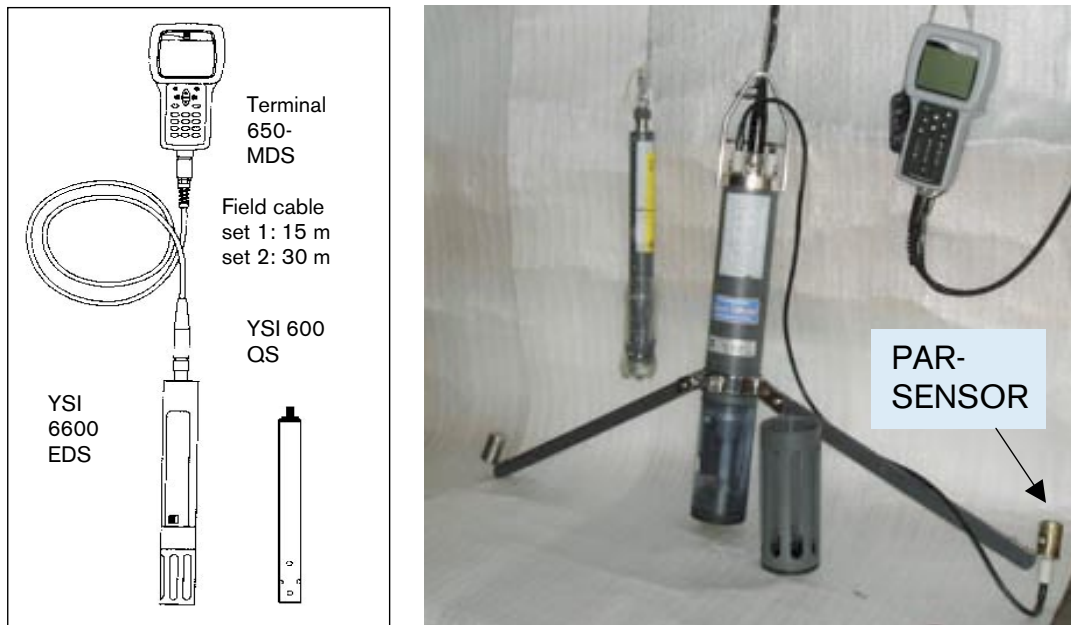


Figure 3-2. Presentation of measurement sondes.

Table 3-1. Parameters measured by the two different YSI sondes.

Parameter	YSI 6600 EDS	YSI 600 QS
Date/time	Yes	Yes
Temperature (°C)	Yes	Yes
pH	Yes	Yes
Dissolved oxygen (mg/L)	Yes	Yes
Redox potential (mV)	Yes	Yes
Specific conductivity (mS/cm)	Yes	Yes
Salinity (ppt)	Yes	Yes
Depth (m)	Yes	Yes
Barometric pressure (mm Hg)	Yes	Yes
Turbidity (NTU)	Yes	No
Chlorophyll (µg/l)	Yes	No
Light / PAR* (µmoles s ⁻¹ m ⁻²)	Yes	No

* Photosynthetic Active Radiation

3.3 General field equipment

The exact locations of the sampling point positions were found using a GPS (Garmin 172C) with an average accuracy of ± 0.5 – 1.0 m.

Water depth was measured using an echo sounder (Plastimo, Echotest, LCD digital sounder) with an accuracy of ± 0.05 m.

Water transparency was estimated using a Secchi disc and aqua scope.

Disposable filters (Millipore, $0.40\ \mu\text{m}$, $\text{Ø} = 22\ \text{mm}$) were used together with 60 ml syringes to filter specific sample portions of the sampled water in the field.

Stopwatch (GUL), a water-filled plastic bottle (50 ml) and measuring-tape (Hultafors) were used for flow/runoff estimates in running water.

Digital cameras (Nikon Coolpix 5000 and Olympus 400 mju) were used for documentation of running waters.

4 Performance

The method for sampling and analyses of surface waters is described in SKB MD 900.004 (Metodbeskrivning för ytvattenprovtagning vid platsundersökningar). The activity was performed according to Activity Plans SKB AP PF 400-02-07 (until week 19, 2003) and AP PF 400-03-36 (from week 19). The method description and activity plans are SKB internal controlling documents.

4.1 Sampling points and sampling scheme

The sampling programme for surface waters was performed in 6 lakes, 4 shallow sea bays and in 8 running waters, see Figure 1-1. The regular and alternative sampling points are presented in Table 4-1 (Id-code, position, name and comments) and the sampling scheme is given in Table 4-2. It was not always possible to collect samples at all the sampling points, and in Table 4-3 the reasons for deviations from the original sampling scheme are stated.

Table 4-1. Regular and alternative sampling points in surface ecosystem programme (all) and hydrogeochemistry programme (bold), (Id-code, position, name and comments).

Sampling points	Coordinates (RT90)	Name	Comments
Lakes			
PFM000074	16 29 854, 66 99 393	Labboträsket	
PFM000087	16 29 574, 67 00 617	Gunnarsbo-Lillfjärden	
PFM000097	16 31 814, 66 99 868	Norra bassängen	
PFM000107	16 32 065, 66 99 031	Bolundsfjärden	
PFM000117	16 31 946, 66 97 118	Eckarfjärden	
PFM000127	16 33 350, 66 96 924	Fiskarfjärden	
PFM000135	16 32 722, 66 97 594	Fiskarfjärden	Alternative to PFM000127
Shallow sea bays			
PFM000062	16 31 921, 67 00 605	SV Forslingens grund	
PFM000063	16 34 833, 66 99 014	Tixelfjärden	
PFM000064	16 36 121, 66 97 347	Kallriga, norra	
PFM000065	16 35 083, 66 95 635	Kallriga, södra (V-högbåden)	
PFM000082	16 32 528, 67 01 336		Alternative to PFM00062
PFM000083	16 36 023, 66 98 757		Alternative to PFM00063
PFM000084	16 35 455, 66 94 442		Alternative to PFM00064 and PFM000065
Running waters			
PFM000066	16 29 343, 66 99 064	Öster Gunnarsboträsket	
PFM000067	16 31 859, 66 99 753	Lillputtsundet	
PFM000068	16 31 641, 66 98 735	Kungsträsket	
PFM000069	16 31 510, 66 98 440	Bolundsskogen	
PFM000070	16 32 061, 66 97 319	Norr Eckarfjärden	
PFM000071	16 31 944, 66 96 533	Söder Eckarfjärden	
PFM000072	16 34 151, 66 96 708	Flottbron	
PFM000073	16 35 004, 66 98 073	Söder Bredviken	

Table 4-2. Surface water sampling scheme March 2003–March 2004.

Year	Month	Week	Programme type*
2003	March	12	M
2003	April	14, 17	M, M
2003	May	19, 21	E, M
2003	June	23, 25	M, M
2003	July	28	E
2003	August	32	M
2003	September	36, 38, 40	M, M, M
2003	October	42, 44	E, M
2003	November	46, 48	M, M
2003	December	51	M
2004	January	3	E
2004	February	7	M
2004	March	12	M

*M = main programme (SKB class 3 including surface water supplements), E = extended programme (SKB class 5 including surface water supplements).

4.2 Presampling preparations

Prior to the sampling session, sample bottles were cleaned (according to the routines for respective SKB class), labelled and packed in insulated boxes/bags. Acid additions were made in advance in the bottles intended for trace metal analyses. They were placed in plastic bags to avoid contamination.

The peristaltic pumpsystem (PPS), including the Teflon tubes, was washed in acid (0.5 M HCl) and rinsed with deionised water before use. The equipment was kept well protected in plastic bags or in tight containers. The Disposable filters (Millipore) were rinsed with MilliQ-water (50 ml) and placed in plastic bags to prevent contamination. Calibration of the sondes was performed according to the measurement system description SKB MD 910.003 (SKB internal controlling document).

4.3 Water sampling and field measurements

The water sampling and measurements procedure are described more in detail in SKB PIR-04-09 “Metodik för provtagning av ekologiska parametrar i hav”, SKB PIR-04-06 “Metodik för provtagning av ekologiska parametrar i sjöar och vattendrag” and SKB PIR-04-12 “Översikt över provhanterings- och analysrutiner för vattenprov” (SKB internal documents).

Until week 21/year 2003 water samples were collected using two Ruttner samplers, one normal and one metal free for the extended programme. The last one was acid washed in the same way as described in Section 4.2.

From week 21 water samples were collected using the peristaltic pumpsystem, PPS, described in Section 3.1, see also Figure 4-1. The Ruttner samplers were used as a backup system if the PPS-system should fail.



Figure 4-1. Sampling of surface water in the field. In front of picture, the peristaltic pumpsystem (PPS).

Lake and sea water samples were collected close to the surface (at 0.5 m depth) and from approximately 0.5 m above the bottom. Running water samples were collected at approximately 0.1 m depth. The PPS-system and all bottles were rinsed with water from the sampling point prior to filling, except for bottles with acid additions. From week 19, 2003, the activity was performed in compliance with a new activity plan (AP PF 400-03-36), which stated that bottom samples should be collected only if the sea or lakes are covered by ice.

To avoid contamination, the sampling staff was obliged to wear rubber gloves and great care was taken not to contaminate bottles or equipment. Bottles and samples containing added acid were handled and stored separately to avoid contamination of other sample portions.

A comparison of data from sonde measurements and laboratory analyses was performed by Medins sjö- och åbiologi AB (Jämförelse mellan sondmätningar och laboratorieresultat i Forsmark och Simpevarp 2002–2003). Measurements and analyses of oxygen (Winkler method) agreed for values exceeding 4 mg/L but for lower values the differences were significant. Based on this evaluation, it was decided that Winkler bottles should be collected only when the concentration of dissolved oxygen is below 4 mg/L (values obtained from sonde measurements). This practice was applied from week 21 and onwards.

Water sample portions for some analyses were filtrated (0.45 µm) in the field using a syringe. Some sample portions were also overflowed and for some analyses reagents were added in the field. Different treatments and filling instructions are presented in Table 4-3.

Table 4-3. Vessels and field treatments of samples in the main programme (class 3) and in the extended programme (class 5 and 5+).

Programmes:

Class 3:



Class 5:



Class 5+:



Bottle volume (mL)	Number of bottles	SKB-Label	Components	Preparation of sample in field	Filling instructions
125	1	Green	Na, K, Ca, Mg, Li, Sr, S, Si, Br, I	–	Fill up
5,000 (Collecting bottle)	1	Green	Chlorophyll a, c, Pheopigment, Alkalinity, pH, Conductivity, Tot-N, Tot-P, POP, PON, POC, Anions (Br, SO ₄ , Cl, F, I), TOC, DOC, DIC (only for control)	–	Fill up
25	2	Green	Ammonia, NO _x , Silicate	Filtering with syringe/0.45 µm filter	Fill to mark
50	1	Green	TOC	–	Leave 1cm
50	2	Green	DIC/DOC	Filtering with syringe/0.45 µm filter	Leave 1cm
Winkler bottles ¹	2	Green	Oxygen	1 ml Mn(II) reagent + 2 ml alkaline iodine reagent and mix	Flow over 3×
Winkler bottles ²	2	Green	H ₂ S	1 ml ZnAc + 1 ml 1M NaOH and mix	Flow over ×3
100	1	Red	Trace metals	–	Fill up
500 ²	1	Red	Fe(II)/Fetot	Filtering with syringe/0.45 µm filter	Fill up
500	1	Green	Tritium	–	Flow over ×1
100	1	Green	Deuterium, O-18	–	Fill up from bottom
1000	1	Green	³⁴ S	–	Fill up
100	1	Green	³⁷ Cl	–	Fill up
100	1	Green	⁸⁷ Sr/ ⁸⁶ Sr	–	Fill up
100	1	Green	U- and Th-isotopes	–	Fill up
500	1	Green	Ra- and Rn-isotopes	–	Fill up

¹ Winkler samples only when sonde measurements of oxygen show values below 4 mg/L.

² Sampled only under reduced conditions.

In running waters the multiple sondes were used to measure parameters stated in Table 3-1 at approximately 0.1 m depth. The YSI 6600 EDS sonde was used when the water level was high enough, otherwise the smaller YSI 600 QS sonde was used. The values from the PAR sensor were rejected in running waters as well as chlorophyll and turbidity data.

In lakes and at sea the multiple sonde (YSI 6600 EDS) was used to measure a profile at each sampling point, see Figure 4-2. Measurements were conducted at every metre from the surface to the bottom (Table 4-4). A list of the parameters measured is given in Table 3-1. Photosynthetic Active Radiation (PAR) was logged also just below the surface and during ice season above the ice, in the air.

From week 36, 2003, an extra PAR-profile logging programme started. When measuring the PAR-profile, the sonde mode was set to continuous logging and the sonde was submerged from surface to bottom and hoisted up again. The produced PAR-data were used for regression analyses of PAR versus depth.



Figure 4-2. Measuring a profile (PFM000064) in the ice covered Baltic Sea with the multiple sonde (YSI 6600 EDS), December 15, 2003.

Table 4-4. Logging depths at sampling points in lakes and shallow sea bays.

Sampling points	Name	Sonde logging depth (m)											
		0.5	1.0	1.5	2.0	2.5	3.0	4.0	4.5	5.0	6.0	6.5	7.0
Lakes													
PFM000074	Labboträsket	X											
PFM000087	Gunnarsbo-Lillfjärden	X	X	X									
PFM000097	Norra bassängen	X											
PFM000107	Bolundsfjärden	X	X										
PFM000117	Eckarfjärden	X	X	X									
PFM000127	Fiskarfjärden												
PFM000135	Fiskarfjärden, alt.	X	X										
Shallow sea bays													
PFM000062	SV Forslingens grund	X	X		X		X						
PFM000063	Tixelfjärden	X	X		X		X	X	X				
PFM000064	Kallriga, norra	X	X										
PFM000065	Kallriga, södra	X											
PFM000082	Alternative to PFM000062	X	X		X		X	X		X	X	X	
PFM000083	Alternative to PFM000063	X	X		X		X	X		X	X	X	
PFM000084	Alternative to PFM000064 and PFM000065	X	X		X	X							

Light penetration was measured in lakes and at sea with a secchi disc. The measurements were performed according to the Swedish standard BIN SR 111.

In order to calculate mass transport of different elements in the water systems, runoff data from the streams in the area are an important parameter. Due to lack of more precise measurements, the runoff was estimated with a simple method using a floating bottle (close to neutral in weight in water). The cross section mean area of the stream was estimated, forming a rectangle, see Figure 4-3. The time for the bottle to float the distance (L) from point A to B was measured with a stopwatch. This procedure was repeated three times in each stream. The average water velocity (m/s) multiplied with the average area (m²) resulted in a rough water runoff estimate (m³/s). The runoff was, however not possible to measure when the streams were covered with ice or at very low water flow.

From week 25, 2003, and onwards the water runoff in the streams was estimated once a week with this simple method. The data and results are presented in a separate SKB-report in progress /3/.



Figure 4-3. Schematic presentation of method for estimating water runoff in running natural waters. Sampling point PFM000073 (Söder Bredviken).

In week 38, 2003, photo documentation of running waters started, using a digital camera, to make the evaluation of the analyses results easier in the future. Photos were taken of the sampling point, marked with a stick. The photos were transferred to SKB's database SICADA directly after termination of the activity (stored in the file archive, see Table 4-5).

At each sampling point, field notes about measured parameters, weather conditions, sampling time and name of field staff were made as well as any deviations from the sampling plan. Notations on conditions which might have influence on the analytical results (e.g. melting water on ice, particles in water due to heavy runoff, fertilizer from farming close to sampling point and so on) were made on the field protocols. These notes are stored in the SKB database SICADA as activity comments for each sampling point and sampling occasion.

4.4 Sample treatment and chemical analyses

An overview of sample treatment and analysis methods is given in Appendix 1. The routines are applicable independently of sampling method or type of sampling object.

4.5 Data handling/post processing

All activities were continuously documented. Notes were taken on field conditions, time of sampling, marking of samples and so on. Any deviations from the normal routines were also noted and commented in special reports/comment files. The comment files are stored in the SKB database SICADA (the file archive), see Table 4-5.

4.5.1 Field measurement data

The data from field measurements are incorporated in SICADA directly after termination of the activity. The field note numbers are Forsmark 120, 126, 137, 143, 150, 152, 167, 168, 180, 198, 207, 212, 221, 225, 250.

A number of protocol versions have been used, as improvements have been successively incorporated during the period. A specific Excel-macro has been developed and the sonde data files are incorporated digitally into SICADA from the YSI Terminal 650-MDS, Figure 4-4.

The field measurement data are stored in data tables in SICADA. Further, all raw data files are transferred to the SICADA file archive, see Table 4-5.

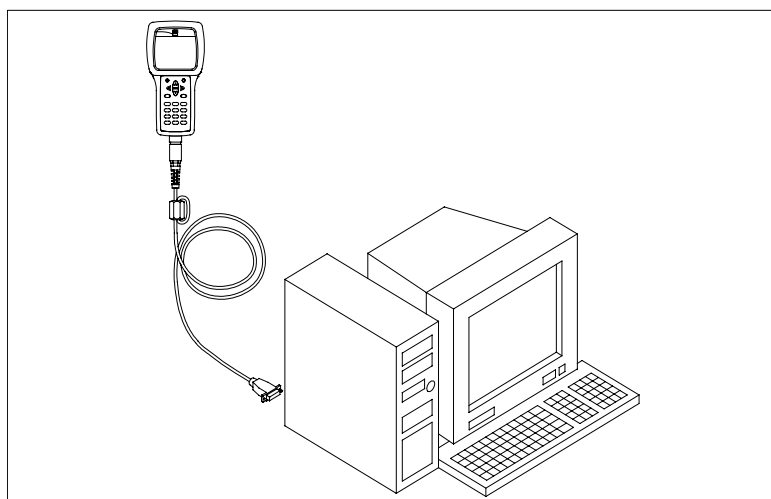


Figure 4-4. Schematic presentation of transfer of logged terminal data to SICADA database.

Table 4-5. File types stored in the SICADA file archive.

Type of file	Example of file name	No per sampling session
Raw data file	L580338.dat	1 or 2*
Comments	Kommentarer V38.xls	1
Calibration data file	000113CF.txt	1 or 2*
Calibration protocol	Stora sonden V48år03.xls	1 or 2*
Photography	PFM66.jpg	1-8
Light data file	PAR-profiler V48_03.xls	1

* Depending on the number of measuring sondes used.

4.5.2 Chemical analyses data

The following routines for quality control and data management are generally applied for hydrochemical analysis data, independently of sampling method or type of sampling object.

Some components are determined by more than one method and/or laboratory. Moreover, duplicate analyses by an independent laboratory are performed as a standard procedure on each fifth or tenth collected sample. All analytical results are stored in the SICADA database. The applied hierarchy path “Hydrochemistry/Hydrochemical investigation/Analyses/Water in the database” contains two types of tables, raw data tables and primary data tables (final data tables).

Data on basic water analyses are inserted into the raw data tables for further evaluation. The evaluation results in a final reduced data set for each sample. These data sets are compiled in a primary data table named “water composition”. The evaluation is based on:

- Comparison of the results from different laboratories and/or methods. The analyses are repeated if a large disparity is noted (generally more than 10%).
- Calculation of charge balance errors according to the equation below. Relative errors within $\pm 10\%$ are considered acceptable in surface waters.

$$\text{Relative error (\%)} = 100 \times \frac{\sum \text{cations}(\text{equivalents}) - \sum \text{anions}(\text{equivalents})}{\sum \text{cations}(\text{equivalents}) + \sum \text{anions}(\text{equivalents})}$$

- General expert judgement of plausibility based on earlier results and experience.

All results from special analyses of trace metals and isotopes are inserted directly into primary data tables. In those cases where the analyses are repeated or performed by more than one laboratory, a “best choice” notation will indicate those results which are considered most reliable.

An overview of the data management is given in Figure 4-5.

4.5.3 Other relevant information and data

Some parameters are not measured with instruments. Those data can be found in a separate table in SICADA together with information about the weather conditions at the sampling occasions. The table is called “Weather_data” and contains the following columns:

- Air temperature.
- Cloudiness.
- Precipitation.
- Wind velocity.
- Wind direction.
- Light penetration (lakes and sea).
- Runoff/Water flow (running waters).
- Water depth.
- Snow/ice depth.

These data are not presented in this report.

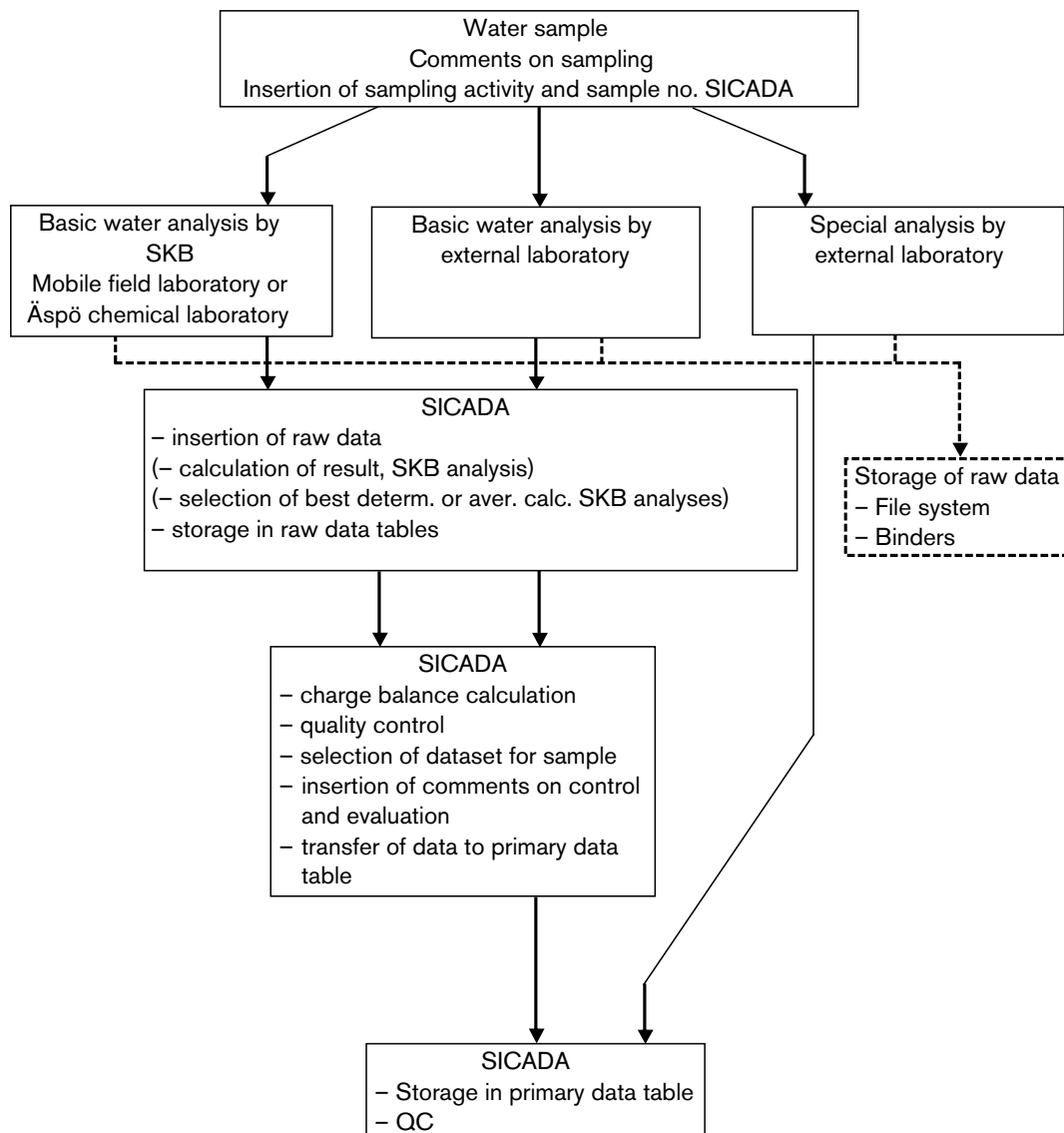


Figure 4-5. Overview of data management for analytical data.

4.6 Nonconformities

4.6.1 Sampling and field measurements

The nonconformities that occurred during the surface water sampling and field measurement campaign are compiled in two tables (Table 4-6 and 4-7). A common deviation from plan is omitted sampling point due to for example problems with ice or wild life considerations.

No PAR-measurements (light) were performed during week 3 and 7, 2004. The sonde was sent for repair during that period and the exchange sonde used had no PAR-sensor.

4.6.2 Calibration of electric conductivity and salinity

Calibration of electric conductivity was conducted without adjustment of the standard to 25 degrees C. Instead, the value corresponding to the actual temperature of the calibration standard was used, estimated from a conductivity/temperature table on the bottle. This procedure has resulted in inaccurate values of electric conductivity and salinity for the time period w 36 (2002)–w 25 (2003). A method for correction of the values is described in “Korrigerering av konduktivitet och salinitet i Forsmark och Oskarshamn”, an external report written by Medins sjö- och biologi AB. For correction, conductivity values from laboratory analyses are required. For most of the measurements from week number 12 to 25, 2003, laboratory values are available and those conductivity and salinity data have been corrected.

Tables 4-6. Notes/comments and abbreviations. See explanations below.

Week/year	12/03	14/03	17/03	19/03	21/03	23/03	25/03	28/03	32/03	36/03	38/03	40/03	44/03	46/03	48/03	51/03	03/04	07/04	Sum (x)	
Sonds																				
YSI 600 QS			X	X	X	X	X	X	X	X		X	X							
YSI 6600	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
YSI 6600 ^B																X	X			
Sea																				
Alias	Name																			
PFM000062	F4	SV-Forslingen																		15
PFM000063	F15	Tixelfjärden																		17
PFM000064	F17	D	Kallrigafjärden																	16
PFM000065	F18	V-Högbåden																		16
PFM000082	F20	Alt PFM000062																		3
PFM000083	F21	Alt PFM000063																		1
PFM000084	F22	Alt PFM000064,65																		2
Stream																				
PFM000066	F1	Ö-Gunnarsbo																		15
PFM000067	F6	Lillputtsundet																		18
PFM000068	F8	Kungsträsket																		17
PFM000069	F9	Bolundsskogen																		17
PFM000070	F10	N-Eckarfjärden																		16
PFM000071	F12	S-Eckarfjärden																		14
PFM000072	F14	Flottbron																		18
PFM000073	F19	S-Bredviken																		10
Lakes																				
PFM000074	F2-100	Labboträsket																		17
PFM000087	F3-100	Gunnarsbo-Liljå																		17
PFM000097	F5-2	Norra bassängen																		16
PFM00107	F7-100	Bolundsfjärden																		16
PFM00117	F11-100	Eckarfjärden																		15
PFM00127	F13-100	Fiskarfjärden																		6
PFM00135	F13-9	Fiskarfjärden, alt																		4
Sum (X)	16	15	17	17	17	16	16	15	12	16	14	16	14	18	14	17	18	18	286	

Explanations to abbreviations used in Table 4-6:

X: Samples taken.

B: Exchange unit without PAR-sensor.

C: No samples collected, due to weak ice.

D: No samples collected, due to sensitive wildlife.

E: No samples collected, as the water was dried out, or too little water to collect a representative sample.

Table 4-7. Notes/comments on measurements/water sampling. See explanations on next page.

Week/year	12/03	14/03	17/03	19/03	21/03	23/03	25/03	28/03	32/03	36/03	38/03	40/03	44/03	46/03	48/03	51/03	03/04	07/04	
Sonds																			
YSI 600 QS		X	X	X	X	X	X	X	X	X	X	X	X	X	X				
YSI 6600	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
YSI 6600 ^B																X	X	X	
Sea																			
Alias	Name																		
PFM000062	F4	SV-Forslingen	V																U
PFM000063	F15	Tixelfjärden	M, V																U
PFM000064	F17	Kallrigafjärden	V						Q										I
PFM000065	F18	V-Högbåden	V																
PFM000082	F20	Ait PFM62	M, D																S, R
PFM000083	F21	Ait PFM63	D																
PFM000084	F22	Ait PFM64,65	O, D																
Stream																			
PFM000066	F1	Ö-Gunnarsbo						F	F	F	F	F	F	F	S		F, Z	F, Z	
PFM000067	F6	Lillputtsundet			F				G	F	H	H		S, E	S			Z	
PFM000068	F8	Kungsträsket											F		S		F, Z	F	
PFM000069	F9	Bolundsskogen									F		F	E, S	Z	Z	F, Z	F, Z	
PFM000070	F10	N-Eckarfjärden			F	F	F	F		F		H	F	S	A			F, C	
PFM000071	F12	S-Eckarfjärden	F	F	F	F	F	F		F	H	H	F	H, S	S	H	F	F	
PFM000072	F14	Flottbron	F, O	F	F	F	F	F, Z	G, Z	F	G	H	F	Z, H	Z, H,	Z, H	F, Z	F, Z	
PFM000073	F19	S-Bredviken	F, K	F	F	F	F							H, S	H, S	H	F	F	

Week/year	12/03	14/03	17/03	19/03	21/03	23/03	25/03	28/03	32/03	36/03	38/03	40/03	44/03	46/03	48/03	51/03	03/04	07/04
Lakes																		
PFM000074	F2-100	Labboträsket							M			M	M,U	S		Z	Z	Z
PFM000087	F3-100	Gunnarsbo-Liljå						M						U		Z	Z	Z
PFM000097	F5-2	Norra bassängen	P, Q		M							M		S		Z		Z
PFM00107	F7-100	Bolundsfjärden																Z, C
PFM00117	F11-100	Eckarfjärden																O, Z, C
PFM00127	F13-100	Fiskarfjärden										Q						
PFM00135	F13-9	Fiskarfjärden, alt												S				Z

Explanations to abbreviations used in Table 4-7:

A: Bottle or bottles for sampling missing, broken or without addition (e.g. acid, deionised water).

B: Exchange unit without PAR-sensor.

C: Minor sonde problem – but data logged and/or noted i field protocol.

D: Water transparency estimated without aquascope.

E: No photo.

F: No flow estimation.

G: No flow, nearly dried out, sample taken in small "pond".

H: Stagnant water or nearly stagnant water – no flow estimation, flow approx 0 m³/s.

I: Wrong depth values logged in YSI 6600 – reason probably frozen sensor.

K: Sample taken at another position, "close by", due to weak ice, only surface sample.

M: Bottom water and transect data logged more shallowly than usual due to low water.

O: Risk for contamination from melting ice water, mainly in surface samples.

P: PAR-value should be rejected – too shallow to get the sensor under water.

Q: Risk for incorrect sonde values for PAR, turbidity and chlorophyll, due to plants and/or particles in the water.

R: No water transparency estimated.

S: Peristaltic pump system out of order, sample taken with Rutther-sampler.

U: Incorrect sond-data logged, noted in field protocol.

V: No PAR-data logged.

Z: Winkler samples (2), due to low oxygen level.

5 Results

5.1 General

The lakes in the Forsmark area can be classified as oligotrophic (nutrient poor) hardwater lakes /2/. The fresh waters are generally well buffered with high alkalinity, high pH and high calcium concentrations. Further, it is not a very long time ago since the area was lifted up above sea level, and waters recently affected by brackish sea water still show high sodium chloride concentrations. The map in Figure 5-1 demonstrates the relationship between the location of the coastline and the salinity of the water samples collected at the sampling points in the area.

An evaluation report of surface water data from March 2002 to March 2004 is in progress /4/. Therefore, the present report concentrates on discussing data quality.

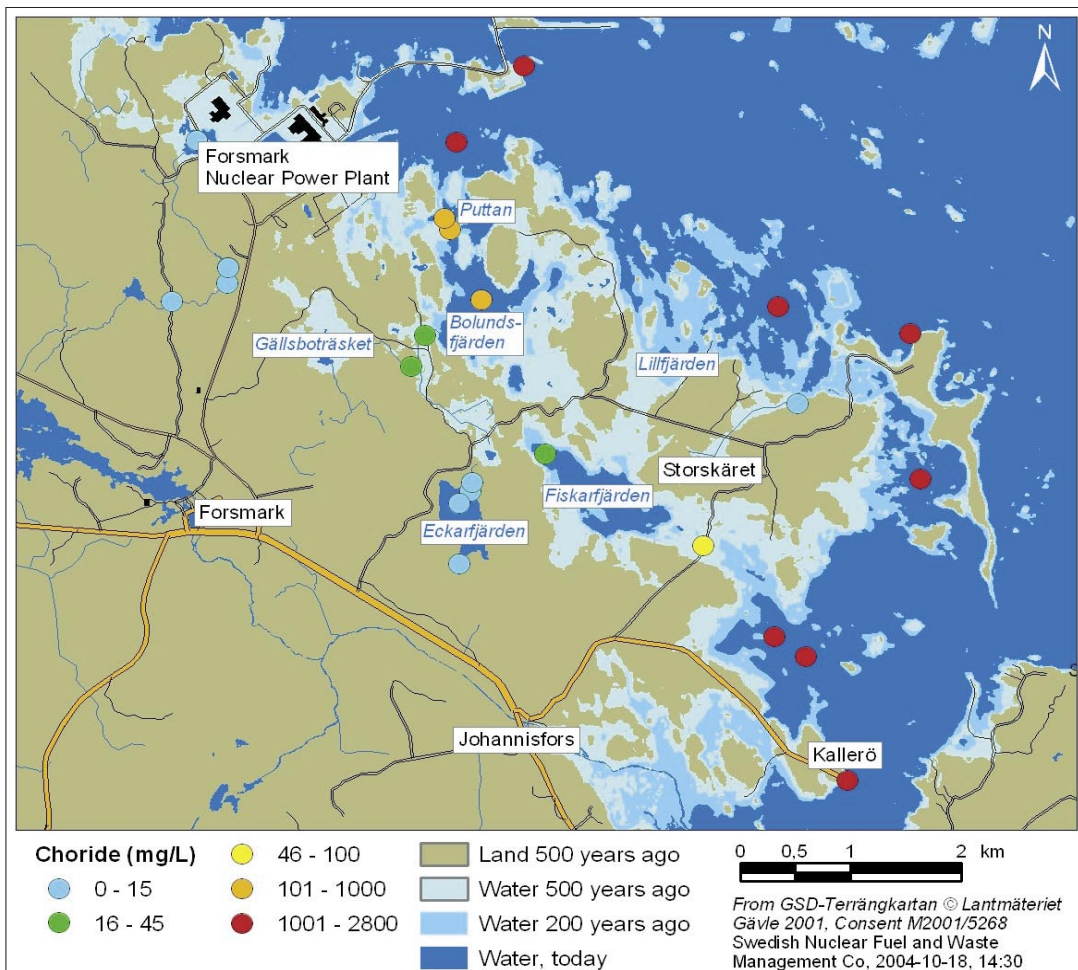


Figure 5-1. Map with sampling points for surface water. The water type is indicated by means of a colour scale from blue to red for low to high chloride concentration. The location of the coastline at various times is also shown.

5.2 Field measurements

The field measurement results are stored in the database SICADA and data for modelling or other activities should be collected from there. The data from the field measurements are stored under the following field note numbers: Forsmark 120, 126, 137, 143, 150, 152, 167, 168, 180, 198, 207, 212, 221, 225 and 250. The results from field measurements are compiled in Appendix 2.

The results from PAR-profile logging are presented in Appendix 3, as figures including regression constants. Logged PAR-data are stored in the SICADA database together with the regression analyses, see Table 4-5.

Three sets of data are of lower quality; 1) runoff data, 2) sonde measurements (YSI 6600 EDS) of chlorophyll and 3) turbidity measurements.

The measurements of the runoff have been performed with a float method (see Section 4.3) which, for many reasons, has been the only possible way to conduct the measurements. The accuracy of this method is quite low compared to measurements with discharge weirs and gauges.

The chlorophyll measurements have been problematic, possibly due to that humic substances and chlorophyll have similar fluorescence in the wavelength used by the sonde. Since the inland waters show high concentrations of humic substances and the sonde interprets humus as chlorophyll, the amount of chlorophyll tends to be overestimated.

The turbidity measurements performed in the sea and in lakes often show negative values. This may be due to bad probe sensitivity in clear waters (turbidity weak waters).

The chlorophyll and turbidity data stored in the SICADA database are marked with special comments about these matters.

5.3 Water analyses

5.3.1 Basic water analyses

The basic water analyses include the major constituents Na, K, Ca, Mg, S, SO_4^{2-} , Cl^- , Si and HCO_3^- as well as the minor constituents Fe, Li, Mn, Br, F, I and HS^- . Furthermore, batch measurements of pH and electric conductivity are included. The basic water analysis data are compiled in Appendix 5.

Figures 5-2, 5-3 and 5-4 present the seasonal variations of chloride concentration during the two years of water sampling in the six lakes. North of Bolundsfjärden the threshold towards the sea is low and brackish seawater still transgresses from time to time. Lake Norra bassängen and lake Bolundsfjärden show increased chloride values at a few occasions during late winter/early spring, see Figure 5-2.

The charge balance errors give an indication of the quality and uncertainty of the analyses of major constituents. The errors exceed $\pm 5\%$ in 46 cases and $\pm 10\%$ in three cases. Furthermore, duplicate analyses are conducted for approximately each tenth sample by a second laboratory. A comparison between results from different laboratories and methods shows that the agreement is acceptable in most cases. Generally, the difference in concentrations between laboratories/methods for each analysed constituent is less than 10%. Constituents showing larger deviation are bromide and silicon, see Figures 5-8 and 5-9.

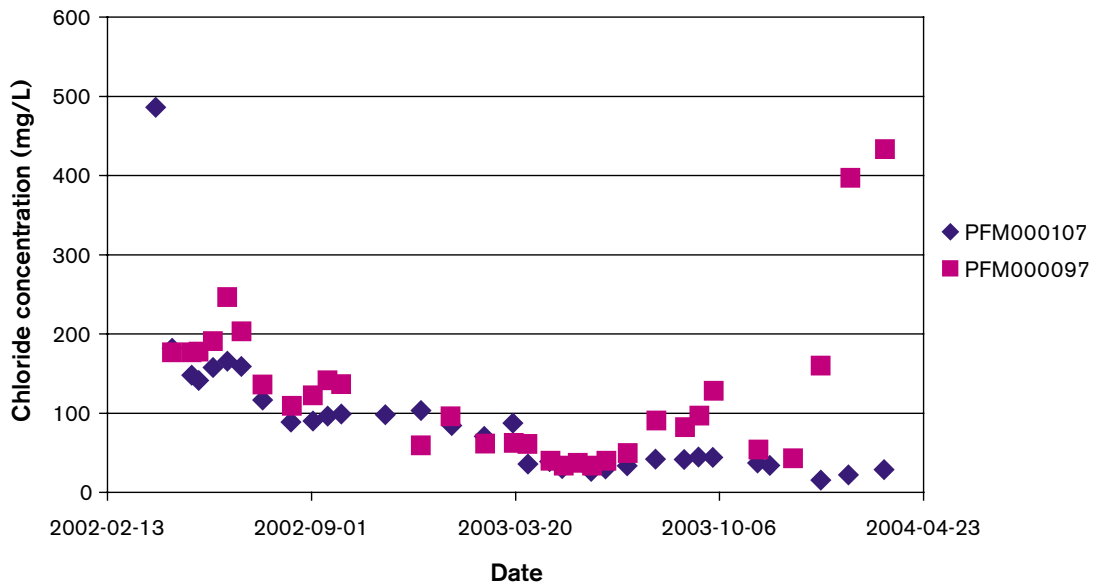


Figure 5-2. Seasonal variations of chloride concentration in lake Bolundsfjärden (PFM000107) and lake Norra Bassängen (PFM000097). Only the samples collected close to the surface are included in the diagram.

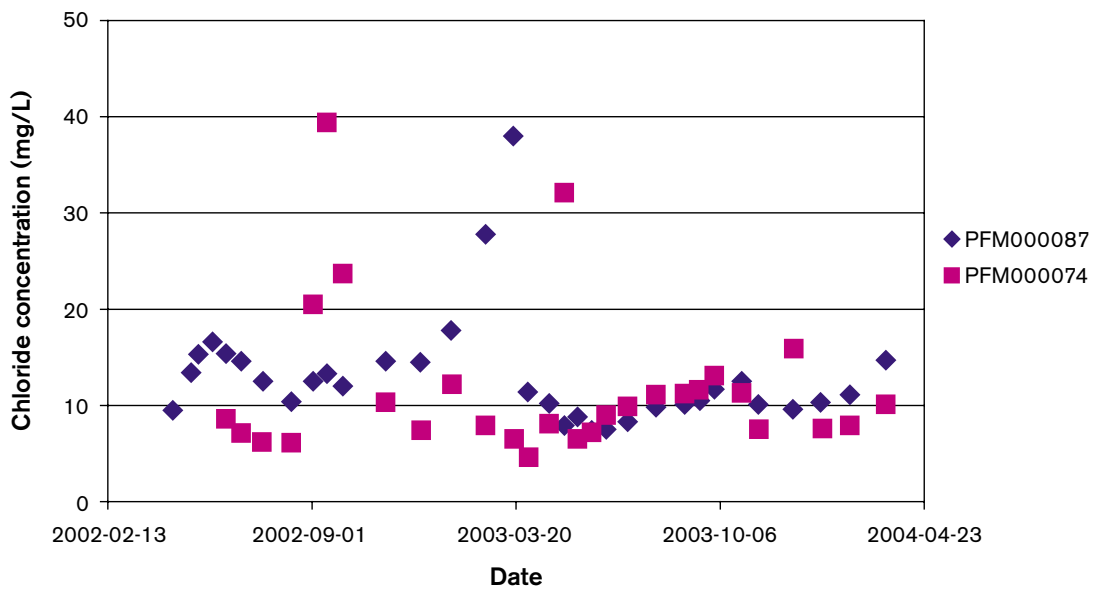


Figure 5-3. Seasonal variations of chloride concentration in lake Gunnarsbo Lillfjärden (PFM000087) and lake Labboträsket (PFM000074). Only the samples collected close to the surface are included in the diagram.

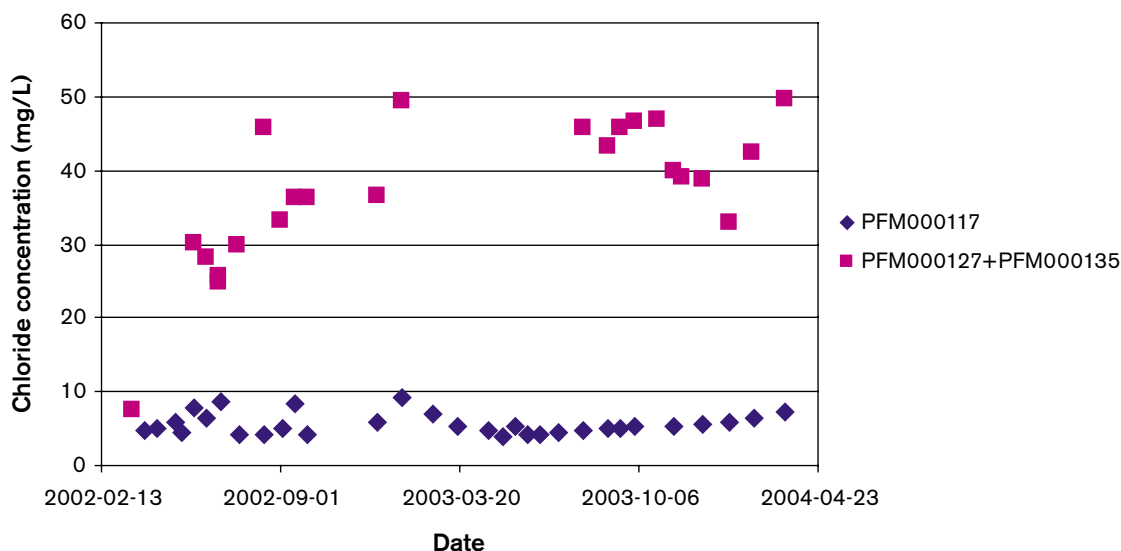


Figure 5-4. Seasonal variations of chloride concentration in lake Eckarfjärden (PFM000117) and lake Fiskarfjärden (PFM000127 and PFM000135). Only the samples collected close to the surface are included in the diagram.

Figures 5-5 to 5-9 illustrate the consistency of the analyses. All diagrams except Figure 5-8 are based on the data compilation in Appendix 5.

The chloride concentrations are plotted versus the corresponding electric conductivity values in Figure 5-5. The plot gives a rough check of the data. As shown, the surface water data agree well with a regression line.

Sulphate (or sulphur) was determined by two different methods. Total sulphur concentrations determined by ICP were recalculated to sulphate concentrations. A comparison of the analytical results by ICP and ion chromatography is presented in Figure 5-6.

The bromide analyses are often uncertain. Further, the detection limit of bromide by ion chromatography (< 0.2 mg/L) is often too high for surface waters. Therefore, duplicate analyses by ICP (bromine) have been performed on most samples. Selected bromide/bromine values for each sample are plotted versus the corresponding chloride concentrations in Figure 5-7 as a consistency check. Points that differ significantly from the linear trend are most probably erroneous. A comparison of the analytical results by ion chromatography and by ICP is presented in Figure 5-8. As shown, the spread is considerable.

Total silicon concentrations by ICP and SiO₂ as silicon concentrations (SiO₂-Si) by spectrophotometry are compared in Figure 5-9. Also here the values diverge. Repeated silicon analyses by ICP technique often show quite a large variability.

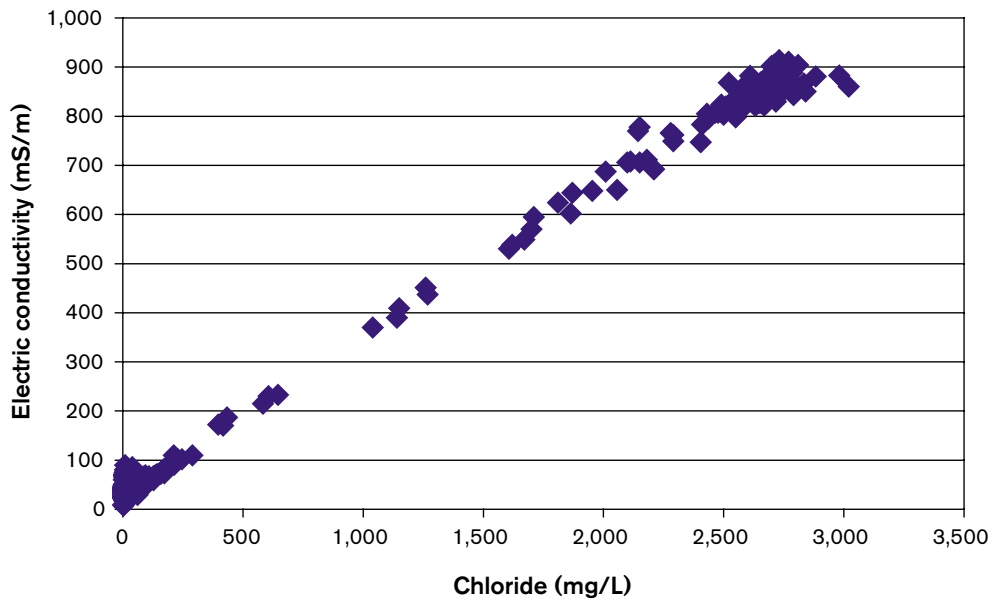


Figure 5-5. Electric conductivity values versus chloride concentrations.

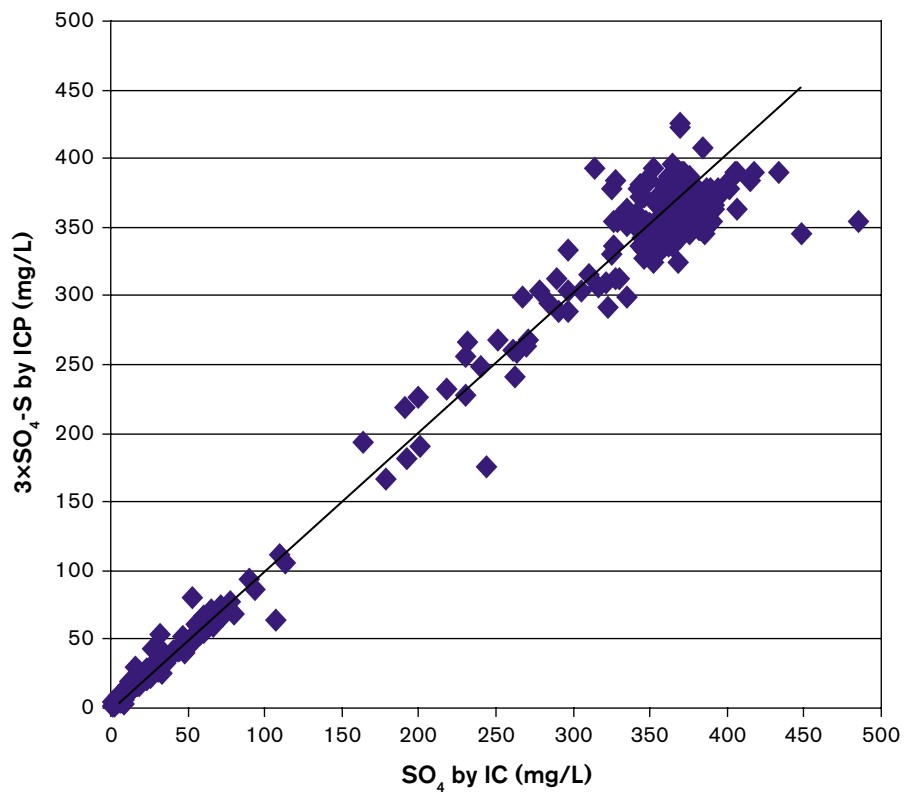


Figure 5-6. Sulphate (SO₄ by IC) versus sulphate calculated from total sulphur (3xSO₄-S by ICP).

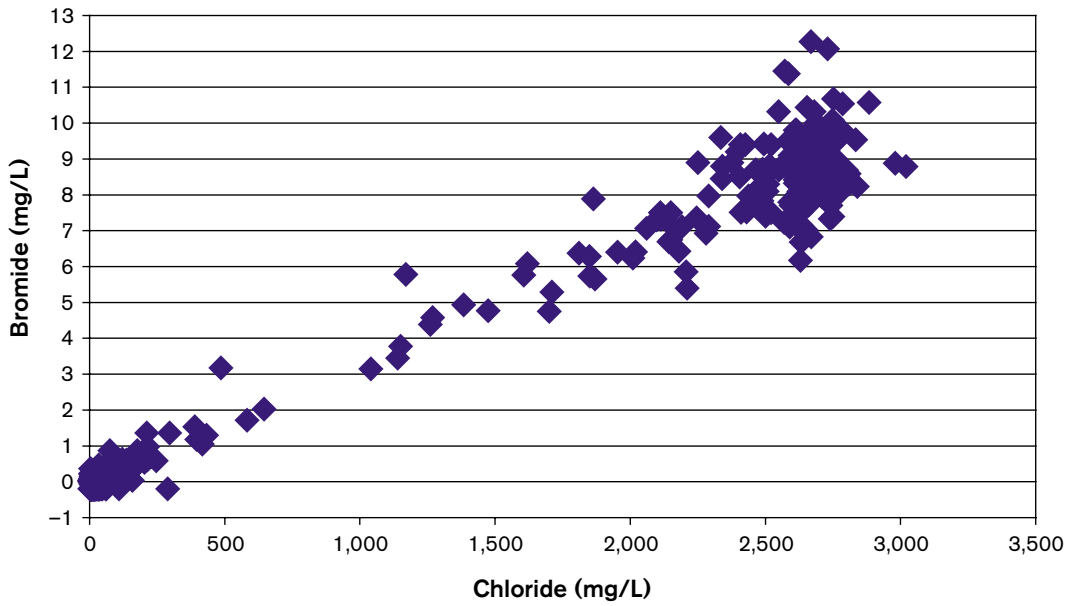


Figure 5-7. Bromide concentrations versus chloride concentrations. Bromide concentrations below the detection limit are plotted as -0.2 mg/L (IC-method).

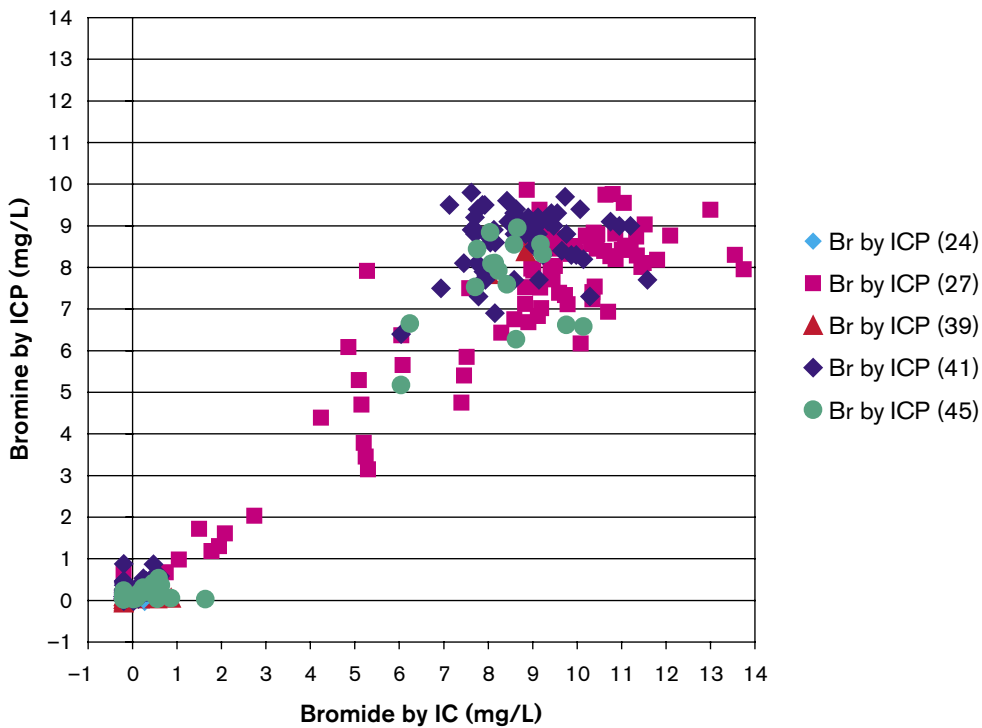


Figure 5-8. Bromide by IC versus bromine by ICP. Values below the detection limit < 0.2 mg/L (IC) are plotted as -0.2 mg/L. Several laboratories (lab id) have performed ICP analyses. They report somewhat different detection limits, approx. one order of ten lower than the IC method.

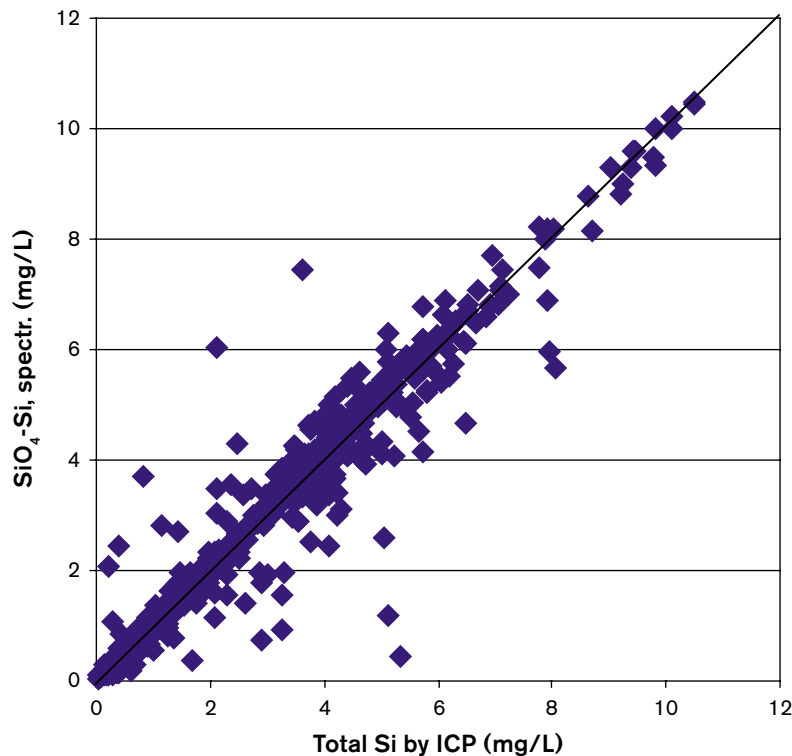


Figure 5-9. SiO₄-Si determined by spectrophotometry versus total Si analysed by ICP technique.

5.3.2 Surface water supplements

The surface water supplements include NH₄-N, NO₂-N, NO₃-N+NO₂-N, NO₃-N, tot-N, tot-P, PO₄-P, POP, PON, SiO₂-Si, chlorophyll-a, chlorophyll-c, pheopigment, POC, TOC, DOC, DIC and dissolved oxygen. The analysis data are compiled in Appendix 6. The DIC values should be used with care. Hydrogen carbonate values (by alkalinity titration) are considered more reliable.

Figure 5-10 illustrates the consistency problem between the TOC and DOC analyses. All thinkable precautions regarding the sampling procedure have been made in order to improve the results, but the inconsistency has remained. The diagram is based on the data compilation in Appendix 6.

5.3.3 Trace metals

The analyses of trace and rare earth metals include U, Th, Al, As, Sc, Cd, Cr, Cu, Co, Hg, Ni, Zn, Pb, V, Rb, Y, Zr, Mo, In, Sb, Cs, Ba, La, Hf, Tl, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu. Significantly deviating and larger concentrations of commonly occurring metals, such as Cu, Zn, Pb and Mo, are probably due to contamination during sampling or sample treatment which may be difficult to avoid. The trace element data are compiled in Appendix 8.

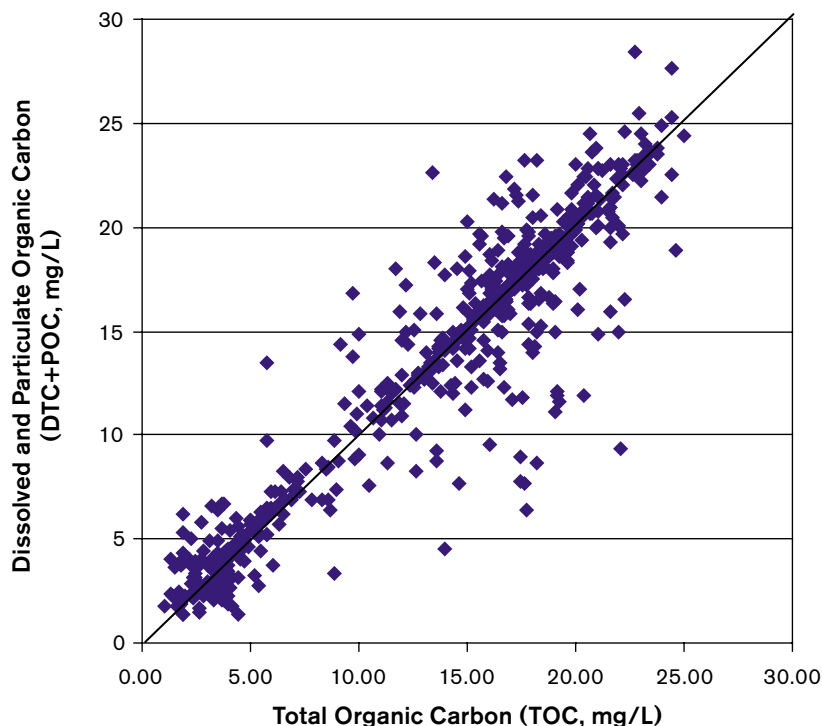


Figure 5-10. Total organic carbon versus the sum of dissolved and particulate organic carbon.

5.3.4 Isotopes

The isotope determinations include the stable isotopes δD , $\delta^{18}O$, $^{10}B/^{11}B$, $\delta^{34}S$, $\delta^{13}C$, $\delta^{37}Cl$ and $^{87}Sr/^{86}Sr$ as well as the radioactive isotopes Tr (TU), ^{14}C (pmC), ^{238}U , ^{235}U , ^{234}U , ^{232}Th , ^{230}Th , ^{226}Ra and ^{222}Rn . The isotope data available at the printing date of this report are compiled in Appendices 7 and 9. Determinations of $\delta^{37}Cl$ in samples collected later than May 2003 have been annulled. The results of Uranium and Thorium isotope determinations are regarded as questionable since the laboratory reports the same value of ^{238}U and ^{234}U in all samples. The data are however, included (in italic) in Appendix 9.

The ranges of tritium and $\delta^{18}O$ values for different surface water types (chloride concentrations) are presented in Figure 5-11. The seasonal variations of tritium and $\delta^{18}O$ in Lake Bolundsfjärden (large variation in chloride concentration) and Lake Eckarfjärden (small variation in chloride concentration) are given in Figure 5-12. The samples from the shallow sea bays show smaller variations, see Figure 5-11.

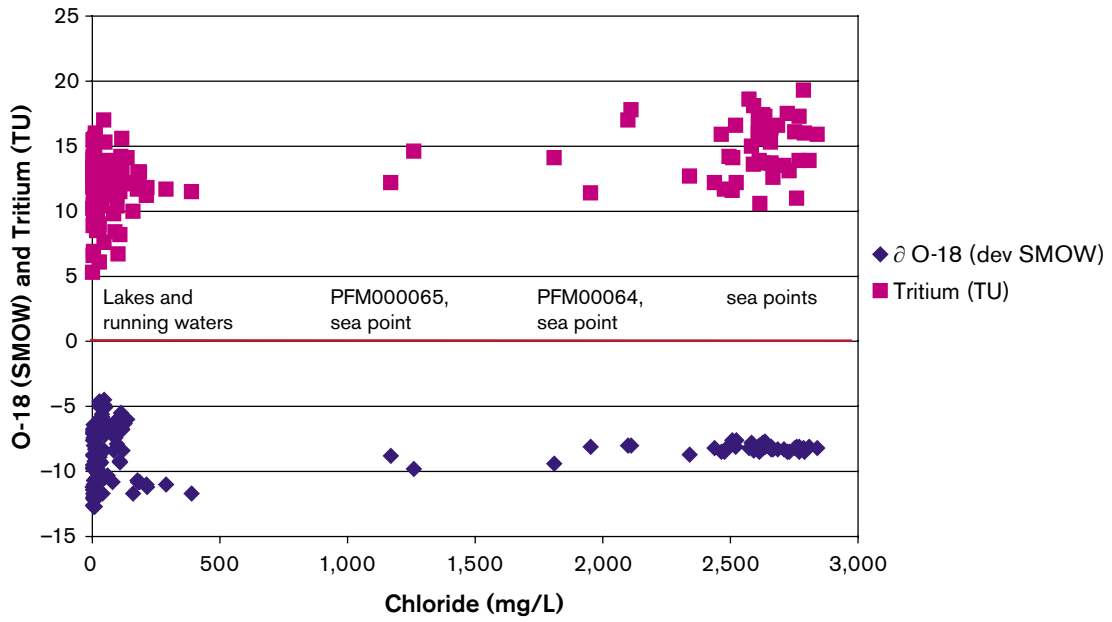


Figure 5-11. Tritium and $\delta^{18}\text{O}$ values versus chloride concentration for the different surface water types (lakes, running waters and sea bays).

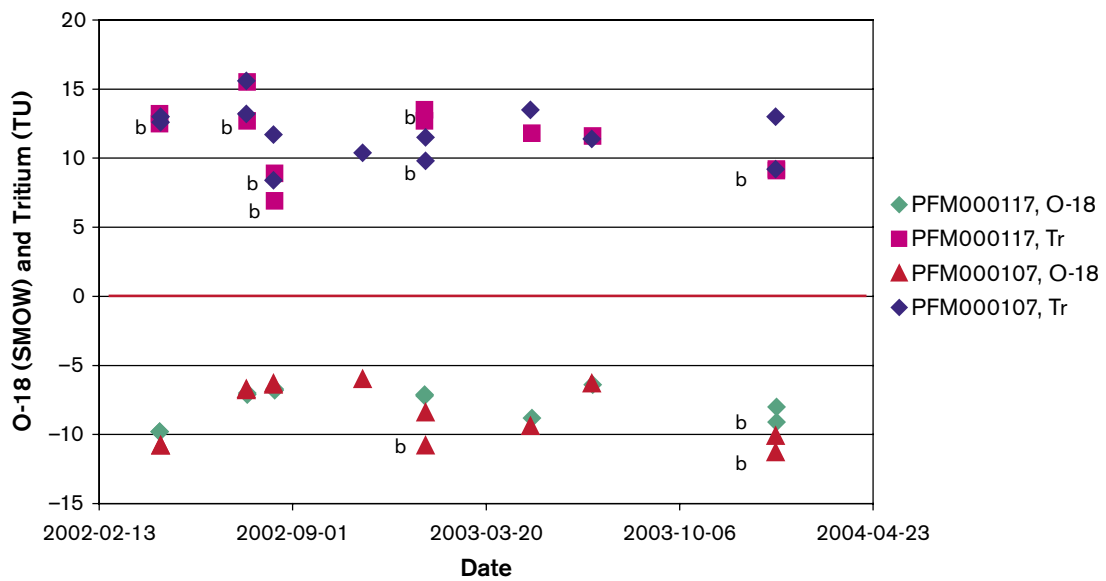


Figure 5-12. Seasonal variations of Tritium and $\delta^{18}\text{O}$ values for lake Bolundsfjärden (PFM000107) and lake Eckarfjärden (PFM000117). Data on bottom samples are marked b.

6 Future work

The two year long surface water sampling campaign in order to characterize the surface waters in the Forsmark area has been completed and the data needed have been collected. From July 2004 and onwards the sampling programme will continue as a supervision programme. The new programme will imply reduction of the number of sampling occasions as well as sampling points, see Figure 6-1. The programme and objectives for the changes are documented in an internal SKB document (Långtidsövervakning av ytvattenkemi i Forsmark – programförslag för 2004-07-01–2007-07-31. SKB Beslut Idnr 1025680.).

The supervision programme will include sampling and sonde measurements in the lakes; Lake Bolundsfjärden, Lake Eckarfjärden and Lake Labboträsket. Sonde measurements will be performed in Lake Norra Bassängen in order to monitor salinity changes. One sampling point remains in a shallow bay (Forslings grund). Sampling of running water will continue in four places (Kungsträsket, Bolundsskogen, Norr Eckarfjärden, Öster Gunnarsbo) whereas an electric conductivity logger will be installed in Lilleputt-sundet also to monitor salinity changes.

The division into two sampling programmes remains; 1) a main programme including major constituents and surface water supplements and 2) an extended programme including also isotopes and trace elements. The main programme will be conducted once per month and the extended programme once every season. Some special isotopes ($\delta^{37}\text{Cl}$, $\delta^{13}\text{C}$, ^{14}C (pmC), $^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{34}\text{S}$, U- and Th-isotopes as well as Ra- and Rn-isotopes) will be analysed only once a year, in July.

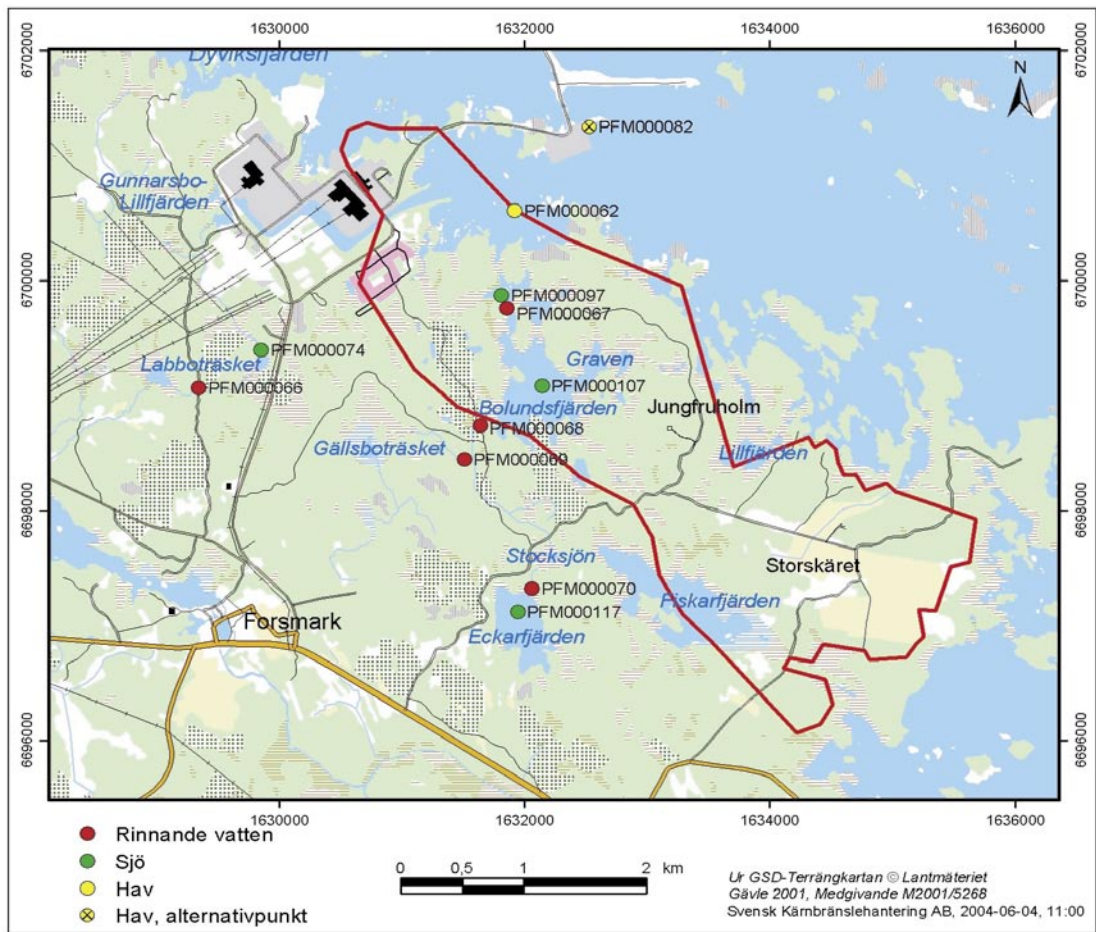


Figure 6-1. Sampling points in the programme for supervision of surface water. Points marked with crosses are alternatives for regular points.

References

- /1/ **SKB, 2001.** Site investigations. Investigation methods and general execution programme. SKB TR-01-29, Svensk Kärnbränslehantering AB.
- /2/ **Nilsson A-C, Karlsson S, Borgiel M, 2003.** Forsmark site investigation. Sampling and analyses of surface waters. Results from sampling in the Forsmark area, March 2002 to March 2003. SKB P-03-27, Svensk Kärnbränslehantering AB.
- /3/ **Johansson P-O, 2004.** Simple flow measurements in brooks. SKB P-04-xx (in progress), Svensk Kärnbränslehantering AB.
- /4/ **Sonesten L, 2004.** Evaluation of surface water chemistry data from the Forsmark area. March 2002–March 2004. SKB R-04-yy (in progress), Svensk Kärnbränslehantering AB.

Sampling and analytical methods

Table A1-1. Sample handling routines and analytical methods.

Component group	Component/element	Sample container (material)	Volume (mL)	Filtering	Preparation/Conservation*	Analysis method	Laboratory****	Analysis within – or delivery time to lab.
Anions 1.	HCO ₃ pH(lab) cond (lab)	Plastic	250	Yes (not in the field)	No	Titration Pot. meas, Cond. meas	Mobile field lab. Åspö's chemistry lab. AnalyCen	The same day – maximum 24 hours
Anions 2	Cl, SO ₄ , Br ⁻ , F ⁻ , I ⁻	Plastic	100	Yes (not in the field)	No	Titration (Cl ⁻) IC (Cl ⁻ , SO ₄ , Br ⁻ , F ⁻) ISE (F ⁻)	Åspö:s chemistry lab. AnalyCen	Not critical (month)
Cations, Si and S according to SKB class 3	Br, I	Plastic	100	Yes (not in the field)	No	ICP MS	SGAB Analytica, AnalyCen	Not critical (month)
Cations, Si and S according to SKB class 4 and 5	Na, K, Ca, Mg, S(tot), Si(tot), Li, Sr	Plastic (at low conc. acid washed bottles)	100	Yes (not in the field)	Yes (not in the field, 1 mL HNO ₃)	ICP-AES ICP-MS	SGAB Analytica, AnalyCen	Not critical (month)
Fe(II), Fe(tot)	Na, K, Ca, Mg, S(tot), Si(tot), Fe, Mn, Li, Sr	Plastic (Acid washed)	100	Yes (immediately in the field)	Yes (1mL HNO ₃)	ICP-AES ICP-MS	SGAB Analytica, AnalyCen	Not critical (month)
Hydrogen sulphide	Fe(II), Fe(tot)	Plastic (Acid washed)	500	Yes	Yes (5 mL HCl))	Spectrophotometry Ferrozine method	Mobile field lab.	As soon as possible the same day
Environmental metals	HS- Al, As, Ba, B, Cd, Co, Cr, Cu, Hg, Mo, Ni, P, Pb, V, Zn	Glass (Winkler)	About 120x2	No	Ev 1 mL 1 M NaOH+ 1 mL 1M ZnAc	Spectrophotometry	Mobile field lab. Åspö's chemistry lab. AnalyCen	Immediately or if conserved, a few days
Lantanoids, U, Th and so on.	Sc, Rb, Y, Zr, I, Sb, Cs, La, Hf, Ti, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, U, Th	Plastic	100	Yes	Yes (1 mL HNO ₃)	ICP-AES ICP-MS	SGAB Analytica, AnalyCen	Not critical (month)

Component group	Component/element	Sample container (material)	Volume (mL)	Filtering	Preparation/Conservation*	Analysis method	Laboratory****	Analysis within – or delivery time to lab.
Dissolved organic Carbon, dissolved inorganic Carbon	DOC, DIC	Plastic	250 25	Yes	Frozen, transported in isolated bag	UV oxidation, IR Carbon analyser Shimadzu TOC5000	Paavo Ristola OY Dept. of System ecology, SU	Short transportation time
	TOC	Plastic	250 25	No	Frozen, transported in isolated bag	UV oxidation, IR Carbon analyser Shimadzu TOC5000	Paavo Ristola OY Dept. of System ecology, SU	Short transportation time
Environmental isotopes	² H, ¹⁸ O	Plastic	100	No	–	MS	IFE	Not critical (month)
	³ H (enhanced.)	Plastic (dry bottle)	500	No	–	LSC	Univ. Of Waterloo	Not critical (month)
Chlorine-37	Chlorine-37	Plastic	100	No	–	ICP MS		
Carbon isotopes	¹³ C, ¹⁴ C	Glass (brown)	100×2	No	–	(A)MS	Univ. Of Waterloo	A few days
	³⁴ S	Plastic	500–1,000	Yes	–	Combustion, ICP MS	IFE	No limit
Strontium-isotopes	⁸⁷ Sr/ ⁸⁶ Sr	Plastic	100	Yes	–	TIMS	IFE	Days or Week
Uranium and Thorium isotopes	²³⁴ U, ²³⁵ U, ²³⁸ U, ²³² Th, ²³⁰ Th,	Plastic	50	Nej	–	Chemical separat. Alfa/IFE gamma spectrometry	Alfa/IFE	No limit
	¹⁰ B	Plastic	100	Yes	Yes (1 mL HNO ₃)	ICP – MS	SGAB Analytica	No limit
Boron isotopes	¹⁰ B	Plastic	500	No	No	EDA, RD-200	IFE	Immediate transport
Radon and Radium isotopes	²²² Rn, ²²⁶ Ra	Plastic	200	No	No	GC	Paavo Ristola OY	Immediate transport
Dissolved gas (content and composition)	Ar, N ₂ , CO ₂ , O ₂ , CH ₄ , H ₂ , CO, C ₂ H ₂ , C ₂ H ₄ , C ₂ H ₆ , C ₃ H ₈	Cylinder of stainless steel						
	Filter series and fractionation (see below)	Polycarbonate filter	0.45, 0.2 and 0.05 µm	–	N ₂ atmosphere	ICP-AES ICP-MS	SGAB Analytica	Immediate transport
Humic and fulvic acids	Fractionation	Fractions are collected in plastic bottles	250	–	N ₂ atmosphere	UV oxidation, IR (DOC)	Paavo Ristola OY	Immediate transport
Archive samples with acid	–	Plast (washed in acid)	100×2**	Yes	Yes (1 mL HNO ₃)	–	–	Storage in freeze container
Archive samples without acid	–	Plastic	250×2**	Yes	No	–	–	Storage in freeze container

Component group	Component/element	Sample container (material)	Volume (mL)	Filtering	Preparation/Conservation*	Analysis method	Laboratory****	Analysis within – or delivery time to lab.
Carbon isotopes in humic and fulvic acids	¹³ C, ¹⁴ C (pmc)	DEAE cellulose (anion exchanger)	–	–	–	(A)MS	The Angström laboratory, Uppsala	A few days
Nutrient salt + silicate	NO ₂ , NO ₃ , NO ₂ +NO ₃ , NH ₄ , PO ₄ , SiO ₄	Sample tubes, plastic	25×2	Yes (in the field)	No, frozen immediately***	Spectrophotometry	Dept. of System ecology, SU	Short transportation time
Total concentrations of Nitrogen and Phosphorous	N-tot, P-tot	Plastic	100	No	No, frozen immediately***	Spectrophotometry	Dept. of System ecology, SU	Short transportation time
Particulate Carbon, Nitrogen and Phosphorous	POC, PON, POP	Plastic	1,000	Yes (within 4 h) prepared filters. Blank filters	Filtering, the filters are frozen immediately 2 filters/sample	Elementar-analysator (N, C) own method 990121 (P)	Dept. of System ecology, SU	Short transportation time
Chlorophyll	Chlorophyll a, c and pheopigment	Plastic	1,000–2,000	Yes (within 4 h)	Filtering, the filters are frozen immediately	Spectrophotometry Fluorometry	Dept. of System ecology, SU	Short transportation time
Oxygen	Dissolved O ₂	Winkler, glass	2×ca 120	No	Mn (II) reagent iodide reagent	Spectrophotometry SIS SS-EN 25813	Dept. of System ecology, SU AnalyCen	Within 3 days
Archive samples for supplementary radio nuclides		Plastic	5,000	No	50 mL HNO ₃	–	–	Storage in freeze container

* Suprapur acid is used for conservation of samples.

** Minimu □

*** The sample is transported in froze □

**** Full name and address is given in Table A1-5.

Abbreviations and definitions:

IC Ion chromatograph
ISE Ion selective electrode
ICP-AES Inductively Coupled Plasma Atomic Emission Spectrometry
ICP-MS Inductively Coupled Plasma Mass Spectrometry
INAA Instrumental Neutron Activation Analysis
MS Mass Spectrometry
LSC Liquid Scintillation Counting
(A)MS (Accelerator) Mass Spectrometry
GC Gas Chromatography

Table A1-2. Reporting limits and measurement uncertainties.

Component	Method	Reporting limits or range	Unit	Measurement uncertainty ²	“Total” uncertainty ³	
HCO ₃	Alkalinity titration	1	mg/L	4%	< 10%	
Cl ⁻	Mohr- titration	> 70	mg/L	5%	< 10%	
Cl ⁻	IC	1–100		6%	10%	
SO ₄	IC	1	mg/L	10%	15%	
Br ⁻	IC	0.2	mg/L	9%	20%	
Br ⁻	ICP	0.001		15%		
F ⁻	IC	0.1	mg/L	10%	20%	
F ⁻	Potentiometric	–		–		
I ⁻	ICP	0.001	mg/L	15%	20%	
Na	ICP	0.1	mg/L	4%	10%	
K	ICP	0.4	mg/L	6%	15%	
Ca	ICP	0.1	mg/L	4%	10%	
Mg	ICP	0.09	mg/L	4%	10%	
S(tot)	ICP	0.160	mg/L	21%	15%	
Si(tot)	ICP	0.03	mg/L	4%	15%	
Sr	ICP	0.002	mg/L	4%	15%	
Li	ICP	0.21	2	mg/L	10%	20%
Fe	ICP	0.41	4	mg/L	6%	10%
Mn	ICP	0.031	0.1	µg/L	8%	10%
Fe(II), Fe(tot)	Spectrophotometry	0.02 (DL = 0.005 mg/L)	mg/L	15% (> 30 µg/L)	20%	
HS ⁻	Spectrophotometry	SKB 0.03 (DL = 0.02)	mg/L	10%	30%	
NO ₂ as N	Spectrophotometry	0.1	µg/L	2%	20%	
NO ₃ as N	Spectrophotometry	0.2	µg/L	5%	20%	
NO ₂ +NO ₃ as N	Spectrophotometry	0.2	µg/L	0.2 (0.2–20 µg/L) 2% (> 20 µg/L)	20%	
NH ₄ as N	Spectrophotometry	0.8 50 (SKB)	µg/L	0.8 (0.8–20 µg/L) 5% (> 20 µg/L) 20%	20%	
PO ₄ as P	Spectrophotometry	0.7	µg/L	0.7 (0.7–20 µg/L) 3% (> 20 µg/L)	20%	
SiO ₄	Spectrophotometry	1	µg/L	3% (> 200 µg/L)	–	
O ₂	Jodometric titration	0.2–20	mg/L	5%	–	
Chlorophyll a, c pheopigment ⁴	See Table A1-2	0.5	µg/L	5%	–	
PON ⁴	See Table A1-2	0.5	µg/L	5%	–	
POP ⁴	See Table A1-2	0.1	µg/L	5%	–	
POC ⁴	See Table A1-2	1	µg/L	4%	–	
Tot-N ⁴	See Table A1-2	10	µg/L	4%	–	

Component	Method	Reporting limits or range		Unit	Measurement uncertainty ²	"Total" uncertainty ³
Tot-P ⁴	See Table A1-2	0.5		µg/L	6%	–
Al, Zn	ICP	0.2		µg/L	12%	20% ⁵
Ba, Cr, Mo, Pb	ICP	0.01		µg/L	7–10%	20% ⁵
Cd, Hg	ICP	0.002		µg/L	9 resp 5%	20% ⁵
Co, V	ICP	0.005		µg/L	8 resp 5%	20% ⁵
Cu	ICP	0.1		µg/L	8%	20% ⁵
Ni	ICP	0.05		µg/L	8%	20% ⁵
P	ICP	1		µg/L	6%	10%
As	1CP	0.01		µg/L	20%	Correct order of size (low conc.)
La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb	ICP	0.0051	0.05	µg/L	10%	Correct order of size (low conc.)
Sc, In, Th	ICP	0.051	0.5	µg/L	10%	Correct order of size (low conc.)
Rb, Zr, Sb, Cs, Tl	ICP	0.0251	0.25	µg/L	10%	Correct order of size (low conc.)
Y, Hf	ICP	0.0051	0.05	µg/L	10%	Correct order of size (low conc.)
U	ICP	0.0011	–	µg/L	12%	Correct order of size (low conc.)
DOC	See Table A1-1	0.5		mg/L	8%	30%
TOC	See Table A1-1	0.1		mg/L	10%	30%
δ ² H	MS	2		‰ SMOW ⁵	1‰	–
δ ¹⁸ O	MS	0.1		‰ SMOW ⁵	0.2‰	–
³ H	LSC	0.8 eller 0.1		TU ⁶	0.8 eller 0.1	Correct order of size
³⁷ Cl	ICP MS	0.2‰ (20 mg/L)		‰ SMOC ⁷	–	–
δ ¹³ C	A (MS)	–		‰ PDB ⁸	–	–
pmC (¹⁴ C)	A (MS)	–		PMC ⁹	–	Correct order of size
δ ³⁴ S	ICP MS	0.2‰		‰ CDT ¹⁰	0.3‰	
⁸⁷ Sr/ ⁸⁶ Sr	TIMS	–		No unit (ratio) ¹¹	–	–
¹⁰ B/ ¹¹ B	ICP MS	–		No unit (ratio) ¹¹	–	–
²³⁴ U, ²³⁵ U, ²³⁸ U, ²³² Th, ²³⁰ Th, ²²² Rn, ²²⁶ Ra	Alfa spectr. LSC	0.5, ²²² Rn and ²²⁶ Ra 0.1		Bq/L ¹²	0.05 Bq/L	Correct order of size

1. Reporting limits at salinity $\leq 0.4\%$ (520 mS/m) and $\leq 3.5\%$ (3810 mS/m) respectively.
2. Measurement uncertainty reported by consulted laboratory, generally 95% confidence interval.
3. Estimated total uncertainty by experience (includes effects of sampling and sample handling).
4. Determined only in surface waters and near surface groundwater.
5. Per mille deviation¹³ from SMOW (Standard Mean Oceanic Water).
6. TU = Tritium Units, where one TU corresponds to a Tritium/hydrogen ratio of 10^{-18} (1 Bq/L Tritium = 8.45 TU).
7. Per mille deviation¹³ from SMOC (Standard Mean Oceanic Chloride).
8. Per mille deviation¹³ from PDB (the standard PeeDee Belemnite).
9. The following relation is valid between pmC (percent modern carbon) and Carbon-14 age: $pmC = 100 \times e^{-(1950-y-1.031)/8274}$ where y = the year of the C-14 measurement and t = C-14 age.
10. Per mille deviation¹³ from CDT (the standard Canyon Diablo Troilite).
11. Isotope ratio without unit.
12. The following expressions are applicable to convert activity to concentration, for uranium-238 and thorium-232: 1 ppm U = 12.4 Bq/kg²³⁸U, 1 ppm Th = 3.93 Bq/kg²³²Th.
13. Isotopes are often reported as per mill deviation from a standard. The deviation is calculated as: $\delta\% = 1,000 \times (K_{sample} - K_{standard}) / K_{standard}$, where K = the isotope ratio and $\% = {}^2\text{H}$, ${}^{18}\text{O}$, ${}^{37}\text{Cl}$, ${}^{13}\text{C}$ or ${}^{34}\text{S}$ etc.
14. The consulted laboratory is changed recently and the new laboratory reports lower detection limits.

Table A1-3. Consulted laboratories, full name and address.

Äspö waterchemical laboratory (SKB)
Mobile field laboratory, Forsmark (SKB)
Inainööritoimisto
Paavo Ristola Oy
Teollisuus-ja
Voimalaitoskemia
Rajantorantie 8, C-talo
01600 Vantaa
FINLAND
Dept. of System ecology
Stockholm University
SE-106 91 Stockholm
Analytica AB
Aurorum 10
977 75 Luleå
(Nytorsvägen 16
Box 511
SE-183 25 Täby)
Environmental Isotope Laboratory
Dep. Of earth sciences
University of Waterloo
Waterloo, Ontario
N2L 3G1 CANADA
Institutt for energiteknik (IFE)
Instituttveien 18
P.O Box 40
2027 Kjeller
NORGE
AnalyCen Nordic AB
Box 905
SE-531 19 Lidköping
The Ångström laboratory
Box 534
SE-751 21 Uppsala

Appendix 2

Field measurement

Idcode	Date and time	Planned water depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity* NTU	Light umolE/m ²	Oxygen mg/l	Chloro- phyll** ug/l	Atm pres- sure hPa	Light penetration m	Actual water depth m	Comment
PFM000062	2003-04-22 07:00	0.5	3.6	8.18	903.8	5.04	-1.0	379.6	13.88	1.8	1,008.1	3.7	3.7	0-värde ljusmätning = 681.9 µmol/m ² -sek
PFM000062	2003-04-22 07:00	1	3.6	8.19	904.4	5.05	-1.1	551.5	13.86	2.8	1,008.0	3.7	3.7	0-värde ljusmätning = 681.9 µmol/m ² -sek
PFM000062	2003-04-22 07:00	2	3.6	8.20	904.7	5.05	-0.6	213.3	13.84	4.1	1,008.1	3.7	3.7	0-värde ljusmätning = 681.9 µmol/m ² -sek
PFM000062	2003-04-22 07:00	3	3.6	8.10	905.0	5.05	-1.0	111.4	13.84	5.7	1,007.9	3.7	3.7	0-värde ljusmätning = 681.9 µmol/m ² -sek
PFM000062	2003-05-05 07:30	0.5	6.1	8.16	884.8	4.93	-0.9	600.9	12.41	1.4	1,012.1	4.0	4.0	0-värde ljusmätning = 752.1 µmol/m ² -sek
PFM000062	2003-05-05 07:30	1	6.1	8.17	885.0	4.93	-1.0	488.3	12.41	1.4	1,012.4	4.0	4.0	0-värde ljusmätning = 752.1 µmol/m ² -sek
PFM000062	2003-05-05 07:30	2	6.0	8.18	885.2	4.93	-0.8	265.4	12.39	2.6	1,012.5	4.0	4.0	0-värde ljusmätning = 752.1 µmol/m ² -sek
PFM000062	2003-05-05 07:30	3	6.1	8.18	885.6	4.93	-0.6	129.5	12.36	2.9	1,013.4	4.0	4.0	0-värde ljusmätning = 752.1 µmol/m ² -sek
PFM000062	2003-05-19 07:30	0.5	10.3	8.10	899.4	5.02	-1.3	795.1	11.95	0.6	1,006.8	3.8	3.8	0-värde ljusmätning = 988.8 µmol/m ² -sek
PFM000062	2003-05-19 07:30	1	10.3	8.12	902.6	5.04	-1.1	823.3	12.00	0.0	1,008.5	3.8	3.8	0-värde ljusmätning = 988.8 µmol/m ² -sek
PFM000062	2003-05-19 07:30	2	10.2	8.15	904.7	5.05	-0.4	478.3	12.08	0.9	1,011.4	3.8	3.8	0-värde ljusmätning = 988.8 µmol/m ² -sek
PFM000062	2003-05-19 07:30	3	10.0	8.15	905.3	5.05	0.7	270.8	12.10	1.4	1,012.6	3.8	3.8	0-värde ljusmätning = 988.8 µmol/m ² -sek
PFM000062	2003-06-02 07:30	0.5	12.1	8.09	811.9	4.53	-1.4	957.6	11.58	0.4	1,018.3	3.6	3.6	0-värde ljusmätning = 1341.4 µmol/m ² -sek
PFM000062	2003-06-02 07:30	1	12.1	8.10	812.2	4.53	-1.4	1,000.5	11.56	1.0	1,018.7	3.6	3.6	0-värde ljusmätning = 1341.4 µmol/m ² -sek
PFM000062	2003-06-02 07:30	2	12.0	8.11	812.1	4.53	-1.5	581.9	11.56	0.9	1,018.8	3.6	3.6	0-värde ljusmätning = 1341.4 µmol/m ² -sek
PFM000062	2003-06-02 07:30	3	12.0	8.12	812.3	4.53	-1.3	388.9	11.53	0.2	1,018.9	3.6	3.6	0-värde ljusmätning = 1341.4 µmol/m ² -sek
PFM000062	2003-06-16 07:00	0.5	11.9	7.99	899.9	5.02	-0.5	943.6	11.12	1.0	1,009.5	3.5	3.5	0-värde ljusmätning = 1719.9 µmol/m ² -sek
PFM000062	2003-06-16 07:00	1	11.9	7.99	899.9	5.02	-0.4	971.5	11.08	0.0	1,010.5	3.5	3.5	0-värde ljusmätning = 1719.9 µmol/m ² -sek
PFM000062	2003-06-16 07:00	2	11.9	8.00	899.9	5.02	-0.3	638.8	11.04	0.4	1,012.1	3.5	3.5	0-värde ljusmätning = 1719.9 µmol/m ² -sek
PFM000062	2003-06-16 07:00	3	11.9	7.94	900.1	5.02	-0.5	328.3	11.00	0.8	1,012.9	3.5	3.5	0-värde ljusmätning = 1719.9 µmol/m ² -sek
PFM000062	2003-07-07 08:00	0.5	17.1	8.10	851.4	4.77	-0.7	1,165.5	10.02	0.4	1,019.5	3.8	3.8	0-värde ljusmätning = 1301.9 µmol/m ² -sek
PFM000062	2003-07-07 08:00	1	17.0	8.10	851.7	4.77	-0.4	1,463.1	9.98	0.7	1,020.2	3.8	3.8	0-värde ljusmätning = 1301.9 µmol/m ² -sek
PFM000062	2003-07-07 08:00	2	17.0	8.10	851.8	4.77	-0.2	609.6	9.93	1.0	1,019.5	3.8	3.8	0-värde ljusmätning = 1301.9 µmol/m ² -sek
PFM000062	2003-07-07 08:00	3	16.9	8.03	852.1	4.77	-0.2	328.7	9.89	1.4	1,020.7	3.8	3.8	0-värde ljusmätning = 1301.9 µmol/m ² -sek
PFM000062	2003-08-04 08:00	0.5	15.6	7.80	897.5	5.04	-1.4	895.3	9.63	1.9	1,017.8	3.5	3.5	0-värde ljusmätning = 1388.1 µmol/m ² -sek
PFM000062	2003-08-04 08:00	1	15.4	7.79	897.1	5.04	-1.3	1,236.3	9.64	2.2	1,018.8	3.5	3.5	0-värde ljusmätning = 1388.1 µmol/m ² -sek
PFM000062	2003-08-04 08:00	2	15.3	7.77	897.5	5.04	-0.6	511.9	9.55	2.0	1,019.1	3.5	3.5	0-värde ljusmätning = 1388.1 µmol/m ² -sek
PFM000062	2003-08-04 08:00	3	15.1	7.73	897.4	5.04	-0.9	55.1	9.46	2.0	1,020.3	3.5	3.5	0-värde ljusmätning = 1388.1 µmol/m ² -sek
PFM000062	2003-09-01 07:30	0.5	16.6	8.16	844.5	4.73	-0.6	187.7	9.33	2.0	1,009.6	4.0	4.1	0-värde ljusmätning = 230.7 µmol/m ² -sek

Idcode	Date and time	Planned water depth	Water temperature	pH	Conductivity	Salinity	Turbidity*	Light	Oxygen	Chloro-phyll**	Atm pres-sure	Light penetration	Actual water depth	Comment
		m	°C		mS/m	ppt	NTU	umolE/m ²	mg/l	ug/l	hPa	m	m	
PFM000062	2003-09-01 07:30	1	16.6	8.15	844.7	4.73	-0.5	136.8	9.32	2.8	1,009.6	4.0	4.1	0-värde ljusmätning = 230.7 µmol/m ² sek
PFM000062	2003-09-01 07:30	2	16.6	8.15	844.8	4.73	-0.3	75.3	9.31	2.1	1,009.8	4.0	4.1	0-värde ljusmätning = 230.7 µmol/m ² sek
PFM000062	2003-09-01 07:30	3	16.6	8.15	844.8	4.73	-0.5	39.2	9.31	1.7	1,009.6	4.0	4.1	0-värde ljusmätning = 230.7 µmol/m ² sek
PFM000062	2003-09-15 08:00	0.5	15.8	7.96	874.9	4.91	-0.7	357.1	9.44	2.1	1,012.0	3.8	3.8	0-värde ljusmätning = 523.1 µmol/m ² sek
PFM000062	2003-09-15 08:00	1	15.8	7.95	875.1	4.91	-0.3	278.1	9.42	2.8	1,012.5	3.8	3.8	0-värde ljusmätning = 523.1 µmol/m ² sek
PFM000062	2003-09-15 08:00	2	15.8	7.95	875.1	4.91	-0.6	195.9	9.41	2.4	1,013.1	3.8	3.8	0-värde ljusmätning = 523.1 µmol/m ² sek
PFM000062	2003-09-15 08:00	3	15.8	7.95	875.1	4.91	-0.6	106	9.40	3.1	1,013.2	3.8	3.8	0-värde ljusmätning = 523.1 µmol/m ² sek
PFM000062	2003-09-29 08:00	0.5	13.1	7.77	888.8	4.99	-0.5	122.7	9.84	1.6	1,007.5	3.8	3.8	0-värde ljusmätning = 185.1 µmol/m ² sek
PFM000062	2003-09-29 08:00	1	13.1	7.78	888.9	4.99	-0.2	62.7	9.82	1.8	1,007.6	3.8	3.8	0-värde ljusmätning = 185.1 µmol/m ² sek
PFM000062	2003-09-29 08:00	2	13.1	7.78	888.9	4.99	-0.5	27.1	9.83	1.1	1,007.7	3.8	3.8	0-värde ljusmätning = 185.1 µmol/m ² sek
PFM000062	2003-09-29 08:00	3	13.1	7.79	888.9	4.99	-0.3	12.1	9.82	0.6	1,007.8	3.8	3.8	0-värde ljusmätning = 185.1 µmol/m ² sek
PFM000062	2003-10-28 07:00	0.5	4.8	7.93	896.1	4.97	-0.4	163.7	12.56	0.8	992.8	3.8	3.8	0-värde ljusmätning = 278 µmol/m ² sek
PFM000062	2003-10-28 07:00	1	4.9	7.93	896.2	4.97	-0.5	119.5	12.56	1.7	993.0	3.8	3.8	0-värde ljusmätning = 278 µmol/m ² sek
PFM000062	2003-10-28 07:00	2	4.9	7.93	895.6	4.97	-0.6	67.4	12.58	1.9	993.3	3.8	3.8	0-värde ljusmätning = 278 µmol/m ² sek
PFM000062	2003-10-28 07:00	3	4.8	7.93	895.7	4.97	-0.6	42.5	12.58	3.3	993.3	3.8	3.8	0-värde ljusmätning = 278 µmol/m ² sek
PFM000062	2003-11-12 07:00	0.5	5.3	7.75	912.8	5.08	-1.0	73.5	12.21	1.0	1,018.8	3.5	3.5	0-värde ljusmätning = 102.9 µmol/m ² sek
PFM000062	2003-11-12 07:00	1	5.3	7.76	911.9	5.07	-0.8	51.4	12.22	1.0	1,019.4	3.5	3.5	0-värde ljusmätning = 102.9 µmol/m ² sek
PFM000062	2003-11-12 07:00	2	5.3	7.76	913.1	5.08	-0.9	32.5	12.23	2.1	1,019.8	3.5	3.5	0-värde ljusmätning = 102.9 µmol/m ² sek
PFM000062	2003-11-12 07:00	3	5.3	7.76	913.1	5.08	-0.9	20.7	12.22	1.8	1,020.0	3.5	3.5	0-värde ljusmätning = 102.9 µmol/m ² sek
PFM000062	2003-11-25 07:00	0.5	4.1	7.84	907.5	5.03	-0.2	75.1	12.26	0.9	1,001.9	3.8	3.8	0-värde ljusmätning = 98.4 µmol/m ² sek
PFM000062	2003-11-25 07:00	1	4.2	7.83	907.7	5.03	-0.1	60.7	12.25	1.7	1,002.0	3.8	3.8	0-värde ljusmätning = 98.4 µmol/m ² sek
PFM000062	2003-11-25 07:00	2	4.2	7.84	904.9	5.01	-0.2	35.0	12.25	2.2	1,002.1	3.8	3.8	0-värde ljusmätning = 98.4 µmol/m ² sek
PFM000062	2003-11-25 07:00	3	4.2	7.84	907.8	5.03	-0.2	23.1	12.25	2.4	1,002.0	3.8	3.8	0-värde ljusmätning = 98.4 µmol/m ² sek
PFM000062	2003-12-15 08:00	0.5	2.6	7.87	898.3	4.94	3.6	0.0	12.57	2.1	975.3	2.7	3.7	Siktjup: skymning; osäkert värde.
PFM000062	2003-12-15 08:00	1	2.6	7.87	899.3	4.95	3.6	-0.3	12.52	2.1	975.4	2.7	3.7	0-värde ljusmätning = -0.1 µmol/m ² sek
PFM000062	2003-12-15 08:00	2	2.5	7.87	899.3	4.95	2.9	-0.2	12.51	2.6	975.8	2.7	3.7	Siktjup: skymning; osäkert värde.
PFM000062	2003-12-15 08:00	3	2.5	7.87	899.1	4.95	2.9	-0.2	12.51	2.8	976.0	2.7	3.7	0-värde ljusmätning = -0.1 µmol/m ² sek
PFM000062	2004-01-13 07:00	0.5	0.1	7.85	900.0	4.91	0.6		13.10	1.5	979.9	4.1	4.1	Siktjup: skymning; osäkert värde.
PFM000062	2004-01-13 07:00	1	0.1	7.89	900.0	4.92	0.8		13.03	1.8	980.4	4.1	4.1	0-värde ljusmätning = -0.1 µmol/m ² sek
PFM000062	2004-01-13 07:00	2	0.1	7.90	910.0	4.93	0.5		12.91	0.8	981.0	4.1	4.1	Siktjup: skymning; osäkert värde.
PFM000062	2004-01-13 07:00	3	0.1	7.91	910.0	4.94	0.4		12.80	2.7	980.9	4.1	4.1	0-värde ljusmätning = -0.1 µmol/m ² sek
PFM000063	2003-03-17 08:00	0.5	1.7	7.31	488.6	2.61	-0.7	203.8	11.61	2.9	1,013.8	3.9	3.9	0-värde ljusmätning = -0.1 µmol/m ² sek

Icode	Date and time	Planned water depth	Water temperature	pH	Conductivity	Salinity	Turbidity*	Light	Oxygen	Chloro- phyll**	Atm pres- sure	Light penetration	Actual water depth	Comment
PFM000063	2003-03-17 08:00	1	1.7	7.33	504.0	2.70	-0.9	104.6	11.73	2.6	1,014.1	3.9	3.9	PAR ovan ytan (i luft)~820.0
PFM000063	2003-03-17 08:00	2	1.1	7.45	549.7	2.96	-0.3	49.4	12.37	2.0	1,015.2	3.9	3.9	PAR ovan ytan (i luft)~820.0
PFM000063	2003-03-17 08:00	3	1.0	7.49	588.1	3.07	-0.4	26.0	12.16	2.9	1,015.5	3.9	3.9	PAR ovan ytan (i luft)~820.0
PFM000063	2003-03-17 08:00	4	1.0	7.45	574.0	3.10	-0.7	16.6	11.77	2.1	1,015.7	3.9	3.9	PAR ovan ytan (i luft)~820.0
PFM000063	2003-03-17 08:00	4.5	1.3	7.46	572.8	3.09	-0.1	13.5	11.67	2.2	1,015.6	3.9	3.9	PAR ovan ytan (i luft)~820.0
PFM000063	2003-04-22 07:00	0.5	8.7	8.21	861.1	4.79	1.6	668.7	12.26	2.2	1,015.6	2.2	4.5	0-värde ljusmätning = 870 umol/m ² -sek
PFM000063	2003-04-22 07:00	1	8.7	8.21	861.6	4.79	2.1	519.7	12.27	2.8	1,015.2	2.2	4.5	0-värde ljusmätning = 870 umol/m ² -sek
PFM000063	2003-04-22 07:00	2	8.7	8.23	862.7	4.80	0.8	205.1	12.36	2.1	1,015.4	2.2	4.5	0-värde ljusmätning = 870 umol/m ² -sek
PFM000063	2003-04-22 07:00	3	8.4	8.25	867.7	4.83	0.1	102.9	12.51	3.5	1,015.0	2.2	4.5	0-värde ljusmätning = 870 umol/m ² -sek
PFM000063	2003-04-22 07:00	4	7.8	8.24	871.8	4.85	0.0	52.5	12.57	4.4	1,013.9	2.2	4.5	0-värde ljusmätning = 870 umol/m ² -sek
PFM000063	2003-04-22 07:00	4.5	6.7	8.17	879.0	4.89	0.1	41.6	12.64	6.4	1,014.2	2.2	4.5	0-värde ljusmätning = 870 umol/m ² -sek
PFM000063	2003-05-05 07:30	0.5	6.2	8.03	863.2	4.80	1.3	757.1	11.79	2.8	1,015.1	2.9	4.9	0-värde ljusmätning = 799.8 umol/m ² -sek
PFM000063	2003-05-05 07:30	1	6.2	8.02	863.3	4.80	1.9	471.7	11.78	1.7	1,015.4	2.9	4.9	0-värde ljusmätning = 799.8 umol/m ² -sek
PFM000063	2003-05-05 07:30	2	6.2	8.00	863.1	4.80	1.5	246.3	11.74	2.8	1,016.1	2.9	4.9	0-värde ljusmätning = 799.8 umol/m ² -sek
PFM000063	2003-05-05 07:30	3	6.1	8.01	863.5	4.80	2.0	120.4	11.69	3.6	1,016.0	2.9	4.9	0-värde ljusmätning = 799.8 umol/m ² -sek
PFM000063	2003-05-05 07:30	4	6.1	8.02	863.6	4.80	0.9	47.1	11.69	3.0	1,015.9	2.9	4.9	0-värde ljusmätning = 799.8 umol/m ² -sek
PFM000063	2003-05-05 07:30	4.5	6.1	8.02	863.7	4.80	1.8	39.0	11.68	3.1	1,015.6	2.9	4.9	0-värde ljusmätning = 799.8 umol/m ² -sek
PFM000063	2003-05-19 07:30	0.5	13.6	8.00	891.5	4.97	0.3	864.9	10.62	0.0	1,004.2	2.1	5.2	0-värde ljusmätning = 1314.1 umol/m ² -sek
PFM000063	2003-05-19 07:30	1	13.6	8.01	891.5	4.97	0.5	618.3	10.61	1.1	1,006.0	2.1	5.2	0-värde ljusmätning = 1314.1 umol/m ² -sek
PFM000063	2003-05-19 07:30	2	12.4	8.01	894.1	4.98	0.5	278.9	10.90	1.4	1,006.7	2.1	5.2	0-värde ljusmätning = 1314.1 umol/m ² -sek
PFM000063	2003-05-19 07:30	3	10.8	7.97	895.8	4.99	1.3	118.2	10.99	2.8	1,007.2	2.1	5.2	0-värde ljusmätning = 1314.1 umol/m ² -sek
PFM000063	2003-05-19 07:30	4	9.2	7.81	900.0	5.02	1.4	39.3	10.73	2.3	1,006.9	2.1	5.2	0-värde ljusmätning = 1314.1 umol/m ² -sek
PFM000063	2003-05-19 07:30	4.5	8.9	7.64	900.4	5.02	2.7	30.3	9.87	3.7	1,007.1	2.1	5.2	0-värde ljusmätning = 1314.1 umol/m ² -sek
PFM000063	2003-06-02 07:30	0.5	14.8	8.04	808.5	4.51	0.4	967	10.62	0.3	1,018.7	2.2	5.1	0-värde ljusmätning = 1440.9 umol/m ² -sek
PFM000063	2003-06-02 07:30	1	14.8	8.04	808.5	4.51	0.5	725.1	10.59	1.0	1,019.0	2.2	5.1	0-värde ljusmätning = 1440.9 umol/m ² -sek
PFM000063	2003-06-02 07:30	2	14.8	8.03	808.8	4.51	0.4	376.6	10.57	1.6	1,018.3	2.2	5.1	0-värde ljusmätning = 1440.9 umol/m ² -sek
PFM000063	2003-06-02 07:30	3	13.8	8.08	809.7	4.52	0.3	191.1	10.96	1.7	1,018.8	2.2	5.1	0-värde ljusmätning = 1440.9 umol/m ² -sek
PFM000063	2003-06-02 07:30	4	12.0	7.85	810.0	4.52	2.4	96.1	10.48	4.3	1,018.6	2.2	5.1	0-värde ljusmätning = 1440.9 umol/m ² -sek
PFM000063	2003-06-02 07:30	4.5	11.4	7.63	801.2	4.46	7.2	61.8	9.67	5.7	1,017.7	2.2	5.1	0-värde ljusmätning = 1440.9 umol/m ² -sek
PFM000063	2003-06-16 07:00	0.5	15.2	8.11	895.2	4.99	-0.4	866.8	10.26	0.9	1,013.4	3.8	5.3	0-värde ljusmätning = 1181.4 umol/m ² -sek
PFM000063	2003-06-16 07:00	1	15.2	8.11	895.6	4.99	-0.1	845.4	10.23	1.4	1,014.8	3.8	5.3	0-värde ljusmätning = 1181.4 umol/m ² -sek
PFM000063	2003-06-16 07:00	2	15.2	8.11	895.7	4.99	-0.2	454.5	10.22	0.8	1,015.6	3.8	5.3	0-värde ljusmätning = 1181.4 umol/m ² -sek
PFM000063	2003-06-16 07:00	3	15.1	8.10	895.9	5.00	-0.2	299.8	10.19	1.6	1,017.2	3.8	5.3	0-värde ljusmätning = 1181.4 umol/m ² -sek
PFM000063	2003-06-16 07:00	4	12.9	7.82	896.7	5.00	1.5	186.9	9.71	3.8	1,017.9	3.8	5.3	0-värde ljusmätning = 1181.4 umol/m ² -sek
PFM000063	2003-06-16 07:00	4.5	12.6	7.69	897.2	5.00	4.1	132.9	9.19	4.7	1,017.8	3.8	5.3	0-värde ljusmätning = 1181.4 umol/m ² -sek
PFM000063	2003-07-07 08:00	0.5	19.5	8.15	868.2	4.86	-0.2	1414.3	9.62	1.0	1,019.4	3.0	5.1	0-värde ljusmätning = 1447.6 umol/m ² -sek

Idcode	Date and time	Planned water depth	Water temperature	pH	Conductivity	Salinity	Turbidity*	Light	Oxygen	Chloro-phyll**	Atm pres-sure	Light penetration	Actual water depth	Comment
		m	°C		mS/m	ppt	NTU	umolE/m ²	mg/l	ug/l	hPa	m	m	
PFM000063	2003-07-07 08:00	1	19.5	8.13	868.1	4.86	-0.4	813.9	9.56	0.0	1,021.4	3.0	5.1	0-värde ljusmätning = 1447.6 µmol/m ² -sek
PFM000063	2003-07-07 08:00	2	19.4	8.15	868.6	4.86	0.2	445.1	9.51	0.8	1,021.6	3.0	5.1	0-värde ljusmätning = 1447.6 µmol/m ² -sek
PFM000063	2003-07-07 08:00	3	18.4	8.08	866.0	4.85	1.1	210.7	9.49	1.2	1,022.9	3.0	5.1	0-värde ljusmätning = 1447.6 µmol/m ² -sek
PFM000063	2003-07-07 08:00	4	17.6	8.09	863.1	4.83	0.4	112.3	9.59	1.4	1,023.7	3.0	5.1	0-värde ljusmätning = 1447.6 µmol/m ² -sek
PFM000063	2003-07-07 08:00	4.5	17.1	7.87	860.1	4.82	3.1	69.8	8.88	3.1	1,025.1	3.0	5.1	0-värde ljusmätning = 1447.6 µmol/m ² -sek
PFM000063	2003-08-04 08:00	0.5	21.0	8.10	885.3	4.96	0.7	839.4	9.26	3.0	1,021.8	2.0	5.2	0-värde ljusmätning = 1676.1 µmol/m ² -sek
PFM000063	2003-08-04 08:00	1	20.9	8.11	885.1	4.96	0.8	158.5	9.24	2.9	1,022.3	2.0	5.2	0-värde ljusmätning = 1676.1 µmol/m ² -sek
PFM000063	2003-08-04 08:00	2	19.2	7.94	887.3	4.98	1.8	328.3	8.99	3.6	1,021.8	2.0	5.2	0-värde ljusmätning = 1676.1 µmol/m ² -sek
PFM000063	2003-08-04 08:00	3	17.4	7.76	892.5	5.01	2.5	119.6	8.77	7.1	1,022.8	2.0	5.2	0-värde ljusmätning = 1676.1 µmol/m ² -sek
PFM000063	2003-08-04 08:00	4	16.7	7.46	891.6	5.01	3.3	11.9	7.46	4.5	1,022.9	2.0	5.2	0-värde ljusmätning = 1676.1 µmol/m ² -sek
PFM000063	2003-08-04 08:00	4.5	16.4	7.45	893.3	5.02	3.6	7.5	7.30	4.8	1,021.3	2.0	5.2	0-värde ljusmätning = 1676.1 µmol/m ² -sek
PFM000063	2003-09-01 07:30	0.5	14.9	8.16	849.9	4.76	-0.1	402.1	9.63	3.5	1,009.7	3.8	5.1	0-värde ljusmätning = 416.4 µmol/m ² -sek
PFM000063	2003-09-01 07:30	1	14.9	8.15	850.5	4.76	-0.2	311.5	9.63	2.7	1,010.3	3.8	5.1	0-värde ljusmätning = 416.4 µmol/m ² -sek
PFM000063	2003-09-01 07:30	2	14.8	8.16	850.1	4.76	0.0	172.1	9.62	2.4	1,010.3	3.8	5.1	0-värde ljusmätning = 416.4 µmol/m ² -sek
PFM000063	2003-09-01 07:30	3	14.8	8.16	850.2	4.76	-0.1	96.2	9.62	3.1	1,010.4	3.8	5.1	0-värde ljusmätning = 416.4 µmol/m ² -sek
PFM000063	2003-09-01 07:30	4	14.8	8.15	850.3	4.76	0.0	49.7	9.61	2.1	1,010.2	3.8	5.1	0-värde ljusmätning = 416.4 µmol/m ² -sek
PFM000063	2003-09-01 07:30	4.5	14.8	8.15	851.0	4.77	0.3	35.5	9.60	3.4	1,010.1	3.8	5.1	0-värde ljusmätning = 416.4 µmol/m ² -sek
PFM000063	2003-09-15 08:00	0.5	15.8	7.88	859.8	4.82	1.4	241.4	9.23	4.6	1,011.5	2.2	5.2	0-värde ljusmätning = 331.2 µmol/m ² -sek
PFM000063	2003-09-15 08:00	1	15.8	7.89	859.6	4.82	1.5	154.3	9.21	4.4	1,012.3	2.2	5.2	0-värde ljusmätning = 331.2 µmol/m ² -sek
PFM000063	2003-09-15 08:00	2	15.8	7.88	859.7	4.82	1.5	54.8	9.21	4.6	1,012.5	2.2	5.2	0-värde ljusmätning = 331.2 µmol/m ² -sek
PFM000063	2003-09-15 08:00	3	15.8	7.88	859.6	4.82	1.9	22.3	9.20	4.6	1,012.6	2.2	5.2	0-värde ljusmätning = 331.2 µmol/m ² -sek
PFM000063	2003-09-15 08:00	4	15.8	7.87	859.5	4.82	2.0	10.7	9.19	5.8	1,012.6	2.2	5.2	0-värde ljusmätning = 331.2 µmol/m ² -sek
PFM000063	2003-09-15 08:00	4.5	15.8	7.87	859.5	4.82	1.9	7.0	9.17	5.1	1,012.6	2.2	5.2	0-värde ljusmätning = 331.2 µmol/m ² -sek
PFM000063	2003-09-29 08:00	0.5	10.6	7.76	886.7	4.97	0.2	85.0	10.29	2.3	1,006.1	2.7	5.1	0-värde ljusmätning = 116 µmol/m ² -sek
PFM000063	2003-09-29 08:00	1	10.6	7.76	886.8	4.97	0.3	59.0	10.27	2.1	1,006.1	2.7	5.1	0-värde ljusmätning = 116 µmol/m ² -sek
PFM000063	2003-09-29 08:00	2	10.6	7.75	886.6	4.97	0.2	29.0	10.26	2.9	1,006.4	2.7	5.1	0-värde ljusmätning = 116 µmol/m ² -sek
PFM000063	2003-09-29 08:00	3	10.6	7.74	886.8	4.97	0.3	12.5	10.22	2.9	1,006.6	2.7	5.1	0-värde ljusmätning = 116 µmol/m ² -sek
PFM000063	2003-09-29 08:00	4	10.6	7.74	886.6	4.97	0.2	7.9	10.23	1.7	1,006.4	2.7	5.1	0-värde ljusmätning = 116 µmol/m ² -sek
PFM000063	2003-09-29 08:00	4.5	10.6	7.74	887.1	4.97	0.4	5.7	10.20	1.5	1,006.7	2.7	5.1	0-värde ljusmätning = 116 µmol/m ² -sek
PFM000063	2003-10-28 07:00	0.5	2.9	7.83	900.3	4.96	-0.4	101.1	12.92	1.4	991.0	4.4	5.2	0-värde ljusmätning = 154.8 µmol/m ² -sek
PFM000063	2003-10-28 07:00	1	2.9	7.82	900.5	4.96	-0.3	74.8	12.90	1.1	991.1	4.4	5.2	0-värde ljusmätning = 154.8 µmol/m ² -sek
PFM000063	2003-10-28 07:00	2	2.8	7.82	900.6	4.96	-0.3	44.1	12.91	1.2	991.7	4.4	5.2	0-värde ljusmätning = 154.8 µmol/m ² -sek
PFM000063	2003-10-28 07:00	3	2.8	7.81	901.2	4.96	-0.3	23.5	12.93	2.2	991.7	4.4	5.2	0-värde ljusmätning = 154.8 µmol/m ² -sek
PFM000063	2003-10-28 07:00	4	2.8	7.81	901.1	4.96	-0.3	14.2	12.91	2.4	991.4	4.4	5.2	0-värde ljusmätning = 154.8 µmol/m ² -sek
PFM000063	2003-10-28 07:00	4.5	2.8	7.81	900.8	4.96	-0.4	11.8	12.89	2.2	991.2	4.4	5.2	0-värde ljusmätning = 154.8 µmol/m ² -sek

Idcode	Date and time	Planned water depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity* NTU	Light umolE/m²	Oxygen mg/l	Chloro- phyll** ug/l	Atm pres- sure hPa	Light penetration m	Actual water depth m	Comment
PFM000063	2003-11-12 07:00	0.5	4.3	7.69	895.8	4.96	-0.8	70.3	12.39	3.4	1,020.1	4.5	5.2	Dimma. 0-värde ljusmätning = 138.2 µmol/m²-sek
PFM000063	2003-11-12 07:00	1	4.3	7.68	895.7	4.96	-0.7	66.9	12.38	3.2	1,020.3	4.5	5.2	Dimma. 0-värde ljusmätning = 138.2 µmol/m²-sek
PFM000063	2003-11-12 07:00	2	4.3	7.69	896.4	4.96	-0.7	33.0	12.37	3.4	1,020.6	4.5	5.2	Dimma. 0-värde ljusmätning = 138.2 µmol/m²-sek
PFM000063	2003-11-12 07:00	3	4.3	7.68	896.3	4.96	-0.8	20.2	12.34	2.9	1,020.6	4.5	5.2	Dimma. 0-värde ljusmätning = 138.2 µmol/m²-sek
PFM000063	2003-11-12 07:00	4	4.3	7.67	896.2	4.96	-0.8	14.0	12.33	2.5	1,020.5	4.5	5.2	Dimma. 0-värde ljusmätning = 138.2 µmol/m²-sek
PFM000063	2003-11-12 07:00	4.5	4.3	7.66	896.2	4.96	1.6	11.6	12.29	3.1	1,020.5	4.5	5.2	Dimma. 0-värde ljusmätning = 138.2 µmol/m²-sek
PFM000063	2003-11-25 07:00	0.5	1.6	7.67	902.0	4.94	-0.7	16.2	12.64	3.1	1,002.7	4.7	4.7	0-värde ljusmätning = 20.2 µmol/m²-sek
PFM000063	2003-11-25 07:00	1	1.7	7.67	902.1	4.95	-0.7	13.4	12.65	3.6	1,003.5	4.7	4.7	0-värde ljusmätning = 20.2 µmol/m²-sek
PFM000063	2003-11-25 07:00	2	1.7	7.67	902.2	4.95	-0.7	7.7	12.64	3.9	1,004.3	4.7	4.7	0-värde ljusmätning = 20.2 µmol/m²-sek
PFM000063	2003-11-25 07:00	3	1.8	7.67	901.7	4.94	-0.6	4.8	12.62	2.7	1,004.4	4.7	4.7	0-värde ljusmätning = 20.2 µmol/m²-sek
PFM000063	2003-11-25 07:00	4	1.8	7.68	902.6	4.95	-0.6	3.3	12.63	2.2	1,004.1	4.7	4.7	0-värde ljusmätning = 20.2 µmol/m²-sek
PFM000063	2003-11-25 07:00	4.5	1.9	7.68	902.6	4.95	-0.6	2.7	12.61	2.5	1,004.1	4.7	4.7	0-värde ljusmätning = 20.2 µmol/m²-sek
PFM000063	2003-12-15 08:00	0.5	0.8	7.80	908.4	4.96	0.7	1.8	13.03	3.1	974.0	3.7	5.3	0-värde ljusmätning = 2.2 µmol/m²-sek
PFM000063	2003-12-15 08:00	1	0.8	7.81	908.5	4.96	0.7	0.8	12.99	2.4	974.3	3.7	5.3	0-värde ljusmätning = 2.2 µmol/m²-sek
PFM000063	2003-12-15 08:00	2	0.8	7.81	908.6	4.96	0.7	0.4	12.97	3.0	974.5	3.7	5.3	0-värde ljusmätning = 2.2 µmol/m²-sek
PFM000063	2003-12-15 08:00	3	0.8	7.80	908.1	4.96	0.7	-0.1	12.95	2.5	974.6	3.7	5.3	0-värde ljusmätning = 2.2 µmol/m²-sek
PFM000063	2003-12-15 08:00	4	0.8	7.80	908.4	4.96	0.7	-0.2	12.94	3.0	974.9	3.7	5.3	0-värde ljusmätning = 2.2 µmol/m²-sek
PFM000063	2003-12-15 08:00	4.5	0.8	7.80	907.9	4.96	0.5	-0.4	13.07	5.1	975.9	3.7	5.3	0-värde ljusmätning = 2.2 µmol/m²-sek
PFM000063	2004-01-13 07:00	0.5	-0.1	7.73	880.0	4.76	0.4		12.05	3.3	978.5	4.0	4.5	Icedepth 0.10
PFM000063	2004-01-13 07:00	1	-0.1	7.64	880.0	4.78	0.3		11.51	1.7	979.0	4.0	4.5	Icedepth 0.10
PFM000063	2004-01-13 07:00	2	0.2	7.64	890.0	4.81	0.3		11.53	2.4	979.4	4.0	4.5	Icedepth 0.10
PFM000063	2004-01-13 07:00	3	0.3	7.60	890.0	4.87	0.1		11.14	1.8	979.5	4.0	4.5	Icedepth 0.10
PFM000063	2004-01-13 07:00	4	0.6	7.54	900.0	4.89	0.4		10.47	2.2	979.6	4.0	4.5	Icedepth 0.10
PFM000063	2004-01-13 07:00	4.5	0.7	7.49	920.0	5.03	0.0		10.24	2.0	978.7	4.0	4.5	Icedepth 0.10
PFM000063	2004-02-10 07:00	0.5	0.4	7.54	840.0	4.54	0.4		11.35	3.4	999.8	3.5	5.0	Snödjup 0/Isjocklek 0.25
PFM000063	2004-02-10 07:00	1	0.3	7.49	860.0	4.69	0.5		11.14	2.4	999.7	3.5	5.0	Snödjup 0/Isjocklek 0.25
PFM000063	2004-02-10 07:00	2	0.4	7.50	870.0	4.75	0.5		11.15	2.8	999.8	3.5	5.0	Snödjup 0/Isjocklek 0.25
PFM000063	2004-02-10 07:00	3	0.4	7.52	890.0	4.87	0.3		11.26	2.7	999.7	3.5	5.0	Snödjup 0/Isjocklek 0.25
PFM000063	2004-02-10 07:00	4	0.6	7.51	900.0	4.91	0.4		11.00	2.9	999.3	3.5	5.0	Snödjup 0/Isjocklek 0.25
PFM000063	2004-02-10 07:00	4.5	0.8	7.40	900.0	4.92	1.2		9.31	2.9	999.1	3.5	5.0	Snödjup 0/Isjocklek 0.25

Icode	Date and time	Planned water depth	Water temperature	pH	Conductivity	Salinity	Turbidity*	Light	Oxygen	Chloro-phyll**	Atm pres-sure	Light penetration	Actual water depth	Comment
PFM000064	2003-04-22 07:00	0.5	10.7	8.11	597.1	3.23	5.0	493.5	11.54	4.2	1,013.2	1.1	1.5	0-värde ljusmätning = 794.2 µmol/m ² ·sek
PFM000064	2003-04-22 07:00	1	7.0	8.12	847.2	4.70	7.2	289.9	13.01	7.5	1,013.4	1.1	1.5	0-värde ljusmätning = 794.2 µmol/m ² ·sek
PFM000064	2003-05-05 07:30	0.5	6.8	7.96	615.7	3.34	5.5	360.7	11.85	5.2	1,015.2	1.0	1.7	0-värde ljusmätning = 638.9 µmol/m ² ·sek
PFM000064	2003-05-05 07:30	1	6.9	7.96	607.8	3.30	6.1	170.2	11.84	5.0	1,014.1	1.0	1.7	0-värde ljusmätning = 638.9 µmol/m ² ·sek
PFM000064	2003-05-19 07:30	0.5	14.4	8.30	767.0	4.23	1.1	413.8	11.44	4.1	1,003.7	1.7	1.8	0-värde ljusmätning = 534.2 µmol/m ² ·sek
PFM000064	2003-05-19 07:30	1	13.0	8.26	780.6	4.31	2.3	254.8	11.69	4.8	1,004.7	1.7	1.8	0-värde ljusmätning = 534.2 µmol/m ² ·sek
PFM000064	2003-06-02 07:30	0.5	16.5	8.08	746.8	4.14	4.0	830.5	10.59	2.8	1,014.7	1.2	1.6	0-värde ljusmätning = 1080.5 µmol/m ² ·sek
PFM000064	2003-06-02 07:30	1	16.4	8.08	747.3	4.15	4.5	413.9	10.63	4.9	1,016.7	1.2	1.6	0-värde ljusmätning = 1080.5 µmol/m ² ·sek
PFM000064	2003-06-16 07:00	0.5	15.4	8.08	863.6	4.80	3.8	1,307.9	10.30	2.2	1,015.4	1.7	1.8	0-värde ljusmätning = 2014 µmol/m ² ·sek
PFM000064	2003-06-16 07:00	1	15.4	8.08	863.9	4.80	6.0	534.7	10.32	3.6	1,016.6	1.7	1.8	0-värde ljusmätning = 2014 µmol/m ² ·sek
PFM000064	2003-07-07 08:00	0.5	20.4	8.20	859.1	4.80	2.1	2,057.3	9.62	1.7	1,022.0	1.8	2.0	0-värde ljusmätning = 1361.4 µmol/m ² ·sek
PFM000064	2003-07-07 08:00	1	20.3	8.20	859.7	4.81	1.9	559.2	9.64	1.4	1,021.0	1.8	2.0	0-värde ljusmätning = 1361.4 µmol/m ² ·sek
PFM000064	2003-08-04 08:00	0.5	23.2	8.86	862.7	4.81	4.5	764.0	10.91	2.8	1,021.6	1.2	1.7	0-värde ljusmätning = 1370.3 µmol/m ² ·sek
PFM000064	2003-08-04 08:00	1	22.7	8.72	862.4	4.81	3.8	611.8	10.14	3.4	1,022.9	1.2	1.7	0-värde ljusmätning = 1370.3 µmol/m ² ·sek
PFM000064	2003-09-01 07:30	0.5	14.3	8.65	830.9	4.65	0.6	274.8	10.31	4.9	1,009.6	1.8	1.8	0-värde ljusmätning = 402.8 µmol/m ² ·sek
PFM000064	2003-09-01 07:30	1	14.3	8.63	833.0	4.66	2.0	186.2	10.24	4.5	1,009.9	1.8	1.8	0-värde ljusmätning = 402.8 µmol/m ² ·sek
PFM000064	2003-09-15 08:00	0.5	15.9	8.59	837.9	4.69	1.3	264.1	9.63	4.1	1,011.1	1.7	1.7	0-värde ljusmätning = 380.6 µmol/m ² ·sek
PFM000064	2003-09-15 08:00	1	15.9	8.58	837.6	4.68	1.7	179.4	9.61	5.5	1,011.6	1.7	1.7	0-värde ljusmätning = 380.6 µmol/m ² ·sek
PFM000064	2003-09-29 08:00	0.5	9.6	7.51	844.5	4.71	-0.4	197	9.46	3.2	1,004.6	1.7	1.7	0-värde ljusmätning = 192.3 µmol/m ² ·sek
PFM000064	2003-09-29 08:00	1	9.6	7.51	844.5	4.71	-0.4	210.6	9.46	3.3	1,006.4	1.7	1.7	0-värde ljusmätning = 192.3 µmol/m ² ·sek
PFM000064	2003-10-28 07:00	0.5	1.0	7.70	856.4	4.66	0.2	132.8	13.27	2.9	992.2	1.7	1.7	0-värde ljusmätning = 194.9 µmol/m ² ·sek
PFM000064	2003-10-28 07:00	1	1.0	7.69	854.4	4.65	1.0	79.9	13.25	4.0	992.3	1.7	1.7	0-värde ljusmätning = 194.9 µmol/m ² ·sek
PFM000064	2003-11-12 07:00	0.5	3.5	7.57	759.2	4.15	0.9	49.2	12.06	4.5	1,019.0	1.5	1.5	Dimma. 0-värde ljusmätning = 124.9 µmol/m ² ·sek
PFM000064	2003-11-12 07:00	1	3.5	7.57	759.5	4.15	0.8	38.5	11.98	4.7	1,019.3	1.5	1.5	Dimma. 0-värde ljusmätning = 124.9 µmol/m ² ·sek
PFM000064	2003-11-25 07:00	0.5	0.2	7.59	773.2	4.16	-0.2	26.4	12.79	4.5	1,002.5	1.7	1.7	0-värde ljusmätning = 42.6 µmol/m ² ·sek
PFM000064	2003-11-25 07:00	1	0.2	7.57	775.2	4.18	-0.3	15.8	12.75	3.6	1,002.4	1.7	1.7	0-värde ljusmätning = 42.6 µmol/m ² ·sek
PFM000064	2003-12-15 08:00	0.5	0.5	7.51	672.4	3.59	1.8	6.3	11.89	5.2	974.0	1.6	1.6	Is inne i viken. 0-värde ljusmätning = 8.6 µmol/m ² ·sek
PFM000064	2003-12-15 08:00	1	1.1	7.42	726.6	3.92	1.5	3.2	11.46	4.3	974.3	1.6	1.6	Is inne i viken. 0-värde ljusmätning = 8.6 µmol/m ² ·sek
PFM000064	2004-01-12 08:00	0.5	0.5	7.18	220.0	1.09	9.4	9.70	9.70	13.2	976.6	1.8	1.8	
PFM000064	2004-01-12 08:00	1	1.4	7.00	780.0	4.24	1.6	6.61	6.61	2.5	977.6	1.8	1.8	
PFM000064	2004-02-10 07:00	0.5	0.4	6.94	290.0	1.47	1.3	7.79	7.79	11.5	997.5	1.7	1.7	Snödjup 0/Isjocklek 0.25
PFM000064	2004-02-10 07:00	1	0.8	6.89	630.0	3.34	2.0	6.77	6.77	6.2	997.8	1.7	1.7	Snödjup 0/Isjocklek 0.25

Idcode	Date and time	Planned water depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity* NTU	Light umolE/m ²	Oxygen mg/l	Chloro- phyl** ug/l	Atm pres- sure hPa	Light penetration m	Actual water depth m	Comment
PFM000065	2003-04-22 07:00	0.5	10.0	8.29	640.5	3.49	4.7	667.2	12.53	4.0	1,012.0	1.2	1.2	0-värde ljusmätning = 879.6 µmol/m ² -sek
PFM000065	2003-05-05 07:30	0.5	7.7	7.98	476.7	2.54	39.2	167.6	11.93	11.2	1,015.0	0.3	0.9	0-värde ljusmätning = 801.3 µmol/m ² -sek
PFM000065	2003-05-19 07:30	0.5	15.9	8.08	420.8	2.23	6.1	281.8	10.87	6.5	1,001.6	1.0	1.1	0-värde ljusmätning = 560.6 µmol/m ² -sek
PFM000065	2003-06-02 07:30	0.5	16.4	8.17	651.6	3.58	3.8	542.1	10.99	4.5	1,013.2	1.2	1.2	0-värde ljusmätning = 856.3 µmol/m ² -sek
PFM000065	2003-06-16 07:00	0.5	15.2	8.17	864.2	4.80	2.3	697.1	10.61	1.1	1,011.6	1.3	1.3	0-värde ljusmätning = 717.7 µmol/m ² -sek
PFM000065	2003-07-07 08:00	0.5	20.0	8.24	798.7	4.44	1.7	856.1	9.88	1.9	1,016.1	1.4	1.4	0-värde ljusmätning = 1185.4 µmol/m ² -sek
PFM000065	2003-08-04 08:00	0.5	18.6	8.26	890.1	4.99	0.0	217.6	10.49	2.2	1,016.7	1.4	1.4	0-värde ljusmätning = 308 µmol/m ² -sek
PFM000065	2003-09-01 07:30	0.5	14.4	8.19	836.7	4.68	1.6	556.7	9.85	3.4	1,011.5	1.5	1.5	0-värde ljusmätning = 684.6 µmol/m ² -sek
PFM000065	2003-09-15 08:00	0.5	15.7	7.96	848.1	4.75	0.7	349	9.60	3.1	1,010.9	1.4	1.4	0-värde ljusmätning = 423.7 µmol/m ² -sek
PFM000065	2003-09-29 08:00	0.5	10.0	7.79	863.5	4.83	4.7	80.3	10.51	3.1	1,004.3	1.2	1.4	0-värde ljusmätning = 179.6 µmol/m ² -sek
PFM000065	2003-10-28 07:00	0.5	3.0	7.88	858.9	4.72	9.2	118.9	12.95	4.1	992.2	1.3	1.3	0-värde ljusmätning = 438.5 µmol/m ² -sek
PFM000065	2003-11-12 07:00	0.5	4.3	7.74	868.1	4.80	3.6	58	12.27	3.9	1,019.1	1.2	1.2	Dimma. 0-värde ljusmätning = 131.5 µmol/m ² -sek
PFM000065	2003-11-25 07:00	0.5	1.2	7.73	812.2	4.41	1.8	41.3	12.94	2.7	1,001.7	1.1	1.1	0-värde ljusmätning = 71.9 µmol/m ² -sek
PFM000065	2003-12-15 08:00	0.5	1.1	7.73	800.1	4.34	1.7	13.5	12.82	3.3	973.6	1.4	1.4	0-värde ljusmätning = 19.3 µmol/m ² -sek
PFM000065	2004-01-12 08:00	0.5	0.2	7.26	120.0	0.61	5.5		8.83	9.2	976.4	1.3	1.3	
PFM000065	2004-02-10 07:00	0.5	0.1	7.45	120.0	0.56	5.5		10.04	13.6	999.7	1.3	1.3	Snödjup 0/Istjocklek 0.25
PFM000066	2003-03-18 07:30	0.1	2.3	6.83	41.3	0.20			3.80		1,013.9		0.3	
PFM000066	2003-04-22 07:00	0.1	8.3	7.33	34.3	0.17			7.13		1,009.3		0.3	
PFM000066	2003-05-06 07:30	0.1	9.2	7.35	29.5	0.14			7.94		1,001.7		0.4	
PFM000066	2003-05-20 07:30	0.1	13.0	7.23	33.5	0.16			6.28		1,001.7		0.3	
PFM000066	2003-06-03 07:00	0.1	17.9	7.32	29.4	0.14			5.16		1,018.8		0.2	
PFM000066	2003-06-17 07:00	0.1	14.9	7.38	31.0	0.15			6.57		1,012.8		0.2	
PFM000066	2003-07-08 07:30	0.1	15.3	7.31	29.6	0.14			5.70		1,015.2		0.1	
PFM000066	2003-09-01 06:30	0.1	8.9	7.03	38.3	0.18			6.88		1,014.0		0.1	
PFM000066	2003-09-30 07:00	0.1	6.9	7.18	42.0	0.20			7.28		1,010.6		0.1	Flöde mycket lågt
PFM000066	2003-10-27 07:00	0.1	0.1	7.22	37.7	0.18			7.28		993.2		0.1	Snowdepth: Issörja
PFM000066	2003-11-12 07:00	0.1	2.9	7.16	31.5	0.15			7.11		1,016.2		0.4	
PFM000066	2003-11-25 07:00	0.1	0.8	7.18	35.0	0.17			6.58		1,000.9		0.4	
PFM000066	2003-12-16 08:00	0.1	0.2	7.15	35.7	0.17			6.91		1,002.0		0.4	
PFM000066	2004-01-12 08:00	0.1	0.0	7.10	30.0	0.14			3.03		975.0		0.3	Icedepth 0.03 m
PFM000066	2004-02-09 08:00	0.1	-0.1	7.03	40.0	0.17			1.98		987.1		0.3	Snödjup 0.02/Istjocklek 0.08
PFM000067	2003-03-18 07:30	0.1	5.4	6.85	55.3	0.27			4.76		1,017.5		0.3	
PFM000067	2003-04-23 07:00	0.1	9.4	8.22	40.2	0.19			10.83		1,013.8		0.3	
PFM000067	2003-05-06 07:30	0.1	10.7	8.36	35.0	0.17			11.73		1,000.8		0.3	
PFM000067	2003-05-20 07:30	0.1	17.2	8.31	36.5	0.18			11.28		1,002.8		0.3	

Icode	Date and time	Planned water depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity* NTU	Light umolE/m ²	Oxygen mg/l	Chloro- phyl** ug/l	Atm pres- sure hPa	Light penetration m	Actual water depth m	Comment
PFM000067	2003-06-03 07:00	0.1	21.5	8.41	26.7	0.13			10.25		1,030.3		0.2	
PFM000067	2003-06-17 07:00	0.1	21.5	8.57	35.6	0.17			11.10		1,014.7		0.2	
PFM000067	2003-07-08 07:30	0.1	25.2	8.61	36.1	0.17			10.53		1,013.7		0.1	
PFM000067	2003-08-05 07:00	0.1	18.4	7.44	40.4	0.19			8.14		1,019.7		0.0	
PFM000067	2003-09-01 06:30	0.1	15.4	8.61	34.9	0.17			11.04		1,014.4		0.1	
PFM000067	2003-09-16 07:00	0.1	15.9	7.36	37.3	0.18			7.20		1,008.4		0.1	
PFM000067	2003-09-30 07:00	0.1	10.2	7.63	37.8	0.18			11.59		1,012.2		0.1	
PFM000067	2003-10-28 07:00	0.1	3.1	7.83	36.3	0.17			13.29		989.2		0.2	
PFM000067	2003-11-13 06:30	0.1	2.1	7.76	34.2	0.16			13.17		1,015.6		0.3	
PFM000067	2003-12-17 08:00	0.1	0.6	7.55	35.6	0.17			13.08		988.4		0.4	
PFM000067	2004-01-13 07:00	0.1	1.1	7.12	40.0	0.17			4.05		977.5		0.4	Snow/Ice: Open
PFM000067	2004-02-11 07:00	0.1	1.2	7.06	40.0	0.19			2.12		1,014.0		0.3	Snödjup/Isjocklek: öppet
PFM000068	2003-03-18 07:30	0.1	0.3	6.95	37.0	0.18			7.85		1,013.8		0.4	
PFM000068	2003-03-30 17:55	0.1	3.3	6.94	31.2	0.15			8.37		982.0		0.4	
PFM000068	2003-04-23 07:00	0.1	5.0	7.28	32.2	0.15			7.40		1,014.2		0.4	
PFM000068	2003-05-05 07:30	0.1	9.1	7.12	26.2	0.13			8.01		1,010.4		0.5	
PFM000068	2003-05-20 07:30	0.1	12.4	7.22	32.2	0.15			6.99		1,005.4		0.4	
PFM000068	2003-06-03 07:00	0.1	15.7	7.27	31.6	0.15			6.85		1,029.7		0.3	
PFM000068	2003-06-17 07:00	0.1	11.2	7.32	38.9	0.19			8.21		1,031.0		0.2	
PFM000068	2003-07-08 07:30	0.1	15.3	7.51	42.3	0.20			6.61		1,013.0		0.5	
PFM000068	2003-09-01 06:30	0.1	10.3	7.14	40.3	0.19			7.89		1,014.4		0.2	
PFM000068	2003-09-15 08:00	0.1	13.8	7.26	47.9	0.23			4.42		1,006.8		0.1	
PFM000068	2003-09-29 08:00	0.1	8.4	7.15	42.2	0.20			7.41		1,005.4		0.2	
PFM000068	2003-10-29 07:00	0.1	0.8	6.93	40.8	0.19			8.48		994.0		0.3	Icedepth: Delvis öppet
PFM000068	2003-11-13 06:30	0.1	2.0	6.88	32.2	0.15			8.29		1,016.7		0.4	
PFM000068	2003-11-25 07:00	0.1	0.8	6.98	31.3	0.15			7.76		1,000.7		0.4	
PFM000068	2003-12-16 08:00	0.1	0.3	6.94	32.9	0.16			7.34		996.4		0.4	
PFM000068	2004-01-13 07:00	0.1	-0.1	6.84	30.0	0.16			3.37		977.1		0.4	Icedepth 0.03
PFM000068	2004-02-09 08:00	0.1	-0.1	6.95	30.0	0.16			4.83		997.3		0.3	Snödjup 0.03 /Isjocklek 0.10
PFM000069	2003-03-18 07:30	0.1	0.6	6.80	50.4	0.24			4.65		1,013.2		0.3	
PFM000069	2003-03-30 18:50	0.1	2.9	6.84	40.5	0.20			5.07		981.7		0.3	
PFM000069	2003-04-23 07:00	0.1	4.2	7.10	37.1	0.18			5.82		1,013.4		0.3	
PFM000069	2003-05-05 07:30	0.1	9.8	7.04	32.3	0.16			5.67		1,008.7		0.5	
PFM000069	2003-05-20 07:30	0.1	12.1	7.11	34.8	0.17			6.02		1,002.0		0.3	
PFM000069	2003-06-03 07:00	0.1	15.0	7.16	33.1	0.16			6.15		1,037.1		0.2	
PFM000069	2003-06-17 07:00	0.1	13.5	7.30	40.5	0.20			9.13		1,019.6		0.2	

Icode	Date and time	Planned water depth	Water temperature	pH	Conductivity	Salinity	Turbidity*	Light	Oxygen	Chloro-phyl**	Atm pres-sure	Light penetration	Actual water depth	Comment
PFM000069	2003-07-08 07:30	0.1	15.7	7.49	41.8	0.20			7.52		1,010.8		0.1	
PFM000069	2003-09-01 06:30	0.1	10.2	7.12	42.8	0.21			8.00		1,014.1		0.1	
PFM000069	2003-09-15 08:00	0.1	14.0	7.35	47.8	0.23			6.20		1,008.4		0.1	
PFM000069	2003-09-29 08:00	0.1	8.3	7.14	42.4	0.20			7.42		1,005.9		0.1	
PFM000069	2003-10-28 07:00	0.1	0.4	6.93	39.4	0.19			7.45		989.7		0.2	
PFM000069	2003-11-13 06:30	0.1	2.4	6.90	37.2	0.18			5.59		1,014.8		0.3	
PFM000069	2003-12-16 08:00	0.1	0.5	6.93	40.8	0.19			3.90		1,003.2		0.4	
PFM000069	2004-01-13 07:00	0.1	-0.1	6.85	40.0	0.20			1.31		979.3		0.4	
PFM000069	2004-02-09 08:00	0.1	-0.1	6.86	40.0	0.21			1.36		998.5		0.3	Snödjup 0/Isjocklek 0.10
PFM000070	2003-03-18 07:30	0.1	2.8	7.14	21.9	0.11			6.57		1,018.0		0.2	
PFM000070	2003-04-22 07:00	0.1	11.1	7.68	28.2	0.14			10.09		1,010.3		0.2	
PFM000070	2003-05-06 07:30	0.1	9.9	7.82	25.3	0.12			10.21		1,003.3		0.3	
PFM000070	2003-05-20 07:30	0.1	13.4	7.25	26.3	0.13			7.71		1,005.0		0.2	
PFM000070	2003-06-03 07:00	0.1	14.5	7.14	19.3	0.09			5.21		1,015.9		0.2	
PFM000070	2003-06-17 07:00	0.1	12.6	6.95	25.6	0.12			6.61		1,018.9		0.1	
PFM000070	2003-07-08 07:30	0.1	13.7	6.84	33.5	0.16			4.53				0.1	
PFM000070	2003-09-01 06:30	0.1	9.3	6.94	24.1	0.12			6.55		1,013.2		0.1	
PFM000070	2003-09-30 07:00	0.1	5.6	6.71	23.4	0.11			5.95		1,012.3		0.1	
PFM000070	2003-10-28 07:00	0.1	0.8	6.64	26.9	0.13			6.53		992.2		0.1	
PFM000070	2003-11-13 06:30	0.1	1.9	7.48	22.1	0.10			11.78		1,016.0		0.3	Dimma
PFM000070	2003-11-26 07:00	0.1	1.4	7.55	22.6	0.11			12.00		1,001.0		0.3	
PFM000070	2003-12-16 08:00	0.1	0.2	7.61	24.5	0.12			12.42		998.5		0.3	
PFM000070	2004-01-14 07:00	0.1	0.2	7.55	20.0	0.08			9.99		976.9		0.3	Icedepth 0.02. Öppet i mittfåran
PFM000070	2004-02-09 08:00	0.1	0.2	7.22	30.0	0.13			7.64				0.3	Snödjup 0/Isjocklek0-0.001
PFM000071	2003-03-18 07:30	0.1	0.6	7.20	43.0	0.21			7.50		1,017.0		0.3	
PFM000071	2003-03-30 19:45	0.1	3.4	7.24	42.0	0.20			8.49		979.7		0.2	
PFM000071	2003-04-22 07:00	0.1	6.2	7.59	41.5	0.20			11.45		1,010.1		0.1	
PFM000071	2003-05-06 07:30	0.1	7.6	7.42	32.9	0.16			10.93		1,002.5		0.2	
PFM000071	2003-05-20 07:30	0.1	8.7	7.47	41.0	0.20			9.29		1,001.4		0.1	
PFM000071	2003-06-03 07:00	0.1	10.0	7.50	37.8	0.18			6.00		1,016.0		0.1	
PFM000071	2003-06-17 07:00	0.1	9.5	7.35	46.9	0.23			5.80		1,012.2		0.1	
PFM000071	2003-09-30 07:00	0.1	4.9	6.81	40.1	0.19			7.08		1,011.1		0.1	
PFM000071	2003-10-27 07:00	0.1	0.1	7.27	28.8	0.14			7.27		1,000.0		0.1	
PFM000071	2003-11-13 06:30	0.1	2.6	7.27	37.0	0.18			8.13		1,015.7		0.2	Dimma
PFM000071	2003-11-24 08:00	0.1	2.0	7.28	37.2	0.18			9.76		993.6		0.2	
PFM000071	2003-12-16 08:00	0.1	0.6	7.39	36.6	0.17			10.22		1,000.8		0.3	

Idcode	Date and time	Planned water depth	Water temperature	pH	Conductivity	Salinity	Turbidity*	Light	Oxygen	Chloro- phyl**	Atm pres- sure	Light penetration	Actual water depth	Comment
		m	°C		mS/m	ppt	NTU	umolE/m ²	mg/l	ug/l	hPa	m	m	
PFM000071	2004-01-14 07:00	0.1	0.8	7.44	40.0	0.17			8.49		977.3		0.3	Ice depth 0.05
PFM000071	2004-02-11 07:00	0.1	-0.1	7.26	40.0	0.18			7.58		1,012.8		0.2	Snödjup 0.05/Isjocklek 0.03-0.1
PFM000072	2003-03-18 07:30	0.1	0.4	7.09	43.5	0.21			8.79		1,011.0		1.0	
PFM000072	2003-04-23 07:00	0.1	4.6	7.19	38.6	0.19			5.15		1,023.1		0.9	
PFM000072	2003-05-05 07:30	0.1	8.6	7.11	29.6	0.14			5.95		1,007.4		1.0	
PFM000072	2003-05-20 07:30	0.1	12.2	7.05	42.4	0.20			3.21		1,002.8		1.1	
PFM000072	2003-06-03 07:00	0.1	13.1	7.08	35.9	0.17			3.40		1,026.1		1.1	
PFM000072	2003-06-17 07:00	0.1	10.9	7.18	42.4	0.20			5.56		1,016.8		0.9	
PFM000072	2003-07-08 07:30	0.1	15.4	7.18	51.7	0.25			1.25		1,009.7		0.1	
PFM000072	2003-08-05 07:00	0.1	16.4	7.03	70.4	0.35			1.02		1,034.2		0.5	
PFM000072	2003-09-01 06:30	0.1	9.6	7.00	56.1	0.27			4.02		1,013.4		0.9	
PFM000072	2003-09-16 07:00	0.1	11.9	6.76	60.9	0.30			0.16		1,007.8		0.7	
PFM000072	2003-09-30 07:00	0.1	7.8	6.81	63.8	0.31			5.16		1,012.7		0.8	
PFM000072	2003-10-29 07:00	0.1	4.0	6.73	72.8	0.35			0.09		996.2		0.7	
PFM000072	2003-11-12 07:00	0.1	4.5	6.65	91.8	0.45			0.23		1,016.1		0.8	
PFM000072	2003-11-25 07:00	0.1	3.2	6.70	103.1	0.51			0.25		1,000.8		0.9	
PFM000072	2003-12-16 08:00	0.1	1.4	6.85	75.8	0.37			1.24		1,003.3		0.8	
PFM000072	2004-01-14 07:00	0.1	-0.1	6.95	50.0	0.23			1.41		978.7		0.8	Ice depth 0.15
PFM000072	2004-02-10 07:00	0.1	-0.1	6.97	50.0	0.21			0.67		1,000.0		0.7	
PFM000073	2003-03-18 07:30	0.1	0.0	7.42	63.6	0.31			8.11		1,012.9		0.1	
PFM000073	2003-04-23 07:00	0.1	4.7	7.94	47.6	0.23			12.67		1,013.1		0.3	
PFM000073	2003-05-05 07:30	0.1	9.7	7.75	68.6	0.33			11.11		1,008.5		0.3	
PFM000073	2003-05-20 07:30	0.1	14.0	7.92	72.4	0.35			10.24		1,001.7		0.2	
PFM000073	2003-11-12 07:00	0.1	2.5	7.68	84.7	0.41			8.33		1,016.4		0.2	
PFM000073	2003-11-25 07:00	0.1	1.9	7.64	82.2	0.40			10.48		1,000.7		0.3	
PFM000073	2003-12-16 08:00	0.1	0.3	7.74	81.0	0.39			11.46		1,003.3		0.3	
PFM000073	2004-01-14 07:00	0.1	0.1	7.63	80.0	0.36			10.31		979.2		0.2	Ice depth 0.10
PFM000073	2004-02-10 07:00	0.1	-0.1	7.65	80.0	0.36			9.60		1,000.6		0.3	Snödjup 0.01/Isjocklek 0.15
PFM000074	2003-03-18 07:30	0.5	1.7	6.85	41.5	0.20	1.3	95.7	1.00	7.9	1,012.6	0.9	0.9	PAR ovan ytan (i luft)=730.6
PFM000074	2003-04-21 16:00	0.5	8.8	7.11	37.3	0.18	-2.1	43.8	6.73	5.5	1,018.4	1.0	1.0	0-värde ljusmätning = 84.7 µmol/m ² -sek
PFM000074	2003-05-06 07:30	0.5	9.8	7.41	30.7	0.15	-1.6	44.3	7.55	7.0	995.8	1.1	1.1	0-värde ljusmätning = 100.9 µmol/m ² -sek
PFM000074	2003-05-19 07:30	0.5	14.1	7.26	35.5	0.17	-2.1	16.7	6.93	6.7	996.8	1.0	1.0	0-värde ljusmätning = 35.8 µmol/m ² -sek
PFM000074	2003-06-02 07:30	0.5	17.2	7.33	32.1	0.15	-2.1	42.6	9.93	6.9	1,010.3	0.9	0.9	0-värde ljusmätning = 76 µmol/m ² -sek
PFM000074	2003-06-16 07:00	0.5	18.2	7.57	36.5	0.18	-1.1	116	13.86	7.8	1,008.5	0.9	0.9	0-värde ljusmätning = 158.8 µmol/m ² -sek
PFM000074	2003-07-07 08:00	0.5	21.3	7.64	34.8	0.17	-1.0	23.5	15.72	7.0	1,010.9	0.9	0.9	0-värde ljusmätning = 34.6 µmol/m ² -sek
PFM000074	2003-08-04 08:00	0.5	23.5	8.03	31.9	0.15	-1.7	86.1	13.72	6.9	1,016.8	0.7	0.7	0-värde ljusmätning = 93.4 µmol/m ² -sek

Icode	Date and time	Planned water depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity* NTU	Light umolE/m ²	Oxygen mg/l	Chloro- phyll** ug/l	Atm pres- sure hPa	Light penetration m	Actual water depth m	Comment
PFM000074	2003-09-01 07:30	0.5	15.1	8.36	26.2	0.13	-0.8	84.3	13.19	6.3	1,011.0	0.7	0.7	0-värde ljusmätning = 151.3 µmol/m ² -sek
PFM000074	2003-09-15 08:00	0.5	16.5	8.29	28.8	0.14	-1.0	16.1	12.79	6.1	1,008.4	0.8	0.8	0-värde ljusmätning = 27.9 µmol/m ² -sek
PFM000074	2003-09-30 07:00	0.5	7.7	7.68	30.2	0.14	-1.6	249.7	10.02	4.6	1,014.5	0.5	0.5	0-värde ljusmätning = 679.3 µmol/m ² -sek
PFM000074	2003-10-27 07:00	0.5	3.7	7.10	44.2	0.21	2.3		4.26	28.0	995.5	0.7	0.7	
PFM000074	2003-11-13 06:30	0.5	4.7	6.92	42.7	0.21	0.0	5.3	6.13	8.3	1,015.5	0.9	0.9	0-värde ljusmätning = 15.2 µmol/m ² -sek
PFM000074	2003-12-17 08:00	0.5	2.9	6.79	53.4	0.26	-1.0	10.2	1.22	11.5	988.5	1.0	1.0	0-värde ljusmätning = 17.2 µmol/m ² -sek
PFM000074	2004-01-14 07:00	0.5	0.6	6.99	40.0	0.21	-0.6		0.44	13.7	978.7	0.9	0.9	Icedepth 0.15
PFM000074	2004-02-10 07:00	0.5	0.2	7.13	40.0	0.19	-0.6		2.38	12.7	995.6	0.9	0.9	Snödjup 0.01/istjocklek 0.3
PFM000082	2003-03-17 08:00	0.5	1.4	8.03	599.4	3.25	-1.3	106.4	14.18	1.8	1,015.4	6.4	6.4	PAR ovan ytan (i luft) ~930.1. 0-värde ljusmätning = 108.3 µmol/m ² -sek
PFM000082	2003-03-17 08:00	1	1.1	7.98	603.8	3.27	-1.1	97.2	14.21	4.0	1,015.5	6.4	6.4	PAR ovan ytan (i luft) ~930.1. 0-värde ljusmätning = 108.3 µmol/m ² -sek
PFM000082	2003-03-17 08:00	2	1.0	8.05	608.0	3.30	-1.3	75.4	14.18	4.6	1,015.8	6.4	6.4	PAR ovan ytan (i luft) ~930.1. 0-värde ljusmätning = 108.3 µmol/m ² -sek
PFM000082	2003-03-17 08:00	3	0.9	8.07	610.5	3.31	-1.3	46.2	14.32	3.2	1,016.2	6.4	6.4	PAR ovan ytan (i luft) ~930.1. 0-värde ljusmätning = 108.3 µmol/m ² -sek
PFM000082	2003-03-17 08:00	4	0.9	8.01	609.8	3.31	-1.1	28.1	14.28	3.6	1,016.4	6.4	6.4	ljusmätning = 108.3 µmol/m ² -sek
PFM000082	2003-03-17 08:00	5	0.8	8.04	612.9	3.33	-0.9	21.3	14.11	2.5	1,015.5	6.4	6.4	PAR ovan ytan (i luft) ~930.1. 0-värde ljusmätning = 108.3 µmol/m ² -sek
PFM000082	2003-03-17 08:00	6	1.1	7.95	612.3	3.32	-0.9	16.3	12.36	2.5	1,015.7	6.4	6.4	ljusmätning = 108.3 µmol/m ² -sek
PFM000082	2004-02-11 07:00	0.5	0.0	7.86	920.0	4.99	0.9		13.27	2.4	1,000.6	6.7	6.7	Sikt djup ej mått. Snödjup: issörja 0-0.05
PFM000082	2004-02-11 07:00	1	0.1	7.86	920.0	4.99	0.9		13.25	2.4	1,001.2	6.7	6.7	Sikt djup ej mått. Snödjup: issörja 0-0.05
PFM000082	2004-02-11 07:00	2	0.1	7.86	920.0	4.98	1.1		13.22	2.6	1,001.9	6.7	6.7	Sikt djup ej mått. Snödjup: issörja 0-0.05
PFM000082	2004-02-11 07:00	3	0.2	7.86	920.0	4.98	1.1		13.20	2.3	1,002.9	6.7	6.7	Sikt djup ej mått. Snödjup: issörja 0-0.05
PFM000082	2004-02-11 07:00	4	0.2	7.86	920.0	4.98	1.0		13.20	2.3	1,003.7	6.7	6.7	Sikt djup ej mått. Snödjup: issörja 0-0.05
PFM000082	2004-02-11 07:00	5	0.2	7.87	920.0	4.98	1.1		13.20	3.3	1,004.4	6.7	6.7	Sikt djup ej mått. Snödjup: issörja 0-0.05
PFM000082	2004-02-11 07:00	6	0.2	7.86	920.0	4.98	1.0		13.18	2.7	1,004.9	6.7	6.7	Sikt djup ej mått. Snödjup: issörja 0-0.05
PFM000082	2004-02-11 07:00	6.5	0.6	7.81	910.0	4.99	0.2		12.80	2.1	1,005.6	6.7	6.7	Sikt djup ej mått. Snödjup: issörja 0-0.05
PFM000084	2003-03-17 08:00	0.5	0.5	7.28	47.9	0.23	6.2	104.1	10.34	21.6	1,017.8	0.9	3.2	PAR ovan ytan (i luft) ~820.0. 0-värde ljusmätning = 67.1 µmol/m ² -sek
PFM000084	2003-03-17 08:00	1	1.0	7.33	527.1	2.83	1.1	4.4	12.13	11.7	1,018.0	0.9	3.2	PAR ovan ytan (i luft) ~820.0. 0-värde ljusmätning = 67.1 µmol/m ² -sek
PFM000084	2003-03-17 08:00	2	0.6	7.60	610.0	3.31	0.5	3.6	12.32	3.1	1,017.8	0.9	3.2	PAR ovan ytan (i luft) ~820.0. 0-värde ljusmätning = 67.1 µmol/m ² -sek

Icode	Date and time	Planned water depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity* NTU	Light umolE/m ²	Oxygen mg/l	Chloro- phyll** ug/l	Atm pres- sure hPa	Light penetration m	Actual water depth m	Comment
PFM000084	2003-03-17 08:00	2.5	0.6	7.62	613.6	3.33	0.6	2.9	12.32	1.3	1,017.8	0.9	3.2	PAR ovan ytan (i luft)~820.0.
PFM000087	2003-03-17 08:00	0.5	5.4	7.01	42.1	0.20	4.9	3.2	1.73	7.3	1,011.8	1.7	2.1	0-värde ljusmätning = 67.1 µmol/m ² ·sek
PFM000087	2003-03-17 08:00	1	4.9	7.01	52.6	0.25	0.1	-0.2	0.09	14.4	1,012.9	1.7	2.1	PAR ovan ytan (i luft)~15.5.
PFM000087	2003-03-17 08:00	1.5	4.5	6.99	54.6	0.26	0.2	-0.2	-0.05	13.5	1,012.9	1.7	2.1	0-värde ljusmätning = 5.1 µmol/m ² ·sek
PFM000087	2003-04-21 16:00	0.5	11.7	7.73	38.6	0.19	-2.6	113.5	12.97	5.6	1,018.8	2.0	2.0	PAR ovan ytan (i luft)~15.5.
PFM000087	2003-04-21 16:00	1	9.8	7.76	38.4	0.18	-2.3	28.6	13.32	5.6	1,019.5	2.0	2.0	0-värde ljusmätning = 203.6 µmol/m ² ·sek
PFM000087	2003-04-21 16:00	1.5	8.3	7.78	39.7	0.19	-1.9	36.5	13.73	5.5	1,020.0	2.0	2.0	0-värde ljusmätning = 203.6 µmol/m ² ·sek
PFM000087	2003-05-06 07:30	0.5	9.9	7.88	34.2	0.17	-1.6	41.7	11.26	6.0	994.4	2.1	2.1	0-värde ljusmätning = 84.6 µmol/m ² ·sek
PFM000087	2003-05-06 07:30	1	9.9	7.85	34.2	0.17	-1.8	22	11.20	6.4	994.3	2.1	2.1	0-värde ljusmätning = 84.6 µmol/m ² ·sek
PFM000087	2003-05-06 07:30	1.5	9.3	7.79	34.6	0.17	-1.5	9.5	10.76	6.6	994.7	2.1	2.1	0-värde ljusmätning = 84.6 µmol/m ² ·sek
PFM000087	2003-05-19 07:30	0.5	16.1	7.90	36.7	0.18	-2.2	15.5	12.07	6.5	996.8	1.9	1.9	0-värde ljusmätning = 31.6 µmol/m ² ·sek
PFM000087	2003-05-19 07:30	1	14.8	7.76	37.0	0.18	-1.8	6.1	11.59	7.5	997.0	1.9	1.9	0-värde ljusmätning = 31.6 µmol/m ² ·sek
PFM000087	2003-05-19 07:30	1.5	13.2	7.61	38.2	0.18	-1.2	3	8.98	11.3	997.8	1.9	1.9	0-värde ljusmätning = 31.6 µmol/m ² ·sek
PFM000087	2003-06-02 07:30	0.5	19.2	8.24	29.9	0.14	-2.1	49.8	14.62	6.5	1,010.4	1.9	1.9	0-värde ljusmätning = 68.8 µmol/m ² ·sek
PFM000087	2003-06-02 07:30	1	17.4	8.03	30.3	0.15	-1.9	15.9	13.91	6.3	1,010.5	1.9	1.9	0-värde ljusmätning = 68.8 µmol/m ² ·sek
PFM000087	2003-06-02 07:30	1.5	16.6	7.59	31.8	0.15	-1.7	7.5	10.04	7.2	1,011.0	1.9	1.9	0-värde ljusmätning = 68.8 µmol/m ² ·sek
PFM000087	2003-06-16 07:00	0.5	19.2	8.52	30.9	0.15	-1.1	68.2	14.30	5.9	1,007.4	1.8	1.8	0-värde ljusmätning = 99.3 µmol/m ² ·sek
PFM000087	2003-06-16 07:00	1	18.6	8.12	34.3	0.17	-0.9	34.2	13.48	5.8	1,007.6	1.8	1.8	0-värde ljusmätning = 99.3 µmol/m ² ·sek
PFM000087	2003-06-16 07:00	1.5	17.4	7.86	33.6	0.16	-1.1	17.9	12.13	6.7	1,007.7	1.8	1.8	0-värde ljusmätning = 99.3 µmol/m ² ·sek
PFM000087	2003-07-07 08:00	0.5	22.9	8.78	24.9	0.12	-0.9	21.2	13.38	5.4	1,010.2	1.9	1.9	0-värde ljusmätning = 34.9 µmol/m ² ·sek
PFM000087	2003-07-07 08:00	1	20.8	8.38	26.1	0.12	-1.3	10.7	12.38	4.8	1,010.4	1.9	1.9	0-värde ljusmätning = 34.9 µmol/m ² ·sek
PFM000087	2003-07-07 08:00	1.5	19.3	7.37	33.7	0.16	0.0	5.4	4.97	6.6	1,010.5	1.9	1.9	0-värde ljusmätning = 34.9 µmol/m ² ·sek
PFM000087	2003-08-04 08:00	0.5	24.4	8.02	30.4	0.14	-1.2	209.1	9.30	6.5	1,019.4	1.7	1.7	0-värde ljusmätning = 342.6 µmol/m ² ·sek
PFM000087	2003-08-04 08:00	1	22.8	7.60	31.5	0.15	-1.0	117.9	7.48	6.2	1,019.7	1.7	1.7	0-värde ljusmätning = 342.6 µmol/m ² ·sek
PFM000087	2003-09-01 07:30	0.5	14.4	8.42	28.3	0.14	-1.1	38.1	11.67	5.1	1,010.5	1.9	1.9	0-värde ljusmätning = 62.7 µmol/m ² ·sek
PFM000087	2003-09-01 07:30	1	14.4	8.42	28.3	0.14	-0.8	34.9	11.75	4.8	1,010.7	1.9	1.9	0-värde ljusmätning = 62.7 µmol/m ² ·sek
PFM000087	2003-09-01 07:30	1.5	14.3	8.27	28.4	0.14	-0.9	25.5	11.71	4.4	1,010.9	1.9	1.9	0-värde ljusmätning = 62.7 µmol/m ² ·sek
PFM000087	2003-09-16 07:00	0.5	16.6	8.29	28.2	0.13	0.0	414.6	10.81	3.9	1,012.9	1.8	1.8	0-värde ljusmätning = 760.6 µmol/m ² ·sek
PFM000087	2003-09-16 07:00	1	16.2	8.27	28.5	0.14	-1.1	266.1	10.93	4.4	1012.8	1.8	1.8	0-värde ljusmätning = 760.6 µmol/m ² ·sek
PFM000087	2003-09-16 07:00	1.5	15.6	8.22	28.6	0.14	-0.7	160.6	10.67	4.1	1,012.7	1.8	1.8	0-värde ljusmätning = 760.6 µmol/m ² ·sek
PFM000087	2003-09-30 07:00	0.5	9.2	7.97	30.6	0.15	-1.6	26.8	10.63	2.6	1008.8	1.9	1.9	0-värde ljusmätning = 31.3 µmol/m ² ·sek
PFM000087	2003-09-30 07:00	1	8.7	7.96	30.8	0.15	-1.7	17.6	10.49	3.4	1,009.1	1.9	1.9	0-värde ljusmätning = 31.3 µmol/m ² ·sek

Icode	Date and time	Planned water depth	Water temperature	pH	Conductivity	Salinity	Turbidity*	Light	Oxygen	Chloro- phyll**	Atm pres- sure	Light penetration	Actual water depth	Comment
PFM000087	2003-09-30 07:00	1.5	8.5	7.99	30.7	0.15	0.2	11.5	10.68	1.5	1,009.3	1.9	1.9	0-värde ljusmätning = 31.3 µmol/m ² ·sek
PFM000087	2003-10-27 07:00	0.5	4.0	8.35	33.0	0.16	-1.3		15.26	4.0	1,003.2	1.8	1.8	
PFM000087	2003-10-27 07:00	1	4.1	8.29	33.5	0.16	-1.2		15.06	3.5	1,003.1	1.8	1.8	
PFM000087	2003-10-27 07:00	1.5	4.2	8.15	34.0	0.16	-1.1		13.99	3.5	1,003.2	1.8	1.8	
PFM000087	2003-11-12 07:00	0.5	3.4	7.41	37.1	0.18	-1.2		9.58	7.5	1,017.4	2.0	2.0	Dimma
PFM000087	2003-11-12 07:00	1	3.5	7.40	37.3	0.18	-1.2		9.41	8.1	1,017.5	2.0	2.0	Dimma
PFM000087	2003-11-12 07:00	1.5	3.9	7.35	39.7	0.19	-1.0		9.20	7.1	1,017.8	2.0	2.0	Dimma
PFM000087	2003-12-16 08:00	0.5	1.0	7.32	40.6	0.19	-1.3	3.4	7.89	9.9	1,001.4	2.1	2.1	0-värde ljusmätning = 1.6 µmol/m ² ·sek
PFM000087	2003-12-16 08:00	1	1.4	7.28	42.5	0.20	-1.3	1.2	6.26	8.3	1,002.0	2.1	2.1	0-värde ljusmätning = 1.6 µmol/m ² ·sek
PFM000087	2003-12-16 08:00	1.5	2.5	7.27	43.5	0.21	-1.0	0.2	2.34	8.2	1,002.2	2.1	2.1	0-värde ljusmätning = 1.6 µmol/m ² ·sek
PFM000087	2004-01-12 08:00	0.5	0.6	7.11	40.0	0.19	-0.6		4.65	12.9	975.8	1.9	1.9	
PFM000087	2004-01-12 08:00	1	1.7	7.10	50.0	0.23	0.4		1.46	15.8	975.4	1.9	1.9	
PFM000087	2004-01-12 08:00	1.5	3.0	7.16	50.0	0.25	-0.2		0.67	15.7	975.8	1.9	1.9	
PFM000087	2004-02-10 07:00	0.5	0.8	7.22	40.0	0.21	0.7		5.62	11.0	992.4	1.9	1.9	Snödjup 0.01/istjocklek 0.35
PFM000087	2004-02-10 07:00	1	2.4	7.10	60.0	0.28	0.2		0.80	17.0	993.3	1.9	1.9	Snödjup 0.01/istjocklek 0.35
PFM000087	2004-02-10 07:00	1.5	3.2	7.09	60.0	0.28	-0.1		0.12	16.6	994.5	1.9	1.9	Snödjup 0.01/istjocklek 0.35
PFM000097	2003-03-18 07:30	0.5	8.0	6.92	93.5	0.46	12.6	50.8	1.04	10.9	1,013.6	0.7	0.7	PAR ovan ytan (i luft)=536.4
PFM000097	2003-04-23 07:00	0.5	9.4	8.27	43.0	0.21	2.3	77.9	11.17	7.5	1,007.1	1.0	1.0	0-värde ljusmätning = 154.4 µmol/m ² ·sek
PFM000097	2003-05-06 07:30	0.5	11.3	8.53	35.2	0.17	-0.7	82.5	12.49	4.2	996.8	1.2	1.2	0-värde ljusmätning = 145.3 µmol/m ² ·sek
PFM000097	2003-05-20 07:30	0.5	17.1	8.63	35.9	0.17	2.0	961.5	13.66	2.8	1,006.3	0.7	0.7	0-värde ljusmätning = 694.3 µmol/m ² ·sek
PFM000097	2003-06-03 07:00	0.5	19.3	9.03	28.6	0.14	-2.3	743.3	14.44	1.7	1,028.1	0.9	0.9	0-värde ljusmätning = 1117.4 µmol/m ² ·sek
PFM000097	2003-06-17 07:00	0.5	20.3	9.47	32.8	0.16	-1.3	703.7	14.92	3.6	1,026.2	0.8	0.8	0-värde ljusmätning = 1267.3 µmol/m ² ·sek
PFM000097	2003-07-08 07:30	0.5	22.1	9.51	33.1	0.16	0.1	882.8	13.25	2.7	1,020.8	0.7	0.7	0-värde ljusmätning = 1180.6 µmol/m ² ·sek
PFM000097	2003-08-05 07:00	0.5	21.8	9.48	43.1	0.21	-0.8	453.8	13.15	4.0	1,022.4	0.7	0.7	0-värde ljusmätning = 404.6 µmol/m ² ·sek
PFM000097	2003-09-01 06:30	0.5	14.3	9.49	42.0	0.20	-0.9	224.2	13.05	2.6	1,016.6	0.7	0.7	0-värde ljusmätning = 323.2 µmol/m ² ·sek
PFM000097	2003-09-16 07:00	0.5	16.1	9.17	49.5	0.24	-0.9	795.6	11.64	3.4	1,013.5	0.7	0.7	0-värde ljusmätning = 1055.9 µmol/m ² ·sek
PFM000097	2003-09-30 07:00	0.5	9.2	9.01	60.2	0.29	-0.1	83.5	14.33	2.5	1,011.0	0.5	0.5	0-värde ljusmätning = 99.3 µmol/m ² ·sek
PFM000097	2003-11-13 06:30	0.5	4.3	7.57	96.5	0.47	1.3	30	11.93	4.4	1,015.9	0.8	0.8	Dimma
PFM000097	2003-12-17 08:00	0.5	2.8	7.20	82.2	0.40	-1.2	0.1	1.84	11.1	989.0	0.8	0.8	0-värde ljusmätning = 3.6 µmol/m ² ·sek
PFM000097	2004-01-13 07:00	0.5	3.4	7.32	450.0	2.37	3.6		0.80	16.6	979.0	0.7	0.7	Ice depth 0.05
PFM000097	2004-02-11 07:00	0.5	3.0	7.22	290.0	1.52	0.9		0.65	13.9	1,013.9	0.7	0.7	Snödjup 0.05/istjocklek 0.2
PFM000107	2003-03-17 08:00	0.5	6.8	7.07	49.4	0.24	-1.1	61.7	1.34	6.3	1,011.8	1.5	1.5	PAR ovan ytan (i luft) ~206.5. 0-värde ljusmätning = 75.9 µmol/m ² ·sek
PFM000107	2003-03-17 08:00	1	6.5	7.13	55.3	0.27	-0.2	16.1	0.38	7.1	1,012.4	1.5	1.5	PAR ovan ytan (i luft) ~206.5. 0-värde ljusmätning = 75.9 µmol/m ² ·sek
PFM000107	2003-04-22 07:00	0.5	13.0	8.61	41.2	0.20	-1.9	343.8	12.43	4.1	1,011.9	1.6	1.6	0-värde ljusmätning = 605.7 µmol/m ² ·sek

Icode	Date and time	Planned water depth	Water temperature	pH	Conductivity	Salinity	Turbidity*	Light	Oxygen	Chloro- phyll**	Atm pres- sure	Light penetration	Actual water depth	Comment
PFM000107	2003-04-22 07:00	1	13.0	8.60	41.2	0.20	-1.9	208	12.43	4.7	1,012.1	1.6	1.6	0-värde ljusmätning = 605.7 µmol/m ² -sek
PFM000107	2003-05-04 16:00	0.5	6.8	8.24	35.3	0.17	-1.1	22.4	11.98	5.8	1,006.6	1.8	1.8	0-värde ljusmätning = 55.8 µmol/m ² -sek
PFM000107	2003-05-04 16:00	1	6.8	8.25	35.3	0.17	-1.2	12.4	11.96	5.4	1,006.8	1.8	1.8	0-värde ljusmätning = 55.8 µmol/m ² -sek
PFM000107	2003-05-19 07:30	0.5	17.1	8.53	36.0	0.17	-1.6	122	10.99	3.5	1,001.5	1.7	1.7	0-värde ljusmätning = 278.5 µmol/m ² -sek
PFM000107	2003-05-19 07:30	1	17.1	8.53	35.9	0.17	-1.5	77.8	11.06	3.2	1,001.9	1.7	1.7	0-värde ljusmätning = 278.5 µmol/m ² -sek
PFM000107	2003-06-02 07:30	0.5	19.3	8.76	30.4	0.15	-1.3	393.4	11.05	2.7	1,012.3	1.8	1.8	0-värde ljusmätning = 146.3 µmol/m ² -sek
PFM000107	2003-06-02 07:30	1	19.3	8.74	30.4	0.15	-1.4	162.5	11.04	3.0	1,013.1	1.8	1.8	0-värde ljusmätning = 146.3 µmol/m ² -sek
PFM000107	2003-06-16 07:00	0.5	18.9	8.85	35.1	0.17	-0.4	265.3	11.52	4.2	1,009.9	1.8	1.8	0-värde ljusmätning = 337.5 µmol/m ² -sek
PFM000107	2003-06-16 07:00	1	18.9	8.84	35.1	0.17	-0.2	173.1	11.45	4.2	1,010.7	1.8	1.8	0-värde ljusmätning = 337.5 µmol/m ² -sek
PFM000107	2003-07-07 08:00	0.5	22.6	9.04	32.9	0.16	1.2	186.5	11.51	4.3	1,016.5	1.8	1.8	0-värde ljusmätning = 629.4 µmol/m ² -sek
PFM000107	2003-07-07 08:00	1	22.6	9.04	32.8	0.16	0.7	157.8	11.52	3.2	1,017.2	1.8	1.8	0-värde ljusmätning = 629.4 µmol/m ² -sek
PFM000107	2003-08-04 08:00	0.5	24.1	9.32	33.1	0.16	1.8	102.9	11.14	5.5	1,017.3	1.5	1.5	0-värde ljusmätning = 151.7 µmol/m ² -sek
PFM000107	2003-08-04 08:00	1	24.1	9.32	33.1	0.16	1.6	56.3	11.14	4.3	1,017.7	1.5	1.5	0-värde ljusmätning = 151.7 µmol/m ² -sek
PFM000107	2003-09-01 07:30	0.5	14.1	9.45	30.1	0.14	0.9	168.8	11.36	4.0	1,011.1	1.7	1.7	0-värde ljusmätning = 282.4 µmol/m ² -sek
PFM000107	2003-09-01 07:30	1	14.1	9.46	30.1	0.14	0.8	104.4	11.36	3.2	1,011.3	1.7	1.7	0-värde ljusmätning = 282.4 µmol/m ² -sek
PFM000107	2003-09-15 08:00	0.5	16.5	9.23	31.1	0.15	0.4	82.4	11.07	3.3	1,009.4	1.7	1.7	0-värde ljusmätning = 99.3 µmol/m ² -sek
PFM000107	2003-09-15 08:00	1	16.5	9.23	31.1	0.15	0.2	67.3	11.04	3.3	1,009.9	1.7	1.7	0-värde ljusmätning = 99.3 µmol/m ² -sek
PFM000107	2003-09-29 08:00	0.5	9.2	8.31	32.8	0.16	0.3	15	11.17	2.8	1,005.7	1.7	1.7	0-värde ljusmätning = 26.2 µmol/m ² -sek
PFM000107	2003-09-29 08:00	1	9.2	8.30	32.8	0.16	0.3	8.3	11.15	2.9	1,005.9	1.7	1.7	0-värde ljusmätning = 26.2 µmol/m ² -sek
PFM000107	2003-11-12 07:00	0.5	3.5	8.00	34.0	0.16	-0.9	9.6	12.96	4.6	1,017.8	1.9	1.9	Dimma. 0-värde ljusmätning = 27.6 µmol/m ² -sek
PFM000107	2003-11-12 07:00	1	3.5	8.00	34.0	0.16	-0.9	5.4	12.94	4.4	1,017.7	1.9	1.9	Dimma. 0-värde ljusmätning = 27.6 µmol/m ² -sek
PFM000107	2003-11-24 08:00	0.5	1.5	7.45	34.1	0.16	-1.0	32.1	12.93	4.2	994.2	1.7	1.7	0-värde ljusmätning = 70.8 µmol/m ² -sek
PFM000107	2003-11-24 08:00	1	1.5	7.50	34.1	0.16	-1.0	18.5	12.90	4.6	994.6	1.7	1.7	0-värde ljusmätning = 70.8 µmol/m ² -sek
PFM000107	2004-01-13 07:00	0.5	1.9	7.39	30.0	0.17	-0.4		4.37	12.5	978.5	1.7	1.7	Icedepth 0.20
PFM000107	2004-01-13 07:00	1	2.7	7.33	40.0	0.18	-0.2		2.80	11.1	979.8	1.7	1.7	Icedepth 0.20
PFM000107	2004-02-09 08:00	0.5	2.0	7.20	40.0	0.19	-0.4		3.25	14.4	991.8	1.6	1.6	Snödjup 0 /Isfjocklek0.3
PFM000107	2004-02-09 08:00	1	3.0	7.14	40.0	0.20	-0.4		1.11	16.6	991.3	1.6	1.6	Snödjup 0 /Isfjocklek0.3
PFM000117	2003-03-18 07:30	0.5	5.0	7.31	26.9	0.13	-0.9	231.5	0.72	4.5	1,009.8	2.0	2.0	0-värde ljusmätning = 75.9 µmol/m ² -sek
PFM000117	2003-03-18 07:30	1	5.2	7.27	27.8	0.13	-0.5	118.1	0.18	5.3	1,011.0	2.0	2.0	0-värde ljusmätning = 75.9 µmol/m ² -sek
PFM000117	2003-03-18 07:30	1.5	5.5	7.23	29.5	0.14	0.9	58.9	0.11	6.7	1,010.6	2.0	2.0	0-värde ljusmätning = 75.9 µmol/m ² -sek
PFM000117	2003-04-22 07:00	0.5	11.7	8.61	29.2	0.14	-2.0	46.4	13.48	5.6	1,006.3	2.2	2.2	0-värde ljusmätning = 90.4 µmol/m ² -sek
PFM000117	2003-04-22 07:00	1	11.7	8.61	29.3	0.14	-2.0	25.4	13.48	6.0	1,006.9	2.2	2.2	0-värde ljusmätning = 90.4 µmol/m ² -sek
PFM000117	2003-04-22 07:00	1.5	11.7	8.61	29.3	0.14	-2.0	11.9	13.53	5.7	1,007.2	2.2	2.2	0-värde ljusmätning = 90.4 µmol/m ² -sek
PFM000117	2003-05-06 07:30	0.5	9.1	8.37	25.4	0.12	-1.4	229.5	11.86	3.2	1,003.6	2.0	2.0	0-värde ljusmätning = 937.2 µmol/m ² -sek

Icode	Date and time	Planned water depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity* NTU	Light umolE/m ²	Oxygen mg/l	Chloro- phyll** ug/l	Atm pres- sure hPa	Light penetration m	Actual water depth m	Comment
PFM000117	2003-05-06 07:30	1	9.0	8.37	25.5	0.12	-1.6	309.5	11.87	3.6	1,004.8	2.0	2.0	0-värde ljusmätning = 937.2 µmol/m ² -sek
PFM000117	2003-05-06 07:30	1.5	8.9	8.39	25.5	0.12	-1.5	104.6	11.91	4.6	1,005.4	2.0	2.0	0-värde ljusmätning = 937.2 µmol/m ² -sek
PFM000117	2003-05-20 07:30	0.5	16.1	8.43	26.3	0.13	-1.9	403.2	11.26	3.1	1,005.8	2.1	2.1	0-värde ljusmätning = 673.7 µmol/m ² -sek
PFM000117	2003-05-20 07:30	1	16.0	8.44	26.3	0.13	-1.4	460.2	11.19	3.8	1,006.9	2.1	2.1	0-värde ljusmätning = 673.7 µmol/m ² -sek
PFM000117	2003-05-20 07:30	1.5	15.8	8.42	26.3	0.13	-1.7	296	11.16	3.0	1,008.1	2.1	2.1	0-värde ljusmätning = 673.7 µmol/m ² -sek
PFM000117	2003-06-03 07:00	0.5	18.9	8.48	21.5	0.10	-1.9	555.4	10.54	3.0	1,018.2	2.0	2.0	0-värde ljusmätning = 634.1 µmol/m ² -sek
PFM000117	2003-06-03 07:00	1	18.7	8.46	21.5	0.10	-1.8	460	10.51	1.8	1,020.0	2.0	2.0	0-värde ljusmätning = 634.1 µmol/m ² -sek
PFM000117	2003-06-03 07:00	1.5	18.5	8.46	21.5	0.10	-1.9	214.8	10.45	3.0	1,022.1	2.0	2.0	0-värde ljusmätning = 634.1 µmol/m ² -sek
PFM000117	2003-06-17 07:00	0.5	18.0	8.60	23.8	0.12	-0.9	171.9	10.61	2.7	1,012.6	2.1	2.1	0-värde ljusmätning = 855.7 µmol/m ² -sek
PFM000117	2003-06-17 07:00	1	18.0	8.60	23.8	0.12	-1.2	704.9	10.57	2.7	1,012.5	2.1	2.1	0-värde ljusmätning = 855.7 µmol/m ² -sek
PFM000117	2003-06-17 07:00	1.5	18.0	8.60	23.8	0.12	-1.2	122.4	10.58	3.1	1,012.4	2.1	2.1	0-värde ljusmätning = 855.7 µmol/m ² -sek
PFM000117	2003-07-08 07:30	0.5	21.6	8.70	21.6	0.10	-1.0	998.3	10.44	3.2	1,026.2	2.0	2.0	0-värde ljusmätning = 1333.4 µmol/m ² -sek
PFM000117	2003-07-08 07:30	1	21.4	8.70	21.5	0.10	-1.0	601.2	10.44	2.8	1,025.7	2.0	2.0	0-värde ljusmätning = 1333.4 µmol/m ² -sek
PFM000117	2003-07-08 07:30	1.5	20.9	8.71	21.5	0.10	-0.9	334.8	10.62	3.6	1,024.4	2.0	2.0	0-värde ljusmätning = 1333.4 µmol/m ² -sek
PFM000117	2003-08-05 07:00	0.5	22.6	8.79	19.8	0.09	-0.5	252.9	9.47	3.2	1,020.8	2.0	2.0	0-värde ljusmätning = 550 µmol/m ² -sek
PFM000117	2003-08-05 07:00	1	22.6	8.79	19.8	0.09	-0.6	266.9	9.42	4.1	1,021.2	2.0	2.0	0-värde ljusmätning = 550 µmol/m ² -sek
PFM000117	2003-08-05 07:00	1.5	22.6	8.79	19.8	0.09	-0.4	154.7	9.40	4.9	1,021.6	2.0	2.0	0-värde ljusmätning = 550 µmol/m ² -sek
PFM000117	2003-09-01 06:30	0.5	14.7	8.90	18.0	0.09	-0.2	589.3	10.81	2.7	1,021.4	2.0	2.0	0-värde ljusmätning = 1164.2 µmol/m ² -sek
PFM000117	2003-09-01 06:30	1	14.3	8.90	17.9	0.09	0.2	449.8	10.81	3.7	1,022.4	2.0	2.0	0-värde ljusmätning = 1164.2 µmol/m ² -sek
PFM000117	2003-09-01 06:30	1.5	14.2	8.91	18.0	0.09	0.3	521.2	10.92	3.0	1,023.3	2.0	2.0	0-värde ljusmätning = 1164.2 µmol/m ² -sek
PFM000117	2003-09-16 07:00	0.5	15.9	8.75	18.3	0.09	-0.2	86.7	10.12	3.7	1,006.8	2.0	2.0	0-värde ljusmätning = 133.9 µmol/m ² -sek
PFM000117	2003-09-16 07:00	1	15.9	8.75	18.3	0.09	0.1	49.4	10.13	4.1	1,006.8	2.0	2.0	0-värde ljusmätning = 133.9 µmol/m ² -sek
PFM000117	2003-09-16 07:00	1.5	15.9	8.75	18.3	0.09	0.5	28.9	10.14	5.2	1,006.9	2.0	2.0	0-värde ljusmätning = 133.9 µmol/m ² -sek
PFM000117	2003-09-30 07:00	0.5	9.3	8.26	19.2	0.09	-0.9	210.6	10.37	2.5	1,010.0	2.2	2.2	0-värde ljusmätning = 335.1 µmol/m ² -sek
PFM000117	2003-09-30 07:00	1	9.3	8.25	19.2	0.09	0.5	119.5	10.34	2.7	1,012.9	2.2	2.2	0-värde ljusmätning = 335.1 µmol/m ² -sek
PFM000117	2003-09-30 07:00	1.5	9.2	8.24	19.2	0.09	-0.7	77.7	10.36	2.8	1,013.7	2.2	2.2	0-värde ljusmätning = 335.1 µmol/m ² -sek
PFM000117	2003-11-13 06:30	0.5	2.7	7.90	21.8	0.10	-0.9	2.4	12.60	4.5	1,016.5	2.1	2.1	Dimma
PFM000117	2003-11-13 06:30	1	2.7	7.90	21.8	0.10	-1.0	1.4	12.58	3.8	1,016.5	2.1	2.1	Dimma
PFM000117	2003-11-13 06:30	1.5	2.7	7.90	21.8	0.10	-1.0	1	12.56	4.3	1,016.6	2.1	2.1	Dimma
PFM000117	2003-12-16 08:00	0.5	0.6	7.82	24.7	0.12	-1.0	18.3	13.38	7.2	999.7	2.2	2.2	
PFM000117	2003-12-16 08:00	1	0.8	7.80	24.5	0.12	-1.0	9.9	13.15	6.4	1,000.0	2.2	2.2	
PFM000117	2003-12-16 08:00	1.5	1.1	7.74	24.6	0.12	-1.0	5.6	12.59	6.6	1,000.2	2.2	2.2	
PFM000117	2004-01-14 07:00	0.5	1.1	8.05	30.0	0.12	-0.7		10.64	8.2	977.0	2.2	2.2	
PFM000117	2004-01-14 07:00	1	2.0	7.85	30.0	0.13	-0.7		7.65	9.4	977.7	2.2	2.2	
PFM000117	2004-01-14 07:00	1.5	2.9	7.54	30.0	0.15	-0.7		2.52	14.1	978.6	2.2	2.2	
PFM000117	2004-02-11 07:00	0.5	1.5	7.34	30.0	0.13	-0.5		6.54	12.6	1,012.0	2.0	2.0	Snödjup 0.05/istjocklek 0.3

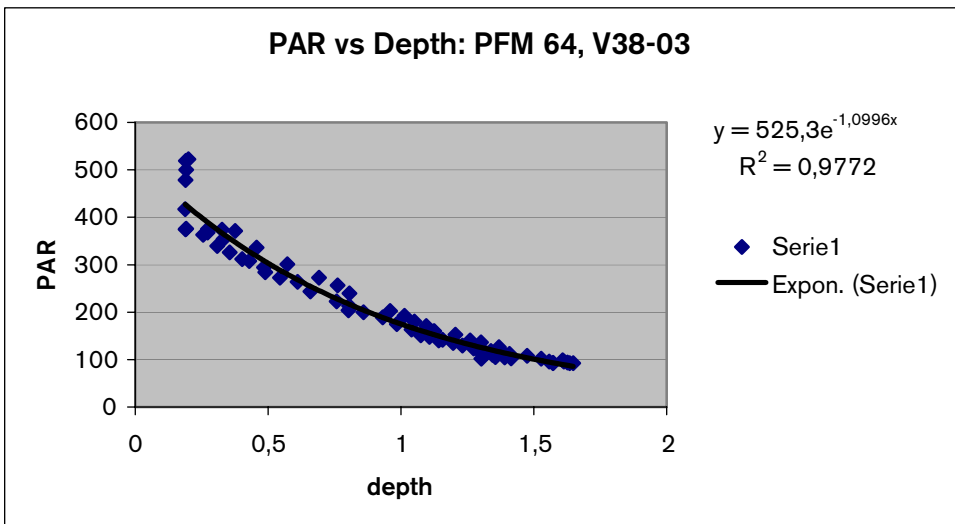
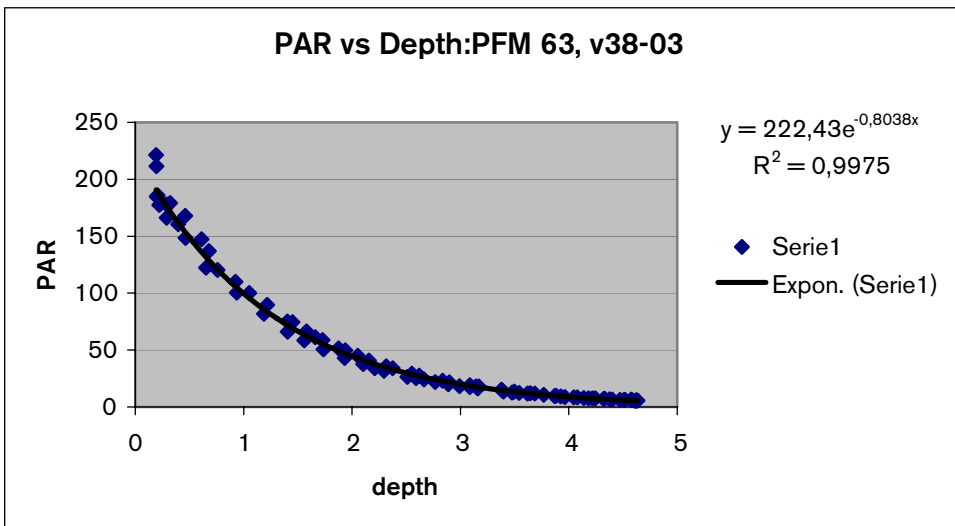
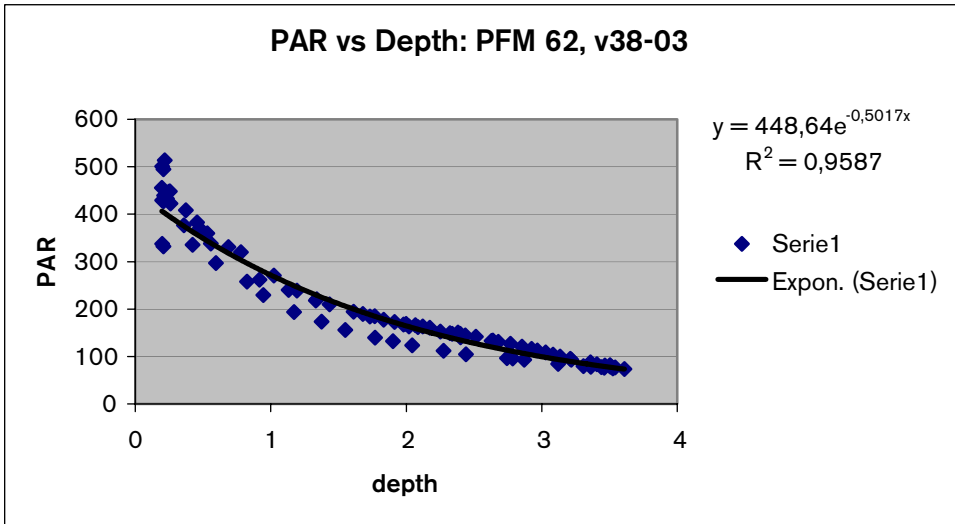
Idcode	Date and time	Planned water depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity* NTU	Light umolE/m ²	Oxygen mg/l	Chloro- phyll** ug/l	Atm pres- sure hPa	Light penetration m	Actual water depth m	Comment
PFM000117	2004-02-11 07:00	1	2.4	7.36	30.0	0.14	-0.4		3.46	11.2	1,013.1	2.0	2.0	Snödjup 0.05/Isjocklek 0.3
PFM000117	2004-02-11 07:00	1.5	3.5	7.35	30.0	0.15	-0.4		0.48	16.5	1,014.9	2.0	2.0	Snödjup 0.05/Isjocklek 0.3
PFM000127	2003-09-01 06:30	0.5	12.9	9.44	32.3	0.16	8.2	97.5	11.53	8.5	1,014.1	1.3	1.7	0-värde ljusmätning = 139.6 µmol/m ² -sek
PFM000127	2003-09-01 06:30	1	12.9	9.44	32.2	0.15	8.4	49.2	11.42	8.0	1,014.4	1.3	1.7	0-värde ljusmätning = 139.6 µmol/m ² -sek
PFM000127	2003-09-16 07:00	0.5	15.7	9.26	34.3	0.16	4.7	429.4	10.42	9.9	1,009.7	1.3	1.6	0-värde ljusmätning = 641.1 µmol/m ² -sek
PFM000127	2003-09-16 07:00	1	15.6	9.27	34.3	0.16	4.3	152.3	10.40	11.9	1,010.5	1.3	1.6	0-värde ljusmätning = 641.1 µmol/m ² -sek
PFM000127	2003-09-30 07:00	0.5	8.0	8.35	35.6	0.17	1.3	320	11.72	4.0	1,014.5	1.6	1.6	0-värde ljusmätning = 574.4 µmol/m ² -sek
PFM000127	2003-09-30 07:00	1	7.6	8.34	35.6	0.17	1.3	201.5	11.75	3.9	1,015.5	1.6	1.6	0-värde ljusmätning = 574.4 µmol/m ² -sek
PFM000127	2003-10-27 07:00	0.5	4.2	8.49	37.6	0.18	-0.6	5.9	13.67	3.4	998.2	1.7	1.7	0-värde ljusmätning = 11.9 µmol/m ² -sek
PFM000127	2003-10-27 07:00	1	4.2	8.50	37.7	0.18	-0.7	2.7	13.83	4.2	997.9	1.7	1.7	0-värde ljusmätning = 11.9 µmol/m ² -sek
PFM000127	2003-11-13 06:30	0.5	2.4	7.92	36.8	0.18	-0.6	74.9	13.13	4.6	1,016.9	1.7	1.7	Dimma. 0-värde ljusmätning = 127.7 µmol/m ² -sek
PFM000127	2003-11-13 06:30	1	2.4	7.90	36.8	0.18	-0.6	49	13.08	5.6	1,017.0	1.7	1.7	Dimma. 0-värde ljusmätning = 127.7 µmol/m ² -sek
PFM000127	2003-11-24 08:00	0.5	1.7	7.74	37.5	0.18	-0.7	19.7	12.94	4.9	994.0	1.6	1.6	0-värde ljusmätning = 44.3 µmol/m ² -sek
PFM000127	2003-11-24 08:00	1	1.7	7.72	37.6	0.18	-0.7	10.8	12.89	4.2	994.1	1.6	1.6	0-värde ljusmätning = 44.3 µmol/m ² -sek
PFM000135	2003-08-05 07:00	0.5	20.7	9.52	34.6	0.17	12.1	826.3	10.31	4.8	1,026.0	0.6	1.2	0-värde ljusmätning = 1,476.3 µmol/m ² -sek
PFM000135	2003-12-16 08:00	0.5	1.7	7.68	42.7	0.20	-1.0	6.6	13.29	6.9	998.5	1.6	1.6	0-värde ljusmätning = 1,476.3 µmol/m ² -sek
PFM000135	2004-01-14 07:00	0.5	1.6	7.21	50.0	0.24	0.1		0.70	11.0	978.4	1.5	1.5	Icedepth 0.2
PFM000135	2004-02-09 08:00	0.5	1.5	6.93	50.0	0.26	3.8		1.73	14.2	979.1	1.5	1.5	Snödjup 0/Isjocklek 0.3
PFM000135	2004-02-09 08:00	1	2.3	6.96	60.0	0.27	3.5		1.22	15.2	984.7	1.5	1.5	Snödjup 0/Isjocklek 0.3

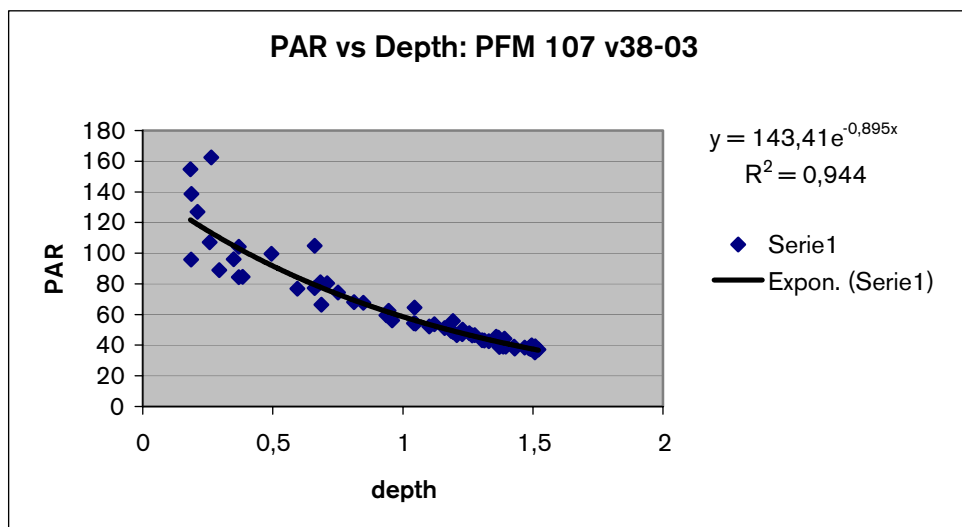
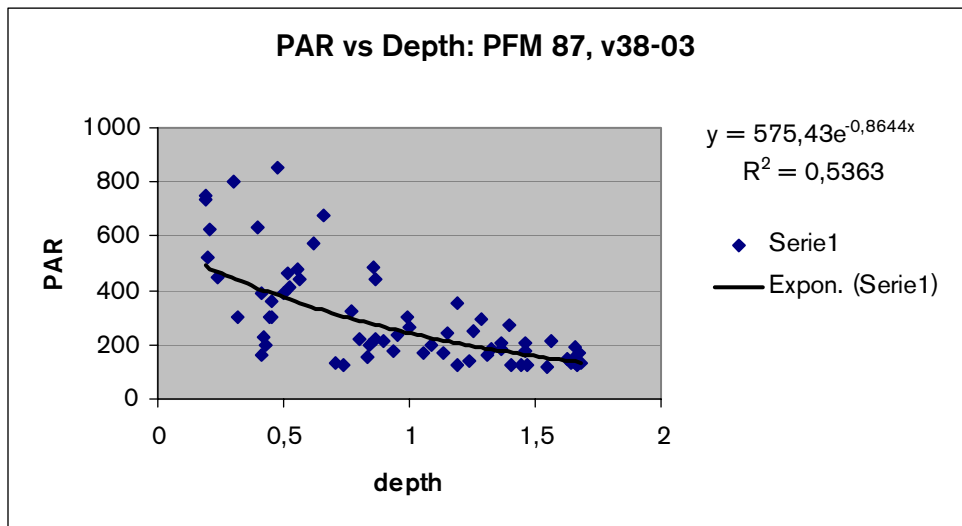
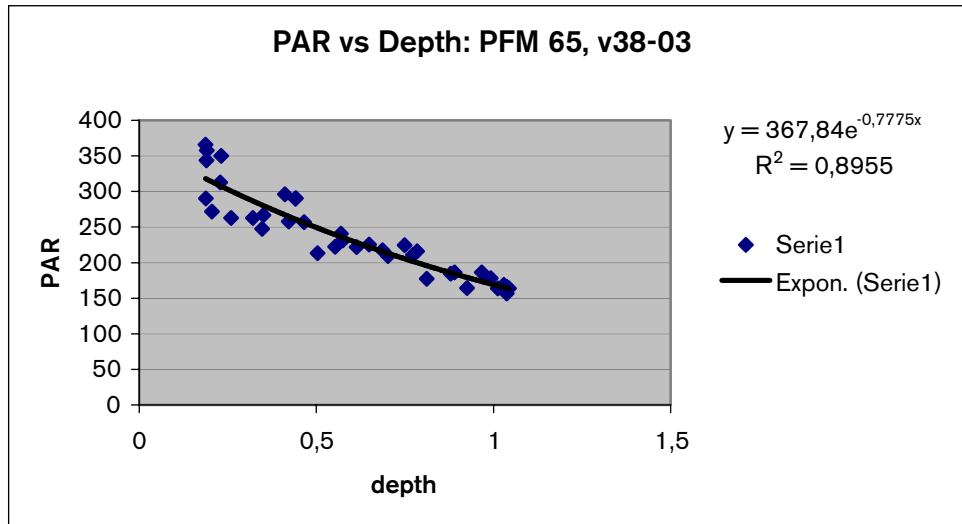
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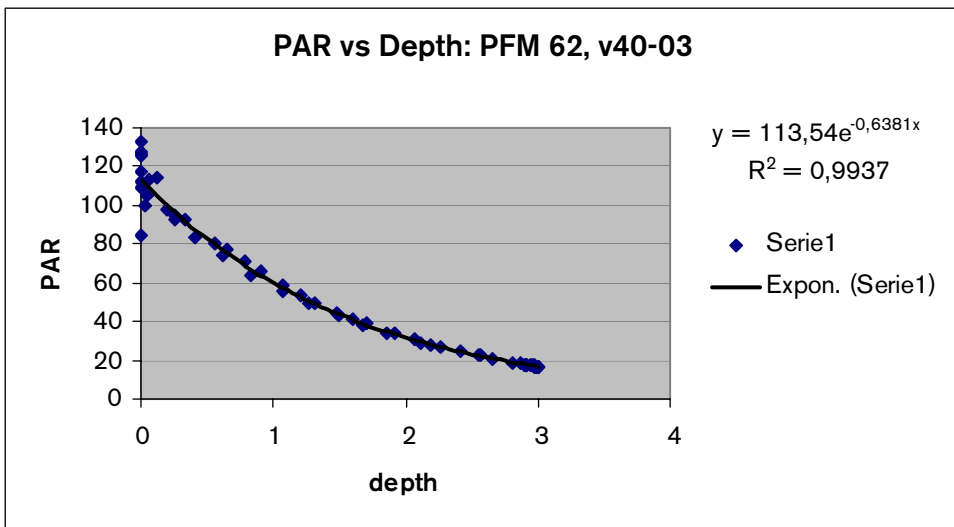
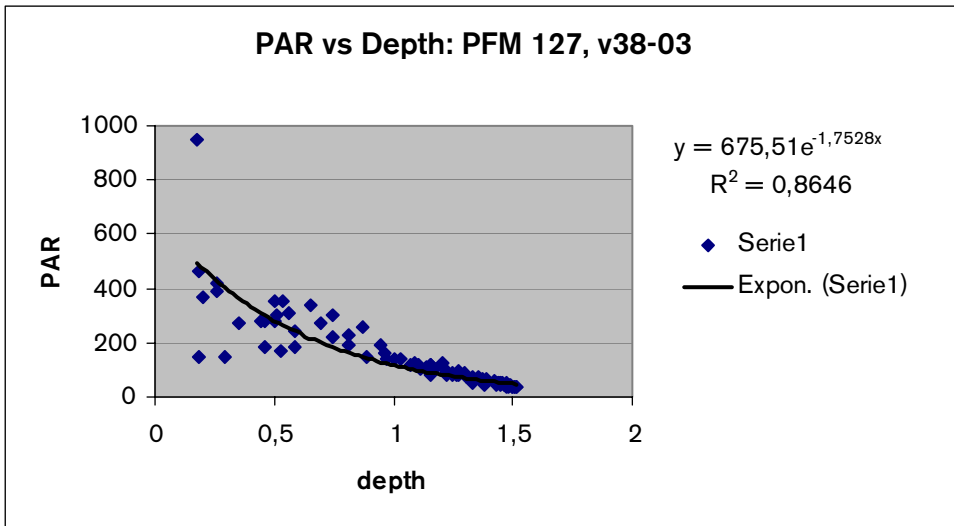
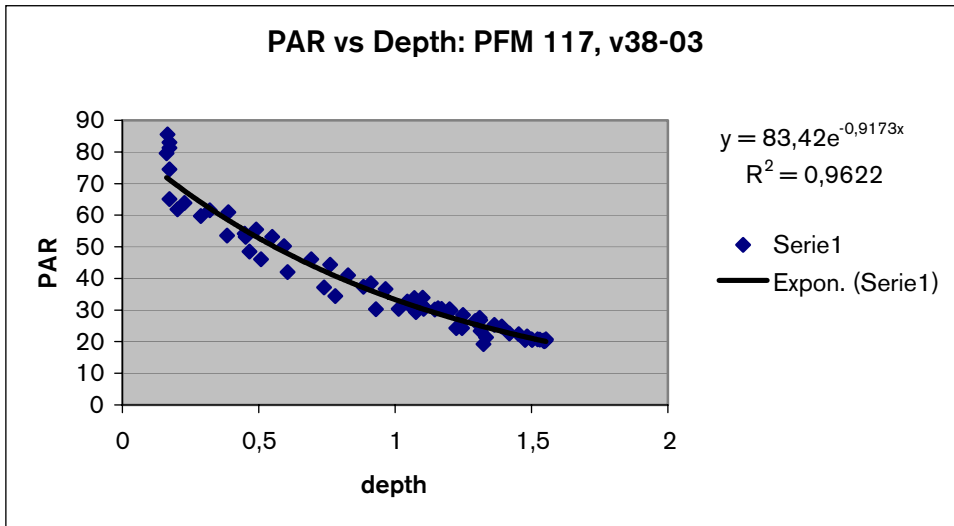
** According to an evaluation (Medins Sjö- och åbiologi, 2003) the chlorophyll values measured with □ measured values do often not agree well with values from laboratory analysis.

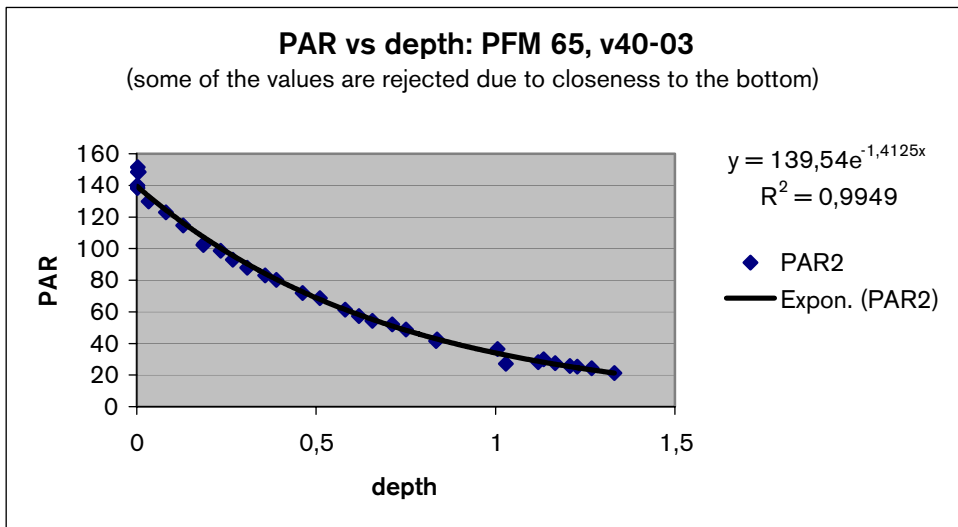
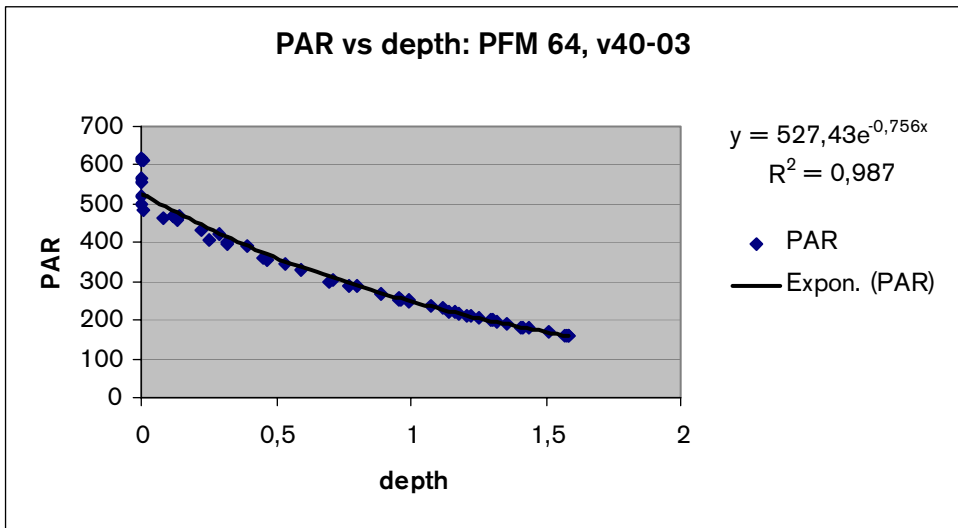
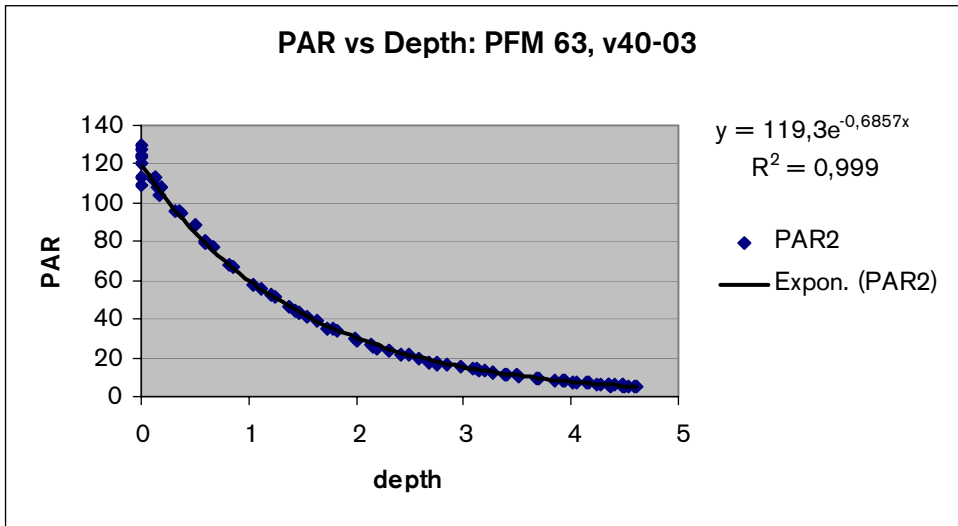
PAR-profile logging

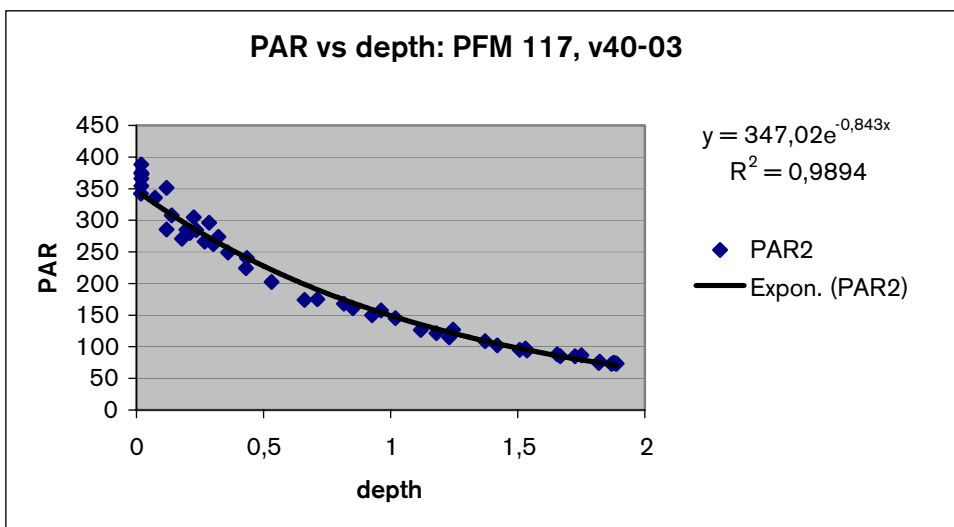
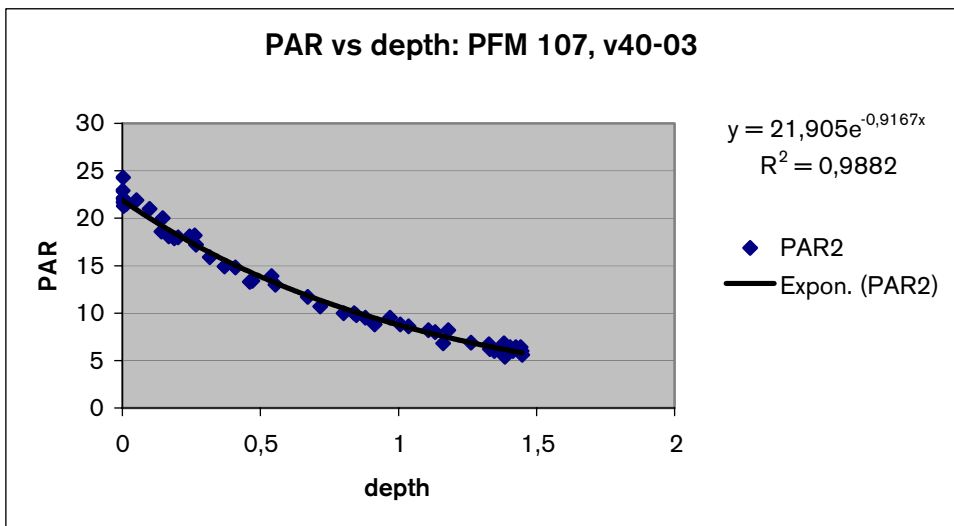
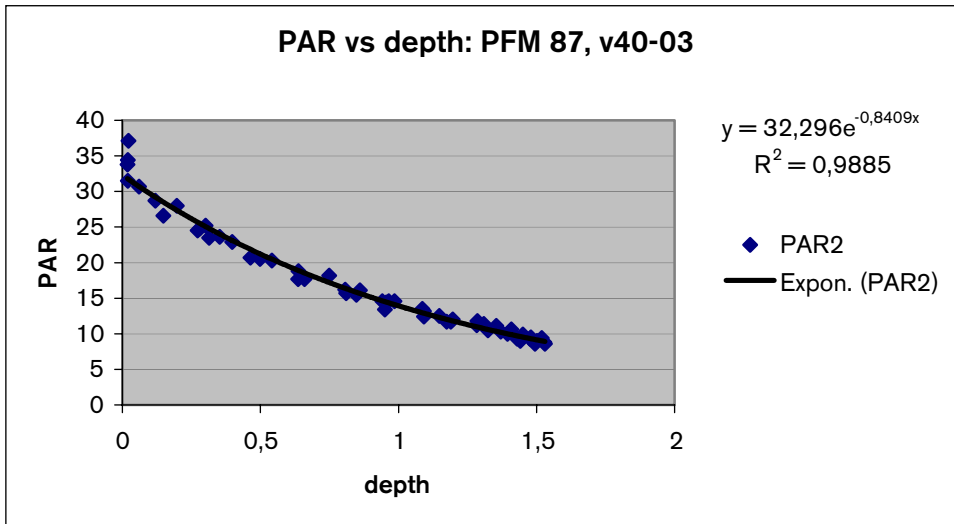
Presented as figures including regression constants

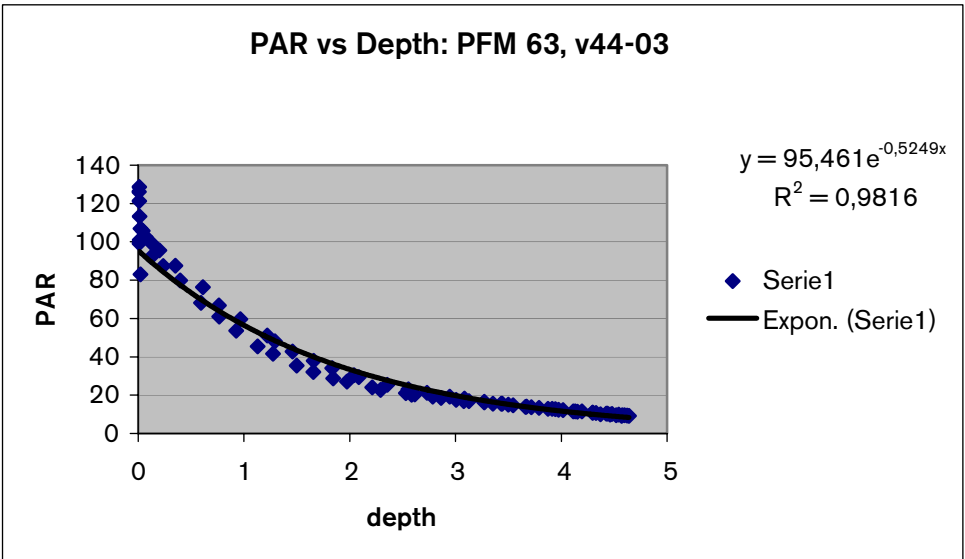
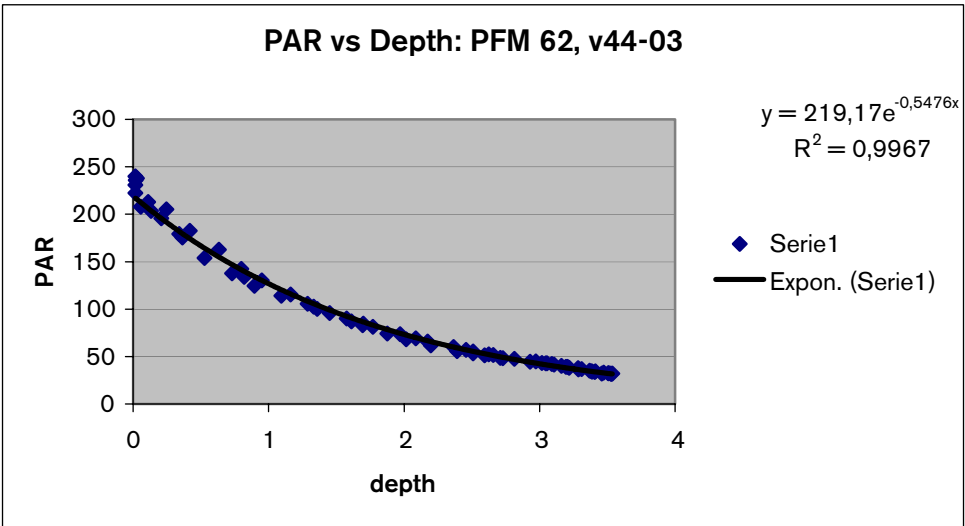
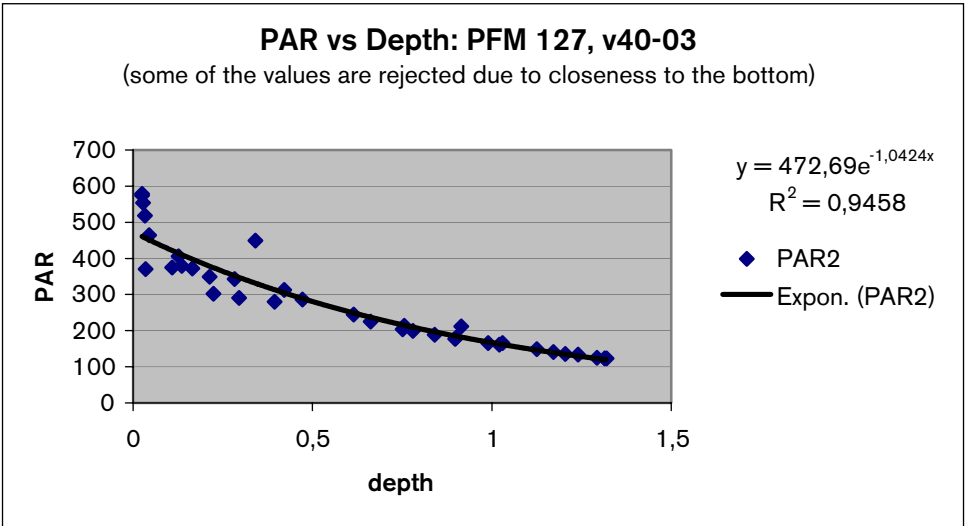


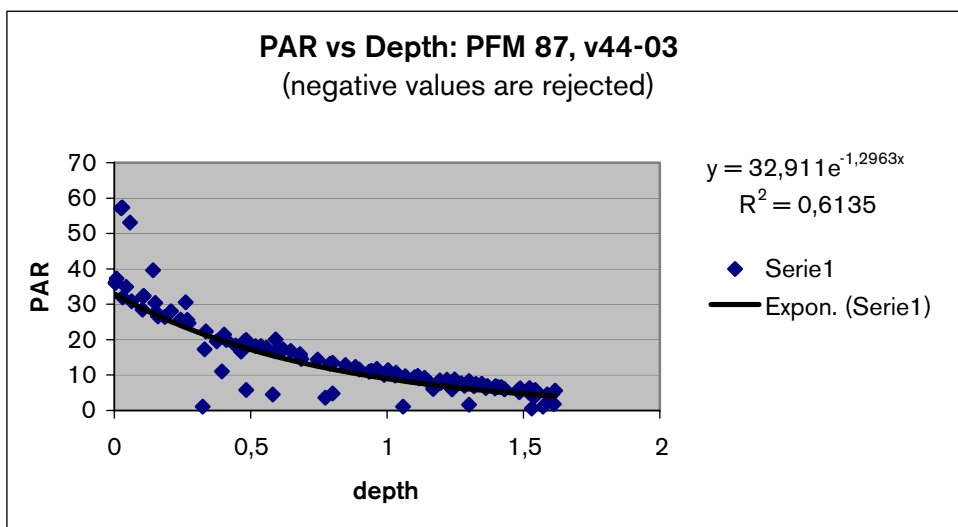
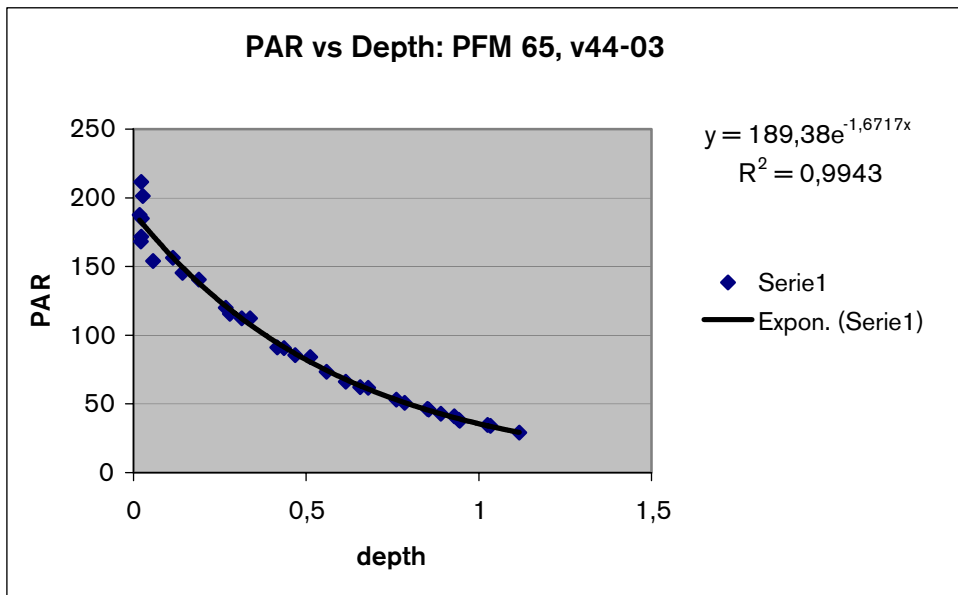
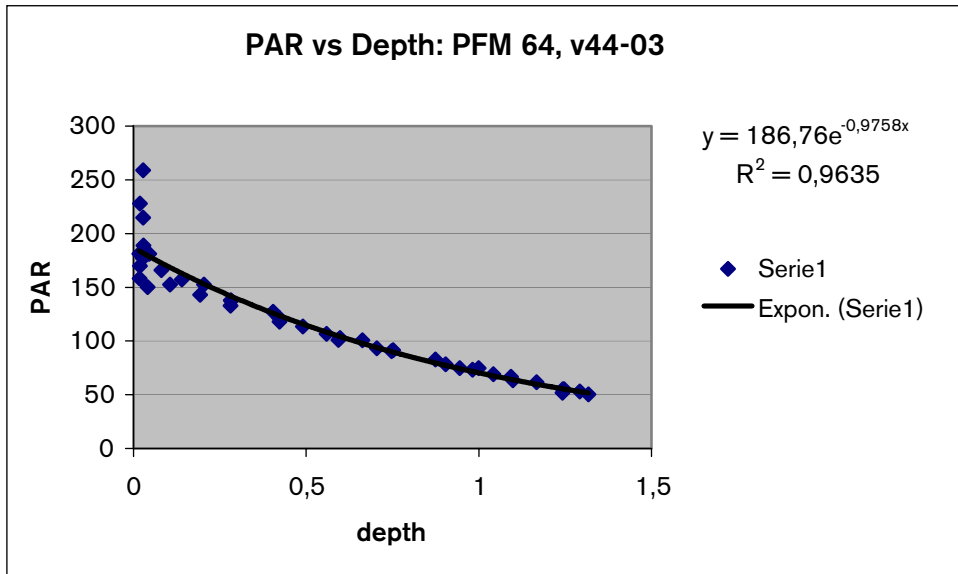


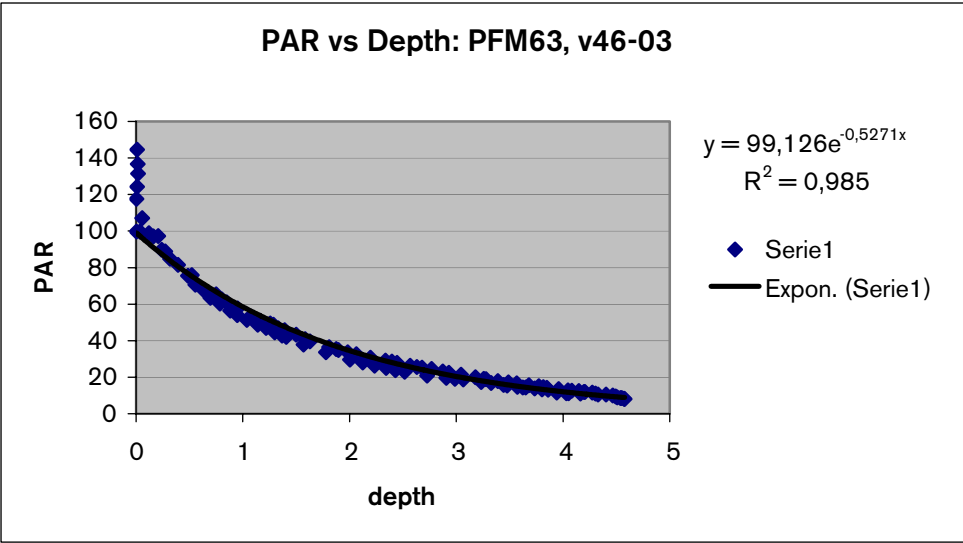
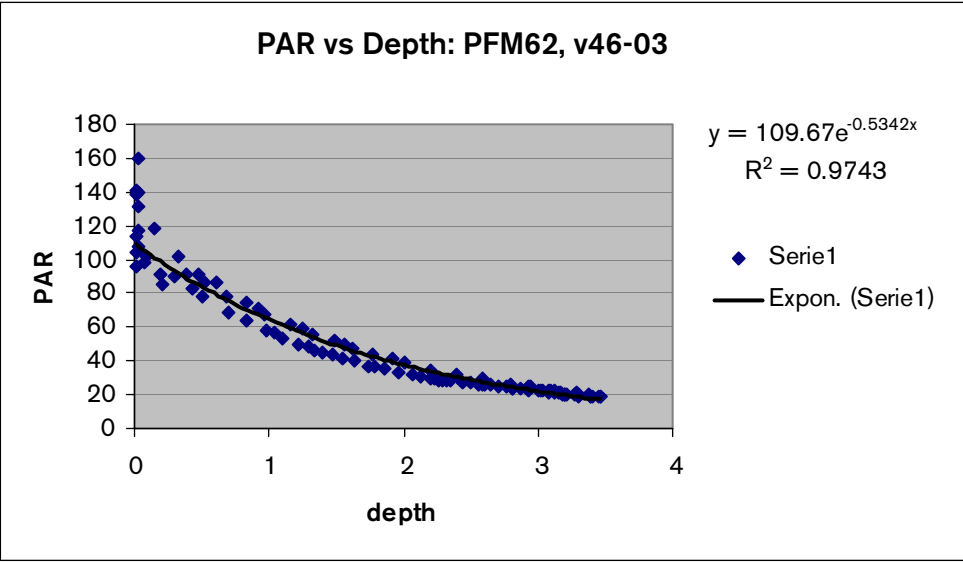
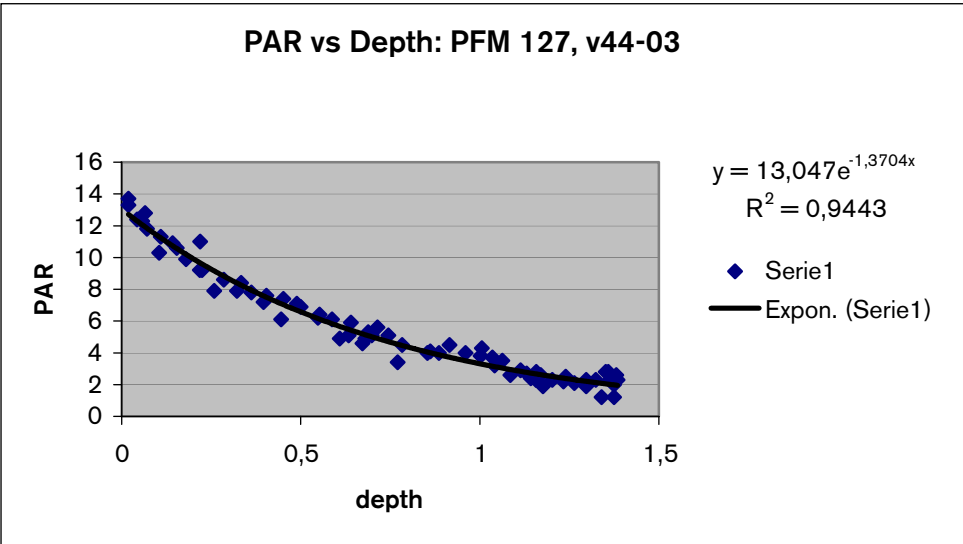


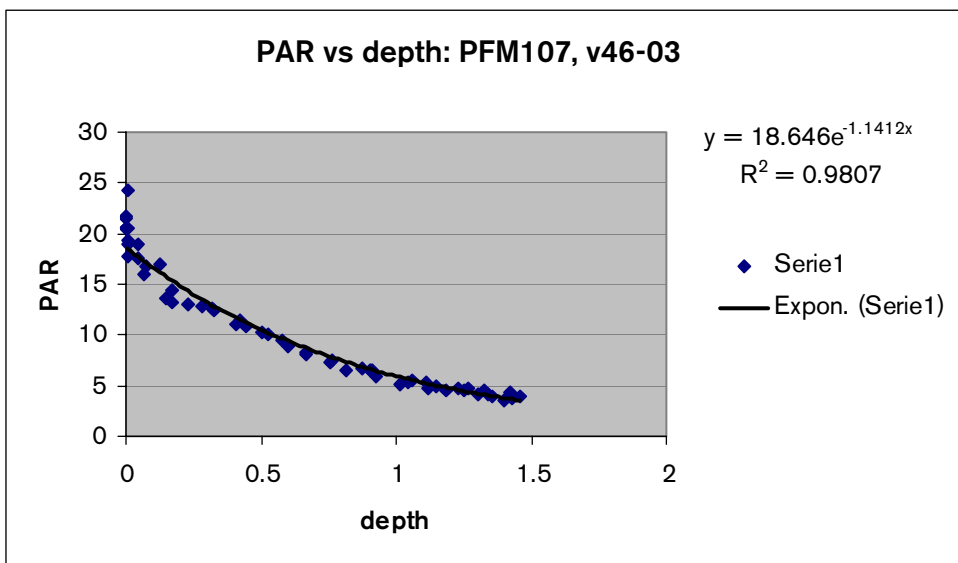
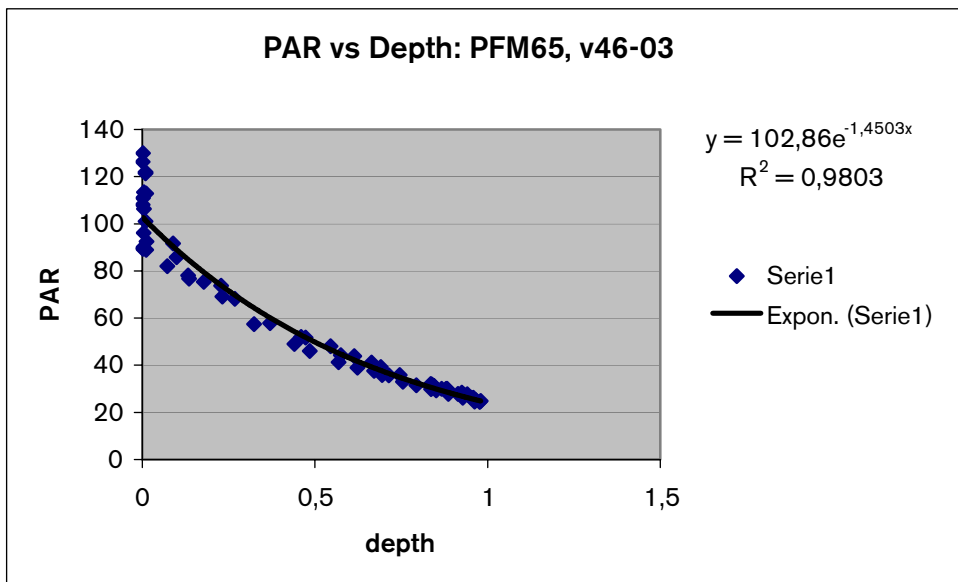
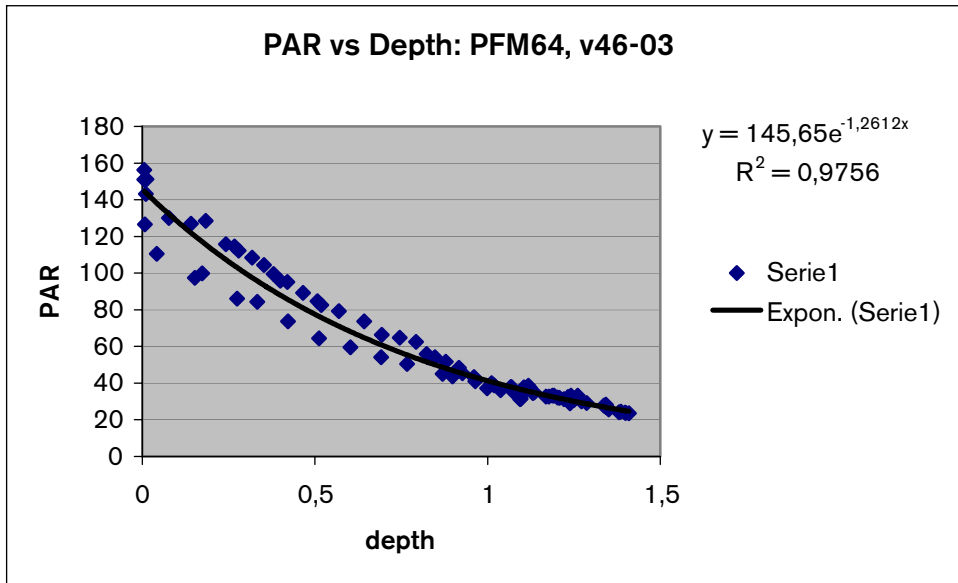


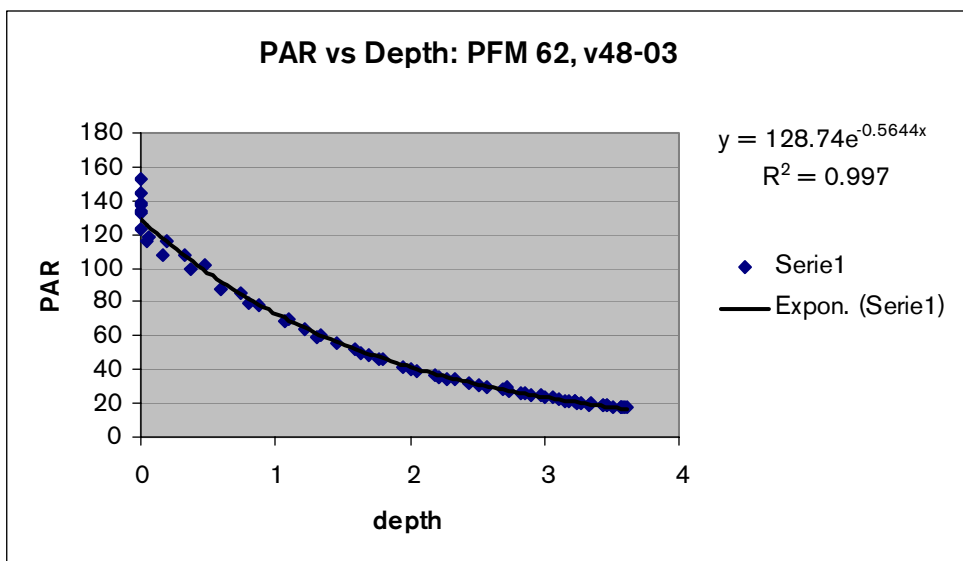
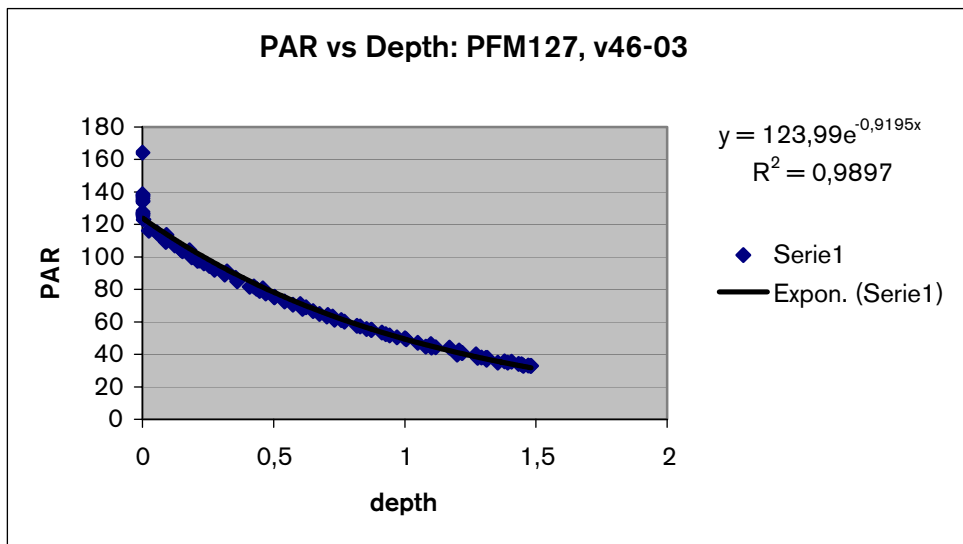
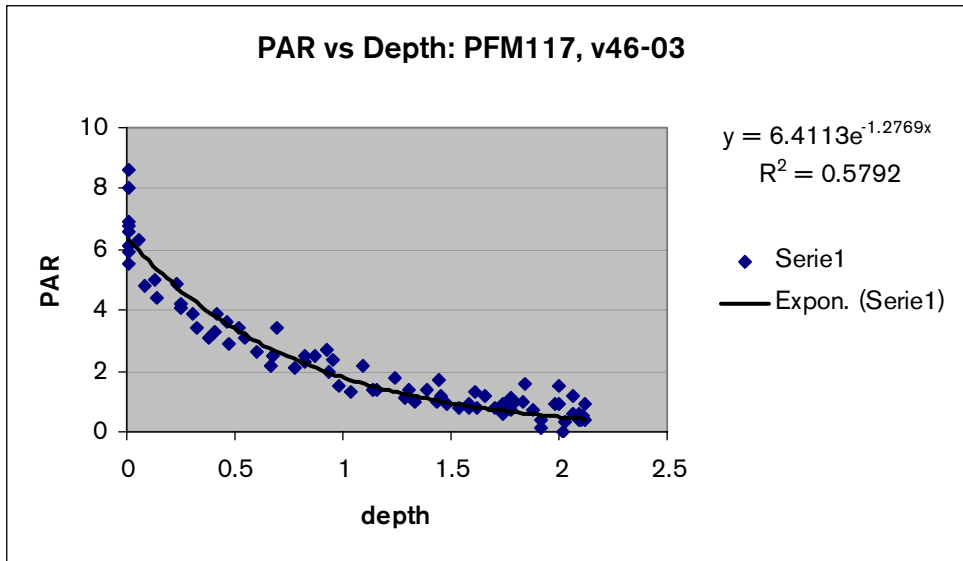


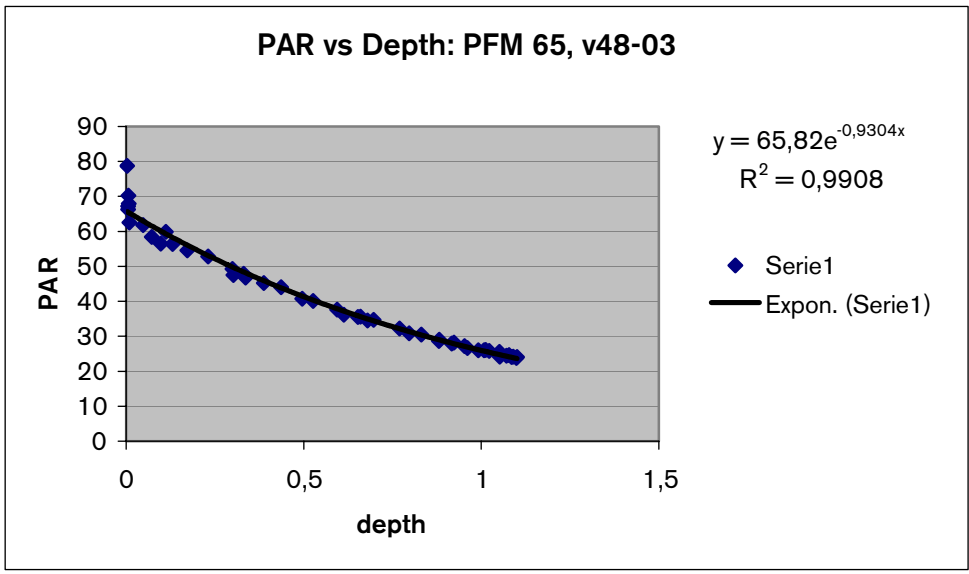
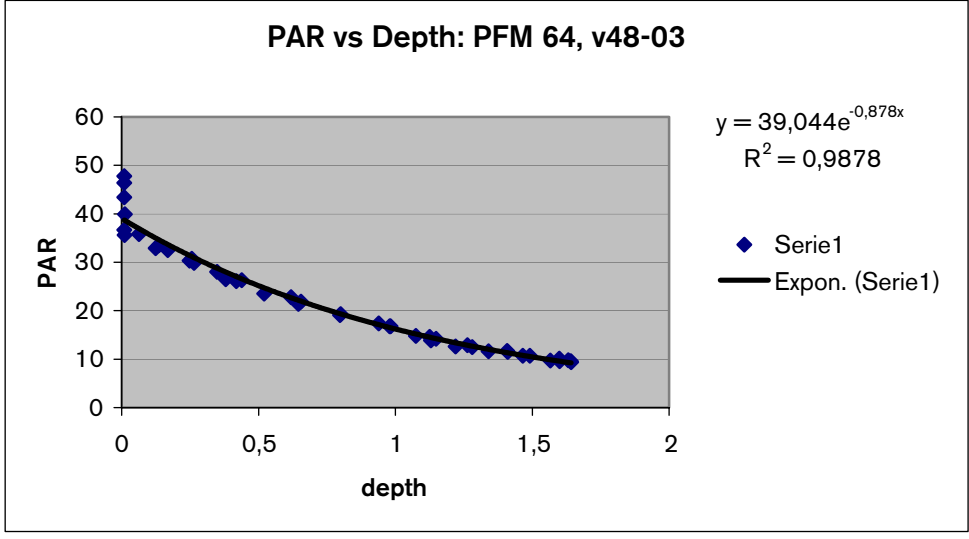
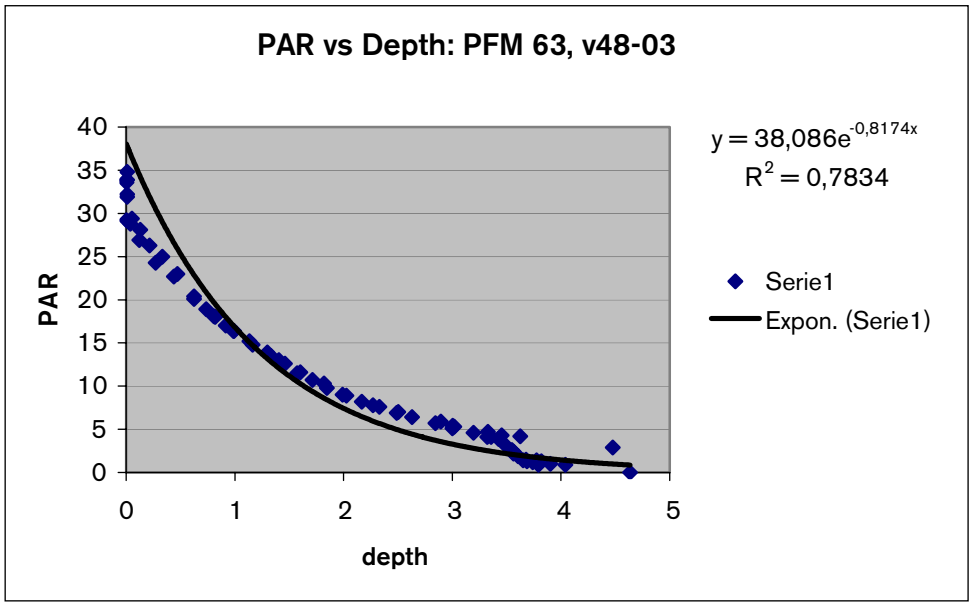


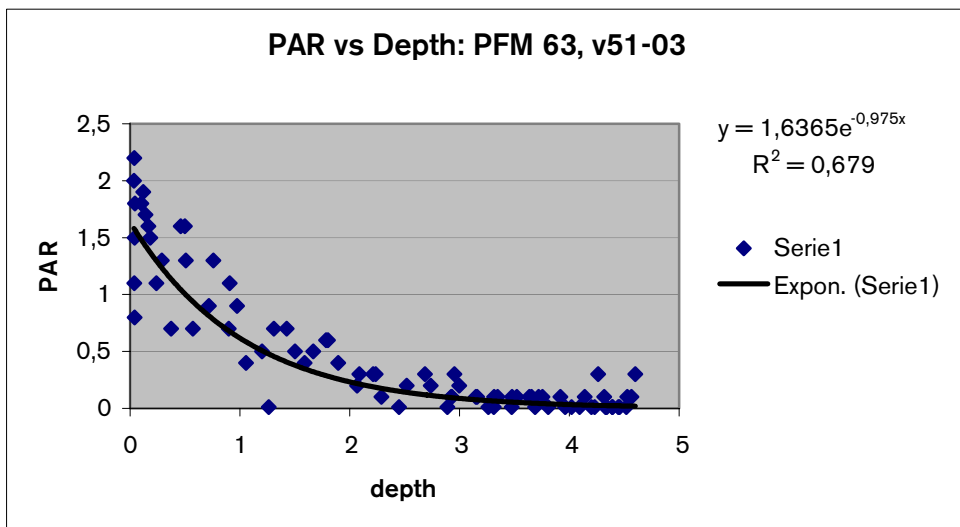
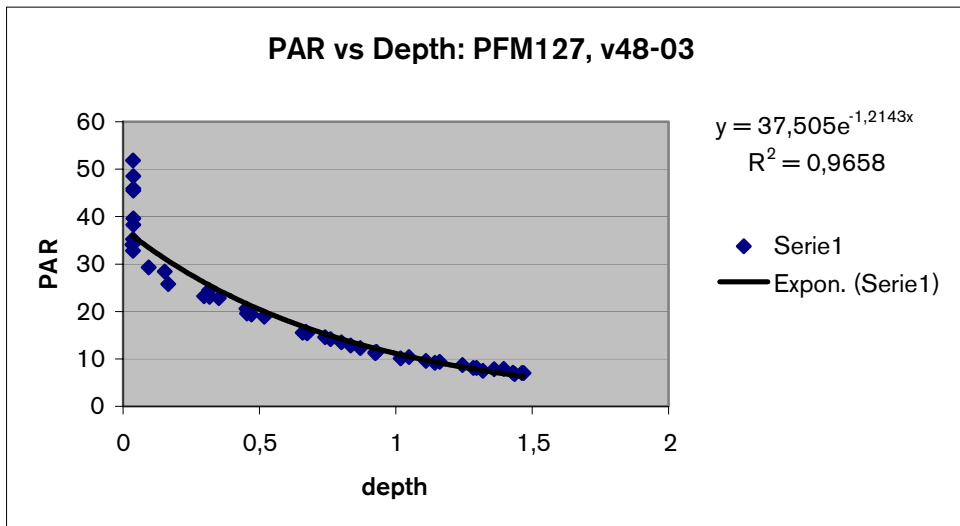
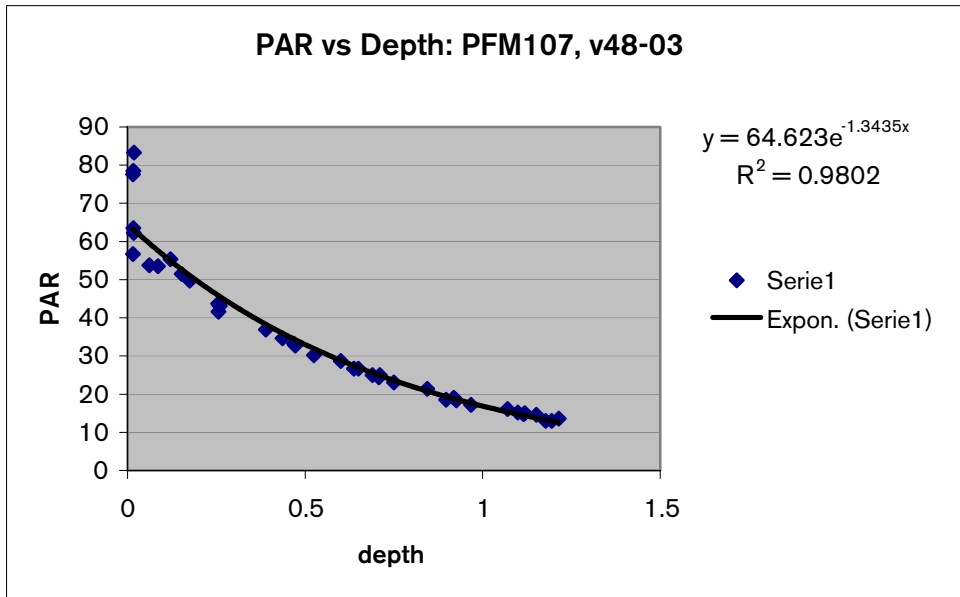


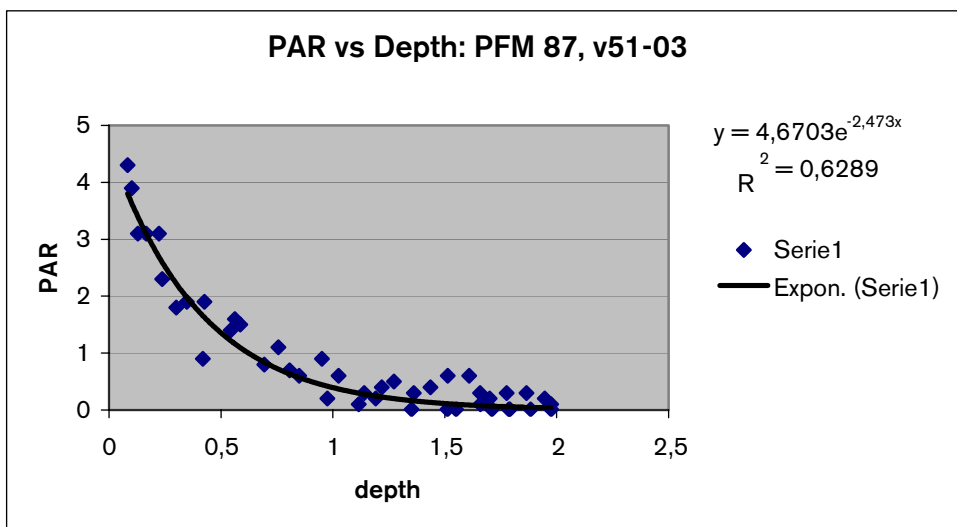
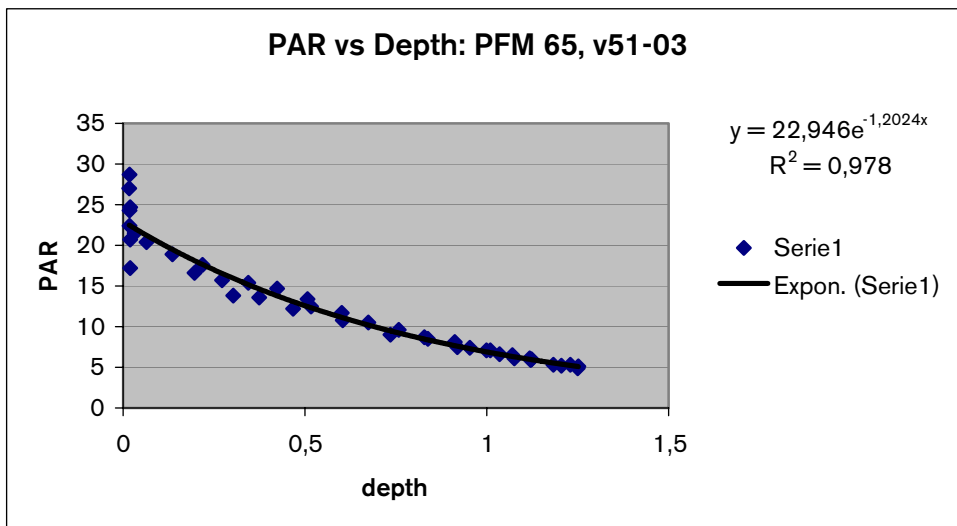
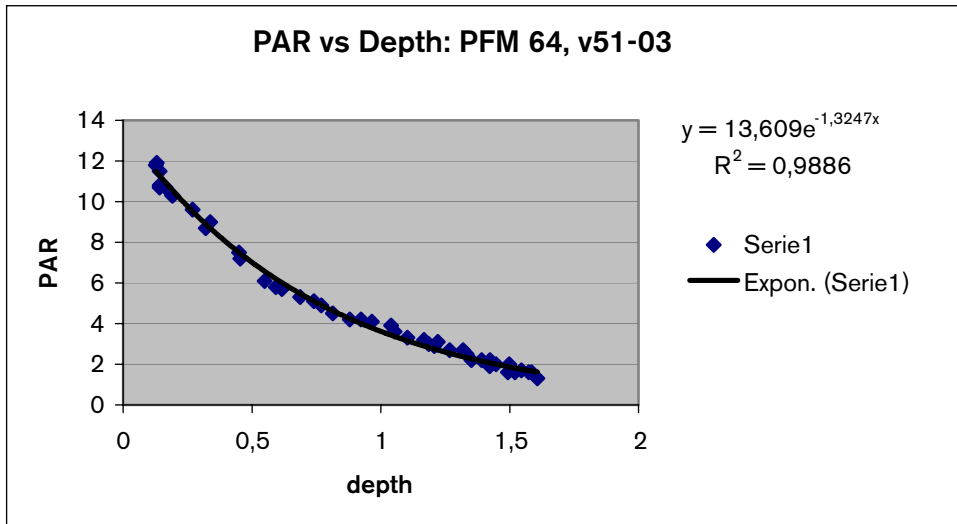


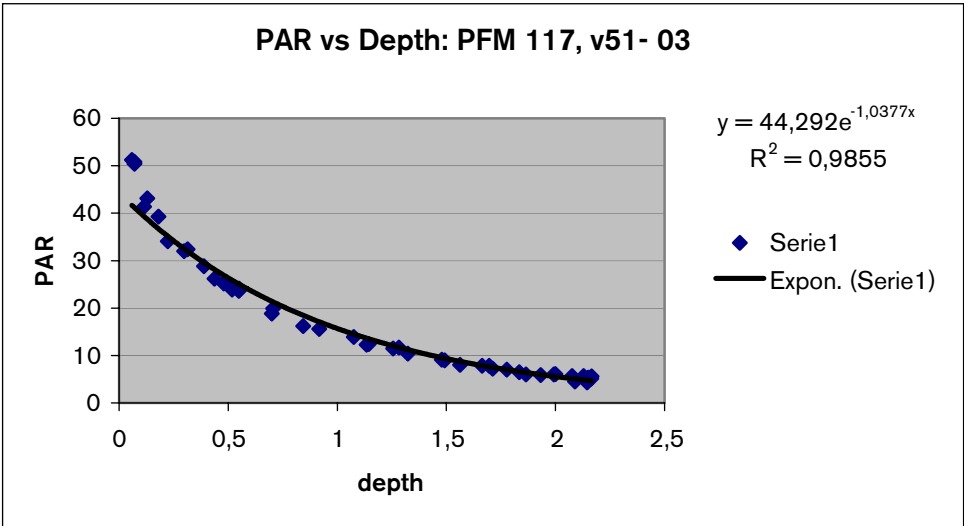












Water flow measurements

Idcode	Date and time	Water flow (m ³ /s)	Non-measurement code*	Comment
PFM000066	2003-03-18 07:30	0.056		
PFM000066	2003-04-01 09:50	0.061		Flöde: $2 \times 1.2 \times 0.23/9 = 0.0613$
PFM000066	2003-04-22 07:00	0.069		
PFM000066	2003-05-06 07:30	0.168		Flöde: $2 \times 1.4 \times 0.30/5 = 0.168$
PFM000066	2003-05-20 07:30	0.06		Flöde: $2 \times 0.2 \times 1.2/9 = 0.06$
PFM000066	2003-06-03 07:00	0.029		$2 \times 1 \times 0.2/14 = 0.02857$
PFM000066	2003-06-17 07:00	0.009		$2 \times 0.15 \times 1.0/84.25 = 0.00876$
PFM000066	2003-07-08 07:30	0.00		Flöde ej mätt på grund av "stillstående vatten" och mycket lågt vattenstånd (hinder).
PFM000066	2003-08-04 08:00		G	
PFM000066	2003-09-01 06:30			Stillstående vatten. Flöde ej mätt.
PFM000066	2003-09-30 07:00			Flöde mycket lågt. Flöde ej mätbart, låg strömhastighet.
PFM000066	2003-10-27 07:00		D	Flöde ej mätt på grund av issörja.
PFM000066	2003-11-12 07:00	0.093		Flöde: $2 \times 0.3 \times 1.4/9 = 0.09333$
PFM000066	2003-11-25 07:00	0.082		Flöde: $2 \times 1.5 \times 0.3/11 = 0.082$
PFM000066	2003-12-16 08:00	0.07		Flöde $1.5 \times 0.35 \times 3/16 = 0.0703$
PFM000066	2004-01-12 08:00			Flöde ej mätt på grund av is
PFM000066	2004-02-09 08:00			Flöde ej mätt på grund av is. (Flöde skattat till ~20 lit/sek).
PFM000066	2004-03-16 07:00		D	
PFM000067	2003-03-18 07:30	0.044		
PFM000067	2003-03-31 17:47	0.055		Flöde: $2 \times 1.1 \times 0.2/8 = 0.055$
PFM000067	2003-04-23 07:00	0.069		$2 \times 0.9 \times 0.27/7 = 0.069$
PFM000067	2003-05-06 07:30	0.108		Flöde: $2 \times 1.3 \times 0.25/6 = 0.10833$
PFM000067	2003-05-20 07:30	0.063		Flöde: $2 \times 0.2 \times 1.1/7 = 0.063$
PFM000067	2003-06-03 07:00			Flöde ej mätt på grund av mycket växtlighet
PFM000067	2003-06-17 07:00	0.014		$2 \times 0.9 \times 0.1/13 = 0.014$
PFM000067	2003-07-08 07:30	0.0087		$2 \times 0.6 \times 0.08/11 = 0.0087 = \text{Flöde}$
PFM000067	2003-08-05 07:00			Bäcken nästan helt uttorkad, cm-djupt vatten i några pölar. "Stillstående"
PFM000067	2003-09-01 06:30			Flöde lågt, gick ej att mäta på grund av växtlighet.
PFM000067	2003-09-16 07:00			Mycket lågt vatten strilar långsamt, går ej att mäta, skattas till 0–1 lit/sek.
PFM000067	2003-09-30 07:00			Lågt flöde, ej möjligt att mäta på grund av växtlighet, skattat ~0–5 liter/sek
PFM000067	2003-10-28 07:00	0.012		Flöde = $0.1 \times 1.1 \times 1.6/15 = 0.01173$
PFM000067	2003-11-13 06:30	0.053		Flöde: $0.2 \times 1.2 \times 2/9 = 0.05333$
PFM000067	2003-11-26 00:00	0.05625		Flöde: $1.5 \times 0.25 \times 2.1/14 = 0.05625$. Högt vattenstånd
PFM000067	2003-12-17 08:00	0.117		Flöde $2.5 \times 0.25 \times 3/16 = 0.1172$
PFM000067	2004-01-13 07:00	0.145		Flöde: $0.30 \times 2.10 \times 3.00/13 = 0.145$
PFM000067	2004-02-11 07:00	0.064		Flöde = $2.2 \times 0.25 \times 3/26 = 0.0635$
PFM000067	2004-03-16 07:00	0.092		Flöde: $1.6 \times 0.25 \times 3/13 = 0.0923$

Idcode	Date and time	Water flow (m³/s)	Non-measurement code*	Comment
PFM000068	2003-03-18 07:30	0.175		
PFM000068	2003-03-30 17:55	0.1		Flöde: $2 \times 1.3 \times 0.35 / 9s = 0.101$
PFM000068	2003-04-23 07:00	0.105		$2 \times 1.35 \times 0.35 / 9 = 0.105$
PFM000068	2003-05-05 07:30	0.283		Högt flöde och vattenstånd, Flöde: $2.0 \times 1.7 \times 0.5 / 6 = 0.283$
PFM000068	2003-05-20 07:30	0.11		$2 \times 0.3 \times 1.4 / 8 = 0.105$
PFM000068	2003-06-03 07:00	0.034		$2 \times 0.2 \times 1.1 / 13 = 0.0338$
PFM000068	2003-06-17 07:00	0.02		Flöde: $2 \times 1.3 \times 0.35 / 9s = 0.101$
PFM000068	2003-07-08 07:30	0.0105		$1.8 \times 0.7 \times 0.15 / 18 = 0.0105 = \text{Flöde}$
PFM000068	2003-08-04 08:00		G	
PFM000068	2003-09-01 06:30	0.00875		
PFM000068	2003-09-15 08:00	0.005		Flöde $2 \times 1.1 \times 0.1 / 42 = 0.0052$
PFM000068	2003-09-29 08:00	0.0143		$2 \times 1.1 \times 0.15 / 23 = 0.0143$
PFM000068	2003-10-29 07:00			Flöde ej mätt på grund av is, delvis öppet "stillastående", dock flöde uppströms delvis öppet.
PFM000068	2003-11-13 06:30	0.071		Flöde: $2 \times 2 \times 0.25 / 14 = 0.0714$
PFM000068	2003-11-25 07:00	0.1148		Flöde: $3 \times 0.4 \times 2.2 / 23 = 0.1148$
PFM000068	2003-12-16 08:00	0.138		Flöde: $2.5 \times 0.35 \times 3 / 19 = 0.13816$
PFM000068	2004-01-13 07:00			Flöde ej mätt på grund av is
PFM000068	2004-02-09 08:00			Flöde ej mätt på grund av is. (Flöde skattat till ~100 lit/sek).
PFM000068	2004-03-15 08:00		D	
PFM000069	2003-03-18 07:30	0.044		
PFM000069	2003-03-30 18:50	0.06		Flöde: $2 \times 1.3 \times 0.3 / 12 = 0.065$
PFM000069	2003-04-23 07:00	0.05		$2 \times 1.2 \times 0.25 / 12 = 0.050$
PFM000069	2003-05-05 07:30	0.124		Flöde: $2.0 \times 1.55 \times 0.40 / 10 = 0.124$
PFM000069	2003-05-20 07:30	0.04		Flöde: $2 \times 1.2 \times 0.2 / 12 = 0.04$
PFM000069	2003-06-03 07:00	0.017		$2 \times 0.10 \times 1.0 / 12 = 0.0166$
PFM000069	2003-06-17 07:00	0.014		$1.2 \times 0.10 \times 1.2 / 11 = 0.013$, $1.4 \times 0.10 \times 1.2 / 12 = 0.014 = \text{Flöde} \sim 0.014$
PFM000069	2003-07-08 07:30	0.0069		$2 \times 0.9 \times 0.05 / 13 = 0.0069 = \text{Flöde}$
PFM000069	2003-08-04 08:00		G	
PFM000069	2003-09-01 06:30	0.006		
PFM000069	2003-09-15 08:00		F	Flöde ej mätt – gick ej – nästan stillastående.
PFM000069	2003-09-29 08:00	0.008		$2 \times 0.9 \times 0.08 / 18 = 0.008$
PFM000069	2003-10-28 07:00			Flöde ej mätt, delvis istäckt, men lågt flöde ~ 3–5 lit/sek. Bäckens delvis öppen delvis istäckt.
PFM000069	2003-11-13 06:30	0.05		Flöde: $2 \times 1 \times 0.3 / 12 = 0.05$
PFM000069	2003-11-26 00:00	0.0614		Flöde: $0.3 \times 1.5 \times 3 / 22 = 0.0614$
PFM000069	2003-12-16 08:00	0.065		Flöde $0.35 \times 1.6 \times 3 / 26 = 0.0646$
PFM000069	2004-01-13 07:00			Flöde ej mätt på grund av is
PFM000069	2004-02-09 08:00			Flöde ej mätt på grund av is. (Flöde skattat till ~ 40 lit/sek).
PFM000069	2004-03-17 07:00		D	
PFM000070	2003-03-18 07:30	0.023		
PFM000070	2003-03-31 18:53	0.035		Flöde: $2 \times 1.5 \times 0.2 / 17 = 0.0353$
PFM000070	2003-04-22 07:00	0.039		$2 \times 1.38 \times 0.2 / 14 = 0.039 \text{ m}^3/\text{s}$
PFM000070	2003-05-06 07:30	0.066		Flöde: $2 \times 2 \times 0.2 / 12 = 0.0666$

Idcode	Date and time	Water flow (m³/s)	Non-measurement code*	Comment
PFM000070	2003-05-20 07:30			Flöde kunde ej mätas på grund av mycket växtlighet, dock lågt flöde (~ 10–20 lit/sek).
PFM000070	2003-06-03 07:00	0.00		Flöde ej mätt på grund av mycket växtlighet dock "stillastående".
PFM000070	2003-06-17 07:00			Flöde ej mätt på grund av mycket växtlighet dock "stillastående".
PFM000070	2003-07-08 07:30	0.00		Flöde ej mätt på grund av växtlighet o "stillastående" vatten.
PFM000070	2003-08-04 08:00		G	
PFM000070	2003-09-01 06:30			Stillastående vatten. Flöde ej mätt.
PFM000070	2003-09-16 07:00		G	
PFM000070	2003-09-30 07:00	0.00		Stillastående vatten. Flöde ej mätt.
PFM000070	2003-10-28 07:00			Flöde ej mätt – is. Bäckens istäckt (~ 5 cm is).
PFM000070	2003-11-13 06:30	0.01333		Dimma. Flöde: $2 \times 0.2 \times 2/30 = 0.01333$
PFM000070	2003-11-26 07:00	0.0387		Flöde: $3 \times 2 \times 0.2/31 = 0.0387$
PFM000070	2003-12-16 08:00	0.064		Flöde $2.2 \times 0.3 \times 3/31 = 0.0639$
PFM000070	2004-01-14 07:00	0.049		Flöde: $2.5 \times 0.25 \times 3.0/38 = 0.0493$
PFM000070	2004-02-09 08:00			Vattnet stillastående, flöde gick ej att mäta (öppen mittfåra).
PFM000070	2004-03-16 07:00		F	
PFM000071	2003-03-18 07:30			Flöde ej mätt på grund av is. Is med små vakar.
PFM000071	2003-03-30 19:45			No flowmeasurement due to ice!
PFM000071	2003-04-22 07:00	0.00		Stillastående vatten, flöde ej mätt.
PFM000071	2003-05-06 07:30			Flöde ej mätt, vattnet stillastående.
PFM000071	2003-05-20 07:30			Flöde ej mätt på grund av mycket växtlighet, vattnet dock "stillastående".
PFM000071	2003-06-03 07:00	0.00		Flöde ej mätt på grund av mycket växtlighet. "Stillastående" vatten flöde ~0.
PFM000071	2003-06-17 07:00			Flöde ej mätt på grund av växtlighet och stillastående vatten.
PFM000071	2003-07-08 07:30	0.00		Provpunkten torrlagd.
PFM000071	2003-08-05 07:00		G	
PFM000071	2003-09-02 06:30		G	
PFM000071	2003-09-16 07:00		G	
PFM000071	2003-09-30 07:00	0.00		Stillastående vatten Flöde ej mätt
PFM000071	2003-10-27 07:00			Flöde kunde ej mätas på grund av is! Men "stillastående".
PFM000071	2003-11-13 06:30	0.00		Dimma. Nästan stillastående vatten. Flöde kunde ej mätas.
PFM000071	2003-11-24 08:00	0.00		Vattenflöde ej mätt "stillastående".
PFM000071	2003-12-16 08:00	0.00		Vattnet stillastående. Flöde ej mätt. Högt vattenstånd.
PFM000071	2004-01-14 07:00			Flöde ej mätt på grund av is.
PFM000071	2004-02-11 07:00			Flöde ej mätt på grund av is.
PFM000071	2004-03-16 07:00		D	
PFM000072	2003-03-18 07:30		C	
PFM000072	2003-03-31 12:20			Flöde ej mätt på grund av is.
PFM000072	2003-04-23 07:00	0.00		Flöde ej mätt, stillastående vatten
PFM000072	2003-05-05 07:30	0.121		Flöde: $4.6 \times 4.0 \times 0.8/122 = 0.1206$

Idcode	Date and time	Water flow (m³/s)	Non-measurement code*	Comment
PFM000072	2003-05-20 07:30	0.00		Flöde ej mätt på grund av stillastående vatten
PFM000072	2003-06-03 07:00	0.00		Flöde ej mätt, vattnet stillastående
PFM000072	2003-06-17 07:00			Flöde ej mätt på grund av stillastående vatten
PFM000072	2003-07-08 07:30	0.00		"Stillastående vatten". Flöde ej mätt
PFM000072	2003-08-05 07:00			Stillastående vatten i stor pöl under bron ~0.5 m djupt. Bäckan i övrigt torr.
PFM000072	2003-09-01 06:30			Stillastående vatten, flöde ej mätt.
PFM000072	2003-09-16 07:00			Vatten finns bara i en större pöl under bron. Stillastående vatten.
PFM000072	2003-09-30 07:00	0.00		Stillastående vatten. Flöde ej mätt.
PFM000072	2003-10-29 07:00			Flöde ej mätt på grund av is, dock mycket lågt flöde "stillastående".
PFM000072	2003-11-12 07:00	0.00		Mycket lågt flöde – nästan stillastående, gick ej att mäta.
PFM000072	2003-11-25 07:00			Flöde ej mätt på grund av svag is dock tillsynes "stillastående".
PFM000072	2003-12-16 08:00			Vattenflöde ej mätt på grund av is, stillastående vatten
PFM000072	2004-01-14 07:00			Flöde ej mätt på grund av is
PFM000072	2004-02-10 07:00			Flöde ej mätt på grund av is
PFM000072	2004-03-17 07:00		D	
PFM000073	2003-03-18 07:30		C	
PFM000073	2003-03-31 11:45			Stillastående vatten. Flöde ej mätbart
PFM000073	2003-04-23 07:00	0.00		Flöde ej mätt – stillastående vatten i bäcken
PFM000073	2003-05-05 07:30	0.0382		Flöde: $2 \times 1.3 \times 0.25 / 17 = 0.0382$
PFM000073	2003-05-20 07:30	0.00		Flöde ej mätt på grund av stillastående vatten
PFM000073	2003-06-03 07:00			Prov ej taget! Bäckan uttorkad!
PFM000073	2003-06-17 07:00		G	
PFM000073	2003-07-08 07:30		G	
PFM000073	2003-08-04 08:00		G	
PFM000073	2003-09-02 06:30		G	
PFM000073	2003-09-16 07:00		G	
PFM000073	2003-09-30 07:00		G	
PFM000073	2003-10-29 07:00		G	
PFM000073	2003-11-12 07:00	0.00		Stillastående vatten. Flöde gick ej att mäta.
PFM000073	2003-11-25 07:00	0.00		Vattenflöde ej mätt stillastående vatten.
PFM000073	2003-12-16 08:00	0.00		Flöde ej mätt, stillastående vatten.
PFM000073	2004-01-14 07:00			Flöde ej mätt på grund av is.
PFM000073	2004-02-10 07:00			Flöde ej mätt på grund av is.
PFM000073	2004-03-17 07:00		D	

Non-measurement code*	Swedish	English
C	Fruset vattendrag; mätning ej genomförbar	Brook frozen; measurement not possible
D	För mycket is i vattendraget för att genomföra mätning	Too much ice in the brook for measurement to be performed
F	För lite vattenflöde för att genomföra mätning	Too low waterflow for measurements to be performed
G	Torrlagt vattendrag, mätning ej genomförbar	Dry brook, measurement not possible

Appendix 5

Water composition, compilation of basic water analysis data

Idcode	Water type	Depth m	Info	Date - time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L
PFM000074	Lake Water	0.5	Surface	2002-05-05 12:00	4067		6.2	2.41	66.5	3.1	200	5.2	4.05	2.00	-0.02	-	3.71			0.002	0.07	7.80	34.6		
PFM000074	Lake Water	0.5	Surface	2002-06-09 00:00	4143		9.9	2.18	55.7	3.8	200	8.6	5.04	2.81	0.09	0.72	4.35			0.002	0.08	7.90	36.0		0.006
PFM000074	Lake Water	0.5	Surface	2002-06-23 19:15	4168		8.3	1.45	62.3	3.7	190	7.1	4.12	1.92	0.02	0.33	2.95			0.002	0.08	8.00	34.1	-0.03	0.006
PFM000074	Lake Water	0.5	Surface	2002-07-14 00:00	4202		6.7	1.60	69.1	3.2	210	6.2	3.70	1.84	-0.2	0.57	4.12	0.071	0.007	0.002	0.08	7.60	37.0		
PFM000074	Lake Water	0.5	Surface	2002-08-11 20:00	4224		6.9	1.55	71.3	3.6	240	6.1	2.75	1.39	0.07	0.41	5.07	0.050	0.019	0.002	0.09	7.50	39.6		0.011
PFM000074	Lake Water	0.5	Surface	2002-09-02 07:30	4251		10.5	1.44	70.8	4.1	226	20.5	5.34	1.93	0.09	0.56	7.90			0.003	0.10				0.009
PFM000074	Lake Water	0.5	Surface	2002-09-15 18:00	4276	-10.1	9.9	1.34	63.1	4.0	218	39.4	7.79	1.91	0.16	0.25	8.63			0.002	0.09				0.008
PFM000074	Lake Water	0.5	Surface	2002-10-01 07:30	4309		10.1	1.36	62.7	4.1	204	23.7	5.71	1.68	0.09	0.31	7.93			0.003	0.09	7.87			0.007
PFM000074	Lake Water	0.5	Surface	2002-11-12 08:00	4337		10.5	1.75	66.1	4.0	222	10.3	3.43	1.73	0.09	0.31	7.13	0.026	0.006	-0.004	0.09	8.20			0.007
PFM000074	Lake Water	0.5	Surface	2002-12-17 07:30	4415		6.2	2.50	69.3	3.5	182	7.4	33.9	11.0	-0.2	0.23	5.52			-0.004	0.07	7.22			
PFM000074	Lake Water	0.5	Surface	2003-01-16 07:30	4453		9.0	2.62	84.0	4.4	245	12.2	27.3	14.4	-0.2	0.23	7.04	0.300	0.164	-0.004	0.10	7.09			
PFM000074	Lake Water	0.5	Surface	2003-02-18 07:30	4507		7.8	2.81	83.1	4.1	237	7.9	26.1	9.36	-0.2	0.24	6.16			-0.004	0.09	7.00			0.005
PFM000074	Lake Water	0.5	Surface	2003-03-18 07:30	4652		5.8	2.30	63.2	3.2	197	6.5	16.3	5.75	0.06	0.17	4.21			-0.004	0.07	7.29	43.3		0.005
PFM000074	Lake Water	0.5	Surface	2003-04-01 12:00	4712		4.7	1.87	51.4	2.6	138	4.6	11.6	4.82	0.05	0.14	3.68			-0.004	0.06	7.24	26.2		0.005
PFM000074	Lake Water	0.5	Surface	2003-04-21 16:00	4752		6.9	2.21	59.0	3.0	178	8.1	13.5	4.81	0.07	0.22	3.74			-0.004	0.07	7.36	37.9		0.004
PFM000074	Lake Water	0.5	Surface	2003-05-06 07:30	4770		4.9	2.17	54.6	2.8	160	32.1	13.3	4.50	0.11	0.24	3.34	0.038	0.003	0.002	0.06	7.42	31.1		0.005
PFM000074	Lake Water	0.5	Surface	2003-05-19 07:30	4791		6.0	2.24	60.2	3.0	181	6.5	9.66	3.47	0.03	0.23	3.10			-0.004	0.07	7.52	38.9		0.003
PFM000074	Lake Water	0.5	Surface	2003-06-02 07:30	4821		7.4	1.96	63.1	3.2	198	7.2	5.94	2.76	0.04	0.55	3.19			-0.004	0.08	7.58	35.2		0.003
PFM000074	Lake Water	0.5	Surface	2003-06-16 07:00	4841		8.6	1.65	62.9	3.5	193	9.0	5.74	2.85	0.04	0.27	3.23			-0.004	0.08	7.68	38.1		0.006
PFM000074	Lake Water	0.5	Surface	2003-07-07 08:00	4861		9.5	1.21	57.0	3.7	190	9.9	5.74	2.53	0.06	0.28	2.96	0.042	0.007	-0.004	0.08	7.92	34.5		0.007
PFM000074	Lake Water	0.3	Surface	2003-08-04 08:00	4938		11.5	1.04	45.2	3.7	162	11.1	6.52	3.07	0.07	0.27	5.46			0.007	0.08	8.07	45.0		0.007
PFM000074	Lake Water	0.5	Surface	2003-09-01 07:30	4969		11.0	0.84	39.9	3.3	134	11.2	5.18	2.23	0.06	-0.2	5.04			-0.004	0.06	8.01	29.2		0.004
PFM000074	Lake Water	0.5	Surface	2003-09-15 08:00	4996		11.9	0.94	43.8	3.5	148	11.6	4.79	2.30	0.05	-0.2	5.02			-0.004	0.07	8.26	29.2		0.004
PFM000074	Lake Water	0.5	Surface	2003-09-30 07:00	8004		11.4	1.08	45.7	3.5	156	13.1	4.84	2.11	0.06	0.2	4.54			-0.004	0.07	7.65	30.3		0.006
PFM000074	Lake Water	0.5	Surface	2003-10-27 07:00	8045		9.7	1.80	79.0	4.2	260	11.3	4.83	2.17	0.05	-0.2	6.11	0.060	0.104	0.002	0.10	7.19	44.0		0.005
PFM000074	Lake Water	0.5	Surface	2003-11-13 06:30	8119		6.7	2.74	58.6	3.2	216	7.5	16.6	6.23	0.05	-0.2	3.52			-0.004	0.07	7.15	37.7		0.003
PFM000074	Lake Water	0.5	Surface	2003-12-17 08:00	8205		11.9	2.94	67.1	3.8	202	15.9	14.2	4.97	0.03	-0.2	4.56			-0.004	0.08	7.06	40.0		0.004
PFM000074	Lake Water	0.5	Surface	2004-01-14 07:00	8231		6.3	2.46	64.0	3.3	207	7.6	13.2	4.49	0.08	0.22	5.25	0.048	0.012	0.001	0.07	7.09	37.5		0.005

Idcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/l	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L	
PFM000074	Lake Water	0.5	Surface	2004-02-10 07:00	8322		6.2	2.47	66.4	3.5	219	7.9	12.6	4.23	0.02	-0.2	5.37				-0.004	0.07	7.11	38.2		0.004
PFM000074	Lake Water	0.5	Surface	2004-03-16 07:00	8351		7.5	2.77	82.4	4.2	257	10.1	10.2	3.66	0.08	-0.2	6.23				-0.004	0.09	7.16	47.1		0.008
PFM000087	Lake Water	0.5	Surface	2002-04-17 16:00	4060		8.8	2.69	63.2	3.9	190	9.5	8.33	3.31	-0.2	0.40	3.85	0.118	0.018		0.003	0.08	8.10	36.0		
PFM000087	Lake Water	1.8	Bottom	2002-04-17 16:00	4061		8.7	2.77	64.1	4.0	190	9.4	8.30	3.38	-0.2	0.41	3.85	0.121	0.018		0.003	0.07	8.10	36.0		
PFM000087	Lake Water	0.5	Surface	2002-05-05 12:00	4065		11.1	2.87	70.7	4.4	210	13.4	8.43	3.55	0.23		2.93				0.002	0.09	8.00	40.0		
PFM000087	Lake Water	1.8	Bottom	2002-05-05 12:00	4066		11.3	2.84	71.0	4.4	210	13.0	8.23	3.37	-0.06		2.94				0.002	0.09	8.00	40.0		
PFM000087	Lake Water	0.5	Surface	2002-05-12 19:00	4088		12.4	3.17	67.2	4.5	200	15.3	7.92	3.48	0.05		2.63				0.002	0.08	8.10	40.1		
PFM000087	Lake Water	1.8	Bottom	2002-05-12 19:00	4091		12.1	3.06	67.7	4.5	200	15.2	7.78	3.43	-0.2		2.64				0.002	0.08	8.10	40.3		
PFM000087	Lake Water	0.5	Surface	2002-05-26 12:00	4117		12.9	2.89	61.8	5.0	200	15.4	7.16	3.06	-0.2		2.63				0.002	0.09	7.80	39.8		
PFM000087	Lake Water	1.8	Bottom	2002-05-26 12:00	4118		12.9	2.82	61.9	5.0	190	16.6	7.47	3.07	-0.2		2.65				0.002	0.09	7.80	40.4		
PFM000087	Lake Water	0.5	Surface	2002-06-09 00:00	4135		14.8	2.94	51.1	5.3	170	15.1	7.29	3.33	0.1	0.43	3.56				0.003	0.09	8.10	34.3		0.006
PFM000087	Lake Water	1.5	Bottom	2002-06-09 00:00	4142		15.0	2.96	53.5	5.4	180	15.4	7.2	3.35	-0.2	0.60	3.73				0.002	0.09	7.80	36.3		0.009
PFM000087	Lake Water	0.5	Surface	2002-06-23 20:30	4144		13.5	2.45	48.4	5.1	160	14.6	7.17	3.11	0.04	0.41	4.67				0.002	0.08	8.20	32.7	-0.03	0.006
PFM000087	Lake Water	1.5	Bottom	2002-06-23 20:30	4148		13.5	2.59	48.7	5.2	160	14.5	7.16	3.07	0.04	0.33	4.70				0.002	0.08	8.10	32.7	-0.03	0.006
PFM000087	Lake Water	0.5	Surface	2002-07-14 23:00	4200		12.0	2.19	64.9	4.4	190	12.0	6.44	3.04	0.08	0.62	4.76	0.068	0.006		0.002	0.09	8.00	37.7		
PFM000087	Lake Water	1.5	Bottom	2002-07-14 23:00	4201		12.0	2.25	66.3	4.5	200	12.5	6.24	2.94	-0.2	0.54	5.01	0.070	0.007		0.002	0.09	7.80	39.5		
PFM000087	Lake Water	0.5	Surface	2002-08-11 21:30	4203		9.8	2.34	65.4	4.5	220	10.3	5.28	2.34	0.09	0.43	6.13	0.074	0.011		0.002	0.05	8.10	38.8		0.009
PFM000087	Lake Water	1.5	Bottom	2002-08-11 21:30	4222		9.8	2.45	66.2	4.6	230	10.4	5.44	2.29	0.09	0.30	6.31	0.084	0.021		0.002	0.10	7.70	41.2		0.008
PFM000087	Lake Water	1.5	Bottom	2002-09-02 07:30	4264		12.3	2.29	65.7	5.1	198	10.6	6.00	2.77	0.09	0.53	10.1				0.003	0.11				0.008
PFM000087	Lake Water	0.5	Surface	2002-09-02 07:30	4263		12.3	2.32	65.4	5.1	213	12.5	6.14	2.78	0.12	0.64	10.1				0.003	0.11				0.012
PFM000087	Lake Water	1.5	Bottom	2002-09-15 18:00	4279		11.2	2.09	55.5	5.0	199	12.0	6.25	2.66	0.10	0.35	10.5				0.003	0.10				0.008
PFM000087	Lake Water	0.5	Surface	2002-09-15 18:30	4278		11.1	1.77	55.5	5.0	200	13.3	6.45	2.63	0.11	0.40	10.5				0.003	0.09				0.012
PFM000087	Lake Water	0.5	Surface	2002-10-01 07:30	4292		11.5	2.05	50.7	5.1	170	12.0	6.34	2.43	0.10	0.31	9.79				0.003	0.09	8.60			0.007
PFM000087	Lake Water	1.5	Bottom	2002-10-01 07:30	4295		11.4	2.01	50.6	5.0	170	11.2	6.07	2.34	0.10	0.29	9.80				0.003	0.09	8.56			0.007
PFM000087	Lake Water	1.5	Bottom	2002-11-12 08:00	4331		11.9	2.17	54.5	5.1	189	14.6	5.58	2.18	xx	0.33	9.42	0.042	0.042		-0.004	0.10	8.06			0.007
PFM000087	Lake Water	0.5	Surface	2002-11-12 08:00	4327		12.1	2.11	52.5	5.2	180	11.2	5.59	2.53	0.10	0.32	9.47	0.027	0.003		-0.004	0.10	8.61			0.007
PFM000087	Lake Water	0.5	Surface	2002-12-16 08:00	4407		10.0	3.25	77.1	4.7	210	11.6	34.4	12.1	-0.2	0.30	6.06				-0.004	0.09	7.62			0.007
PFM000087	Lake Water	1.5	Bottom	2002-12-16 08:00	4409		12.5	3.63	79.2	5.8	242	14.5	29.8	9.86	-0.2	0.40	6.93				-0.004	0.11	7.80			0.007
PFM000087	Lake Water	0.5	Surface	2003-01-15 07:30	4442		11.5	3.88	93.9	6.2	309	14.9	33.4	8.66	-0.2	0.34	9.80	0.330	0.640		0.003	0.12	7.12			0.007
PFM000087	Lake Water	1.5	Bottom	2003-01-15 07:30	4449		12.2	3.94	99.0	6.3	309	17.8	33.4	10.3	-0.2	0.34	9.21	0.410	0.743		0.003	0.12	7.21			0.007
PFM000087	Lake Water	0.5	Surface	2003-02-18 07:30	4485		11.2	3.52	97.5	5.7	289	27.8	31.2	10.6	0.06	0.12	7.77				-0.004	0.11	6.97			0.007
PFM000087	Lake Water	1.5	Bottom	2003-02-18 07:30	4486		13.7	4.38	112	6.5	348	15.0	24.5	9.16	-0.2	0.36	9.23				0.011	0.13	6.97			0.007
PFM000087	Lake Water	0.5	Surface	2003-03-17 08:00	4649		8.0	2.64	66.7	4.1	189	38.0	22.1	7.02	0.05	0.27	4.47				-0.004	0.08	7.23	43.6		0.005

lcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000087	Lake Water	1.5	Bottom	2003-03-17 08:00	4650		12.5	4.50	115	6.7	370	15.7	15.4	10.0	0.09	0.45	9.38			0.004	0.13	7.05	64.5		0.012
PFM000087	Lake Water	0.5	Surface	2003-03-31 15:35	4703		8.5	2.75	67.6	4.2	206	11.4	16.4	6.27	0.03	0.19	4.77			-0.004	0.08	7.43	38.1		0.006
PFM000087	Lake Water	1.5	Bottom	2003-03-31 15:40	4704		8.7	3.05	77.0	4.6	221	10.1	17.3	6.83	0.06	0.08	5.80			-0.004	0.09	7.35	39.8		0.009
PFM000087	Lake Water	0.5	Surface	2003-04-21 16:00	4735		8.3	2.49	58.4	3.6	178	9.0	14.6	5.43	0.04	0.34	3.18			-0.004	0.07	7.87	35.6		0.004
PFM000087	Lake Water	0.5	Surface	2003-04-21 16:00	4736		8.4	2.44	59.4	3.7	185	10.2	15.8	5.62	0.04	-0.2	3.24			-0.004	0.07	7.85	30.0		0.002
PFM000087	Lake Water	0.5	Surface	2003-05-06 07:30	4773		7.7	2.55	56.9	3.8	173	7.9	14.2	5.61	0.03	0.27	3.13	0.053	0.004	0.004	0.07	7.86	35.7		0.003
PFM000087	Lake Water	0.5	Surface	2003-05-19 07:30	4792		8.0	2.61	60.2	3.8	185	8.8	13.8	4.90	0.04	0.29	2.90			-0.004	0.08	7.90	36.7		0.003
PFM000087	Lake Water	0.5	Surface	2003-06-02 07:30	4824		8.5	2.21	56.0	4.0	178	7.4	9.70	3.98	0.06	0.32	2.86			-0.004	0.08	8.18	44.8		0.004
PFM000087	Lake Water	0.5	Surface	2003-06-16 07:00	4844		9.4	2.15	47.9	4.3	153	7.5	9.16	3.95	0.05	0.40	3.23			0.008	0.08	8.50	30.5		0.006
PFM000087	Lake Water	0.5	Surface	2003-07-07 08:00	4860		9.7	1.73	35.7	4.4	123	8.3	8.25	3.44	0.06	0.31	3.38	0.024	0.004	-0.004	0.07	8.66	24.4		0.005
PFM000087	Lake Water	1.34	Surface	2003-08-04 08:00	4940		10.7	2.47	38.5	4.7	150	9.8	8.53	3.57	0.07	0.34	5.95			0.005	0.08	8.17	29.7		0.006
PFM000087	Lake Water	0.5	Surface	2003-09-01 07:30	4967		10.6	2.33	40.8	4.7	142	10.1	9.06	3.58	0.06	0.34	6.19			-0.004	0.08	8.25	28.4		0.003
PFM000087	Lake Water	0.5	Surface	2003-09-16 07:00	8002		10.8	2.47	38.8	4.8	136	10.5	9.98	3.91	0.06	0.26	5.59			-0.004	0.08	8.27	28.5		0.004
PFM000087	Lake Water	0.5	Surface	2003-09-30 07:00	8031		10.9	2.72	43.9	5.1	155	11.7	11.4	4.09	0.05	0.26	5.08			-0.004	0.08	7.90	30.6		0.004
PFM000087	Lake Water	0.5	Surface	2003-10-27 07:00	8047		11.4	2.84	47.9	5.8	162	12.3	16.1	5.83	-0.2	0.26	5.12	0.010	0.001	0.003	0.10	8.30	32.4		0.004
PFM000087	Lake Water	0.5	Surface	2003-10-27 07:00	8051		11.6	2.96	51.3	5.9	176	12.5	15.5	5.68	-0.2	0.30	5.34	0.010	0.037	0.003	0.09	7.90	34.6		0.004
PFM000087	Lake Water	0.5	Surface	2003-11-12 07:00	8113		8.2	3.61	61.7	4.3	219	10.1	27.5	9.06	0.06	0.31	3.75			-0.004	0.08	7.54	40.5		0.004
PFM000087	Lake Water	1.5	Bottom	2003-12-16 08:00	8191		7.3	3.97	77.2	5.0	208	8.0	36.1	12.1	0.05	0.21	5.73			-0.004	0.09	7.38	43.1		0.004
PFM000087	Lake Water	1.5	Bottom	2003-12-16 08:00	8199		8.3	3.14	70.5	4.3	200	9.6	22.8	7.71	0.04	-0.2	5.02			-0.004	0.08	7.38	39.7		0.003
PFM000087	Lake Water	0.5	Surface	2004-01-12 08:00	8215		7.9	2.84	69.0	4.2	223	10.3	18.3	5.99	0.14	0.20	5.47	0.124	0.074	0.002	0.08	7.11	42.3		0.009
PFM000087	Lake Water	1.5	Bottom	2004-01-12 08:00	8220		6.7	4.41	94.3	5.7	276	9.0	52.1	15.9	0.11	0.47	6.96	0.238	0.376	0.003	0.11	7.22	55.6		0.009
PFM000087	Lake Water	0.5	Surface	2004-02-10 07:00	8321		9.1	2.93	72.2	4.7	238	11.1	18.1	6.03	0.04	-0.2	5.62			-0.004	0.09	7.22	43.4		0.005
PFM000087	Lake Water	1.5	Bottom	2004-02-10 07:00	8315		7.2	4.53	106	6.2	320	9.8	44.5	14.9	0.04		7.78			0.005	0.11	7.14	58.9		0.009
PFM000087	Lake Water	0.5	Surface	2004-03-16 07:00	8355		11.1	3.35	88.9	5.5	285	14.7	15.1	4.93	0.09	-0.2	6.53			-0.004	0.10	7.20	51.6		0.011
PFM000087	Lake Water	1.5	Surface	2004-03-16 07:00	8356		8.0	4.78	116	6.9	368	10.9	31.8	18.1	0.07		9.01			-0.004	0.12	7.11	63.0		0.011
PFM000097	Lake Water	0.5	Surface	2002-04-17 11:30	4056		89.2	4.86	44.2	12.3	110	177	25.2	9.20	0.62	0.25	2.30	0.142	0.011	0.006	0.11	7.90	80.0		0.006
PFM000097	Lake Water	0.5	Surface	2002-05-06 10:00	4073		89.7	4.82	45.2	12.3	120	176	24.2	9.30	0.87		1.40			0.003	0.11	7.90	79.5		0.006
PFM000097	Lake Water	0.5	Surface	2002-05-13 12:00	4099		87.5	5.05	45.9	12.4	130	178	25.0	9.46	0.56		0.67			0.003	0.11	8.20	81.5		0.006
PFM000097	Lake Water	0.5	Surface	2002-05-27 10:00	4124		91.9	5.25	46.6	13.1	140	191	27.6	9.22	0.65		0.23			0.004	0.12	8.10	84.2		0.006
PFM000097	Lake Water	0.5	Surface	2002-06-10 10:15	4150		129	6.85	52.3	17.2	150	247	34.7	13.0	0.59	0.25	0.48			0.004	0.16	8.30	102		0.006
PFM000097	Lake Water	0.5	Surface	2002-06-24 10:30	4181		114	6.02	43.8	16.2	120	203	31.9	11.8	0.54	0.25	0.62			0.003	0.14	8.30	93.5	-0.03	0.011
PFM000097	Lake Water	0.5	Surface	2002-07-15 00:00	4205		75.5	4.28	42.7	10.7	120	136	22.0	8.29	0.43	0.26	0.93	0.099	0.012	0.003	0.11	8.00	69.4		0.006
PFM000097	Lake Water	0.5	Surface	2002-08-12 18:05	4245		57.9	3.46	39.5	8.9	120	109	19.5	6.83	0.41	0.32	1.53	0.095	0.005	0.004	0.10	8.70	58.9		0.008

Idcode	Water type	Depth m	Info	Date - time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L
PFM000097	Lake Water	0.5	Surface	2002-09-02 07:30	4260		77.2	4.05	35.7	10.8	106	122	21.8	8.18	0.41	0.44	0.27			0.004	0.11				0.006
PFM000097	Lake Water	0.5	Surface	2002-09-16 18:00	4287		78.7	4.32	32.8	11.8	105	141	23.2	8.50	0.52	0.41	0.08			0.004	0.11				0.013
PFM000097	Lake Water	0.5	Surface	2002-09-30 07:30	4315		71.2	3.85	28.0	10.7	96.0	137	23.8	8.49	0.60	0.27	0.04			0.005	0.09	9.43			
PFM000097	Lake Water	0.5	Surface	2002-12-17 07:30	4426		46.3	3.84	51.0	8.3	146	59.2	30.4	8.83	-0.2	0.24	2.05			-0.004	0.10	7.38			
PFM000097	Lake Water	0.5	Surface	2003-01-15 07:30	4452		51.4	4.34	58.6	9.4	190	95.9	22.3	7.63	0.25	0.50	2.13	0.210	0.052	0.003	0.12	7.44			
PFM000097	Lake Water	0.5	Surface	2003-02-18 07:30	4499		35.4	3.60	65.2	7.5	198	61.5	22.6	8.05	-0.2	0.28	4.24			-0.004	0.11	7.07			
PFM000097	Lake Water	0.5	Surface	2003-03-18 07:30	4659		29.8	2.76	43.6	6.0	138	62.2	16.1	5.76	0.17	0.29	2.61			-0.004	0.08	6.96	47.1		0.006
PFM000097	Lake Water	0.5	Surface	2003-03-31 17:10	4719		35.4	2.67	41.8	6.7	131	61.1	19.2	7.02	0.14	0.23	1.70			-0.004	0.08	7.57	29.4		0.003
PFM000097	Lake Water	0.5	Surface	2003-04-23 07:00	4748		26.9	2.37	42.7	5.6	138	39.8	14.5	5.70	0.05	0.42	0.45			-0.004	0.08	8.16	40.7		0.002
PFM000097	Lake Water	0.5	Surface	2003-05-06 07:30	4777		23.7	2.38	39.5	5.3	122	33.6	13.5	5.53	0.12	0.23	0.36	0.048	0.003	0.002	0.07	8.42	47.1		0.004
PFM000097	Lake Water	0.4	Surface	2003-05-20 07:30	4803		22.3	2.25	39.4	5.2	123	37.1	15.2	5.12	0.10	0.24	0.07			-0.004	0.08	8.58	35.0		0.003
PFM000097	Lake Water	0.5	Surface	2003-06-03 07:00	4820		23.2	2.28	33.4	5.3	105	33.5	13.7	5.21	0.12	0.28	0.06			0.006	0.07	8.99	31.4		0.003
PFM000097	Lake Water	0.5	Surface	2003-06-17 07:00	4842		27.3	2.45	27.9	5.8	87.0	39.6	13.8	5.40	0.12	0.19	0.09			-0.004	0.07	9.40	86.0		0.004
PFM000097	Lake Water	0.5	Surface	2003-07-08 07:30	4870		32.5	2.56	22.4	6.2	74.0	49.4	14.3	5.68	0.19	0.25	0.11	0.052	0.005	-0.004	0.07	9.62	32.2		0.005
PFM000097	Lake Water	0.5	Surface	2003-08-05 07:00	4943		46.1	3.23	20.2	7.2	81.0	90.5	15.9	6.42	0.27	0.32	0.29			0.005	0.07	9.58	42.2		0.006
PFM000097	Lake Water	0.5	Surface	2003-09-02 06:30	4971		48.6	2.65	20.2	7.2	75.0	81.9	16.6	6.02	0.26	0.21	0.11			-0.004	0.07	9.26	42.2		0.004
PFM000097	Lake Water	0.5	Surface	2003-09-16 07:00	4999		56.5	2.76	22.8	8.5	82.0	96.7	21.0	7.64	0.26	0.19	0.04			0.004	0.08	9.22	49.5		0.004
PFM000097	Lake Water	0.5	Surface	2003-09-30 07:00	8025		71.0	3.19	24.9	9.9	83.0	128	24.6	8.33	0.39	-0.2	0.07			0.005	0.09	8.87	59.0		0.006
PFM000097	Lake Water	0.5	Surface	2003-11-13 06:30	8115		33.3	2.86	32.6	6.5	110	53.7	19.6	6.64	0.19	-0.2	0.32			-0.004	0.08	7.82	44.2		0.006
PFM000097	Lake Water	0.5	Surface	2003-12-17 08:00	8208		21.5	3.12	46.3	5.4	136	42.7	23.4	7.16	0.12	-0.2	2.09			-0.004	0.08	7.45	41.2		0.005
PFM000097	Lake Water	0.5	Surface	2004-01-13 07:00	8217		70.3	4.39	77.4	10.4	181	160	34.7	11.1	0.67	0.23	5.73	0.673	0.029	0.005	0.16	7.33	45.0		0.006
PFM000097	Lake Water	0.5	Surface	2004-02-11 07:00	8320		188	8.29	131	21.6	269	397	56.5	19.9	1.18	1.98	6.51			0.008	0.26	7.02	172		0.007
PFM000097	Lake Water	0.5	Surface	2004-03-16 07:00	8363		210	9.60	127	25.8	278	433	71.6	25.0	1.30	3.06	6.31			0.006	0.27	7.20	187		0.008
PFM000107	Lake Water	0.5	Surface	2002-04-01 09:30	4018		3.6	0.94	23.4	1.6	76.0	13.3	9.01	1.14	0.03	2.28			0.001	0.03	7.10	16.0			
PFM000107	Lake Water	1.4	Bottom	2002-04-01 10:00	4019		231	10.5	58.6	29.5	150	486	107	21.5	3.17	2.10			-	0.22	7.20	230			
PFM000107	Lake Water	0.5	Surface	2002-04-17 09:30	4058		91.6	4.81	46.6	12.5	120	182	26.1	9.22	0.52	0.37	2.49	0.158	0.017	0.004	0.11	8.00	81.0		
PFM000107	Lake Water	1.4	Bottom	2002-04-17 09:30	4059		89.8	4.91	46.9	12.4	110	179	25.7	9.25	0.58	0.39	2.50	0.153	0.015	0.004	0.11	8.00	80.0		
PFM000107	Lake Water	0.5	Surface	2002-05-06 12:00	4068		76.8	4.31	48.4	10.9	130	148	22.0	8.25	0.48	1.35			0.003	0.10	8.10	72.0			
PFM000107	Lake Water	1.5	Bottom	2002-05-06 12:00	4069		76.3	4.27	48.1	10.9	130	148	22.0	8.72	0.37	1.35			0.003	0.10	8.10	72.1			
PFM000107	Lake Water	0.5	Surface	2002-05-13 12:00	4096		70.6	4.38	48.8	10.6	130	141	21.2	8.33	0.54	0.94			0.003	0.10	8.40	70.3			
PFM000107	Lake Water	1.5	Bottom	2002-05-13 12:00	4097		70.4	4.36	48.7	10.6	130	141	21.1	8.34	0.58	0.94			0.003	0.10	8.40	70.4			
PFM000107	Lake Water	0.5	Surface	2002-05-27 08:30	4121		75.4	4.42	46.3	11.1	130	158	23.6	7.88	0.53	0.37			0.004	0.11	8.40	72.7			
PFM000107	Lake Water	1.5	Bottom	2002-05-27 08:30	4122		75.4	4.43	46.3	11.1	130	153	23.6	7.88	0.55	0.35			0.003	0.11	8.40	72.7			

lcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000107	Lake Water	0.5	Surface	2002-06-10 09:00	4151		88.3	5.04	48.6	12.2	130	165	23.6	9.28	0.53	0.29	0.64			0.004	0.12	8.70	76.5		0.006
PFM000107	Lake Water	1.0	Bottom	2002-06-10 09:00	4152		88.7	5.06	48.8	12.3	140	164	23.8	9.28	0.48	0.31	0.65			0.004	0.12	8.60	76.4		0.005
PFM000107	Lake Water	0.5	Surface	2002-06-24 09:00	4178		79.0	4.73	45.2	11.9	130	158	22.9	8.47	0.40	0.24	0.72			0.003	0.11	8.50	73.2	-0.03	0.016
PFM000107	Lake Water	1.0	Bottom	2002-06-24 09:00	4179		79.5	4.76	45.6	11.9	130	159	23.1	8.51	0.40	0.23	0.72			0.003	0.11	8.50	73.2	-0.03	0.011
PFM000107	Lake Water	0.5	Surface	2002-07-15 00:00	4206		65.0	4.02	42.9	9.5	120	117	19.4	7.61	0.44	0.33	0.95	0.075	0.008	0.003	0.10	8.60	62.2		0.007
PFM000107	Lake Water	1.0	Bottom	2002-07-15 00:00	4207		64.9	3.89	42.8	9.4	120	116	19.4	7.50	0.40	0.28	0.94	0.070	0.009	0.003	0.10	8.60	62.5		0.007
PFM000107	Lake Water	0.5	Surface	2002-08-12 00:00	4233		48.8	3.29	42.0	8.2	130	88.9	17.5	6.14	0.36	0.20	1.92	0.107	0.007	0.003	0.10	8.60	53.1		0.008
PFM000107	Lake Water	1.0	Bottom	2002-08-12 00:00	4234		47.7	3.35	42.2	7.8	130	83.2	16.9	6.12	0.25	0.32	1.92	0.111	0.007	0.003	0.10	8.60	53.0		0.009
PFM000107	Lake Water	1.0	Bottom	2002-09-02 07:30	4262		56.8	3.70	44.5	8.8	136	89.1	18.7	6.88	0.39	0.41	1.92			0.004	0.11				0.008
PFM000107	Lake Water	0.5	Surface	2002-09-02 07:30	4261		56.8	3.64	44.5	8.9	136	90.1	20.3	6.91	0.41	0.29	1.92			0.004	0.11				0.009
PFM000107	Lake Water	1.0	Bottom	2002-09-16 18:00	4289		55.3	3.70	43.0	9.3	139	96.1	18.8	6.95	0.40	0.36	1.55			0.004	0.10				0.010
PFM000107	Lake Water	0.5	Surface	2002-09-16 18:00	4288		55.5	3.67	43.0	9.3	139	94.5	19.1	6.95	0.39	0.40	1.55			0.004	0.10				0.010
PFM000107	Lake Water	1.0	Bottom	2002-09-30 07:30	4303		53.3	3.61	40.5	9.0	127	99.1	18.5	6.56	0.45	0.26	0.91			0.004	0.10	8.80			0.009
PFM000107	Lake Water	0.5	Surface	2002-09-30 07:30	4302		52.9	3.46	40.0	9.0	127	97.0	18.4	6.57	0.42	0.27	0.90			0.004	0.10	8.79			0.014
PFM000107	Lake Water	0.5	Surface	2002-11-12 08:00	4328		57.1	4.07	44.4	9.3	144	98.1	17.6	6.62	0.36	0.26	0.23	0.025	0.001	-0.004	0.11	8.33			0.009
PFM000107	Lake Water	0.5	Surface	2002-12-17 07:30	4420		16.6	2.84	57.1	4.9	152	40.1	27.5	9.19	0.08	0.26	4.66			-0.004	0.08	7.19			
PFM000107	Lake Water	1.0	Bottom	2002-12-17 07:30	4421		51.4	4.04	51.5	9.0	168	103	15.9	6.43	0.31	0.41	1.01			-0.004	0.11	7.51			
PFM000107	Lake Water	1.0	Bottom	2003-01-16 07:30	4447		43.6	3.84	52.0	8.1	171	84.2	20.0	6.75	0.19	0.26	1.97	0.210	0.053	0.003	0.10	7.41			
PFM000107	Lake Water	0.5	Surface	2003-01-16 07:30	4444		40.0	4.41	41.0	6.5	157	78.8	18.1	5.34	0.32	0.38	1.45	0.128	0.039	0.002	0.08	7.43			
PFM000107	Lake Water	0.5	Surface	2003-02-17 07:30	4487		19.8	3.09	67.7	5.6	197	24.7	19.8	7.34	-0.2	0.20	5.33			-0.004	0.10	6.93			
PFM000107	Lake Water	1.0	Bottom	2003-02-17 07:30	4488		42.1	4.20	67.0	8.3	203	70.5	20.1	7.68	0.23	0.43	3.50			-0.004	0.12	7.15			
PFM000107	Lake Water	0.5	Surface	2003-03-17 08:00	4639		25.0	2.85	55.3	5.8	190	46.7	14.0	5.90	0.17	0.27	3.28			-0.004	0.09	7.10	39.5		0.008
PFM000107	Lake Water	1.0	Bottom	2003-03-17 08:00	4640		46.5	4.45	66.6	9.0	221	87.5	19.3	7.19	0.28	0.26	3.25			-0.004	0.12	7.19	66.7		0.010
PFM000107	Lake Water	0.5	Surface	2003-04-01 07:30	4709		21.9	2.31	47.0	5.1	144	35.6	13.8	5.20	0.10	0.34	2.06			-0.004	0.08	7.75	42.3		0.004
PFM000107	Lake Water	1.0	Bottom	2003-04-01 07:35	4710		22.0	2.30	46.8	5.1	144	35.8	13.8	5.26	0.10	0.28	2.03			-0.004	0.08	7.85	37.3		0.004
PFM000107	Lake Water	0.5	Surface	2003-04-22 07:00	4745		22.8	2.20	45.0	5.1	140	38.8	14.0	5.40	0.02	0.35	1.09			-0.004	0.08	8.44	46.3		-0.001
PFM000107	Lake Water	0.5	Surface	2003-04-22 07:00	4746		22.8	2.23	45.1	5.1	139	34.0	14.0	5.35	0.05	0.22	1.10			-0.004	0.08	8.45	38.8		0.001
PFM000107	Lake Water	0.5	Surface	2003-05-04 16:00	4757		19.8	2.23	43.7	5.0	132	30.1	13.6	5.10	0.10	0.33	0.74	0.050	0.005	0.003	0.07	8.26	37.4		0.005
PFM000107	Lake Water	0.5	Surface	2003-05-19 07:30	4793		19.1	2.18	43.7	4.8	137			4.90	0.10		0.37			-0.004	0.07	8.39	35.4		0.003
PFM000107	Lake Water	0.5	Surface	2003-06-02 07:30	4823		20.0	2.20	41.2	4.9		26.7	12.2	4.92	0.11	0.28	0.22			-0.004	0.08	8.58	37.2		0.003
PFM000107	Lake Water	0.5	Surface	2003-06-16 07:00	4843		21.6	2.30	40.7	5.3	123	29.8	12.9	6.31	0.11	0.39	0.30			-0.004	0.08	8.85	35.7		0.006
PFM000107	Lake Water	0.5	Surface	2003-07-07 08:00	4866		22.5	2.28	35.1	5.4	111	33.5	13.4	5.16	0.15	0.27	0.31	0.047	0.003	-0.004	0.08	8.89	32.5		0.006
PFM000107	Lake Water	0.5	Surface	2003-08-04 08:00	4936		26.1	2.19	25.8	5.5	89	42.0	15.5	5.72	0.14	0.27	1.11			-0.004	0.08	9.28	35.4		0.007

Idcode	Water type	Depth m	Info	Date - time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L
PFM000107	Lake Water	0.5	Surface	2003-09-01 07:30	4944		27.7	2.31	23.8	5.4	77	41.7	15.1	5.56	0.14	0.19	0.38				-0.004	0.07	9.16	31.7	0.006
PFM000107	Lake Water	0.5	Surface	2003-09-15 08:00	4992		28.5	2.35	24.9	5.5	82	44.4	15.8	5.93	0.20	0.21	0.16				-0.004	0.07	9.16	33.1	0.008
PFM000107	Lake Water	0.5	Surface	2003-09-29 08:00	8022		27.5	2.21	26.5	5.6	88	44.1	16.6	5.71	0.19	-0.2	0.08				-0.004	0.07	7.97	32.5	0.009
PFM000107	Lake Water	0.5	Surface	2003-11-12 07:00	8106		24.1	2.56	33.6	5.4	104	37.1	17.1	5.81	0.16	-0.2	0.38				-0.004	0.08	7.53	34.8	0.006
PFM000107	Lake Water	0.5	Surface	2003-11-24 08:00	8131		21.6	2.65	37.1	5.2	111	34.1	17.7	6.14	0.14	0.21	0.78				-0.004	0.08	7.83	33.9	0.005
PFM000107	Lake Water	0.5	Surface	2004-01-13 07:00	8213		9.7	2.39	52.4	3.9	160	15.5	17.7	6.00	0.13	-0.2	4.71	0.262	0.048		0.002	0.07	7.08	35.1	0.009
PFM000107	Lake Water	0.5	Surface	2004-02-09 08:00	8304		12.8	2.78	57.2	4.5	181	19.9	15.7	5.44	0.08	-0.2	4.63				-0.004	0.08	7.23	38.0	0.009
PFM000107	Lake Water	1.0	Bottom	2004-02-09 08:00	8303		14.0	2.96	60.5	4.6	195	22.1	16.9	5.83	0.10	-0.2	4.25				-0.004	0.09	7.24	40.7	0.010
PFM000107	Lake Water	0.5	Surface	2004-03-15 08:00	8342		14.5	3.00	67.4	5.1	207	22.7	15.4	5.39	0.13	-0.2	5.21				-0.004	0.09	7.26	43.5	0.012
PFM000107	Lake Water	1.0	Surface	2004-03-15 08:00	8349		16.8	3.08	69.4	5.2	206	28.6	15.7	5.45	0.13	-0.2	4.86				-0.004	0.10	7.24	45.7	0.011
PFM000117	Lake Water	0.5	Surface	2002-04-01 11:00	4020		1.4	0.73	13.4	0.7	46	0.9	3.00	0.43			0.72				-	0.01	7.00	9.0	
PFM000117	Lake Water	1.5	Bottom	2002-04-01 11:45	4021		5.6	2.22	51.8	3.0	180	4.7	5.17	2.35	-0.2		3.71			0.001	0.06	7.50	32.0		
PFM000117	Lake Water	0.5	Surface	2002-04-16 09:15	4048		5.4	1.90	53.3	2.6	160	5.1	4.41	1.88	-0.06	0.58	3.43	0.074	0.049	0.001	0.05	8.10	28.0		
PFM000117	Lake Water	1.5	Bottom	2002-04-16 09:15	4049		5.6	1.90	53.3	2.5	160	3.9	4.15	1.82	-0.2	0.14	3.44	0.072	0.049	0.001	0.05	8.10	28.0		
PFM000117	Lake Water	0.5	Surface	2002-05-05 14:40	4079		5.2	1.77	51.9	2.6	150	4.0	4.23	2.08			2.14			0.001	0.05	8.30	27.4		
PFM000117	Lake Water	1.5	Bottom	2002-05-05 14:40	4082		6.5	2.23	51.5	2.6	150	5.8	4.59	2.21			2.10			0.001	0.05	8.30	27.4		
PFM000117	Lake Water	0.5	Surface	2002-05-13 14:40	4102		5.3	1.96	49.5	2.6	150	4.5	4.35	2.07	-0.2		1.67			0.001	0.05	8.30	26.8		
PFM000117	Lake Water	1.5	Bottom	2002-05-13 14:40	4103		5.2	1.95	49.9	2.6	150	4.0	4.28	2.06	-0.2		1.68			0.001	0.05	8.30	26.8		
PFM000117	Lake Water	0.5	Surface	2002-05-28 08:50	4129		5.5	1.84	46.1	2.8	140	7.9	4.70	1.88	-0.2		1.17			0.001	0.05	8.40	26.2		
PFM000117	Lake Water	1.5	Bottom	2002-05-28 08:50	4138		5.4	1.81	46.0	2.7	140	4.3	4.47	1.90	-0.2		1.18			0.001	0.05	8.40	26.2		
PFM000117	Lake Water	0.5	Surface	2002-06-11 09:00	4153		6.5	2.14	44.0	2.9	140	5.2	4.70	2.18	0.05	0.22	1.36			0.001	0.05	8.40	24.7	0.006	
PFM000117	Lake Water	1.5	Bottom	2002-06-11 09:00	4154		6.5	1.99	44.2	2.9	140	6.5	4.92	2.25	0.05	0.35	1.38			0.001	0.05	8.40	24.7	0.006	
PFM000117	Lake Water	0.5	Surface	2002-06-25 08:25	4190		5.8	2.07	40.3	2.8	120	8.3	5.15	2.00	0.06	0.36	1.61			0.001	0.05	8.40	22.6	0.006	
PFM000117	Lake Water	1.5	Bottom	2002-06-25 08:25	4191		5.8	1.99	40.6	2.8	120	8.6	5.06	2.04	0.03	0.17	1.62			0.001	0.05	8.40	22.6	0.006	
PFM000117	Lake Water	0.5	Surface	2002-07-16 00:00	4217		5.8	1.86	38.2	2.7	110	4.1	4.53	2.17	0.03	0.37	1.91	-0.003	0.011	0.001	0.05	8.40	21.6	0.006	
PFM000117	Lake Water	1.5	Bottom	2002-07-16 00:00	4218		5.9	1.91	39.2	2.7	110	4.2	4.53	2.18	0.03	0.36	2.01	0.014	0.011	0.001	0.05	8.40	21.7	0.006	
PFM000117	Lake Water	0.5	Surface	2002-08-13 08:00	4235		5.4	1.73	36.6	2.7	120	4.3	4.48	1.86	0.04	0.36	2.59	0.021	0.015	0.002	0.05	8.40	22.4	0.007	
PFM000117	Lake Water	1.5	Bottom	2002-08-13 08:00	4236		5.4	1.77	37.0	2.6	120	4.2	4.50	1.89	0.04	0.32	2.55	0.024	0.015	0.001	0.05	8.30	22.5	0.007	
PFM000117	Lake Water	1.5	Bottom	2002-09-03 07:30	4266		6.8	2.05	41.4	3.0	133	4.9	5.03	2.18	0.14	0.66	3.37			0.001	0.06			0.008	
PFM000117	Lake Water	0.5	Surface	2002-09-03 07:30	4265		6.8	1.98	41.0	2.9	129	4.7	4.65	2.15	0.09	0.56	3.38			0.001	0.06			0.008	
PFM000117	Lake Water	1.5	Bottom	2002-09-17 18:00	4283		6.1	1.89	38.3	2.9	128	4.9	4.75	2.11	0.06	0.35	3.39			0.001	0.05			0.008	
PFM000117	Lake Water	0.5	Surface	2002-09-17 18:00	4282		6.0	1.92	38.3	2.9	128	8.3	5.14	2.11	0.10	0.27	3.42			0.001	0.05			0.008	
PFM000117	Lake Water	0.5	Surface	2002-10-01 07:30	4298		5.9	1.91	37.0	2.9	122	4.2	4.48	1.96	0.05	0.26	3.12			0.002	0.05	8.60		0.009	

lcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000117	Lake Water	1.5	Bottom	2002-10-01 07:30	4299		5.5	1.61	33.4	2.6	121	4.1	4.33	2.04	0.05	0.16	3.12			0.002	0.05	8.60			0.008
PFM000117	Lake Water	0.5	Surface	2002-12-17 07:30	4412		6.3	2.04	44.0	3.0	137	5.8	6.60	2.64	-0.2	0.28	2.92			-0.004	0.06	8.11			
PFM000117	Lake Water	1.5	Bottom	2002-12-17 07:30	4413		6.2	2.08	51.9	3.0	168	4.9	6.32	2.57	-0.2	0.35	3.28			-0.004	0.06	7.87			
PFM000117	Lake Water	1.5	Bottom	2003-01-15 07:30	4451		6.8	2.31	53.5	3.3	185	9.3	6.90	2.67	-0.2	0.27	3.65	0.030	0.047	0.001	0.06	7.65			
PFM000117	Lake Water	0.5	Surface	2003-01-15 07:30	4440		7.4	2.46	52.3	3.5	170	5.5	5.74	2.59	-0.2	0.27	3.59	0.010	0.005	0.001	0.07	8.00			
PFM000117	Lake Water	0.5	Surface	2003-02-18 07:30	4491		7.2	2.42	56.0	3.2	167	7.0	11.5	4.38	-0.2	0.26	4.15			-0.004	0.06	7.14			
PFM000117	Lake Water	1.5	Bottom	2003-02-18 07:30	4492		7.6	2.44	59.4	3.3	189	5.2	7.98	3.13	0.2	0.18	4.01			-0.004	0.06	7.39			
PFM000117	Lake Water	0.5	Surface	2003-03-18 07:30	4655		4.7	1.64	37.7	2.1	127	5.2	6.60	2.03	0.03	0.31	2.36			-0.004	0.04	7.08	31.5		0.006
PFM000117	Lake Water	1.5	Bottom	2003-03-18 07:30	4656		6.9	2.46	58.5	3.3	191	5.4	7.66	3.10	0.02	0.27	3.67			-0.004	0.06	7.39	40.8		0.008
PFM000117	Lake Water	0.5	Surface	2003-04-22 07:00	4733		5.8	1.76	47.2	2.6	144	4.6	6.61	2.69	0.03	0.11	1.91			-0.004	0.05	8.36	42.9		0.006
PFM000117	Lake Water	0.5	Surface	2003-04-22 07:00	4734		5.8	1.70	47.2	2.6	149	4.8	6.74	2.68	0.03	-0.2	1.91			-0.004	0.05	8.44	29.9		0.005
PFM000117	Lake Water	0.5	Surface	2003-05-06 07:30	4774		5.4	1.65	44.3	2.6	140	3.9	5.92	2.63	0.01	0.22	1.15	0.027	0.011	0.001	0.05	8.26	22.8		0.006
PFM000117	Lake Water	0.5	Surface	2003-05-20 07:30	4797		5.9	1.68	43.7	2.6	147	5.2	7.07	2.72	0.03	0.20	0.42			-0.004	0.05	8.37	25.9		0.004
PFM000117	Lake Water	0.5	Surface	2003-06-03 07:00	4825		5.9	1.67	41.0	2.6	127	4.2	5.77	2.60	0.02	0.22	0.16			-0.004	0.05	8.48	26.2		0.003
PFM000117	Lake Water	0.5	Surface	2003-06-17 07:00	4847		6.2	1.71	38.9	2.7	120	4.3	5.88	2.65	0.02	0.23	0.18			-0.004	0.05	8.60	23.3		0.005
PFM000117	Lake Water	0.5	Surface	2003-07-08 07:30	4867		6.0	1.75	35.6	2.7	117	4.4	5.92	2.53	0.01	0.20	0.40	0.007	0.001	-0.004	0.05	8.68	21.4		0.005
PFM000117	Lake Water	0.5	Surface	2003-08-05 07:00	4942		6.5	1.79	26.9	2.6	96	4.7	6.03	2.67	0.03	0.20	1.83			-0.004	0.05	8.77	21.4		0.006
PFM000117	Lake Water	0.5	Surface	2003-09-02 06:30	4975		6.5	1.81	27.1	2.6	92	5.1	5.82	2.41	0.03	-0.2	1.91			-0.004	0.05	8.56	18.1		0.006
PFM000117	Lake Water	0.5	Surface	2003-09-16 07:00	4976		6.7	1.85	27.0	2.6	91	4.9	5.81	2.46	0.04	0.16	1.78			-0.004	0.05	8.65	19.0		0.007
PFM000117	Lake Water	0.5	Surface	2003-09-30 07:00	8027		6.6	1.79	28.8	2.7	97	5.3	6.00	2.32	0.02	-0.2	1.48			-0.004	0.05		19.2		0.007
PFM000117	Lake Water	0.5	Surface	2003-11-13 06:30	8112		6.2	1.89	34.2	2.7	110	5.3	7.07	2.70	0.05	-0.2	1.29			-0.004	0.05	7.95	24.0		0.006
PFM000117	Lake Water	1.5	Surface	2003-12-16 08:00	8189		6.3	2.01	41.6	2.7	124	5.3	8.85	3.34	0.04	-0.2	2.02			-0.004	0.05	7.82	24.5		0.005
PFM000117	Lake Water	1.5	Bottom	2003-12-16 08:00	8197		6.4	2.02	42.0	2.8	129	5.6	9.14	3.46	0.03	-0.2	2.01			-0.004	0.05	7.85	24.7		0.005
PFM000117	Lake Water	0.5	Surface	2004-01-14 07:00	8210		6.0	1.97	42.3	2.7	136	5.9	9.71	3.53	0.07	-0.2	2.33	0.030	0.007	0.001	0.05	7.75	26.5		0.006
PFM000117	Lake Water	0.5	Surface	2004-02-11 07:00	8309		6.2	2.15	45.8	2.9	147	6.5	11.9	4.17	0.04	-0.2	3.51			-0.004	0.05	7.25	29.7		0.009
PFM000117	Lake Water	1.5	Bottom	2004-02-11 07:00	8323		6.0	2.05	55.0	2.8	182	6.5	10.3	3.69	0.02	-0.2	3.56			-0.004	0.06	7.34	32.4		0.007
PFM000117	Lake Water	1.5	Surface	2004-03-16 07:00	8352		6.9	2.18	60.6	3.1	193	7.0	10.4	3.65	0.04	-0.2	3.59			-0.004	0.06	7.41	35.3		0.009
PFM000117	Lake Water	0.5	Surface	2004-03-16 07:00	8353		7.2	2.38	57.0	3.3	181	7.3	11.2	3.87	0.05	-0.2	3.34			-0.004	0.06	7.34	33.7		0.010
PFM000127	Lake Water	0.5	Surface	2002-05-27 17:00	4132		18.1	3.13	34.5	5.7	120	30.2	14.6	5.04	0.06		0.12			0.004	0.07	8.50	30.8		
PFM000127	Lake Water	1.0	Bottom	2002-05-27 17:00	4133		18.0	3.11	34.3	5.7	110	21.8	13.2	5.03	-0.2		0.13			0.004	0.08	8.50	30.7		
PFM000127	Lake Water	0.5	Surface	2002-06-10 20:08	4163		23.8	3.80	29.6	6.3	110	28.2	16.3	6.71	0.26	0.38	0.91			0.004	0.07	8.50	29.7		0.010
PFM000127	Lake Water	1.0	Bottom	2002-06-10 20:08	4164		23.7	3.78	29.2	6.3	100	28.1	16.4	6.63	-0.2	0.50	0.88			0.004	0.08	8.60	29.8		0.010
PFM000127	Lake Water	0.5	Surface	2002-06-24 20:20	4162		20.4	3.37	28.6	5.8	89	25.6	14.5	5.75	0.11	0.23	1.03			0.003	0.07	8.60	28.6		0.024

Idcode	Water type	Depth m	Info	Date - time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L (lab)	pH mg/L (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L
PFM000127	Lake Water	1.0	Bottom	2002-06-24 20:20	4177		20.4	3.37	29.2	5.8	93	24.9	14.7	5.73	0.09	0.29	1.05			0.004	0.07	8.50	28.9		0.011
PFM000127	Lake Water	0.5	Surface	2002-07-15 00:00	4215		21.5	3.38	29.6	5.6	97	26.6	14.5	5.96	0.18	0.38	1.19	0.060	0.011	0.004	0.07				0.010
PFM000127	Lake Water	1.0	Bottom	2002-07-15 00:00	4216		21.4	3.29	30.2	5.8	97	29.9	14.9	5.98	0.15	0.37	1.19	0.037	0.011	0.004	0.07	8.60	29.0		0.009
PFM000127	Lake Water	0.5	Surface	2002-08-12 19:40	4232		21.0	3.21	30.3	5.9	110	45.8	16.2	5.41	0.20	0.42	2.26	0.062	0.015	0.004	0.08	8.30	30.6		0.011
PFM000127	Lake Water	1.0	Bottom	2002-08-12 19:40	4241		21.0	3.00	30.6	5.7	110	27.8	14.1	5.42	0.18	0.35	2.25	0.066	0.014	0.005	0.08	8.80	30.6		0.011
PFM000127	Lake Water	1.1	Bottom	2002-09-01 17:00	4248		28.2	3.75	36.3	6.9	133	31.8	15.4	6.18	0.20	0.22	2.91			0.006	0.10				0.013
PFM000127	Lake Water	0.5	Surface	2002-09-01 17:00	4247		27.7	3.68	36.1	6.7	128	33.3	15.5	6.12	0.20	0.63	2.90			0.005	0.07				0.013
PFM000127	Lake Water	1.0	Bottom	2002-09-16 18:00	4291		28.1	3.76	35.0	7.2	134	36.4	15.2	5.18	0.20	0.37	2.16			0.005	0.10				0.012
PFM000127	Lake Water	0.5	Surface	2002-09-16 18:00	4290		28.0	3.73	34.7	7.2	138	36.3	15.1	6.03	0.22	0.41	2.17			0.005	0.10				0.015
PFM000127	Lake Water	0.5	Surface	2002-09-30 07:30	4296		25.3	3.17	30.7	6.4	127	36.4	14.0	5.64	0.23	0.57	1.12			0.006	0.08	8.55			0.021
PFM000127	Lake Water	1.0	Bottom	2002-09-30 07:30	4297		28.0	3.70	34.6	7.2	126	36.4	13.9	5.28	0.24	0.35	1.11			0.006	0.09	8.58			0.017
PFM000127	Lake Water	0.5	Surface	2003-09-02 06:30	4966		31.4	3.65	21.9	6.2	81	43.2	19.0	7.00	0.20	-0.2	2.82			0.004	0.07	9.17	35.3		0.017
PFM000127	Lake Water	0.5	Surface	2003-09-16 07:00	4977		32.7	3.76	23.1	6.5	87	45.7	19.1	7.16	0.22	0.16	1.89			0.005	0.08	9.08	34.7		0.018
PFM000127	Lake Water	0.5	Surface	2003-09-30 07:00	8033		32.0	3.71	25.4	6.7	98	46.6	18.8	6.68	0.18	0.22	0.90			0.006	0.08	8.15	35.2		0.017
PFM000127	Lake Water	1.0	Surface	2003-10-27 07:00	8053		33.1	3.95	29.6	7.1	113	46.8	17.8	6.64	0.23	-0.2	0.23	0.020	0.001	0.006	0.09	8.33	36.9		0.018
PFM000127	Lake Water	1.0	Surface	2003-10-27 07:00	8054		33.1	3.94	29.5	7.1	113	46.7	17.8	6.68	0.24	-0.2	0.23	0.010	0.001	0.005	0.09	8.33	37.0		0.018
PFM000127	Lake Water	0.5	Surface	2003-11-13 06:30	8110		28.9	3.71	31.9	6.5	116	39.9	16.1	5.73	0.20	-0.2	0.19			0.004	0.09	7.92	43.2		0.015
PFM000127	Lake Water	0.5	Surface	2003-11-24 08:00	8134		28.0	3.76	35.5	6.5	132	39.2	16.8	5.90	0.19	-0.2	0.31			-0.004	0.09	7.85	37.8		0.013
PFM000135	Lake Water	0.5	Surface	2002-03-19 15:30	4006		7.0	3.02	52.2	3.8	160	7.5	12.1	4.75	-0.2		5.78			-	0.07	7.00	31.0		
PFM000135	Lake Water	0.5	Surface	2002-12-17 07:30	4414		27.0	4.47	58.0	7.3	193	36.5	20.9	7.73	-0.2	0.25	1.38			0.004	0.11	7.52			
PFM000135	Lake Water	0.5	Surface	2003-01-15 07:30	4443		33.7	5.43	72.2	9.0	281	49.3	22.8	7.04	0.08	0.29	1.87	0.290	0.129	0.006	0.14	7.50			
PFM000135	Lake Water	0.5	Surface	2003-08-05 07:00	4941		32.0	3.89	19.1	6.4	85	45.7	20.9	8.40	0.21	0.24	3.43			0.009	0.08	9.40	34.3		0.015
PFM000135	Lake Water	0.5	Surface	2003-12-16 08:00	8196		28.8	4.05	47.7	6.9	155	38.8	21.0	7.42	0.16	-0.2	1.14			-0.004	0.10	7.79	41.9		0.013
PFM000135	Lake Water	0.5	Surface	2004-01-14 07:00	8230		21.9	4.06	61.5	6.5	207	33.0	32.8	10.5	0.22	0.21	4.57	0.318	0.11	0.004	0.10	7.14	49.2		0.016
PFM000135	Lake Water	0.5	Surface	2004-02-09 08:00	8306		28.8	5.25	68.0	8.0	231	42.4	33.1	10.8	0.21	-0.2	5.14			0.008	0.13	7.05	54.7		0.019
PFM000135	Lake Water	1.0	Bottom	2004-02-09 08:00	8307		28.0	5.16	73.6	8.2	243	40.9	36.9	12.2	0.20	-0.2	5.99			0.008	0.13	7.00	56.3		0.020
PFM000135	Lake Water	0.5	Surface	2004-03-17 07:00	8360		33.4	5.39	83.4	9.2	276	48.6	31.1	10.4	0.24	-0.2	3.89			0.005	0.15	7.37	65.2		0.026
PFM000135	Lake Water	1.0	Surface	2004-03-17 07:00	8361		34.1	5.60	91.9	9.8	301	49.7	33.4	10.9	0.25	0.23	4.96			0.006	0.16	7.38	67.3		0.008
PFM000151	Lake Water	0.5	Surface	2002-04-02 12:40	4033		3.9	1.34	28.7	1.5	100	6.1	2.35	1.08	-0.2		2.16			-	0.03	7.40	19.0		
PFM000151	Lake Water	0.5	Surface	2002-04-16 16:31	4052		4.8	2.20	59.1	2.8		4.1	4.05	1.72	-0.2	0.14	3.93	0.068	0.008	0.002	0.06				
PFM000151	Lake Water	0.5	Surface	2002-05-12 19:00	4090		6.4	2.53	68.0	3.3	200	6.3	4.15	2.05	-0.08		3.54			0.002	0.07	7.90	36.1		
PFM000151	Lake Water	0.5	Surface	2002-05-26 12:00	4111		8.3	2.31	65.9	3.8	200	8.1	3.83	1.81	0.02		3.73			0.002	0.08	7.70	38.0		
PFM000062	Sea Water	0.5	Surface	2002-05-07 08:51	4076		1460	54.7	76.0	182	75	2981	365	132	8.88		0.23			0.027	1.03	8.00	883		

lcode	Water type	Depth Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000062	Sea Water	3.0 Bottom	2002-05-07 08:51	4081		1450	54.5	75.9	181	75	2883	352	131	10.58		0.23			0.027	1.03	8.10	881		
PFM000062	Sea Water	0.5 Surface	2002-05-14 07:30	4110		1440	54.6	76.0	182	74	2748	362	129	10.1		0.20			0.027	1.03	8.00	890		
PFM000062	Sea Water	3.5 Bottom	2002-05-14 07:30	4109		1440	54.6	75.4	181	74	2786	365	128	10.5		0.20			0.027	1.03	8.00	889		
PFM000062	Sea Water	0.5 Surface	2002-05-27 13:49	4120		1590	51.8	70.4	182	72	2736	366	116	8.66		0.09			0.030	1.15	8.00	887		
PFM000062	Sea Water	3.0 Bottom	2002-05-27 13:49	4127		1590	52.2	69.9	182	69	2730	370	116	12.1		0.09			0.031	1.03	8.00	888		
PFM000062	Sea Water	0.5 Surface	2002-06-10 13:00	4145		1490	53.7	73.0	189	75	2692	381	126	9	0.21	0.15			0.026	1.09	8.00	882		0.006
PFM000062	Sea Water	3.0 Bottom	2002-06-10 13:00	4146		1490	53.5	72.2	187	76	2694	380	124	9.00	0.32	0.15			0.026	1.09	7.90	880		0.006
PFM000062	Sea Water	0.5 Surface	2002-06-24 13:50	4184		1400	52.3	68.3	180	70	2602	365	118	8.80	0.27	0.26			0.023	1.01	7.90	858		0.008
PFM000062	Sea Water	3.0 Bottom	2002-06-24 13:50	4185		1400	51.8	67.6	179	70	2610	357	119	8.90	0.21	0.27			0.022	1.00	7.90	858		0.014
PFM000062	Sea Water	0.5 Surface	2002-07-15 13:15	4198		1455	56.0	71.7	184	71	2616	363	124	8.50	0.31	0.23	-0.004	0.005	0.024	1.03	8.10	857		0.007
PFM000062	Sea Water	3.0 Bottom	2002-07-15 13:15	4199		1430	53.0	75.8	189		2636	368	125	8.20	0.43	0.15	0.008	0.004	0.013	1.03	8.00	856	0.02	0.022
PFM000062	Sea Water	0.5 Surface	2002-08-12 09:04	4229		1430	51.6	66.6	165	70	2465	344	112	8.70	0.48	0.66	0.017	0.009	0.032	0.99	7.90	807		0.007
PFM000062	Sea Water	3.0 Bottom	2002-08-12 09:04	4230		1410	50.1	66.6	164	70	2476	349	111	7.80	0.16	0.63	0.013	0.006	0.029	0.98	8.00	807		0.008
PFM000062	Sea Water	0.5 Surface	2002-09-02 07:30	4253		1480	51.9	68.2	171	63	2335	367	119	9.60	0.58	0.44			0.031	1.03				0.007
PFM000062	Sea Water	3.0 Bottom	2002-09-02 07:30	4254		1500	52.2	68.4	172	83	2396	366	119	9.20	0.32	0.42			0.003	1.04				0.009
PFM000062	Sea Water	0.5 Surface	2002-09-16 18:00	4280		1500	52.7	68.2	185		2610	362	115	7.70	0.47	0.46			0.022	1.02				0.009
PFM000062	Sea Water	3.0 Bottom	2002-09-16 18:00	4281		1490	52.5	67.9	184	80	2602	362	113	7.30	0.26	0.47			0.022	1.01				0.010
PFM000062	Sea Water	0.5 Surface	2002-09-30 07:30	4306		1440	50.0	67.7	182	72	2632	328	128	9.30		0.47			0.035	1.00	8.06			0.007
PFM000062	Sea Water	3.0 Bottom	2002-09-30 07:30	4307		1520	53.4	71.0	191	72	2620	325	126	9.20		0.47			0.035	1.06	8.05			0.008
PFM000062	Sea Water	0.5 Surface	2002-10-21 13:00	4333		1490	51.3	68.7	181	83	2657	369	119	9.73	-0.2	0.45	-0.000	0.001	0.027	1.02	7.97			0.007
PFM000062	Sea Water	3.0 Bottom	2002-10-21 13:00	4322		1490	51.0	68.3	180	74	2628	364	120	9.50	0.52	0.44	-0.000	0.001	0.030	1.02	8.07			0.010
PFM000062	Sea Water	0.5 Surface	2002-11-11 08:00	4360		1480	53.7	69.1	185	75	2683	385	116	9.10		0.50			0.023	1.04	8.01			0.009
PFM000062	Sea Water	3.0 Bottom	2002-11-11 08:00	4359		1500	53.4	69.4	186	74	2668	391	118	9.20		0.52			0.023	1.05	7.97			0.009
PFM000062	Sea Water	0.5 Surface	2002-11-25 08:00	4383		1340	49.1	63.5	164	74	2610	361	115	8.64	-0.2	0.50			-0.004	0.98	7.95			0.007
PFM000062	Sea Water	3.0 Bottom	2002-11-25 08:00	4382		1340	49.0	63.6	164	74	2591	365	115	9.10	0.19	0.49			0.007	0.98	7.96			0.008
PFM000062	Sea Water	0.5 Surface	2002-12-16 08:00	4418		1470	54.3	70.7	182	73	2669	485	118	12.3	-0.2	0.64			0.021	1.04	8.10			0.010
PFM000062	Sea Water	3.0 Bottom	2002-12-16 08:00	4419		1470	54.4	70.7	182	72	2620	371	119	9.34	0.12	0.67			0.022	1.04	8.16			0.007
PFM000062	Sea Water	0.5 Surface	2003-04-22 07:00	4741		1470	55.8	70.3	177	77	2710	376	122	7.95	-0.2	0.31			0.022	1.05	8.08	899		0.008
PFM000062	Sea Water	3.0 Bottom	2003-04-22 07:00	4742		1470	56.2	70.2	177	77	2710	370	121	8.20	0.36	0.30			0.022	1.05	8.08	905		0.009
PFM000062	Sea Water	0.5 Surface	2003-05-05 07:30	4763		1480	54.2	71.0	185	77	2710	383	125	8.91	-0.2	0.20	0.045	0.038	0.024	1.06	7.99	905		0.010
PFM000062	Sea Water	3.0 Bottom	2003-05-19 07:30	4790		1530	58.3	73.3	184	79	2730	418	130	8.30	-0.2	0.20			0.025	1.12	8.07	914		0.007
PFM000062	Sea Water	0.5 Surface	2003-06-02 07:30	4816		1530	58.3	72.8	184	78	2750	375	129	8.27	0.32	0.20			0.025	1.11	7.97	898		0.007
PFM000062	Sea Water	3.0 Bottom	2003-06-16 07:00	4854		1590	60.7	78.6	200	78	2740	369	142	7.33	-0.2	0.23			0.027	1.18	8.01	901		0.005

Icocode	Water type	Depth m	Info	Date - time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L
PFM000062	Sea Water	0.5	Surface	2003-07-07 08:00	4864		1420	52.7	68.9	173	74	2660	369	129	7.71	-0.2	0.26	0.004	0.002	0.022	1.05	7.79	856		0.008
PFM000062	Sea Water	0.5	Surface	2003-08-04 08:00	4934		1450	53.2	70.6	176	75	2740	391	127	8.20	-0.2	0.45			0.026	1.09	7.85	888		0.009
PFM000062	Sea Water	0.5	Surface	2003-09-01 07:30	4946		1430	52.3	69.3	166	74	2650	376	115	8.70	-0.2	0.37			0.022	1.03	7.95	856		0.009
PFM000062	Sea Water	0.5	Surface	2003-09-15 08:00	4991		1480	54.2	72.9	174	76	2730	386	121	8.59	-0.2	0.47			0.025	1.10	7.89	881		0.010
PFM000062	Sea Water	0.5	Surface	2003-09-29 08:00	8028		1480	53.9	72.8	178	73	2760	388	121	9.74	-0.2	0.45			0.025	1.08	7.36	879		0.012
PFM000062	Sea Water	0.5	Surface	2003-10-28 07:00	8048		1490	55.2	75.2	183	78	2760	389	126	8.52	-0.2	0.41	0.010		0.026	1.13	7.73	880		0.011
PFM000062	Sea Water	0.5	Surface	2003-11-12 07:00	8116		1550	56.8	77.6	188	77	2810	394	124	8.59	-0.2	0.38			0.025	1.14	7.77	904		0.009
PFM000062	Sea Water	0.5	Surface	2003-11-25 07:00	8136		1510	56.1	76.9	186	78	2770	392	122	8.76	-0.2	0.43			0.025	1.12	7.81	911		0.009
PFM000062	Sea Water	0.5	Surface	2003-12-15 08:00	8194		1470	55.0	76.0	174	75	2730	388	124	8.51	-0.2	0.61			0.024	1.09	7.78	883		0.009
PFM000062	Sea Water	0.5	Surface	2004-01-13 07:00	8218		1450	55.7	77.2	175	79	2770	401	128	9.55	-0.2	0.67	0.010		0.023	0.95	7.69	891		0.013
PFM000063	Sea Water	0.5	Surface	2002-05-07 12:00	4083		1400	52.8	74.5	175	77	2800	342	126	8.69		0.22			0.026	1.00	8.00	855		
PFM000063	Sea Water	4.5	Bottom	2002-05-07 12:00	4084		1420	53.2	75.0	177	75	2834	347	128	9.54		0.27			0.027	1.01	8.00	866		
PFM000063	Sea Water	0.5	Surface	2002-05-14 08:00	4105		1390	52.9	74.0	175	74	2654	346	124	10.4		0.13			0.026	1.00	8.00	869		
PFM000063	Sea Water	4.5	Bottom	2002-05-14 08:00	4106		1420	54.0	74.5	179	74	2691	358	127	9.98		0.18			0.027	1.02	8.00	884		
PFM000063	Sea Water	0.5	Surface	2002-05-27 14:30	4130		1600	52.6	70.5	183	74	2741	377	117	9.44		0.12			0.024	1.04	8.00	893		
PFM000063	Sea Water	4.5	Bottom	2002-05-27 14:30	4131		1590	52.3	70.0	181	72	2732	382	116	9.24		0.17			0.031	1.03	7.90	892		
PFM000063	Sea Water	0.5	Bottom	2002-06-10 14:15	4155		1520	54.8	74.7	193	80	2760	402	128	9.00	0.67	0.28			0.028	1.11	8.00	902		0.008
PFM000063	Sea Water	4.5	Surface	2002-06-10 14:15	4156		1510	54.5	73.7	191	80	2743	394.04	126	7.70	0.34	0.35			0.027	1.09	7.90	898		0.008
PFM000063	Sea Water	0.5	Surface	2002-06-24 14:42	4182		1420	53.0	73.1	187	72	2587	359	123	8.80	0.32	0.34			0.024	1.03	7.80	860		0.015
PFM000063	Sea Water	4.5	Bottom	2002-06-24 14:42	4183		1410	52.4	66.9	180		2522	367	118	7.50	0.32	0.35			0.020	1.01	7.80	868		0.018
PFM000063	Sea Water	0.5	Surface	2002-07-15 14:20	4194		1450	55.1	72.2	184	72	2627	366	122	8.80	0.22	0.36	0.028		0.025	1.02	8.00	853		
PFM000063	Sea Water	4.5	Bottom	2002-07-15 14:20	4195		1480	56.0	72.8	186	72	2613	370	124	8.40	0.22	0.45	0.036	0.011	0.024	1.03	7.80	860		
PFM000063	Sea Water	0.5	Surface	2002-08-12 10:30	4227		1473	52.7	68.5	170	74	2573	364	115	8.90	0.27	0.67	0.030	0.007	0.029	1.02	8.00	834		0.008
PFM000063	Sea Water	4.5	Bottom	2002-08-12 10:30	4228		1513	54.0	70.2	174	77	2592	368	118	9.00	0.48	1.69	0.063	0.052	0.031	1.04	7.50	843		0.008
PFM000063	Sea Water	4.5	Bottom	2002-09-02 07:30	4258		1500	52.2	68.7	172	76	2408	373	118	9.40	0.11	0.56			0.031	1.04				0.008
PFM000063	Sea Water	0.5	Surface	2002-09-02 07:30	4257		1500	51.8	68.7	171	81	2376	369	119	8.90	0.59	0.58			0.031	1.04				0.009
PFM000063	Sea Water	0.5	Surface	2002-09-16 18:00	4274		1510	53.9	70.9	174	80	2614	371	130	7.70	0.26	0.57			0.025	1.01				0.009
PFM000063	Sea Water	4.5	Bottom	2002-09-16 18:00	4275		1520	52.9	69.0	187	80	2628	372.03	130	7.70	0.21	0.54			0.024	1.03				0.010
PFM000063	Sea Water	0.5	Surface	2002-09-30 07:30	4304		1440	50.4	67.9	183	73	2648	344	127	9.10	0.28	0.43			0.038	1.00	8.10			0.007
PFM000063	Sea Water	4.5	Bottom	2002-09-30 07:30	4305		1480	51.1	68.6	185	73	2608	349	128	9.10		0.41			0.038	1.02				0.007
PFM000063	Sea Water	0.5	Surface	2002-10-21 13:00	4324		1500	51.2	68.9	181	70	2610	360	120	9.80	0.35	0.38	0.000	0.001	0.028	1.02	7.97			0.009
PFM000063	Sea Water	4.5	Bottom	2002-10-21 13:00	4321		1480	50.4	67.7	178	71	2636	366	119	9.50	1.04	0.37	0.000	0.001	0.035	1.00	7.88			0.007
PFM000063	Sea Water	4.5	Bottom	2002-11-11 08:00	4357		1480	53.2	68.5	182	75	2626	385	116	9.30	0.46	0.36			0.023	1.03	7.97			0.009

Idcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000063	Sea Water	0.5	Surface	2002-11-11 08:00	4358		1470	53.7	69.0	183	75	2664	383	116	8.90	0.20	0.36			0.024	1.03	7.90			0.009
PFM000063	Sea Water	4.5	Bottom	2002-11-25 08:00	4381		1330	48.5	63.3	163	74	2614	363	115	9.81	0.24	0.45			0.028	0.97	8.06			
PFM000063	Sea Water	0.5	Surface	2002-11-25 08:00	4380		1330	48.3	63.2	162	74	2615	363	115	8.69	-0.2	0.45			0.024	0.97	7.90			
PFM000063	Sea Water	0.5	Surface	2002-12-16 08:00	4410		1470	52.5	71.2	182	78	2676	387	119	9.67	-0.2	0.60			0.020	1.04	7.94			
PFM000063	Sea Water	4.3	Bottom	2002-12-16 08:00	4411		1460	53.5	72.2	182	80	2680	380	118	10.3	-0.2	0.64			0.022	1.04	7.92			
PFM000063	Sea Water	0.5	Surface	2003-01-14 07:30	4445		1410	53.0	71.3	173	79	2613	375	118	9.01	0.32	0.91	0.020	0.009	0.029	1.02	7.75			
PFM000063	Sea Water	1.0	Bottom	2003-01-14 07:30	4450		1450	55.2	72.2	179	82	2724	381	122	9.10	0.13	0.86	0.012	0.012	0.030	1.05	7.65			
PFM000063	Sea Water	0.5	Surface	2003-02-17 07:30	4493		848	32.4	64.5	99.5	101	1475	219	77.2	4.77	-0.2	2.89			0.016	0.65	7.43			
PFM000063	Sea Water	4.5	Bottom	2003-02-17 07:30	4494		1310	49.3	70.1	158	86	2632	359	113	8.63	0.55	1.27			0.020	0.96	7.36			
PFM000063	Sea Water	0.5	Surface	2003-03-17 08:00	4641		951	36.1	61.7	113	91	1620	230	85.4	6.08	0.13	1.72			0.015	0.70	7.33	538		0.010
PFM000063	Sea Water	4.33	Bottom	2003-03-17 08:00	4642		1450	54.5	72.2	173	84	2550	355	122	8.70	0.20	1.03			0.022	1.01	7.50	798		0.011
PFM000063	Sea Water	0.5	Surface	2003-04-22 07:00	4737		1430	52.4	69.5	171	76	2590	359	118	7.10	0.45	0.15			0.020	1.01	7.97	864		0.007
PFM000063	Sea Water	0.5	Surface	2003-04-22 07:00	4738		1440	54.1	69.9	173	77	2634	357	120	7.15	0.21	0.19			0.022	1.03	8.05	878		0.007
PFM000063	Sea Water	0.5	Surface	2003-05-05 07:30	4759		1450	52.5	70.3	180	191	2610	367	122	8.32	-0.2	0.23	0.120	0.013	0.023	1.03	7.64	882		0.010
PFM000063	Sea Water	0.5	Surface	2003-05-19 07:30	4789		1500	57.0	73.0	181	81	2700	415	128	9.38	-0.2	0.23			0.025	1.10	7.88	902		0.009
PFM000063	Sea Water	0.5	Surface	2003-06-02 07:30	4814		1530	58.0	73.3	183	81	2730	434	130	9.38	0.58	0.25			0.024	1.12	7.90	893		0.008
PFM000063	Sea Water	0.5	Surface	2003-06-16 07:00	4851		1590	60.6	79.3	200	79	2750	369	141	7.39	-0.2	0.27			0.026	1.18	8.03	897		0.006
PFM000063	Sea Water	0.5	Surface	2003-07-07 08:00	4862		1450	53.9	70.4	177	76	2660	375	126	8.76	-0.2	0.28	0.012	0.001	0.023	1.07	8.06	868		0.009
PFM000063	Sea Water	0.5	Surface	2003-08-04 08:00	4937		1410	51.1	68.2	170	76	2680	379	126	8.56	-0.2	0.67			0.025	1.06	8.02	868		0.010
PFM000063	Sea Water	0.5	Surface	2003-09-01 07:30	4945		1430	52.4	70.0	167	74	3020	375	116	8.79	-0.2	0.46			0.022	1.05	7.95	860		0.010
PFM000063	Sea Water	0.5	Surface	2003-09-15 08:00	4990		1430	52.7	71.4	169	75	2688	380	118	8.56	-0.2	0.70			0.024	1.07	7.84	867		0.010
PFM000063	Sea Water	0.5	Surface	2003-09-29 08:00	8024		1460	53.1	72.3	175	75	2750	389	121	9.03	-0.2	0.54			0.025	1.08	7.51	878		0.011
PFM000063	Sea Water	0.5	Surface	2003-10-28 07:00	8055		1500	55.3	75.8	183	77	2770	387	126	8.51	-0.2	0.39	0.010	0.001	0.027	1.13	7.80	872		0.009
PFM000063	Sea Water	0.5	Surface	2003-11-12 07:00	8117		1500	55.1	76.3	183	77	2750	392	121	8.39	-0.2	0.33			0.024	1.11	7.68	885		0.008
PFM000063	Sea Water	0.5	Surface	2003-11-25 07:00	8133		1490	55.3	76.2	183	79	2720	386	121	8.74	-0.2	0.41			0.025	1.10	7.75	896		0.009
PFM000063	Sea Water	0.5	Surface	2003-12-15 08:00	8195		1470	54.9	76.0	174	76	2730	387	124	8.45	-0.2	0.59			0.023	1.10	7.74	887		0.010
PFM000063	Sea Water	0.5	Surface	2004-01-13 07:00	8223		1430	55.2	80.7	173	213	2730	397	127	9.76	-0.2	1.06	0.014	0.005	0.023	0.96	7.77	880		0.012
PFM000063	Sea Water	4.3	Bottom	2004-01-13 07:00	8227		1460	56.1	79.3	176	208	2790	407	129	9.75	-0.2	0.95	0.013	0.004	0.025	0.99	7.25	894		0.011
PFM000063	Sea Water	0.5	Surface	2004-02-10 07:00	8317		1360	51.3	81.2	164	89	2500	376	121	7.40	-0.2	1.34			0.024	1.04	7.19	803		0.009
PFM000063	Sea Water	4.5	Bottom	2004-02-10 07:00	8300		1490	55.7	77.8	176	84	2720	402	126	8.28	-0.2	1.31			0.024	1.11	7.08	869		0.010
PFM000063	Sea Water	0.5	Surface	2004-03-15 08:00	8343		904	33.8	70.2	107	106	1700	262	80.5	4.75	-0.2	2.66			0.016	0.70	7.37			0.013
PFM000063	Sea Water	4.0	Bottom	2004-03-15 08:00	8347		1400	51.8	76.2	165	85	2630	388	117	7.54	-0.2	1.62			0.022	1.04	7.25	850		0.013
PFM000064	Sea Water	0.5	Surface	2002-05-07 12:00	4085		668	26.3	59.6	83.8	98	1269	164	64.4	4.58		1.45			0.014	0.52	8.10	437		

Idcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L
PFM000064	Sea Water	1.5	Bottom	2002-05-07 12:00	4087		1200	45.4	72.7	151	83	2405	297	111	8.50	0.52				0.024	0.88	8.00	747		
PFM000064	Sea Water	0.5	Surface	2002-05-14 11:15	4107		1110	42.8	70.1	140	86	2113	279	101	7.32	0.48				0.022	0.82	8.00	708		
PFM000064	Sea Water	1.5	Bottom	2002-05-14 11:15	4108		1250	47.6	71.8	157	79	2471	326	112	8.08	0.43				0.024	0.90	7.90	812		
PFM000064	Sea Water	0.5	Surface	2002-05-27 16:00	4125		1510	49.7	72.0	172	82	2585	359	112	11.4	0.23				0.029	1.00	7.80	843		
PFM000064	Sea Water	1.5	Bottom	2002-05-27 16:00	4126		1500	49.5	70.5	171	78	2607	357	111	9.52	0.24				0.030	0.98	7.80	850		0.015
PFM000064	Sea Water	0.5	Surface	2002-06-10 15:20	4157		1510	54.0	75.5	188	77	2704	357	125	8.60	0.21	0.28			0.026	1.10	8.00	888		0.015
PFM000064	Sea Water	1.0	Bottom	2002-06-10 15:20	4158		1510	54.0	76.0	189	83	2694	371	126	8.30	0.22	0.28			0.026	1.05	8.00	887		0.009
PFM000064	Sea Water	0.5	Surface	2002-06-24 15:30	4186		1390	51.9	69.6	178	76	2704	350	116	8.30	0.32	0.29			0.025	1.00	7.90	852		0.015
PFM000064	Sea Water	1.0	Bottom	2002-06-24 15:30	4187		1380	51.7	70.2	179	75	2633	344	117	9.00	0.23	0.29			0.023	1.00	7.90	853		0.013
PFM000064	Sea Water	0.5	Surface	2002-07-15 00:00	4196		1385	53.3	73.4	176	79	2508	347	118	8.59	0.29	0.450	0.024		0.023	0.99	8.00	817		
PFM000064	Sea Water	1.0	Bottom	2002-07-15 00:00	4197		1385	53.4	72.9	176	77	2523	348	118	8.77	0.24	0.28	0.060	0.022	0.024	0.99	8.10	824		0.011
PFM000064	Sea Water	0.5	Surface	2002-08-12 12:00	4225		1203	43.5	66.2	108	90	2099	290	96.2	7.30	0.91	0.83	0.071	0.014	0.024	0.86	8.30	706		0.012
PFM000064	Sea Water	1.0	Bottom	2002-08-12 12:00	4226		1213	44.1	66.1	139	90	2111	297	96.2	7.50	0.32	0.81	0.067	0.014	0.024	0.87				0.012
PFM000064	Sea Water	1.0	Bottom	2002-09-02 07:30	4256		1430	49.9	68.7	163	106	2250	348	113	8.90	0.43	0.29			0.029	1.00				0.015
PFM000064	Sea Water	0.5	Surface	2002-09-02 07:30	4255		1430	49.9	68.6	163	76	2341	352	113	8.80	0.43	0.32			0.030	1.00				0.012
PFM000064	Sea Water	0.5	Surface	2002-09-16 18:00	4267		1500	51.6	71.2	186	90	2629	370	117	7.90	0.21	0.30			0.024	1.03				0.012
PFM000064	Sea Water	1.0	Bottom	2002-09-16 18:00	4268		1500	51.7	71.1	185	90	2624	360.96	115	8.10	0.42	0.30			0.021	1.02				0.015
PFM000064	Sea Water	1.0	Bottom	2002-09-30 07:30	4311		1470	51.4	70.7	185	78	2618	343	124	9.00	0.17	0.23			0.034	1.03	8.35			0.010
PFM000064	Sea Water	0.5	Surface	2002-09-30 07:30	4310		1460	51.0	70.6	184	78	2613	346	127	8.90	0.23	0.23			0.035	1.01	8.34			0.007
PFM000064	Sea Water	0.5	Surface	2002-10-21 13:00	4330		1410	48.6	69.5	172	80	2495	345	114	9.42	0.43	0.36	0.010	0.004	0.028	0.97	7.92			0.008
PFM000064	Sea Water	1.0	Bottom	2002-10-21 13:00	4323		1430	49.0	69.9	175	77	2582	352	116	9.50	0.22	0.20	0.010	0.005	0.028	0.98	7.86			0.008
PFM000064	Sea Water	1.0	Bottom	2002-11-11 08:00	4354		1400	51.0	68.7	174	77	2493	363	112	8.60	0.25	0.25			0.023	0.99	7.95			0.009
PFM000064	Sea Water	0.5	Surface	2002-11-11 08:00	4353		1400	51.2	68.9	175	77	2513	354	113	8.80	0.26	0.26			0.022	0.99	8.05			0.009
PFM000064	Sea Water	1.0	Bottom	2002-11-25 08:00	4379		1260	45.6	63.4	155	76	2459	353	111	8.07	-0.2	0.33			0.036	0.93	7.63			0.008
PFM000064	Sea Water	0.5	Surface	2002-11-25 08:00	4378		1190	42.7	59.9	146	70	2191	310	105	7.11	0.33	0.29			-0.004	0.88	7.69			0.008
PFM000064	Sea Water	0.5	Surface	2002-12-16 08:00	4416		758	31.0	78.5	96.9	126	1384	230	75.9	4.93	0.18	4.07			0.016	0.62	7.69			0.008
PFM000064	Sea Water	1.0	Bottom	2002-12-16 08:00	4417		1120	42.3	71.7	142	98	2147	322	97.3	7.19	0.03	2.09			0.019	0.83	7.65			0.008
PFM000064	Sea Water	0.5	Surface	2003-04-22 07:00	4743		932	36.2	63.1	110	92	1710	240	82.9	5.29	0.32	0.99			0.015	0.70	7.90	595		0.008
PFM000064	Sea Water	0.5	Surface	2003-04-22 07:00	4744		1100	42.4	65.5	131	88	2020	289	94.6	6.41	-0.2	0.76			0.017	0.80	7.94	686		0.008
PFM000064	Sea Water	0.5	Surface	2003-05-05 07:30	4760		946	35.4	64.9	117	92	1810	261	86.7	6.37	-0.2	1.26	0.300	0.029	0.018	0.72	7.77	624		0.010
PFM000064	Sea Water	0.5	Surface	2003-05-19 07:30	4786		1280	48.0	71.3	153	90	2280	359	112	6.93	-0.2	0.31			0.022	0.95	8.04	766		0.007
PFM000064	Sea Water	0.5	Surface	2003-06-02 07:30	4813		1390	52.8	72.0	166	87	2490	337	119	8.72	-0.2	0.25			0.022	1.03	7.82	824		0.009
PFM000064	Sea Water	0.5	Surface	2003-06-16 07:00	4853		1410	53.0	72.4	174	156	2630	345	124	6.17	-0.2	0.26			0.022	1.03	7.97	864		0.005

lcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000064	Sea Water	0.5	Surface	2003-07-07 08:00	4863		1420	53.0	71.8	174	82	2630	372	124	8.45	-0.2	0.25	0.031	0.012	0.022	1.06	8.10	858		0.010
PFM000064	Sea Water	0.5	Surface	2003-08-04 08:00	4933		1370	50.1	68.0	166	74	2590	364	119	7.80	-0.2	0.18			0.024	1.03	8.82	849		0.011
PFM000064	Sea Water	0.5	Surface	2003-09-01 07:30	4948		1410	51.1	69.7	163	79	2610	364	112	8.72	-0.2	0.18			0.022	1.01	8.31	839		0.009
PFM000064	Sea Water	0.5	Surface	2003-09-15 08:00	4993		1370	50.5	70.9	163	76	2790	361	113	8.52	-0.2	0.15			0.023	1.04	8.45	843		0.009
PFM000064	Sea Water	0.5	Surface	2003-09-29 08:00	8023		1370	49.9	70.7	165	79	2610	370	114	8.74	-0.2	0.37			0.023	1.02	7.35	835		0.010
PFM000064	Sea Water	0.5	Surface	2003-10-28 07:00	8057		1410	51.4	74.3	171	79	2590	366	119	8.81	-0.2	0.33	0.010	0.003	0.025	1.06	7.72	822		0.007
PFM000064	Sea Water	0.5	Surface	2003-11-12 07:00	8118		1240	46.4	73.9	152	86	2290	328	104	7.12	-0.2	0.73			0.021	0.94	7.56	749		0.007
PFM000064	Sea Water	0.5	Surface	2003-11-25 07:00	8135		1240	46.9	73.0	154	86	2290	330	104	7.97	-0.2	0.83			0.022	0.94	7.62	762		0.008
PFM000064	Sea Water	1.0	Bottom	2003-12-15 08:00	8192		1150	43.2	72.2	137	87	2150	317	102	6.75	0.58	1.58			0.020	0.88	7.48	778		0.009
PFM000064	Sea Water	1.0	Surface	2003-12-15 08:00	8201		1020	38.7	71.2	122	93	1850	281	91.8	5.74	-0.2	1.96	0.116	0.008	0.019	0.79	7.51	609		0.008
PFM000064	Sea Water	1.0	Bottom	2004-01-12 08:00	8212		1220	46.9	75.1	148	223	2340	350	111	8.45	-0.2	1.94	0.062	0.053	0.020	0.97	7.01	762		0.012
PFM000064	Sea Water	0.5	Surface	2004-01-12 08:00	8219		191	9.66	56.4	25.9	122	389	86.7	28.1	1.53	-0.2	6.18	0.153	0.036	0.007	0.22	7.12	151		0.010
PFM000064	Sea Water	0.5	Surface	2004-02-10 07:00	8313		318	13.6	56.9	39.7	114	583	110	37.3	1.72	-0.2	4.37			0.012	0.29	6.93	215		0.007
PFM000064	Sea Water	1.0	Bottom	2004-02-10 07:00	8311		617	24.4	65.0	74.4	114	1140	192	60.4	3.45	-0.2	4.12			0.013	0.51	6.88	390		0.008
PFM000064	Sea Water	0.5	Surface	2004-03-15 08:00	8344		560	22.4	72.4	68.5	144	1040	179	55.6	3.15	-0.2	4.48			0.012	0.48	7.16	370		0.013
PFM000064	Sea Water	1.0	Bottom	2004-03-15 08:00	8348		1160	43.3	73.0	138	94	2180	335	99.6	6.43	-0.2	1.92			0.019	0.87	7.16	711		0.012
PFM000065	Sea Water	0.5	Surface	2002-05-27 16:45	4128		1470	48.7	69.4	168	88	2549	346	109	10.3		0.18			0.029	0.97	8.00	836		0.010
PFM000065	Sea Water	0.5	Surface	2002-06-10 16:30	4147		1460	52.6	74.0	183	87	2633	355	122	7.52	0.16	0.24			0.026	1.10	8.00	865		0.010
PFM000065	Sea Water	0.5	Surface	2002-06-24 16:10	4188		1370	51.7	69.5	178	73	2576	352	117	8.80	0.23	0.26			0.024	1.00	8.00	849		0.008
PFM000065	Sea Water	0.5	Surface	2002-07-15 00:00	4212		1375	53.3	71.8	176	76	2510	349	118	8.30	0.37	0.28	0.100	0.010	0.024	0.98	8.30	820		0.009
PFM000065	Sea Water	0.5	Surface	2002-08-12 12:15	4231		1090	40.3	63.8	126	93	1953	270	87.8	6.40	0.38	1.07	0.056	0.010	0.023	0.79	8.30	648		0.012
PFM000065	Sea Water	0.5	Surface	2002-09-02 07:30	4249		1520	52.3	70.4	174	84	2426	380	121	9.40	0.26	0.51			0.031	1.06				0.009
PFM000065	Sea Water	0.5	Surface	2002-09-16 18:00	4269		1480	51.4	69.2	182	85	2595	357	114	7.70	0.31	0.61			0.024	1.01				0.012
PFM000065	Sea Water	0.5	Surface	2002-09-30 07:30	4308		1410	49.9	68.9	178	77	2507	341	120	8.10		0.54			0.035	0.99	8.01			0.010
PFM000065	Sea Water	0.5	Surface	2002-10-21 13:00	4325		1430	49.3	68.6	174	74	2521	350	115	9.40	0.22	0.43	-0.000	0.002	0.029	0.98	7.99			0.009
PFM000065	Sea Water	0.5	Surface	2002-11-11 08:00	4355		1450	52.7	69.7	180	76	2564	362	116	8.80		0.48			0.024	1.03	7.94			0.009
PFM000065	Sea Water	0.5	Surface	2002-11-25 08:00	4376		1180	42.3	62.8	144	82	2246	321	103	7.36	-0.2	0.77			-	0.88	8.06			
PFM000065	Sea Water	0.5	Surface	2002-12-16 08:00	4408		65.6	4.09	43.3	10.0	106	120	47.5	13.5	0.63	0.12	3.62			-0.004	0.10	7.75			
PFM000065	Sea Water	0.5	Surface	2003-01-13 08:00	4446		652	25.9	55.8	78.9	99	1170	244	58.5	5.78	0.12	2.44	0.160	0.049	0.014	0.51	7.54			
PFM000065	Sea Water	0.5	Surface	2003-02-17 07:30	4503		171	8.23	48.4	22.0	116	296	65.2	24.0	1.36	0.27	4.08			-0.004	0.19	7.14			
PFM000065	Sea Water	0.5	Surface	2003-04-22 07:00	4739		1030	39.4	64.6	122	91	1870	271	89.2	5.65	0.91	0.97			0.016	0.76	8.10	644		0.008
PFM000065	Sea Water	0.5	Surface	2003-05-05 07:30	4762		758	29.4	62.7	95.1	103	1260	191	73.1	4.39	-0.2	2.30	1.22	0.049	0.015	0.60	7.85	451		0.009
PFM000065	Sea Water	0.5	Surface	2003-05-19 07:30	4784		645	24.3	61.4	76.3	105	1150	201	63.7	3.78	0.35	1.04			0.013	0.52	7.93	409		0.007

Idcode	Water type	Depth	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L
PFM000065	Sea Water	0.5	Surface	2003-06-02 07:30	4818		1210	45.7	68.7	143	91	2150	290	104	7.50	-0.2	0.38			0.019	0.90	7.95	706		0.009
PFM000065	Sea Water	0.5	Surface	2003-06-16 07:00	4839		1410	53.2	71.9	175	81	2620	367	123	7.11	-0.2	0.26			0.022	1.03	8.05	861		0.005
PFM000065	Sea Water	0.5	Surface	2003-07-07 08:00	4865		1300	49.6	69.9	162	90	2438	343	116	7.97	-0.2	0.36	0.010	0.005	0.022	0.99	8.09	796		0.010
PFM000065	Sea Water	0.5	Surface	2003-08-04 08:00	4932		1410	51.6	69.2	171	77	2680	375	124	8.19	-0.2	0.53			0.025	1.07	8.30	874		0.010
PFM000065	Sea Water	0.5	Surface	2003-09-01 07:30	4949		1430	51.6	69.3	164	76	2620	368	114	8.03	-0.2	0.50			0.021	1.02	7.92	848		0.009
PFM000065	Sea Water	0.5	Surface	2003-09-15 08:00	4989		1410	52.0	71.7	167	79	2640	376	117	8.35	-0.2	0.55			0.023	1.06	7.88	859		0.011
PFM000065	Sea Water	0.5	Surface	2003-09-29 08:00	8005		1420	51.6	72.0	170	80	2670	378	117	8.83	-0.2	0.49			0.025	1.05	7.54	854		0.011
PFM000065	Sea Water	0.5	Surface	2003-10-28 07:00	8058		1430	52.4	75.1	173	81	2610	370	120	8.42	-0.2	0.51	0.010	0.002	0.025	1.09	7.84	831		0.010
PFM000065	Sea Water	0.5	Surface	2003-11-12 07:00	8111		1440	53.5	76.3	177	82	2650	369	117	8.20	0.31	0.52			0.024	1.07	7.68	857		0.009
PFM000065	Sea Water	0.5	Surface	2003-11-25 07:00	8146		1310	48.2	74.5	153	83	2430	352	108	7.52	-0.2	0.76			0.021	0.98	7.75	805		0.008
PFM000065	Sea Water	0.5	Surface	2003-12-15 08:00	8188		1290	48.2	74.5	153	83	2410	346	111	7.51	-0.2	1.16			0.022	0.97	6.87	783		0.009
PFM000065	Sea Water	0.5	Surface	2004-01-12 08:00	8222		1116	6.41	53.4	17.2	112	215	73.4	24.7	0.98	-0.2	5.28	0.151	0.053	0.006	0.15	7.12	104		0.010
PFM000065	Sea Water	0.5	Surface	2004-02-10 07:00	8314		118	6.47	51.1	16.7	116	229	62.3	20.3	0.70	-0.2	5.57			0.007	0.15	7.07	102		0.007
PFM000065	Sea Water	0.5	Surface	2004-03-15 08:00	8350		344	14.1	55.5	42.6	123	645	113	35.3	2.03	-0.2	3.67			0.007	0.31	7.13	233		0.011
PFM000082	Sea Water	0.5	Surface	2002-03-20 13:04	4007		1390	50.9	70.1	173	73	2717	329	118	8.84		0.62			-	1.01	7.70	830		
PFM000082	Sea Water	0.5	Surface	2002-04-02 14:35	4036		1390	51.4	71.8	175	75	2662	326	118	7.78		0.39			-	1.02	7.90	840		
PFM000082	Sea Water	6.5	Bottom	2002-04-02 15:20	4032		1390	51.0	71.2	175	76	2726	335	121	8.57		0.40			-	1.02	7.90	840		
PFM000082	Sea Water	0.5	Surface	2002-04-16 13:30	4044		1420	53.1	72.1	173	76	2841	342	117	8.23	0.45	0.41	0.090	-0.000	0.030	1.03	8.50	850		
PFM000082	Sea Water	6.0	Bottom	2002-04-16 13:30	4047		1400	52.7	71.7	171	75	2787	334	117	8.44	0.45	0.37	0.072	0.004	0.030	1.02	8.00	850		
PFM000082	Sea Water	0.5	Surface	2002-04-16 13:30	4048		1430	54.1	70.3	176	75	2667	374	120	8.94	-0.2	0.75	0.011	0.003	0.029	1.03	8.22			
PFM000082	Sea Water	6.5	Bottom	2003-01-13 08:00	4439		1450	54.0	70.2	177	80	2686	380	121	9.99	-0.2	0.70	0.010	0.002	0.029	1.04	8.03			
PFM000082	Sea Water	0.5	Surface	2003-02-17 07:30	4489		968	38.3	69.2	113	101	1849	264	86.2	6.28	0.18	2.90			0.016	0.73	7.51			0.011
PFM000082	Sea Water	6.5	Bottom	2003-02-17 07:30	4490		1460	55.6	71.9	179	78	2765	389	125	9.60	0.20	0.68			0.021	1.07	7.71			
PFM000082	Sea Water	0.5	Surface	2003-03-17 08:00	4647		1570	59.9	73.5	188	78	2720	314	131	7.91	0.11	0.56			0.024	1.09	7.68			0.011
PFM000082	Sea Water	6.0	Bottom	2003-03-17 08:00	4648		1540	59.7	75.8	194	77	2760	384	136	8.76	-0.2	0.55			0.024	1.09	7.83	867		0.010
PFM000082	Sea Water	0.5	Surface	2003-03-31 14:10	4705		1420	52.9	69.0	176	72	2669	374	120	7.92	-0.2	0.49			0.023	1.05	7.97	822		0.008
PFM000082	Sea Water	5.5	Bottom	2003-03-31 14:15	4706		1420	52.8	68.8	176	75	2670	379	119	6.83	0.47	0.49			0.022	1.04	7.93	826		0.006
PFM000082	Sea Water	0.5	Surface	2004-02-11 07:00	8316		1480	55.5	80.7	177	79	2780	405	130	8.10	-0.2	0.73			0.023	1.12	7.50	874		0.009
PFM000082	Sea Water	6.5	Bottom	2004-02-11 07:00	8318		1480	55.7	81.3	178	79	2750	406	130	8.18	-0.2	0.71			0.027	1.13	7.48	873		0.009
PFM000082	Sea Water	0.5	Surface	2004-03-16 07:00	8354		1380	50.9	74.8	163	101	2570	386	115	7.23	-0.2	0.83			0.021	1.02	7.70	841		0.012
PFM000082	Sea Water	6.0	Bottom	2004-03-16 07:00	8359		1470	54.5	79.2	173	88	2750	406	121	8.01	-0.2	0.96			0.023	1.10	7.58	879		0.014
PFM000083	Sea Water	0.5	Surface	2002-03-18 16:30	4000		1040	38.6	63.7	129	82	2060	252	89.2	7.07		1.62			-	0.77	7.70	650		
PFM000083	Sea Water	0.5	Surface	2002-04-01 18:15	4029		1270	50.1	67.4	163	75	2487	325	110	7.83		0.55			0.024	1.01	7.80	810		

Idcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO _{4-S} mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000083	Sea Water	6.5	Bottom	2002-04-01 19:00	4025		1350	49.7	68.3	168	74	2571	449	115	11.5	0.37					0.98	7.80	850		
PFM000083	Sea Water	0.5	Surface	2002-04-16 19:37	4053		1430	53.5	72.8	175	74	2752	330	119	10.7	0.62	0.135	0.005		0.028	1.04	7.90	860		
PFM000083	Sea Water	6.0	Bottom	2002-04-16 19:37	4054		1430	53.8	72.9	175	74	2809	337	119	8.31	0.39	0.073	-0.000		0.028	1.03	8.00	860		
PFM000083	Sea Water	0.5	Surface	2003-03-31 10:30	4701		1440	52.0	68.0	175	74	2632	356	119	6.68	-0.2	0.47			0.023	1.03	7.94	821		0.006
PFM000083	Sea Water	6.0	Bottom	2003-03-31 10:35	4702		1420	52.3	68.2	175	74	2650	378	119	7.02	-0.2	0.45			0.025	1.04	7.96	827		0.006
PFM000084	Sea Water			2002-03-20 13:49	4005		848	31.7	59.7	104	90	1606	200	75.3	5.76	2.26					0.64	7.50	530		
PFM000084	Sea Water	0.5	Surface	2002-04-02 10:30	4035		232	10.1	46.5	30.8	100	417	53.2	26.6	1.05	3.78					0.22	7.60	170		
PFM000084	Sea Water	2.5	Bottom	2002-04-02 11:10	4037		1130	42.3	66.6	142	78	2143	284	98.2	6.69	1.24					0.84	7.70	770		
PFM000084	Sea Water	0.5	Surface	2002-04-17 18:30	4062		133	6.74	48.5	18.4	110	212	46.4	17.2	1.36	4.22	0.849	0.087		0.006	0.16	7.90	110		
PFM000084	Sea Water	2.5	Bottom	2002-04-17 18:30	4063		136	6.89	49.2	18.7	110	289	54.5	18.0	-0.2	4.29	0.838	0.088		0.006	0.16	7.90	110		
PFM000084	Sea Water	0.5	Surface	2003-03-17 08:00	4643	71.5	1540	58.1	72.9	185	97	omitted	omitted	129	omitted	0.15	0.82			0.024	1.07	7.29	73.4		0.007
PFM000084	Sea Water	2.5	Bottom	2003-03-17 08:00	4644		1260	47.9	66.6	150	79	2722	368	108	9.86	-0.02	0.98			0.019	0.90	7.55	858		0.011
PFM000084	Sea Water	0.5	Surface	2003-03-31 09:10	4707		1180	44.3	63.3	145	77	2207	297	101	5.85	-0.2	0.86			0.019	0.88	7.82	693		0.006
PFM000084	Sea Water	2.5	Bottom	2003-03-31 09:15	4708		1180	44.3	63.3	145	77	2210	305	101	5.4	0.47	0.90			0.020	0.87	7.78	692		0.005
PFM000153	Sea Water	0.3	Surface	2002-05-07 12:55	4086		957	36.6	66.1	120	90	1863	231	88.9	7.89	0.89				0.019	0.71	8.10	602		
PFM000153	Sea Water	0.5	Surface	2002-05-14 12:08	4104		1080	41.5	68.1	136	85	2009	267	99.7	6.24	0.41				0.021	0.80	8.10	687		
PFM000066	Stream Water	0.2	Surface	2002-03-20 11:05	4015		3.9	2.08	59.1	2.9	180	3.3	4.26	1.77	-0.2	4.53					0.06	7.20	32.0		
PFM000066	Stream Water	0.2	Surface	2002-04-15 11:40	4045		3.7	2.15	60.4	2.6	180	3.5	9.03	1.95	-0.2	0.6	3.96	0.131	0.014		0.002	0.06	7.80	31.0	
PFM000066	Stream Water	0.1	Surface	2002-05-05 20:20	4070		4.4	2.29	66.4	3.0	190	3.3	4.65	1.69	0.03	3.50				0.002	0.07	7.80	34.0		
PFM000066	Stream Water	0.5	Surface	2002-05-12 19:00	4092		4.6	2.33	67.4	3.0	190	3.7	4.18	2.04	-0.2	3.16				0.002	0.07	7.90	34.7		
PFM000066	Stream Water	0.05	Surface	2002-05-26 22:00	4119		4.8	2.19	64.8	3.3	200	3.8	4.06	1.79	-0.2	3.06				0.002	0.07	7.50	35.5		
PFM000066	Stream Water	0.1	Surface	2002-06-23 21:10	4174		4.5	1.91	60.1	2.9		2.8	13.2	5.12	-0.02	0.26	3.45			0.002	0.06	7.70	31.2	-0.03	0.005
PFM000066	Stream Water	0.2	Surface	2002-07-16 00:00	4208		5.0	1.52	67.3	3.2	200	3.1	4.16	2.08	0.04	0.42	3.88	0.232	0.013		0.002	0.07	7.90	34.0	0.006
PFM000066	Stream Water	0.1	Surface	2002-08-11 22:00	4223		4.8	1.45	66.6	3.2	210	3.1	3.71	1.82	0.06	0.20	4.32	0.167	0.014		0.001	0.08	7.60	35.6	0.008
PFM000066	Stream Water	0.5	Surface	2002-11-28 08:00	4394		4.2	2.85	49.4	2.6	135	4.1	32.7	10.9	-0.2	0.21	3.86			0.028	0.06	7.39			
PFM000066	Stream Water	0.1	Surface	2002-12-17 07:30	4424		5.8	2.60	69.2	3.4	186	8.8	25.9	9.94	0.13	0.24	5.59			-0.004	0.07	7.36			
PFM000066	Stream Water	0.1	Surface	2003-01-13 08:00	4454		7.9	3.15	84.6	4.2	245	6.0	27.5	9.58	-0.2	0.25	6.68	0.310	0.189		0.002	0.09	7.26		
PFM000066	Stream Water	0.1	Surface	2003-02-17 07:30	4509		7.5	2.76	81.6	4	232	8.5	23.6	8.59	0.07	0.18	5.97			-0.004	0.08	6.98			
PFM000066	Stream Water	0.1	Surface	2003-03-18 07:30	4658		5.9	2.41	65.9	3.3	202	5.7	15.3	5.56	0.09	0.24	4.43			0.004	0.13	7.59	50.0		0.012
PFM000066	Stream Water	0.1	Surface	2003-04-01 09:50	4720		5.1	2.12	62.0	3.0	183	4.7	13.7	5.34	0.04	0.14	4.35			-0.004	0.06	8.05	43.0		0.001
PFM000066	Stream Water	0.1	Surface	2003-04-22 07:00	4750		12.6	1.84	53.2	4.1	157	16.9	15.9	6.03	0.06	0.42	4.01			-0.004	0.08	7.19	36.5		0.002
PFM000066	Stream Water	0.1	Surface	2003-05-06 07:30	4771		4.3	2.12	54.7	2.8	161	3.8	11.2	4.39	0.02	0.26	3.34	0.050	0.003		0.002	0.06	7.46	26.2	0.004
PFM000066	Stream Water	0.1	Surface	2003-05-20 07:30	4796		5.0	2.13	59.9	2.8	184	4.6	10.0	3.52	0.03	0.23	2.99			-0.004	0.07	7.46	33.2		0.002

Idcode	Water type	Depth m	Info	Date - time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L
PFM000066	Stream Water	0.1	Surface	2003-06-03 07:00	4830		5.2	1.79	60.2	2.9	188	3.8	6.71	2.99	0.04	0.32	2.51			-0.004	0.07	7.57	33.2		0.003
PFM000066	Stream Water	0.1	Surface	2003-06-17 07:00	4852		5.3	1.67	56.9	3.0	174	4.2	6.27	2.74	0.03	0.24	2.30			-0.004	0.07	7.51	31.3		0.003
PFM000066	Stream Water	0.1	Surface	2003-07-08 07:30	4869		5.4	1.52	55.0	3.0	169	3.6	5.92	2.64	0.02	0.22	2.28	0.124	0.020	-0.004	0.07	7.59	29.7		0.003
PFM000066	Stream Water	0.1	Surface	2003-09-02 06:30	4974		6.2	1.83	68.5	3.2	139	4.4	79.6	23.0	0.04	-0.2	3.85			-0.004	0.08	7.02	38.5		0.003
PFM000066	Stream Water	0.1	Surface	2003-09-30 07:00	8029		6.7	2.90	74.1	3.7	199	6.2	39.6	12.8	0.08	-0.2	4.00			-0.004	0.09	7.30	41.1		0.006
PFM000066	Stream Water	0.1	Surface	2003-10-27 07:00	8044		5.7	3.02	68.4	3.7	207	5.7	17.7	6.28	-0.2	-0.2	4.02	0.100	0.009	0.002	0.08	7.24	37.2		
PFM000066	Stream Water	0.1	Surface	2003-11-12 07:00	8107		5.1	2.63	55.8	3.0	171	5.4	17.6	6.02	0.04	-0.2	3.20			-0.004	0.06	7.28	32.8		0.001
PFM000066	Stream Water	0.1	Surface	2003-11-25 07:00	8144		5.2	2.82	62.8	3.2	182	5.9	19.6	6.69	0.02	-0.2	3.94			-0.004	0.07	7.23	34.9		0.002
PFM000066	Stream Water	0.1	Surface	2003-12-16 08:00	8193		5.2	2.63	66.6	3.3	193	5.4	16.4	5.69	0.03	-0.2	4.88			-0.004	0.07	7.28	36.9		0.004
PFM000066	Stream Water	0.1	Surface	2004-01-12 08:00	8224		4.9	2.31	61.7	3.2	202	5.7	12.8	4.30	0.08	-0.2	5.18	0.073	0.044	0.001	0.06	7.20	36.5		0.006
PFM000066	Stream Water	0.1	Surface	2004-02-09 08:00	8302		5.5	2.39	63.9	3.3	209	6.3	11.9	4.07	0.06	-0.2	5.21			-0.004	0.07	7.10	36.6		0.009
PFM000066	Stream Water	0.1	Surface	2004-03-16 07:00	8357		5.7	2.51	76.9	3.8	250	6.3	7.55	2.82	0.09	-0.2	5.65			-0.004	0.08	7.34	43.4		0.011
PFM000067	Stream Water	0.1	Surface	2004-03-19 10:16	4009		13.0	2.50	45.7	4.0	130	17.6	7.77	3.41	0.09		4.43			0.002	0.06	7.50	32.0		
PFM000067	Stream Water	0.2	Surface	2002-03-19 15:15	4023		18.2	2.18	36.2	4.1	110	38.4	10.0	3.14	-0.2		2.57			0.06	0.12	7.20	30.0		
PFM000067	Stream Water	0.5	Surface	2002-04-17 11:00	4057		92.8	5.09	46.5	12.8	110	185	26.1	9.43	0.66	0.25	2.50	0.166	0.014	0.005	0.12	7.90	81.0		
PFM000067	Stream Water	0.1	Surface	2002-05-06 09:30	4072		81.0	4.45	46.4	11.3	130	158	22.8	8.90	0.04		1.20			0.003	0.11	8.00	74.5		
PFM000067	Stream Water	0.5	Surface	2002-05-13 12:00	4098		78.7	4.65	46.2	11.3	130	162	23.4	8.79	0.49		0.68			0.003	0.10	8.30	76.3		
PFM000067	Stream Water	0.1	Surface	2002-05-27 09:15	4123		83.0	4.74	46.6	12.0	130	171	25.9	8.52	0.64		0.34			0.003	0.11	8.20	78.0		
PFM000067	Stream Water	0.05	Surface	2002-06-10 09:40	4149		105	5.60	52.1	14.3	150	214	30.5	11.1	0.61	0.30	0.85			0.004	0.13	7.90	90.5		0.006
PFM000067	Stream Water	0.1	Surface	2002-06-24 10:00	4180		90.0	5.09	46.8	13.4	130	172	26.2	9.61	0.46	0.27	1.17			0.003	0.12	8.10	82.2		0.009
PFM000067	Stream Water	0.1	Surface	2002-07-15 00:00	4204		72.2	4.25	43.1	10.3	120	127	21.1	8.12	0.44	0.49	1.06	0.081	0.013	0.003	0.10	7.90	67.2		0.007
PFM000067	Stream Water	0.1	Surface	2002-08-12 17:50	4242		53.8	3.52	41.7	8.5	130	102	18.5	7.04	0.40	0.38	1.97	0.106	0.008	0.004	0.10	8.20	57.0		0.008
PFM000067	Stream Water	0.1	Surface	2002-09-02 07:30	4259		65.0	3.91	44.4	9.7	141	107	23.8	7.66	0.42	0.36	1.91			0.004	0.11				0.011
PFM000067	Stream Water	0.05	Surface	2002-09-16 18:00	4286		62.5	4.02	43.3	10.2	140	113	20.9	7.51	0.53	0.39	1.49			0.004	0.11				0.009
PFM000067	Stream Water	0.1	Surface	2002-09-30 07:30	4313		58.9	3.73	40.7	9.8	129			6.96	0.45		0.85			0.005	0.10				0.009
PFM000067	Stream Water	0.05	Surface	2002-10-22 07:30	4339		62.9	4.44	45.4	10.4	124	112	25.3	7.50	0.46	0.25	0.35	0.030	0.002	0.004	0.11	7.86		0.008	
PFM000067	Stream Water	0.05	Surface	2002-11-13 07:00	4356		59.8	4.24	44.1	9.7	146	106	20.9	6.82	0.47	0.36	0.17			-0.004	0.11	8.33			0.009
PFM000067	Stream Water	0.05	Surface	2002-11-26 08:00	4395		46.8	3.37	36.9	7.7	126	94.2	17.3	6.23	0.19	0.24	0.20			-0.004	0.09	8.37			
PFM000067	Stream Water	0.1	Surface	2002-12-17 07:30	4427		41.9	3.71	50.6	7.9	148	76.9	22.3	7.74	0.20	0.30	2.04			-0.004	0.10	7.41			
PFM000067	Stream Water	0.1	Surface	2003-01-15 07:30	4459		54.1	5.00	60.9	9.8	191	90.8	20.8	7.97	0.30	0.24	0.196	0.101		0.005	0.12	7.41			
PFM000067	Stream Water	0.1	Surface	2003-02-18 07:30	4500		33.5	3.53	65.1	7.3	191	54.0	21.1	7.92	0.21	0.30	4.28			-0.004	0.11	7.09			0.007
PFM000067	Stream Water	0.05	Surface	2003-03-18 07:30	4660		32.7	3.23	54.0	6.9	167	58.4	18.1	6.62	0.19	0.23	3.14			-0.004	0.09	6.98	55.0		0.007
PFM000067	Stream Water	0.05	Surface	2003-03-31 17:47	4717		26.7	2.45	43.4	5.6	134	43.8	14.2	5.60	0.14	0.25	1.42			-0.004	0.08	7.92	39.1		0.002

lcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000067	Stream Water	0.05	Surface	2003-04-23 07:00	4755		24.4	2.25	44.3	5.3	140	37.1	14.4	5.48	0.09	0.34	0.80			-0.004	0.08	8.13	39.9		0.003
PFM000067	Stream Water	0.1	Surface	2003-05-06 07:30	4772		21.2	2.26	42.5	5.2	130	28.8	10.7	5.22	0.03	0.26	0.44	0.050	0.006	0.003	0.07	8.22	51.2		0.003
PFM000067	Stream Water	0.05	Surface	2003-05-20 07:30	4804		21.4	2.26	42.8	5.0	132			5.23	0.12		0.15			-0.004	0.08	8.31	36.2		0.004
PFM000067	Stream Water	0.05	Surface	2003-06-03 07:00	4822		21.5	2.26	41.5	5.1	128	29.7	13.0	5.18	0.12	-0.2	0.19			-0.004	0.08	8.39	40.9		0.003
PFM000067	Stream Water	0.05	Surface	2003-06-17 07:00	4850		23.4	2.34	40.4	5.5	124	31.9	13.1	5.33	0.09	0.25	0.25			-0.004	0.08	8.64	36.3		0.004
PFM000067	Stream Water	0.05	Surface	2003-07-08 07:30	4868		25.7	2.32	37.8	5.8	120	38.9	14.3	5.49	0.17	0.26	0.40	0.055	0.006	-0.004	0.08	8.50	35.4		0.006
PFM000067	Stream Water	0.1	Surface	2003-08-05 07:00	4935		32.7	2.36	29.6	6.4	103	52.6	19.6	7.19	0.20	0.28	0.57			0.007	0.08	7.48	40.5		0.009
PFM000067	Stream Water	0.05	Surface	2003-09-02 06:30	4972		30.6	1.96	28.6	6.1	89	49.3	19.8	6.95	0.18	-0.2	1.48			-0.004	0.08	8.33	35.1		0.007
PFM000067	Stream Water	0.05	Surface	2003-09-16 07:00	8001		32.2	2.12	30.7	6.4	101	51.8	17.4	6.37	0.21	-0.2	0.78			-0.004	0.09	7.56	38.3		0.008
PFM000067	Stream Water	0.05	Surface	2003-09-30 07:00	8032		30.8	2.18	30.1	6.3	101	50.1	18.5	6.46	0.18	-0.2	0.34			-0.004	0.08	7.67	36.6		0.008
PFM000067	Stream Water	0.05	Surface	2003-10-28 07:00	8056		29.8	2.72	31.6	6.3	101	45.7	17.1	6.20	-0.2	-0.2	0.08	0.030	0.002	0.003	0.08	7.80	35.9		0.007
PFM000067	Stream Water	0.1	Surface	2003-11-13 06:30	8121		25.0	2.57	32.4	5.5	112	39.9	16.7	5.81	0.17	-0.2	0.22			-0.004	0.08	7.81	39.3		0.007
PFM000067	Stream Water	0.05	Surface	2003-11-26 07:00	8142		22.5	2.72	36.8	5.3	113	36.3	18.0	6.15	0.15	-0.2	0.70			-0.004	0.08	7.70	34.4		0.006
PFM000067	Stream Water	0.05	Surface	2003-12-17 08:00	8206		19.4	2.95	45.0	5.1	132	29.0	19.3	6.71	0.09	-0.2	1.98			-0.004	0.08	7.65	35.4		0.005
PFM000067	Stream Water	0.05	Surface	2004-01-13 07:00	8216		13.1	2.61	49.9	4.3	155	21.2	18.3	6.03	0.09	-0.2	3.94	0.249	0.039	0.002	0.08	7.07	36.7		0.006
PFM000067	Stream Water	0.05	Surface	2004-02-11 07:00	8326		15.0	3.05	58.2	4.9	184	23.5	17.4	6.05	0.07	-0.2	4.63			0.004	0.09	7.06	40.1		0.007
PFM000067	Stream Water	0.1	Surface	2004-03-16 07:00	8362		16.2	2.97	64.6	5.2	196	27.1	15.7	5.45	0.14	-0.2	4.82			-0.004	0.09	7.16	42.5		0.010
PFM000068	Stream Water	0.5	Surface	2002-03-18 18:20	4014		6.5	2.10	50.8	3.3	150	7.1	5.43	2.45	0.20		5.20			-	0.06	7.60	30.0		
PFM000068	Stream Water	0.3	Surface	2002-04-01 16:10	4024		4.3	1.57	36.4	2.4	110	4.8	4.58	2.08	0.04		2.74			-	0.05	7.40	22.0		
PFM000068	Stream Water	0.5	Surface	2002-04-15 15:10	4046		7.0	2.08	50.2	3.0	150	7.0	4.97	2.31	-0.2	0.68	4.18	0.280	0.031	0.002	0.06	7.70	28.0		
PFM000068	Stream Water	0.1	Surface	2002-05-05 20:00	4080		10.1	2.22	57.5	3.9	160	11.5	6.35	3.15			4.45			0.002	0.08	7.40	33.0		
PFM000068	Stream Water	0.1	Surface	2002-05-13 18:00	4093		12.7	2.33	61.4	4.4	180	17.3	6.55	3.09	-0.2		5.14			0.002	0.09	7.60	37.4		
PFM000068	Stream Water	0.1	Surface	2002-05-28 12:00	4137		19.0	2.17	59.7	5.5	180	31.3	7.51	3.15	-0.2		5.71			0.003	0.10	8.00	43.1		
PFM000068	Stream Water	0.03	Surface	2002-06-11 11:00	4160		31.2	2.85	70.7	6.9	210	50.4		1.22	0.21	0.51	6.85			0.003	0.13	8.10	52.1		0.019
PFM000068	Stream Water	0.2	Surface	2002-06-23 23:15	4176		13.5	1.89	48.5	4.1	120	17.6	20.4	7.88	0.05	0.26	3.76			0.002	0.08	7.60	31.9	-0.03	0.005
PFM000068	Stream Water	0.2	Surface	2002-07-16 00:00	4213		12.3	1.54	55.8	4.2	160	13.5	5.79	2.85	0.07	0.47	4.18	0.490	0.009	0.002	0.08	7.80	33.3		0.006
PFM000068	Stream Water	0.1	Surface	2002-08-13 11:40	4238		12.7	1.54	58.6	4.4	190	17.0	5.24	2.50	0.13	0.70	5.69	0.587	0.036	0.003	0.10	7.80	37.3		0.010
PFM000068	Stream Water	0.2	Surface	2002-09-03 07:30	4271		28.0	0.69	69.0	6.6	210	42.9	8.74	3.86	0.19	0.40	6.50			0.003	0.12				0.010
PFM000068	Stream Water	0.1	Surface	2002-10-01 07:30	4301		25.7	1.81	63.0	7.0	212	41.4	8.74	3.74	0.20	0.26	7.11			0.004	0.11	7.64			0.007
PFM000068	Stream Water	0.5	Surface	2002-10-22 07:30	4343		27.1	2.26	73.0	7.9	226	47.5	9.04	3.80	0.12	0.27	8.07	0.180	0.027	0.004	0.12	7.43			0.009
PFM000068	Stream Water	0.5	Surface	2002-11-13 07:00	4362		22.4	1.88	72.3	6.8	213	44.9	28.3	9.11	0.20	0.38	7.10			-0.004	0.13	7.51			
PFM000068	Stream Water	0.5	Surface	2002-11-26 08:00	4393		7.6	2.56	34.7	3.2	93.0	11.0	21.0	7.51	-0.2	0.30	5.05			-0.004	0.06	6.68			
PFM000068	Stream Water	0.1	Surface	2002-12-18 07:30	4425		10.5	2.44	59.2	4.3	151	13.1	24.7	8.67	-0.2	0.24	5.24			-0.004	0.08	7.05			

Idcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/l	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L
PFM000068	Stream Water	0.1	Surface	2003-01-16 07:30	4457		15.9	3.04	66.2	5.1	202	19.2	14.8	5.50	-0.2	0.26	5.86	0.221	0.061	0.003	0.10	6.99			
PFM000068	Stream Water	0.1	Surface	2003-02-19 07:30	4497		12.2	2.29	68.2	4.8	202	15.6	17.0	6.43	-0.2	0.25	5.73			-0.004	0.09	7.02			
PFM000068	Stream Water	0.5	Surface	2003-03-18 07:30	4645		10.7	1.92	50.2	3.9	153	14.5	12.8	4.86	0.08	0.35	4.06			-0.004	0.08	7.05	32.2		0.006
PFM000068	Stream Water	0.5	Surface	2003-03-30 17:55	4716		9.9	1.62	45.4	3.5	138	13.8	12.1	4.59	0.06	0.49	3.45			-0.004	0.07	7.22	31.8		0.001
PFM000068	Stream Water	0.5	Surface	2003-04-23 07:00	4740		10.3	2.33	48.5	3.4	149	11.3	11.7	4.45	0.04	0.45	3.19			-0.004	0.07	7.39	34.9		0.003
PFM000068	Stream Water	0.5	Surface	2003-05-05 07:30	4758		7.2	1.89	43.3	3.2	127	8.5	10.7	4.25	0.05	-0.2	3.03	0.114	0.042	0.003	0.06	7.28	24.2		0.005
PFM000068	Stream Water	0.5	Surface	2003-05-20 07:30	4785		9.9	2.18	50.4	3.6	153	12.6	11.0	4.03	0.06	0.26	3.02			-0.004	0.07	7.36	32.4		0.004
PFM000068	Stream Water	0.5	Surface	2003-06-03 07:00	4827		12.9	1.92	53.9	4.2	184	16.0	10.5	4.40	0.10	0.37	4.06			-0.004	0.09	7.51	35.8		0.005
PFM000068	Stream Water	0.5	Surface	2003-06-17 07:00	4849		16.7	1.66	57.7	4.9	166	24.2	11.5	4.94	0.10	0.39	4.65			-0.004	0.09	7.48	39.3		0.005
PFM000068	Stream Water	0.5	Surface	2003-07-08 07:30	4872		21.4	0.54	59.8	5.5	177	34.6	13.9	5.56	0.15	0.31	4.05	0.181	0.041	-0.004	0.10	7.77	42.6		0.005
PFM000068	Stream Water	0.5	Surface	2003-09-02 06:30	4973		19.5	2.25	53.6	4.8	107	31.2	60.3	18.3	0.11	-0.2	3.83			-0.004	0.10	7.30	40.4		0.003
PFM000068	Stream Water	0.5	Surface	2003-09-15 08:00	4998		24.7	0.71	65.0	6.2	197	41.4	16.6	6.26	0.20	0.29	4.73			-0.004	0.12	7.46	48.5		0.007
PFM000068	Stream Water	0.5	Surface	2003-09-29 08:00	8021		19.6	4.56	54.2	5.3	136	35.6	39.6	12.8	0.13	0.20	3.45			-0.004	0.11	7.21	43.4		0.007
PFM000068	Stream Water	0.5	Surface	2003-10-29 07:00	8060		15.9	3.66	56.9	5.3	145	26.9	34.1	11.9	-0.2	0.25	4.30	0.210	0.021	0.003	0.10	7.20	39.7		0.004
PFM000068	Stream Water	0.5	Surface	2003-11-13 06:30	8122		9.4	2.85	50.1	3.8	132	14.6	24.6	8.23	0.07	-0.2	3.47			-0.004	0.08	7.14	34.9		0.003
PFM000068	Stream Water	0.5	Surface	2003-11-25 07:00	8137		9.1	2.73	48.6	3.8	132	13.9	20.8	7.11	0.07	-0.2	3.52			-0.004	0.07	6.94	33.4		0.006
PFM000068	Stream Water	0.5	Surface	2003-12-16 08:00	8204		9.8	2.57	54.7	3.9	149	12.9	19.3	6.82	0.07	-0.2	4.27			-0.004	0.08	7.19	35.3		0.008
PFM000068	Stream Water	0.5	Surface	2004-01-13 07:00	8225		8.8	2.18	50.8	3.7	160	13.7	15.0	5.10	0.10	-0.2	4.64	0.308	0.043	0.002	0.07	6.99	33.7		0.008
PFM000068	Stream Water	0.5	Surface	2004-02-09 08:00	8305		9.5	2.35	52.9	3.9	168	14.9	12.7	4.39	0.04	-0.2	5.12			-0.004	0.08	6.98	33.8		0.008
PFM000068	Stream Water	0.5	Surface	2004-03-15 08:00	8345		12.2	2.69	68.4	4.8	214	19.2	10.7	3.88	0.08	0.21	6.01			-0.004	0.10	7.53	42.5		0.009
PFM000069	Stream Water	0.2	Surface	2002-03-19 16:30	4016		8.3	2.24	56.1	3.8	170	10.6	7.47	3.15	-0.2		5.67			-	0.07	7.10	34.0		
PFM000069	Stream Water	0.2	Surface	2002-04-01 16:45	4028	-14.6	3.3	0.90	30.3	1.6	130	7.1	7.49	1.69	-0.2		2.46			-	0.04	7.30	26.0		
PFM000069	Stream Water	0.5	Surface	2002-04-17 13:45	4055		8.7	2.16	49.5	3.3	140	13.2	6.80	2.77	-0.2	0.25	4.46	0.149	0.008	0.002	0.06	7.40	29.0		
PFM000069	Stream Water	0.1	Surface	2002-05-06 19:30	4075		12.9	2.31	60.3	4.4	180	17.6	7.33	3.41	-0.2		5.26			0.002	0.09	7.80	36.9		
PFM000069	Stream Water	0.1	Surface	2002-05-13 16:30	4089		14.2	2.55	62.0	4.7	180	20.6	7.11	3.28	-0.2		5.65			0.002	0.09	7.50	39.0		
PFM000069	Stream Water	0.1	Surface	2002-05-28 11:40	4136		19.2	2.18	59.0	5.6	180	32.1	7.30	3.05	-0.2		5.79			0.003	0.10	7.90	42.8		0.014
PFM000069	Stream Water	0.0	Surface	2002-06-11 00:00	4159		32.8	2.57	68.8	7.1	220	56.9	5.58	2.79	0.22	0.41	6.46			0.004	0.13	8.10	52.2		0.008
PFM000069	Stream Water	0.1	Surface	2002-06-24 00:00	4189		20.8	1.93	58.7	5.5	170	52.9	13.7	4.67	0.42	0.36	4.23			0.002	0.10	7.50	41.1		0.005
PFM000069	Stream Water	0.2	Surface	2002-07-16 00:00	4211		15.9	1.34	61.3	4.9	180	20.5	8.07	3.73	0.1	0.41	4.42	0.292	0.007	0.002	0.09	7.70	38.2		0.005
PFM000069	Stream Water	0.05	Surface	2002-08-13 11:00	4244		14.6	1.29	62.0	4.8	190	20.4	6.34	2.80	0.14	0.33	5.74	0.237	0.013	0.003	0.10	7.70	40.2		0.008
PFM000069	Stream Water	0.1	Surface	2002-09-03 07:30	4252		27.6	0.63	67.4	6.6	190	41.0	9.29	4.00	0.37	0.44	6.27			0.004	0.12				0.012
PFM000069	Stream Water	0.05	Surface	2002-10-01 07:30	4300		25.1	1.38	60.9	6.8	213	41.9	8.21	3.62	0.21	0.28	7.22			0.004	0.11	7.79			0.007
PFM000069	Stream Water	0.05	Surface	2002-10-22 07:30	4342		26.7	1.58	70.4	7.6	222	59.3	9.33	3.38	0.20	0.25	7.97	0.080	0.017	0.004	0.12	7.27			

Idcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO _{4-S} mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000069	Stream Water	0.1	Surface	2002-11-13 07:00	4361		24.4	1.34	69.6	6.9	228	54.1	8.69	2.98	0.25	0.48	8.04			-0.004	0.12	7.41			0.011
PFM000069	Stream Water	0.05	Surface	2002-11-26 08:00	4384		13.8	2.48	46.9	4.3	141	31.9	19.7	6.95	-0.2	0.25	5.00			-0.004	0.08	7.59			
PFM000069	Stream Water	0.1	Surface	2002-12-18 07:30	4406		14.4	2.68	70.9	5.3	188	22.8	31.7	10.6	-0.2	0.48	6.49			-0.004	0.10	6.96			
PFM000069	Stream Water	0.1	Surface	2003-01-16 07:30	4455		27.3	3.72	85.5	7.2	256	40.6	17.5	6.16	0.22	0.29	8.69	0.623	0.115	0.003	0.13	6.84			
PFM000069	Stream Water	0.1	Surface	2003-02-19 07:30	4505		17.4	2.29	79.1	6.0	229	27.4	20.7	7.68	0.20	0.41	6.93			-0.004	0.11	6.86			
PFM000069	Stream Water	0.1	Surface	2003-03-18 07:30	4654		18.5	2.09	63.6	5.5	194	31.8	15.0	5.59	0.14	0.32	5.28			-0.004	0.10	6.95	43.1		0.008
PFM000069	Stream Water	0.05	Surface	2003-03-30 18:50	4715		15.6	1.84	55.8	4.9	168	25.5	17.5	6.38	0.13	0.25	4.54			-0.004	0.09	7.08	37.9		0.005
PFM000069	Stream Water	0.05	Surface	2003-04-23 07:00	4749		4.8	2.01	59.4	2.7	183	4.2	12.7	5.03	0.04	0.21	3.65			-0.004	0.06	7.44	33.8		0.004
PFM000069	Stream Water	0.05	Surface	2003-05-05 07:30	4781		10.3	2.02	50.8	3.9	148	13.6	15.1	5.86	0.05	0.47	3.56	0.072	0.003	0.002	0.08	7.17	28.9		0.003
PFM000069	Stream Water	0.05	Surface	2003-05-20 07:30	4795		12.3	2.19	54.1	4.1	159	19.6	16.0	5.56	0.08	0.30	4.27			-0.004	0.08	7.59	41.1		0.003
PFM000069	Stream Water	0.1	Surface	2003-06-03 07:00	4819		14.5	2.09	54.9	4.5	177	31.8	14.1	5.14	0.10	0.39	4.81			0.007	0.09	7.39	37.4		0.004
PFM000069	Stream Water	0.05	Surface	2003-06-17 07:00	4848		18.3	1.83	58.4	5.1	168	27.3	12.4	5.23	0.11	0.45	4.90			-0.004	0.10	7.43	40.8		0.004
PFM000069	Stream Water	0.05	Surface	2003-07-08 07:30	4828		21.1	-0.4	58.4	5.4	173	34.2	14.9	5.76	0.14	0.30	3.82	0.113	0.004	-0.004	0.10	7.69	42.0		0.004
PFM000069	Stream Water	0.05	Surface	2003-09-02 06:30	4970		25.5	2.10	50.5	5.2	114	44.0	49.7	15.5	0.13	-0.2	3.37			-0.004	0.10	7.21	42.9		0.004
PFM000069	Stream Water	0.05	Surface	2003-09-15 08:00	4995		25.3	0.52	64.7	6.2	196	41.6	15.0	5.79	0.23	0.22	4.72			-0.004	0.12	7.64	49.9		0.009
PFM000069	Stream Water	0.1	Surface	2003-09-29 08:00	8003		23.1	5.45	48.3	5.3	126	45.6	30.8	10.2	0.13	-0.2	3.27			-0.004	0.09	7.26	44.4		0.007
PFM000069	Stream Water	0.05	Surface	2003-10-28 07:00	8034		17.9	4.10	51.3	5.3	144	33.8	20.0	6.93	-0.2	0.2	4.62	0.130	0.026	-0.004	0.09	7.13	39.5		0.005
PFM000069	Stream Water	0.05	Surface	2003-11-13 06:30	8123		11.5	2.95	57.6	4.4	153	20.1	25.5	8.49	0.09	0.21	4.09			-0.004	0.09	7.03	51.3		0.005
PFM000069	Stream Water	0.05	Surface	2003-11-26 07:00	8138		12.2	3.01	60.8	4.6	165	21.7	26.7	9.00	0.10	-0.2	4.40			-0.004	0.09	6.95	39.2		0.005
PFM000069	Stream Water	0.05	Surface	2003-12-16 08:00	8200		12.7	2.91	66.4	4.7	172	20.6	27.4	9.39	0.09	-0.2	5.43			-0.004	0.09	7.06	40.6		0.006
PFM000069	Stream Water	0.1	Surface	2004-01-13 07:00	8207		12.1	2.63	62.3	4.6	191	22.9	20.4	6.91	0.12	-0.2	6.10	0.271	0.004	-0.004	0.09	6.99	42.0		0.008
PFM000069	Stream Water	0.05	Surface	2004-02-09 08:00	8301		13.7	2.83	68.5	5.0	211	25.3	16.7	5.55	0.10	0.28	6.70			0.004	0.10	6.90	43.8		0.008
PFM000069	Stream Water	0.05	Surface	2004-03-17 07:00	8366		18.6	2.99	81.3	6.1	256	34.7	10.9	3.94	0.17	1.14	7.89			-0.004	0.12	7.00	53.0		0.014
PFM000070	Stream Water	0.1	Surface	2002-03-18 12:30	4012		4.5	1.70	43.7	2.5	120	3.8	3.49	1.57	0.23		4.12			-	0.05	7.60	24.0		
PFM000070	Stream Water	0.1	Surface	2002-04-02 11:35	4030		3.9	1.27	29.2	1.7	95	3.5	3.33	1.38	0.37		2.58			-	0.03	7.50	34.0		
PFM000070	Stream Water	0.1	Surface	2002-04-16 10:00	4051		5.0	1.91	54.3	2.6	160	3.7	4.15	1.98	-0.2	0.11	3.42	0.079	0.039	0.002	0.05	7.90	28.0		
PFM000070	Stream Water	0.1	Surface	2002-05-06 16:02	4078		5.2	1.79	50.9	2.6	150	4.1	4.31	2.21	0.03		2.16			0.001	0.05	8.10	27.2		
PFM000070	Stream Water	0.05	Surface	2002-05-13 14:40	4100		5.3	1.81	49.5	2.6	150	4.6	3.92	1.98	-0.2		2.07			0.001	0.05	7.60	27.4		
PFM000070	Stream Water	0.02	Surface	2002-06-25 09:33	4193		5.5	1.32	44.3	2.7	130	4.7	4.82	2.11	0.05	0.30	2.08			0.001	0.05	7.50	24.0		0.006
PFM000070	Stream Water	0.2	Surface	2002-07-16 00:00	4210		5.8	1.77	40.2	2.7	120	4.2	3.88	2.02	0.03	0.38	2.35	0.060	0.048	0.001	0.05	7.60	22.7		0.007
PFM000070	Stream Water	0.1	Surface	2002-08-13 09:30	4240		5.5	1.39	39.9	2.6	130	4.1	3.42	1.56	0.04	0.54	3.46	0.088	0.067	0.001	0.07	7.60	23.8		0.008
PFM000070	Stream Water	0.1	Surface	2002-11-26 08:00	4375		5.4	1.91	34.9	2.6	109	3.9	5.35	2.57	-0.2	0.21	2.48			-0.004	0.05	7.69			
PFM000070	Stream Water	0.1	Surface	2002-12-18 07:30	4423		6.6	2.18	47.1	3.1	141	4.9	8.03	3.25	-0.2	0.25	3.27			-0.004	0.06	7.59			

Idcode	Water type	Depth m	Info	Date - time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	F ⁻ mg/L	
PFM000070	Stream Water	0.1	Surface	2003-01-16 07:30	4456		9.7	3.08	52.8	3.4	168	5.4	6.48	2.95	0.07	0.25	3.69	0.026	0.020	0.001	0.06	7.72				
PFM000070	Stream Water	0.1	Surface	2003-02-18 07:30	4508		6.9	2.29	56.6	3.2	177	5.6	9.46	3.69	-0.2	0.36	4.04			-0.004	0.06	7.26				
PFM000070	Stream Water	0.1	Surface	2003-03-18 07:30	4653		3.8	1.29	33.4	1.8	106	3.1	5.25	2.03	0.02	0.20	2.13			-0.004	0.03	7.21	22.7		0.005	
PFM000070	Stream Water	0.1	Surface	2003-03-31 18:53	4718		5.8	1.71	48.7	2.7	157	4.2	6.57	2.86	0.03	0.34	2.88			-0.004	0.05	7.57	29.4		0.002	
PFM000070	Stream Water	0.1	Surface	2003-04-22 07:00	4753		5.8	1.59	46.3	2.6	147	4.7	6.79	2.63	0.03	0.17	1.96			-0.004	0.05	7.66	28.0		0.002	
PFM000070	Stream Water	0.1	Surface	2003-05-06 07:30	4776		5.4	1.63	45.4	2.7	139	4.1	6.11	2.65	0.01	-0.2	1.07	0.024	0.010	0.001	0.05	7.84	22.7		0.006	
PFM000070	Stream Water	0.1	Surface	2003-05-20 07:30	4788		6.0	1.66	43.9	2.6	142			2.51	0.03		0.53			-0.004	0.05	7.58	26.5		0.005	
PFM000070	Stream Water	0.1	Surface	2003-06-03 07:00	4817		6.0	1.29	41.7	2.6	135	3.8	4.60	2.18	0.03	0.23	0.54			-0.004	0.05	7.23	27.3		0.004	
PFM000070	Stream Water	0.1	Surface	2003-06-17 07:00	4829		6.2	0.56	44.5	2.7	138	3.6	4.39	2.08	0.02	0.35	1.21			-0.004	0.05	7.23	25.4		0.004	
PFM000070	Stream Water	0.1	Surface	2003-07-08 07:30	4871		6.1	-0.4	56.6	2.9	193	3.0	1.65	1.26	0.03	0.23	4.33	0.574	0.650	-0.004	0.06	7.24	30.7		0.009	
PFM000070	Stream Water	0.1	Surface	2003-09-02 06:30	4947		4.9	1.53	37.2	2.1	68	2.7	44.5	14.1	0.02	-0.2	1.60			-0.004	0.04	7.06	24.6		0.002	
PFM000070	Stream Water	0.1	Surface	2003-09-30 07:00	8026		5.8	2.97	36.7	2.3	89	5.6	28.5	9.43	0.04	-0.2	1.98			-0.004	0.04	7.04	23.4		0.004	
PFM000070	Stream Water	0.1	Surface	2003-10-28 07:00	8059		5.9	2.59	44.4	2.9	110	6.0	28.3	9.68	-0.2	-0.2	3.07	0.060	0.093	0.002	0.05	6.85	26.4		0.006	
PFM000070	Stream Water	0.1	Surface	2003-11-13 06:30	8120		6.3	1.86	35.0	2.7	113	5.3	8.02	3.08	0.04	-0.2	1.38			-0.004	0.05	7.58	27.5		0.006	
PFM000070	Stream Water	0.1	Surface	2003-11-26 07:00	8139		6.2	1.99	35.8	2.7	116	5.5	7.97	2.99	0.04	-0.2	1.42			-0.004	0.05	7.64	22.5		0.005	
PFM000070	Stream Water	0.1	Surface	2003-12-16 08:00	8198		6.5	1.99	41.2	2.8	124	5.4	9.10	3.44	0.03	-0.2	2.14			-0.004	0.05	7.48	24.6		0.005	
PFM000070	Stream Water	0.1	Surface	2004-01-14 07:00	8221		5.6	1.87	39.9	2.6	127	5.9	10.3	3.74	0.03	-0.2	2.76	0.045	0.005	0.001	0.05	7.47	26.3		0.006	
PFM000070	Stream Water	0.1	Surface	2004-02-09 08:00	8308		5.8	1.93	41.7	2.7	133	6.6	11.3	3.84	0.02	-0.2	3.13			-0.004	0.05	7.20	25.9		0.007	
PFM000070	Stream Water	0.1	Surface	2004-03-16 07:00	8346		1.9	0.51	10.0	0.7	29	2.3	2.96	1.11	0.08	-0.2	0.54			-0.004	0.01	7.09			0.005	
PFM000071	Stream Water	0.1	Surface	2002-03-18 10:00	4013		3.5	1.97	68.9	3.3	220	2.6	4.18	1.78	-0.2		4.29					0.07	8.00	37.0		
PFM000071	Stream Water	0.2	Surface	2002-04-01 13:30	4022		2.8	1.82	52.3	2.8	180	2.3	3.55	1.50	-0.2		3.25					0.05	7.50	31.0		
PFM000071	Stream Water	0.1	Surface	2002-04-16 11:00	4050		4.0	2.05	75.8	3.3	230	2.1	3.65	1.54	-0.2	0.13	3.81	0.238	0.046	0.002	0.07	8.00	37.0			
PFM000071	Stream Water	0.1	Surface	2002-05-05 12:00	4077		4.2	1.99	84.2	3.8	270	16.6	5.71	1.29	0.23		4.01			0.002	0.08	8.00	42.2			
PFM000071	Stream Water	0.15	Surface	2002-05-13 14:00	4101		3.8	2.01	82.9	3.7	250	1.9	3.02	1.49	-0.2		3.27			0.002	0.08	7.90	42.1			
PFM000071	Stream Water	0.05	Surface	2002-06-25 09:10	4192		3.8	1.55	76.0	3.5	220	2.0	7.36	2.96	-0.02	0.39	4.70			0.002	0.07	7.60	37.7		0.006	
PFM000071	Stream Water	0.1	Surface	2002-07-16 00:00	4209		3.7	2.11	82.0	3.7	250	2.3	2.73	1.34	0.06	0.28	4.72	0.216	0.019	0.002	0.08	7.90	40.1		0.010	
PFM000071	Stream Water	0.05	Surface	2002-08-13 09:00	4239		3.6	2.14	83.9	3.8	280	1.5	1.08	0.55	0.04	0.37	5.87	0.943	0.090	0.002	0.09	7.90	43.6		0.021	
PFM000071	Stream Water	0.5	Surface	2002-11-26 08:00	4374		3.5	2.49	62.7	3.2	205	3.5	13.6	5.10	-0.2	0.27	4.19			-0.004	0.07	7.51				
PFM000071	Stream Water	0.1	Surface	2002-12-18 07:30	4422		3.9	2.15	81.0	3.7	247	3.0	10.9	3.94	-0.2	0.28	4.74			-0.004	0.08	7.35				
PFM000071	Stream Water	0.1	Surface	2003-01-15 07:30	4460		5.6	2.64	86.3	4.1	268	3.2	9.17	3.46	-0.2	0.24	4.65	0.036	0.009	0.002	0.09	7.43				
PFM000071	Stream Water	0.1	Surface	2003-02-18 07:30	4506		4.1	2.23	81.9	3.8	258	2.8	7.84	3.01	-0.2	0.19	4.39			-0.004	0.08	7.45				
PFM000071	Stream Water	0.5	Surface	2003-03-18 07:30	4651		3.3	2.61	69.4	3.4	226	2.6	6.97	2.52	0.02	0.31	3.35			-0.004	0.07	7.34	44.5		0.004	
PFM000071	Stream Water	0.1	Surface	2003-03-30 19:45	4713		4.0	2.12	77.5	3.7	255	2.6	7.26	3.04	0.02	0.33	2.80			-0.004	0.08	7.38	39.5		0.004	

lcode	Water type	Depth m	Info	Date-time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000071	Stream Water	0.5	Surface	2003-04-22 07:00	4747		3.7	2.14	74.7	3.5	239	2.3	6.31	2.51	0.03	0.25	1.33			-0.004	0.08	7.69	41.0		0.004
PFM000071	Stream Water	0.5	Surface	2003-05-06 07:30	4780		3.1	2.01	63.3	3.0	198	2.4	5.64	2.32	0.01	0.25	3.01			0.002	0.06	7.51	29.7		0.004
PFM000071	Stream Water	0.5	Surface	2003-05-20 07:30	4794		3.8	1.86	74.2	3.4	266	2.6	5.12	1.90	0.02	0.24	1.80			-0.004	0.08	7.27	35.5		0.004
PFM000071	Stream Water	0.5	Surface	2003-06-03 07:00	4826		3.8	2.36	81.0	3.8	271	1.8	3.40	1.54	0.02	0.24	2.89			-0.004	0.08	7.57	42.1		0.006
PFM000071	Stream Water	0.5	Surface	2003-06-17 07:00	4845		4.3	1.67	88.8	4.2		1.7	2.17	1.03	0.02	0.28	4.26			-0.004	0.09	7.51	45.1		0.008
PFM000071	Stream Water	0.5	Surface	2003-09-30 07:00	4997		4.8	5.91	65.2	3.6	167	4.5	52.0	16.3	0.02	0.13	5.74		0.050	0.005	0.07	6.94	40.1		0.002
PFM000071	Stream Water	0.5	Surface	2003-10-27 07:00	8030		4.6	2.78	89.8	4.4	285	3.1	16.3	5.37	-0.2	-0.2	4.18		0.008	-0.004	0.09	7.40	48.4		0.002
PFM000071	Stream Water	0.5	Surface	2003-11-13 06:30	8108		3.5	2.00	70.9	3.3	241	2.9	8.73	3.10	0.02	-0.2	3.82			-0.004	0.07	7.43	41.0		0.002
PFM000071	Stream Water	0.5	Surface	2003-11-24 08:00	8132		3.6	2.05	71.0	3.3	220	3.7	9.66	3.44	0.02	-0.2	4.01			-0.004	0.07	7.49	37.8		0.002
PFM000071	Stream Water	0.5	Surface	2003-12-16 08:00	8190		3.8	1.91	71.1	3.3	214	3.2	7.17	2.65	0.02	0.2	4.32			-0.004	0.07	7.52	36.9		0.003
PFM000071	Stream Water	0.5	Surface	2004-01-14 07:00	8209		3.5	1.79	65.8	3.2	230	3.3	6.43	2.32	0.01	-0.2	4.33		-0.003	-0.004	0.07	7.52	39.1		0.003
PFM000071	Stream Water	0.5	Surface	2004-02-11 07:00	8312		3.4	1.79	67.6	3.2	229	3.3	6.26	2.16	0.02	-0.2	4.26			-0.004	0.07	7.29	36.9		0.005
PFM000071	Stream Water	0.5	Surface	2004-03-16 07:00	8341		4.7	2.00	75.6	3.8	249	3.4	7.41	2.69	0.05	0.24	4.01			-0.004	0.08	7.22	41.5		0.011
PFM000072	Stream Water	0.5	Surface	2002-03-18 15:00	4010		15.1	3.34	48.3	5.8	160	16.8	16.9	6.72	-0.2		4.02			-	0.08	7.40	36.0		0.004
PFM000072	Stream Water	0.2	Surface	2002-04-01 19:45	4031		14.7	3.06	45.4	5.2	140	19.8	14.7	5.66	-0.2		2.01			-	0.08	7.40	18.0		0.004
PFM000072	Stream Water	0.5	Surface	2002-04-15 16:29	4042		14.0	2.99	47.1	4.8	140	17.7	11.8	4.64	-0.2	0.40	1.69		0.047	0.003	0.07	7.60	32.0		0.003
PFM000072	Stream Water	0.2	Surface	2002-05-06 12:00	4071		16.4	3.04	43.5	5.2	140	18.5	11.2	4.92	0.30		0.86			0.003	0.08	7.60	32.5		0.003
PFM000072	Stream Water	0.5	Surface	2002-05-13 15:50	4094		19.2	3.66	46.3	5.9	150	24.5	10.2	4.69	0.29		1.15			0.004	0.08	7.50	36.0		0.004
PFM000072	Stream Water	0.2	Surface	2002-05-27 21:00	4134		34.1	4.10	44.8	8.1	170	47.5	7.18	3.15	0.17		1.92			0.005	0.10	7.70	46.3		0.005
PFM000072	Stream Water	0.5	Surface	2002-06-10 21:00	4161		46.0	4.80	54.7	9.9	220	74.5	12.4	5.17	0.87	0.42	1.92			0.005	0.13	8.00	55.9		0.014
PFM000072	Stream Water	0.5	Surface	2002-06-23 22:00	4175		21.7	2.52	25.0	4.8	64	24.1	29.1	11.6	0.04	0.12	0.87			0.002	0.06	7.30	28.3		0.003
PFM000072	Stream Water	0.2	Surface	2002-07-15 00:00	4214		28.9	1.60	36.1	6.4	130	34.1	7.37	3.37	0.47	0.27	1.14		0.238	0.004	0.08	7.50	35.6		0.008
PFM000072	Stream Water	0.5	Surface	2002-08-12 20:30	4243		28.0	1.42	36.4	6.5	140	37.7	6.89	3.16	0.31	0.43	1.24		0.323	0.005	0.10	7.60			0.009
PFM000072	Stream Water	0.1	Surface	2002-11-12 08:00	4345		72.8	4.72	49.1	11.8	128	118	71.7	22.3	0.33	0.17	2.19		0.441	0.006	0.13	7.19			0.003
PFM000072	Stream Water	0.1	Surface	2002-11-28 08:00	4392		21.5	4.16	21.6	4.9	76	36.7	23.7	8.01	-0.2	0.22	1.75			-0.004	0.05	6.62			-0.03
PFM000072	Stream Water	0.1	Surface	2002-12-18 07:30	4428		42.0	5.26	53.8	9.8	193	63.3	21.7	7.53	0.08	0.24	3.00			0.007	0.12	6.88			
PFM000072	Stream Water	0.1	Surface	2003-01-16 07:30	4458		70.4	4.87	63.6	15.3	201	108	55.2	20.5	0.39	0.13	3.15		1.45	0.007	0.16	6.61			
PFM000072	Stream Water	0.1	Surface	2003-02-19 07:30	4504		76.3	6.41	73.2	16.7	228	102	60.4	22.2	0.59	0.12	4.38			0.006	0.18	6.52			
PFM000072	Stream Water	0.1	Surface	2003-03-18 07:30	4646		26.2	4.77	34.7	7.8	105	39.3	34.7	13.2	0.17	0.17	3.72			0.004	0.08	7.52	50.9		0.008
PFM000072	Stream Water	0.1	Surface	2003-03-31 12:20	4711		17.2	2.60	26.8	4.5	97	23.1	12.9	4.72	0.07	0.40	1.30			-0.004	0.05	7.13	29.5		0.006
PFM000072	Stream Water	0.1	Surface	2003-04-23 07:00	4751		23.6	3.50	39.4	6.1	137	29.5	16.0	6.04	0.07	0.34	1.71			-0.004	0.08	7.27	37.8		0.006
PFM000072	Stream Water	0.1	Surface	2003-05-05 07:30	4769		23.8	3.78	39.3	6.8	127	27.9	18.3	9.08	0.08	0.29	2.86		0.089	0.006	0.08	7.26	39.8		0.006
PFM000072	Stream Water	0.1	Surface	2003-05-20 07:30	4783		27.2	3.81	42.5	6.7	151			5.77	0.14		1.48			-0.004	0.09	7.19	40.7		0.006

Idcode	Water type	Depth m	Info	Date - time	Sample no	Charge bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	SO ₄ -S mg/L	Br mg/L	F ⁻ mg/L	Si mg/L	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS ⁻ mg/L	I ⁻ mg/L
PFM000072	Stream Water	0.35	Surface	2003-06-03 07:00	4815		31.1	3.12	39.3	6.9	142	62.6	14.4	4.86	0.14	0.33	1.32			-0.004	0.09	7.30	40.3		0.004
PFM000072	Stream Water	0.1	Surface	2003-06-17 07:00	4846		36.6	0.94	38.7	7.2	145	44.2	10.1	4.51	0.14	0.32	0.71			0.004	0.09	7.28	43.7		0.004
PFM000072	Stream Water	0.1	Surface	2003-07-08 07:30	4874		48.4	1.19	44.0	8.7	183	66.4	6.78	3.23	0.27	0.25	0.81	0.282	0.042	-0.004	0.11	7.46	50.8		0.008
PFM000072	Stream Water	0.33	Surface	2003-07-08 07:30	4939		61.7	3.25	50.5	10.9	183	94.2	60.4	19.4	0.34	-0.2	2.05	0.317	0.042	0.008	0.14	7.49	69.2		0.010
PFM000072	Stream Water	0.1	Surface	2003-09-02 06:30	4968		58.6	3.98	37.9	8.2	101	92.7	57.8	18.0	0.19	-0.2	1.13			-0.004	0.10	7.05	57.3		0.003
PFM000072	Stream Water	0.1	Surface	2003-09-16 07:00	4994		62.0	3.95	39.7	8.5	114	97.2	52.0	16.6	0.2	0.14	1.05			0.005	0.11	7.04	60.9		0.005
PFM000072	Stream Water	0.1	Surface	2003-09-30 07:00	8035		63.1	5.86	38.6	8.9	117	105	42.7	14.1	0.23	-0.2	1.17			0.006	0.10	6.98	61.2		0.006
PFM000072	Stream Water	0.1	Surface	2003-10-29 07:00	8049		67.5	7.53	47.4	11.9	129	109	63.3	21.0	-0.2	-0.2	2.13	0.460	0.054	0.006	0.12	6.98	67.5		
PFM000072	Stream Water	0.1	Surface	2003-11-12 07:00	8109		31.8	4.22	27.6	6.1	103	47.2	11.8	4.50	0.02	-0.2	1.48			-0.004	0.07	7.24	37.9		0.005
PFM000072	Stream Water	0.1	Surface	2003-11-25 07:00	8143		29.5	4.63	29.8	6.5	111	43.4	14.8	5.49	0.17	-0.2	1.64			-0.004	0.07	7.03	35.7		0.009
PFM000072	Stream Water	0.1	Surface	2003-12-16 08:00	8203		30.3	4.09	40.9	7.0	140	40.5	20.8	6.78	0.15	-0.2	1.56			0.004	0.09	7.14	40.8		0.011
PFM000072	Stream Water	0.1	Surface	2004-01-14 07:00	8226		30.5	4.55	47.0	7.5	175	46.1	23.2	7.80	0.19	-0.2	2.22	0.146	0.092	0.004	0.09	6.94	47.6		0.017
PFM000072	Stream Water	0.1	Surface	2004-02-10 07:00	8310		33.0	4.73	52.0	8.6	192	47.2	30.8	9.98	0.16	-0.2	3.51			0.005	0.11	6.79	49.7		0.019
PFM000072	Stream Water	0.1	Surface	2004-03-17 07:00	8365		29.5	4.47	50.4	7.8	178	42.3	22.4	7.46	0.15	0.21	2.59			-0.004	0.10	6.94	46.2		0.016
PFM000073	Stream Water	0.1	Surface	2002-03-18 17:40	4011		8.2	8.17	115	12.7	380	6.9	53.6	16.4	-0.2		3.43			-	0.20	8.10	69.0		
PFM000073	Stream Water	0.05	Surface	2002-04-02 09:20	4034		8.0	6.76	91.9	11.8	380	6.1	44.2	14.5	-0.2		1.50			-	0.16	8.00	67.0		
PFM000073	Stream Water	0.1	Surface	2002-04-15 18:10	4043		10.0	6.42	122	13.3	390	5.9	48.4	16.1	-0.2	0.44	0.59	0.107	0.025	0.011	0.21	8.30	69.0		
PFM000073	Stream Water	0.1	Surface	2002-05-06 18:35	4074		11.4	6.27	117	14.5	400	6.9	40.5	13.8	-0.2		1.50			0.012	0.22	8.30	69.0		
PFM000073	Stream Water	0.03	Surface	2002-05-13 16:30	4095		12.4	6.79	106	14.5	370	7.0	27.1	10.0	0.23		3.25			0.013	0.20	8.10	63.7		
PFM000073	Stream Water	0.05	Surface	2002-11-26 08:00	4385		6.7	8.23	101	10.5	293	5.9	66.8	19.8	-0.2	0.66	3.87			0.011	0.18	8.26			
PFM000073	Stream Water	0.1	Surface	2002-12-18 07:30	4429		12.4	9.53	153	16.8	455	7.6	89.6	31.2	-0.2	0.63	5.79			0.014	0.26	7.75			
PFM000073	Stream Water	0.1	Surface	2003-03-18 07:30	4657		7.3	7.11	91.8	10.6	291	4.4	50.7	16.0	0.04	0.36	3.63			0.007	0.16	7.47	59.8		0.001
PFM000073	Stream Water	0.05	Surface	2003-03-31 11:45	4714		9.6	7.79	121	14.1	379	6.1	72.2	22.4	0.03	0.56	4.07			0.011	0.22	7.91	70.3		0.004
PFM000073	Stream Water	0.05	Surface	2003-04-23 07:00	4754		10.7	8.78	114	14.3	369	8.3	65.5	22.1	0.06	0.48	0.56			-0.004	0.21	7.95	73.8		-0.001
PFM000073	Stream Water	0.05	Surface	2003-05-05 07:30	4767		8.1	9.90	125	12.8	377	8.2	58.7	18.9	0.04	0.44	3.56	0.071	0.004	0.008	0.21	7.91	65.5		0.001
PFM000073	Stream Water	0.05	Surface	2003-05-20 07:30	4787		11.6	9.15	113	14.9	387	8.6	52.5	16.8	0.06	0.42	0.34			0.012	0.23	8.06	75.2		0.002
PFM000073	Stream Water	0.1	Surface	2003-11-12 07:00	8114		10.8	12.0	145	15.7	429	9.7	93.8	29.0	0.08	0.39	5.12			0.015	0.26	7.76	89.6		0.003
PFM000073	Stream Water	0.05	Surface	2003-11-25 07:00	8145		9.1	9.73	141	14.5	419	9.5	69.5	22.5	0.08	0.33	3.87			0.013	0.25	7.69	80.4		0.001
PFM000073	Stream Water	0.05	Surface	2003-12-16 08:00	8202		10.7	8.51	140	15.6	423	10.5	77.8	26.0	0.08	0.43	4.16			0.013	0.25	7.77	80.0		0.001
PFM000073	Stream Water	0.05	Surface	2004-01-14 07:00	8229		9.9	7.18	122	14.1	406	8.3	70.0	22.2	0.08	0.29	4.35	0.026	0.007	0.011	0.22	7.56	76.8		0.002
PFM000073	Stream Water	0.05	Surface	2004-02-10 07:00	8319		9.5	7.67	126	14.2	403	9.1	68.7	21.7	0.03	0.23	4.14			0.013	0.22	7.59	75.0		0.002
PFM000073	Stream Water	0.1	Surface	2004-03-17 07:00	8364		6.5	8.42	80.8	9.2	276	7.2	35.9	10.9	0.07	0.21	4.02			0.006	0.15	7.61	50.9		0.003

- "value" = result below detection limit

Charge bal % = Relative charge balance error % (only given if value > 10%)

SICADA: water_composition_020301-040401

Appendix 6

Surface water supplements (nutrient salts, carbon species and silica)

Id code	Water type	Depth (m)	Info	Date	Sample no	NH ₄ -N (mg/l)	NO ₂ -N (mg/l)	NO ₃ -N+ NO ₂ -N (mg/l)	NO ₃ -N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO ₄ -P (mg/l)	POP (mg/l)	PON (mg/l)	SiO ₄ -Si (mg/l)
PFM000074	Lake Water	0.5	Surface	2002-05-05	4067	0.0031		0.0089		0.684	0.0087	0.0021	0.0047	0.0413	3.60
PFM000074	Lake Water	0.5	Surface	2002-06-09	4143	0.0024		0.0037		1.05	0.0161	0.0037	0.0088	0.0871	4.21
PFM000074	Lake Water	0.5	Surface	2002-06-23	4168	0.0070		0.0039		0.863	0.0115	0.0018	0.0040	0.0384	2.85
PFM000074	Lake Water	0.5	Surface	2002-07-14	4202	0.0017		0.0006		0.866	0.0100	0.0018	0.0037	0.0219	3.58
PFM000074	Lake Water	0.5	Surface	2002-08-11	4224					0.895	0.0081		0.0025	0.0218	
PFM000074	Lake Water	0.5	Surface	2002-09-02	4251	0.0024		0.0020				0.0018	0.0044		6.88
PFM000074	Lake Water	0.5	Surface	2002-09-15	4276	0.0063		0.0006		0.985	0.0092	0.0022	0.0036	0.0420	8.78
PFM000074	Lake Water	0.5	Surface	2002-10-01	4309	0.0099		0.0008		0.951	0.0092	0.0021	0.0038	0.0369	8.18
PFM000074	Lake Water	0.5	Surface	2002-11-12	4337	0.0067	0.0004	0.0100		0.897	0.0071	0.0020	0.0035	0.0661	7.44
PFM000074	Lake Water	0.5	Surface	2002-12-17	4415	0.0047	0.0012	0.0969		0.852	0.0058	0.0023	0.0016	0.0116	4.80
PFM000074	Lake Water	0.5	Surface	2003-01-16	4453	0.117	0.0035	0.0470		1.29	0.0122	0.0018	0.0055	0.0464	6.83
PFM000074	Lake Water	0.5	Surface	2003-02-18	4507	0.0145		0.0322		0.812	0.0072	0.0012	0.0013	0.0111	6.00
PFM000074	Lake Water	0.5	Surface	2003-03-18	4652	0.0025		0.0427		0.663	0.0084	0.0008	0.0032	0.0200	4.67
PFM000074	Lake Water	0.5	Surface	2003-04-01	4712	0.0020		0.0090		0.525	0.0068	-0.0005	0.0030	0.0304	3.55
PFM000074	Lake Water	0.5	Surface	2003-04-21	4752	0.0037		0.0019		0.591	0.0065	-0.0005	0.0025	0.0250	3.92
PFM000074	Lake Water	0.5	Surface	2003-05-06	4770	0.0013	0.0002	0.0041		0.734	0.0103	-0.0005	0.0024	0.0206	3.41
PFM000074	Lake Water	0.5	Surface	2003-05-19	4791	0.0014		0.0009		0.701	0.0074	-0.0005	0.0031	0.0266	3.23
PFM000074	Lake Water	0.5	Surface	2003-06-02	4821	0.0022		0.0008		0.796	0.0106	0.0007	0.0042	0.0400	3.42
PFM000074	Lake Water	0.5	Surface	2003-06-16	4841	0.0014		0.0005		0.894	0.0108	0.0009	0.0044	0.0278	3.35
PFM000074	Lake Water	0.5	Surface	2003-07-07	4861	-0.0005	0.0001	0.0003	0.0003	1.00	0.0132	-0.0005	0.0049	0.0681	3.36
PFM000074	Lake Water	0.3	Surface	2003-08-04	4938	0.0028		0.0005		1.12	0.0106	0.0007	0.0038	0.0466	5.63
PFM000074	Lake Water	0.5	Surface	2003-09-01	4969	0.0081		0.0008		0.946	0.0075	0.0008	0.0037	0.0420	5.08
PFM000074	Lake Water	0.5	Surface	2003-09-15	4996	0.0049		0.0002		0.974	0.0101	-0.0005	0.0039	0.0541	5.15
PFM000074	Lake Water	0.5	Surface	2003-09-30	8004	0.0125		0.0009		0.875	0.0066	-0.0005	0.0026	0.0302	5.34
PFM000074	Lake Water	0.5	Surface	2003-10-27	8045	0.0325	0.0005	0.0007		0.848	0.0087	-0.0005	0.0052	0.0345	6.90

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000074	Lake Water	0.5	Surface	2002-05-05	4067	0.9	-0.5	-0.5	0.252	13.8	14.3	26.9	7.2
PFM000074	Lake Water	0.5	Surface	2002-06-09	4143	4.0	-0.5	2.6	0.659	19.1	18.4	24.7	14.0
PFM000074	Lake Water	0.5	Surface	2002-06-23	4168	1.3	-0.5	0.8	0.205	15.8	15.2	21.0	8.6
PFM000074	Lake Water	0.5	Surface	2002-07-14	4202	0.6	-0.5	0.6	0.181	19.1	18.6	28.6	10.7
PFM000074	Lake Water	0.5	Surface	2002-08-11	4224	0.9	-0.5	0.5	0.151	20.9	19.8	29.4	7.8
PFM000074	Lake Water	0.5	Surface	2002-09-02	4251	2.5	-0.5	-0.5		20.6	22.2	6.1	9.8
PFM000074	Lake Water	0.5	Surface	2002-09-15	4276	2.7	-0.5	-0.5	0.356	19.6	17.9	4.0	10.5
PFM000074	Lake Water	0.5	Surface	2002-10-01	4309	1.7	-0.5	0.7	0.308	18.8	18.8	30.6	11.2
PFM000074	Lake Water	0.5	Surface	2002-11-12	4337	2.2	-0.5	0.7	0.380	17.2	16.8	17.8	11.1
PFM000074	Lake Water	0.5	Surface	2002-12-17	4415	-0.5	-0.5	-0.5	0.099	16.5	15.0	23.8	5.0
PFM000074	Lake Water	0.5	Surface	2003-01-16	4453	5.6	-0.5	4.7	0.180	19.0	18.6	47.7	3.1
PFM000074	Lake Water	0.5	Surface	2003-02-18	4507	-0.5	-0.5	-0.5	0.071	18.4	18.0	28.4	4.7
PFM000074	Lake Water	0.5	Surface	2003-03-18	4652	-0.5	-0.5	0.2	0.142	13.0	12.5	31.5	6.7
PFM000074	Lake Water	0.5	Surface	2003-04-01	4712	0.5	-0.5	-0.5	0.218	10.9	9.8	24.1	8.4
PFM000074	Lake Water	0.5	Surface	2003-04-21	4752	0.5	-0.5	-0.5	0.136	13.2	13.0	30.4	7.1
PFM000074	Lake Water	0.5	Surface	2003-05-06	4770	0.7	-0.5	-0.5	0.128	14.3	14.0	23.5	7.7
PFM000074	Lake Water	0.5	Surface	2003-05-19	4791	0.6	-0.5	-0.5	0.188	15.4	15.4	28.9	
PFM000074	Lake Water	0.5	Surface	2003-06-02	4821	0.8	-0.5	-0.5	0.244	17.1	16.8	31.9	
PFM000074	Lake Water	0.5	Surface	2003-06-16	4841	1.0	-0.5	0.6	0.207	18.6	18.6	32.6	
PFM000074	Lake Water	0.5	Surface	2003-07-07	4861	1.6	-0.5	0.8	0.414	19.2	19.3	29.2	
PFM000074	Lake Water	0.3	Surface	2003-08-04	4938	1.2	-0.5	0.8	0.336	20.1	19.8	17.1	
PFM000074	Lake Water	0.5	Surface	2003-09-01	4969	1.2	-0.5	0.9	0.302	16.9	16.8	16.8	
PFM000074	Lake Water	0.5	Surface	2003-09-15	4996	1.3	-0.5	1.1	0.378	17.8	15.0	19.4	
PFM000074	Lake Water	0.5	Surface	2003-09-30	8004	1.5	-0.5	0.5	0.221	16.7	16.8	22.4	
PFM000074	Lake Water	0.5	Surface	2003-10-27	8045	1.0	-0.5	0.6	0.249	15.1	16.6	40.0	

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000074	Lake Water	0.5	Surface	2003-11-13	8119	0.0026		0.0036		0.759	0.0068	-0.0005	0.0024	0.0183	4.23
PFM000074	Lake Water	0.5	Surface	2003-12-17	8205	0.0191		0.0040		0.715	0.0057	0.0007	0.0019	0.0113	4.99
PFM000074	Lake Water	0.5	Surface	2004-01-14	8231	0.0018	0.0003	0.0183		0.705	0.0044	-0.0005	0.0010	0.0078	5.63
PFM000074	Lake Water	0.5	Surface	2004-02-10	8322	0.0039		0.0191		0.696	0.0049	0.0005	0.0014	0.0085	5.65
PFM000074	Lake Water	0.5	Surface	2004-03-16	8351	0.0054		0.0123		0.733	0.0064	0.0005	0.0015	0.0146	6.41
PFM000087	Lake Water	0.5	Surface	2002-04-17	4060	0.0068		0.0009		0.551	0.0100	0.0011	0.0045	0.0225	3.63
PFM000087	Lake Water	1.8	Bottom	2002-04-17	4061	0.0059		0.0022		0.551	0.0097	0.0013	0.0048	0.0262	3.47
PFM000087	Lake Water	0.5	Surface	2002-05-05	4065	0.0038		0.0098		0.685	0.0122	0.0024	0.0077	0.0550	2.83
PFM000087	Lake Water	1.8	Bottom	2002-05-05	4066	0.0039		0.0036		0.671	0.0113	0.0022	0.0077	0.0502	2.87
PFM000087	Lake Water	0.5	Surface	2002-05-12	4088	0.0018	0.002	0.0098	-0.01	0.763	0.0165	0.0025	0.0095	0.0655	2.56
PFM000087	Lake Water	1.8	Bottom	2002-05-12	4091	0.0117		0.0011		0.752	0.0154	0.0025	0.0096	0.0773	2.83
PFM000087	Lake Water	0.5	Surface	2002-05-26	4117	0.0049		0.0031		0.873	0.0187	0.0034	0.0091	0.0672	2.73
PFM000087	Lake Water	1.8	Bottom	2002-05-26	4118	0.0058		0.0011		0.909	0.0231	0.0035	0.0095	0.0815	2.72
PFM000087	Lake Water	0.5	Surface	2002-06-09	4135	0.0109	0.002	0.0018	-0.01	0.973	0.0154	0.0052	0.0049	0.0458	3.47
PFM000087	Lake Water	1.5	Bottom	2002-06-09	4142	0.0173		0.0040		1.00	0.0171	0.0040	0.0118	0.0913	3.56
PFM000087	Lake Water	0.5	Surface	2002-06-23	4144	0.0110	-0.001	0.0041	-0.01	0.886	0.0133	0.0023	0.0048	0.0416	4.73
PFM000087	Lake Water	1.5	Bottom	2002-06-23	4148	0.0154		0.0041		0.893	0.0146	0.0022	0.0060	0.0451	4.76
PFM000087	Lake Water	0.5	Surface	2002-07-14	4200	0.0029		0.0019		0.876	0.0141	0.0026	0.0081	0.0570	4.22
PFM000087	Lake Water	1.5	Bottom	2002-07-14	4201	0.0160		0.0009		0.928	0.0134	0.0023	0.0078	0.0571	4.33
PFM000087	Lake Water	0.5	Surface	2002-08-11	4203	0.0020		0.0018		0.897	0.0101	0.0019	0.0044	0.0414	6.22
PFM000087	Lake Water	1.5	Bottom	2002-08-11	4222	0.0065		0.0017		0.948	0.0121	0.0020	0.0046	0.0578	6.53
PFM000087	Lake Water	0.5	Surface	2002-09-02	4263	0.0067		0.0011				0.0021	0.0045		9.99
PFM000087	Lake Water	1.5	Bottom	2002-09-02	4264	0.0049		0.0002				0.0018	0.0044		10.2
PFM000087	Lake Water	0.5	Surface	2002-09-15	4278	0.0108		0.0008		0.957	0.0116	0.0030	0.0049	0.0510	10.5
PFM000087	Lake Water	1.5	Bottom	2002-09-15	4279	0.0093		0.0007		0.939	0.0097	0.0023	0.0040	0.0470	10.5
PFM000087	Lake Water	0.5	Surface	2002-10-01	4292	0.0113		0.0013		0.938	0.0086	0.0019	0.0034	0.0589	9.49
PFM000087	Lake Water	1.5	Bottom	2002-10-01	4295	0.0104		0.0008		0.921	0.0093	0.0017	0.0037		10.0
PFM000087	Lake Water	0.5	Surface	2002-11-12	4327	0.0064	0.0003	0.0033		0.992	0.0070	0.0013	0.0036	0.0450	9.6
PFM000087	Lake Water	1.5	Bottom	2002-11-12	4331	0.199	0.0004	0.0022		1.16	0.0078	0.0025	0.0038	0.0469	9.59
PFM000087	Lake Water	0.5	Surface	2002-12-16	4407	0.0204	0.0029	0.0732		0.837	0.0071	0.0017	0.0037	0.0224	5.39

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000074	Lake Water	0.5	Surface	2003-11-13	8119	0.5	-0.5	-0.5	0.125	11.5	10.6	12.6	
PFM000074	Lake Water	0.5	Surface	2003-12-17	8205	-0.5	-0.5	-0.5	0.073	17.8	17.7	32.9	3.8
PFM000074	Lake Water	0.5	Surface	2004-01-14	8231				0.064	17.7	17.3	33.3	2.8
PFM000074	Lake Water	0.5	Surface	2004-02-10	8322	-0.2	-0.2	0.2	0.046	15.7	15.4	41.9	3.9
PFM000074	Lake Water	0.5	Surface	2004-03-16	8351	0.4	-0.2	0.7	0.107	17.4	17.4	43.8	1.2
PFM000087	Lake Water	0.5	Surface	2002-04-17	4060	0.9	-0.5	-0.5	0.161	12.7	12.5	29.9	12.3
PFM000087	Lake Water	1.8	Bottom	2002-04-17	4061	1.0	-0.5	-0.5	0.163	12.0	12.7	27.0	12.0
PFM000087	Lake Water	0.5	Surface	2002-05-05	4065	4.1	-0.5	-0.5	0.342	12.3	14.0	25.6	
PFM000087	Lake Water	1.8	Bottom	2002-05-05	4066	3.8	-0.5	0.5	0.342	13.7	13.6	28.0	9.8
PFM000087	Lake Water	0.5	Surface	2002-05-12	4088	2.1	-0.5	2.5	0.428	11.0	11.0	23.0	11.1
PFM000087	Lake Water	1.8	Bottom	2002-05-12	4091	2.3	-0.5	1.6	0.504	13.9	14.1	1.9	11.2
PFM000087	Lake Water	0.5	Surface	2002-05-26	4117	6.6	1.1	-0.5	0.371	16.4	13.6	6.9	10.6
PFM000087	Lake Water	1.8	Bottom	2002-05-26	4118	6.3	0.8	1.4	0.342	16.1	16.2	8.4	10.4
PFM000087	Lake Water	0.5	Surface	2002-06-09	4135	0.8	-0.5	0.8	0.280	16.7	14.6	19.8	13.9
PFM000087	Lake Water	1.5	Bottom	2002-06-09	4142	0.6	-0.5	0.6	0.450	16.1	15.8	24.8	11.0
PFM000087	Lake Water	0.5	Surface	2002-06-23	4144	1.8	-0.5	1.3	0.278	16.3	15.8	19.3	9.4
PFM000087	Lake Water	1.5	Bottom	2002-06-23	4148	1.6	-0.5	0.8	0.247	14.9	14.3	20.2	9.1
PFM000087	Lake Water	0.5	Surface	2002-07-14	4200	2.2	-0.5	1.4	0.438	17.5	16.9	25.4	11.3
PFM000087	Lake Water	1.5	Bottom	2002-07-14	4201	5.7	0.5	0.6	0.500	17.5	16.7	26.9	12.0
PFM000087	Lake Water	0.5	Surface	2002-08-11	4203	2.1	-0.5	-0.5	0.265	19.1	16.2	30.0	11.0
PFM000087	Lake Water	1.5	Bottom	2002-08-11	4222	2.4	-0.5	2.9	0.364	18.6	17.7	23.3	5.8
PFM000087	Lake Water	0.5	Surface	2002-09-02	4263	2.2	-0.5	0.6		17.5	21.0	1.9	9.8
PFM000087	Lake Water	1.5	Bottom	2002-09-02	4264	2.1	-0.5	-0.5		18.7	20.2	2.4	10.0
PFM000087	Lake Water	0.5	Surface	2002-09-15	4278	1.5	-0.5	0.5	0.371	18.6	19.3	6.1	9.9
PFM000087	Lake Water	1.5	Bottom	2002-09-15	4279	2.0	-0.5	-0.5	0.333	17.9	17.7	17.8	10.4
PFM000087	Lake Water	0.5	Surface	2002-10-01	4292	1.3	-0.5	1.3	0.599	18.0	18.0	25.4	12.6
PFM000087	Lake Water	1.5	Bottom	2002-10-01	4295	2.9	-0.5	-0.5		8.3	9.0	26.2	12.7
PFM000087	Lake Water	0.5	Surface	2002-11-12	4327	2.5	-0.5	1.1	0.249	17.6	7.4	20.7	13.9
PFM000087	Lake Water	1.5	Bottom	2002-11-12	4331	2.1	-0.5	-0.5	0.286	17.4	18.0	25.8	9.8
PFM000087	Lake Water	0.5	Surface	2002-12-16	4407	-0.5	-0.5	-0.5	0.153	18.4	15.1	28.2	4.6

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000087	Lake Water	1.5	Bottom	2002-12-16	4409	0.0444	0.0043	0.0394		0.851	0.0082	0.0021	0.0053	0.0438	6.78
PFM000087	Lake Water	0.5	Surface	2003-01-15	4442	0.168	0.0010	0.0059		1.23	0.0120	0.0027	0.0052	0.0444	9.33
PFM000087	Lake Water	1.5	Bottom	2003-01-15	4449	0.180	0.0014	0.0272		1.18	0.0090	0.0024	0.0055	0.0351	8.83
PFM000087	Lake Water	0.5	Surface	2003-02-18	4485	0.0373		0.0104		0.990	0.0104	0.0010	0.0042	0.0324	7.50
PFM000087	Lake Water	1.5	Bottom	2003-02-18	4486	0.258		0.0039		1.25	0.0112	0.0014	0.0039	0.0358	9.02
PFM000087	Lake Water	0.5	Surface	2003-03-17	4649	0.0705		0.0208		0.595	0.0103	0.0008	0.0051	0.0280	5.47
PFM000087	Lake Water	1.5	Bottom	2003-03-17	4650	0.491		0.0038		1.66	0.0123	-0.0005	0.0068	0.0449	9.29
PFM000087	Lake Water	0.5	Surface	2003-03-31	4703	0.0305		0.0027		0.626	0.0074	-0.0005	0.0031	0.0298	5.01
PFM000087	Lake Water	1.5	Bottom	2003-03-31	4704	0.0509		0.0025		0.643	0.0075	-0.0005	0.0030	0.0274	5.24
PFM000087	Lake Water	0.5	Surface	2003-04-21	4735	0.0025		0.0017		0.678	0.0084	-0.0005	0.0032	0.0285	3.27
PFM000087	Lake Water	1.5	Bottom	2003-04-21	4736	0.0057		0.0012		0.561	0.0089	-0.0005	0.0038	0.0315	3.34
PFM000087	Lake Water	0.5	Surface	2003-05-06	4773	0.0011	0.0005	0.0042		0.607	0.0073	0.0005	0.0030	0.0215	3.27
PFM000087	Lake Water	0.5	Surface	2003-05-19	4792	0.0014		0.0008		0.732	0.0090	-0.0005	0.0043	0.0314	3.06
PFM000087	Lake Water	0.5	Surface	2003-06-02	4824	0.0017		0.0004		0.817	0.0134	0.0005	0.0055	0.0690	3.08
PFM000087	Lake Water	0.5	Surface	2003-06-16	4844	0.0017		0.0003		0.842	0.0135	0.0014	0.0038	0.0473	3.38
PFM000087	Lake Water	0.5	Surface	2003-07-07	4860	0.0025	0.0001	0.0012	0.0012	0.868	0.0103	0.0006	0.0041	0.0424	3.69
PFM000087	Lake Water	1.34	Surface	2003-08-04	4940	0.0016		0.0003		0.948	0.0106	0.0006	0.0044	0.0463	6.19
PFM000087	Lake Water	0.5	Surface	2003-09-01	4967	0.0066		0.0004		0.871	0.0070	0.0005	0.0027	0.0361	6.25
PFM000087	Lake Water	0.5	Surface	2003-09-16	8002	0.0061		-0.0002		0.885	0.0084	0.0006	0.0035	0.0388	5.71
PFM000087	Lake Water	0.5	Surface	2003-09-30	8031	0.0110		0.0009		0.834	0.0080	-0.0005	0.0031	0.0080	6.01
PFM000087	Lake Water	0.5	Surface	2003-10-27	8047	0.0016		0.0002		0.792	0.0063	0.0008	0.0027	0.0317	5.78
PFM000087	Lake Water	1.5	Bottom	2003-10-27	8051	0.0300	0.0002	0.0003		0.812	0.0074	-0.0005	0.0037	0.0365	6.04
PFM000087	Lake Water	0.5	Surface	2003-11-12	8113	0.0050		0.0274		0.802	0.0085	-0.0005	0.0025	0.0185	4.57
PFM000087	Lake Water	1.5	Bottom	2003-12-16	8191	0.0804		0.0033		0.903	0.0088	-0.0005	0.0035	0.0258	6.20
PFM000087	Lake Water	0.5	Surface	2003-12-16	8199	0.0095		0.0128		0.774	0.0070	-0.0005	0.0019	0.0125	5.43
PFM000087	Lake Water	0.5	Surface	2004-01-12	8215	0.0131	0.0007	0.0124		0.736	0.0063	0.0007	0.0019	0.0118	5.86
PFM000087	Lake Water	1.5	Bottom	2004-01-12	8220	0.185	0.0004	0.0010		1.19	0.0121	0.0005	0.0065	0.0350	7.72
PFM000087	Lake Water	1.5	Bottom	2004-02-10	8315	0.238		0.0012		1.23	0.0098	0.0011	0.0045	0.0348	8.21
PFM000087	Lake Water	0.5	Surface	2004-02-10	8321	0.0298		0.0330		0.762	0.0068	0.0008	0.0022	0.0123	5.90
PFM000087	Lake Water	0.5	Surface	2004-03-16	8355	0.0161		0.0036		0.799	0.0083	0.0009	0.0026	0.0233	6.81

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O ₂ (mg/l)
PFM000087	Lake Water	1.5	Bottom	2002-12-16	4409	0.8	-0.5	0.6	0.277	16.5	13.2	25.1	1.6
PFM000087	Lake Water	0.5	Surface	2003-01-15	4442	0.5	-0.5	0.5	0.338	22.6	22.3	42.3	
PFM000087	Lake Water	1.5	Bottom	2003-01-15	4449	0.7	0.6	1.8	0.240	16.8	22.2	48.8	0.5
PFM000087	Lake Water	0.5	Surface	2003-02-18	4485	0.7	-0.5	-0.5	0.167	17.8	18.4	45.2	5.4
PFM000087	Lake Water	1.5	Bottom	2003-02-18	4486	1.0	-0.5	1.0	0.226	17.2	21.6	53.6	-0.2
PFM000087	Lake Water	0.5	Surface	2003-03-17	4649	-0.5	-0.5	0.4	0.229	11.2	11.1	34.0	6.6
PFM000087	Lake Water	1.5	Bottom	2003-03-17	4650	3.0		3.8	0.312	21.6	19.7	55.0	-0.2
PFM000087	Lake Water	0.5	Surface	2003-03-31	4703	1.0	-0.5	0.8	0.224	13.3	12.9	29.6	12.7
PFM000087	Lake Water	1.5	Bottom	2003-03-31	4704	1.3	-0.5	1.2	0.212	13.4	12.3	29.6	12.4
PFM000087	Lake Water	0.5	Surface	2003-04-21	4735	0.9	-0.5	0.5	0.156	12.2	11.7	26.6	12.8
PFM000087	Lake Water	1.5	Bottom	2003-04-21	4736	1.4	-0.5	0.6	0.177	12.2	12.2	25.0	13.7
PFM000087	Lake Water	0.5	Surface	2003-05-06	4773	0.9	-0.5	-0.5	0.131	13.4	13.3	21.8	11.0
PFM000087	Lake Water	0.5	Surface	2003-05-19	4792	1.9	-0.5	0.6	0.264	15.9	16.0	29.2	
PFM000087	Lake Water	0.5	Surface	2003-06-02	4824	1.6	-0.5	0.6	0.397	16.9	16.8	22.4	
PFM000087	Lake Water	0.5	Surface	2003-06-16	4844	2.4	-0.5	0.5	0.286	16.7	16.7	25.5	
PFM000087	Lake Water	0.5	Surface	2003-07-07	4860	1.6	-0.5	0.7	0.280	16.8	16.1	18.0	
PFM000087	Lake Water	1.34	Surface	2003-08-04	4940	1.9	0.2	0.4	0.362	17.0	17.3	14.7	
PFM000087	Lake Water	0.5	Surface	2003-09-01	4967	1.2	-0.5	0.7	0.253	15.0	14.9	18.5	
PFM000087	Lake Water	0.5	Surface	2003-09-16	8002	1.1	-0.5	0.8	0.269	15.5	15.5	18.9	
PFM000087	Lake Water	0.5	Surface	2003-09-30	8031	1.2	-0.5	0.5	0.169	15.2	14.9	19.9	
PFM000087	Lake Water	0.5	Surface	2003-10-27	8047	1.9	-0.5	0.5	0.222	13.7	13.9	25.0	
PFM000087	Lake Water	1.5	Bottom	2003-10-27	8051	1.7	-0.5	0.5	0.270	12.4	12.1	23.9	
PFM000087	Lake Water	0.5	Surface	2003-11-12	8113	0.5	-0.5	-0.5	0.126	12.2	17.1	24.0	
PFM000087	Lake Water	1.5	Bottom	2003-12-16	8191	0.6	-0.5	0.5	0.224	18.1	18.3	32.4	1.4
PFM000087	Lake Water	0.5	Surface	2003-12-16	8199	-0.5	-0.5	-0.5	0.086	18.5	18.8	30.6	
PFM000087	Lake Water	0.5	Surface	2004-01-12	8215	-0.2	-0.2	0.3	0.119	16.9	18.1	42.5	
PFM000087	Lake Water	1.5	Bottom	2004-01-12	8220	0.6	-0.2	0.6	0.221	24.4	25.1	42.4	-0.2
PFM000087	Lake Water	1.5	Bottom	2004-02-10	8315	0.4	-0.2	0.5	0.190	27.8	27.3	54.4	-0.2
PFM000087	Lake Water	0.5	Surface	2004-02-10	8321	-0.2	-0.2	0.3	0.065	16.3	15.9	44.8	
PFM000087	Lake Water	0.5	Surface	2004-03-16	8355	0.2	-0.2	0.3	0.142	19.8	19.6	48.1	3.1

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000087	Lake Water	1.5	Surface	2004-03-16	8356	0.343		0.0005		1.30	0.0121	0.0017	0.0056	0.0477	9.28
PFM000097	Lake Water	0.5	Surface	2002-04-17	4056	0.0089		0.0016		0.712	0.0122	0.0012	0.0064	0.0333	1.93
PFM000097	Lake Water	0.5	Surface	2002-05-06	4073	0.0144		0.0765		0.795	0.0162	0.0047	0.0091	0.0476	1.34
PFM000097	Lake Water	0.5	Surface	2002-05-13	4099	0.0091	0.002	0.0747	-0.01	0.891	0.0196	0.0041	0.0084	0.0560	0.671
PFM000097	Lake Water	0.5	Surface	2002-05-27	4124	0.0082		0.0039		0.975	0.0176	0.0025	0.0065	0.0657	0.231
PFM000097	Lake Water	0.5	Surface	2002-06-10	4150	0.0161	0.002	0.0029	-0.01	1.24	0.0178	0.0029	0.0067	0.0552	0.434
PFM000097	Lake Water	0.5	Surface	2002-06-24	4181	0.0060	-0.001	0.0019	-0.01	1.28	0.0262	0.0033	0.0066	0.0703	0.639
PFM000097	Lake Water	0.5	Surface	2002-07-15	4205	0.0115		0.0013		1.13	0.0151	0.0026	0.0060	0.0473	0.956
PFM000097	Lake Water	0.5	Surface	2002-08-12	4245	0.0037		0.0014		1.12	0.0156	0.0015	0.0064	0.0539	1.36
PFM000097	Lake Water	0.5	Surface	2002-09-02	4260	0.0044		0.0042				0.0013	0.0056		0.277
PFM000097	Lake Water	0.5	Surface	2002-09-16	4287	0.0061		0.0014		1.28	0.0133	0.0019	0.0041	0.0580	0.102
PFM000097	Lake Water	0.5	Surface	2002-09-30	4315	0.0051		0.0013		1.22	0.0129	0.0022	0.0043	0.0582	0.049
PFM000097	Lake Water	0.5	Surface	2002-12-17	4426	0.0382	0.0015	0.0918		1.36	0.0080	0.0013	0.0036	0.0331	1.99
PFM000097	Lake Water	0.5	Surface	2003-01-15	4452	0.293	0.0019	0.0241		1.46	0.0126	0.0009	0.0059	0.0504	2.05
PFM000097	Lake Water	0.5	Surface	2003-02-18	4499	0.204		0.0311		1.32	0.0121	0.0009	0.0048	0.0376	3.40
PFM000097	Lake Water	0.5	Surface	2003-03-18	4659	0.0492		0.0369		0.848	0.0085	0.0007	0.0050	0.0346	1.41
PFM000097	Lake Water	0.5	Surface	2003-03-31	4719	0.0026		0.0029		0.750	0.0109	0.0013	0.0045	0.0301	1.78
PFM000097	Lake Water	0.5	Surface	2003-04-23	4748	0.0035		0.0017		0.821	0.0141	0.0009	0.0056	0.0575	0.556
PFM000097	Lake Water	0.5	Surface	2003-05-06	4777	0.0030	0.0002	0.0034		0.760	0.0145	0.0012	0.0057	0.0518	0.331
PFM000097	Lake Water	0.4	Surface	2003-05-20	4803	0.0030		0.0023		0.871	0.0163	0.0016	0.0077	0.0757	0.076
PFM000097	Lake Water	0.5	Surface	2003-06-03	4820	0.0031		0.0006		0.912	0.0110	0.0014	0.0042	0.0390	0.080
PFM000097	Lake Water	0.5	Surface	2003-06-17	4842	0.0037		0.0004		0.998	0.0134	0.0013	0.0026	0.0355	0.100
PFM000097	Lake Water	0.5	Surface	2003-07-08	4870	0.0020	0.0001	0.0005	0.0005	1.16	0.0135	-0.0005	0.0052	0.0512	0.142
PFM000097	Lake Water	0.5	Surface	2003-08-05	4943	0.0061		0.0005		1.48	0.0153	0.0016	0.0059	0.0723	0.282
PFM000097	Lake Water	0.5	Surface	2003-09-02	4971	0.0067		0.0003		1.23	0.0129	0.0010	0.0047	0.0515	0.111
PFM000097	Lake Water	0.5	Surface	2003-09-16	4999	0.0077		-0.0002		1.28	0.0125	0.0011	0.0051	0.0655	0.114
PFM000097	Lake Water	0.5	Surface	2003-09-30	8025	0.0091		0.0012		1.14	0.0115	0.0014	0.0040	0.0409	0.093
PFM000097	Lake Water	0.5	Surface	2003-11-13	8115	0.0021		0.0068		0.989	0.0098	-0.0005	0.0039	0.0350	0.449
PFM000097	Lake Water	0.5	Surface	2003-12-17	8208	0.0253		0.0245		1.12	0.0126	-0.0005	0.0050	0.0370	2.33
PFM000097	Lake Water	0.5	Surface	2004-01-13	8217	0.0079	0.0008	0.0049		1.04	0.0098	-0.0005	0.0048	0.0363	6.18

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000087	Lake Water	1.5	Surface	2004-03-16	8356	1.5		2.1	0.325	26.7	26.4	57.2	-0.2
PFM000097	Lake Water	0.5	Surface	2002-04-17	4056	0.9	-0.5	-0.5	0.205	16.4	16.1	16.7	12.1
PFM000097	Lake Water	0.5	Surface	2002-05-06	4073	1.7	-0.5	1.0	0.328		12.0	15.0	9.9
PFM000097	Lake Water	0.5	Surface	2002-05-13	4099				0.365	17.2	16.8	2.5	9.6
PFM000097	Lake Water	0.5	Surface	2002-05-27	4124	1.9	-0.5	-0.5	0.318	18.3	16.2	6.2	10.9
PFM000097	Lake Water	0.5	Surface	2002-06-10	4150	1.2	-0.5	-0.5	0.397	24.0	21.0	22.0	10.6
PFM000097	Lake Water	0.5	Surface	2002-06-24	4181	6.1	-0.5	7.5	0.542	18.5	17.5	14.7	11.1
PFM000097	Lake Water	0.5	Surface	2002-07-15	4205	1.4	0.5	-0.5	0.397	18.0	17.5	19.4	9.5
PFM000097	Lake Water	0.5	Surface	2002-08-12	4245	2.5	-0.5	-0.5	0.459	20.1	20.0	18.2	13.6
PFM000097	Lake Water	0.5	Surface	2002-09-02	4260	1.9	-0.5	0.5		20.6	19.0	0.6	13.5
PFM000097	Lake Water	0.5	Surface	2002-09-16	4287	1.2	-0.5	-0.5		21.6	23.0	8.0	13.9
PFM000097	Lake Water	0.5	Surface	2002-09-30	4315	1.0	-0.5	0.9	0.332	20.1	19.8	14.1	14.8
PFM000097	Lake Water	0.5	Surface	2002-12-17	4426	0.6	-0.5	0.6	0.262	21.6	19.1	18.7	8.7
PFM000097	Lake Water	0.5	Surface	2003-01-15	4452	-0.5	-0.5	-0.5	0.403	17.6	22.8	32.2	0.8
PFM000097	Lake Water	0.5	Surface	2003-02-18	4499	-0.5	-0.5	-0.5	0.272	22.2	19.4	37.9	1.6
PFM000097	Lake Water	0.5	Surface	2003-03-18	4659	-0.5	-0.5	0.7	0.241	5.5	4.2	9.3	4.0
PFM000097	Lake Water	0.5	Surface	2003-03-31	4719	0.6	-0.5	-0.5	0.191	12.5	14.9	20.5	13.2
PFM000097	Lake Water	0.5	Surface	2003-04-23	4748	1.6	-0.5	0.7	0.352	14.9	14.7	21.4	11.0
PFM000097	Lake Water	0.5	Surface	2003-05-06	4777	1.6	-0.5	0.7	0.339	14.3	13.9	17.1	13.0
PFM000097	Lake Water	0.4	Surface	2003-05-20	4803	2.0	-0.5	0.5	0.506	16.0	15.3	19.6	
PFM000097	Lake Water	0.5	Surface	2003-06-03	4820	1.2	-0.5	0.5	0.282	16.5	16.6	15.5	
PFM000097	Lake Water	0.5	Surface	2003-06-17	4842	0.5	-0.5	-0.5	0.258	15.1	17.6	14.0	
PFM000097	Lake Water	0.5	Surface	2003-07-08	4870	1.0	-0.5	-0.5	0.446	19.1	19.1	9.4	
PFM000097	Lake Water	0.5	Surface	2003-08-05	4943	1.7	-0.5	0.4	0.696	21.9	21.6	10.4	
PFM000097	Lake Water	0.5	Surface	2003-09-02	4971	0.9	-0.5	0.5	0.466	18.1	17.9	8.7	
PFM000097	Lake Water	0.5	Surface	2003-09-16	4999	1.2	-0.5	1.1	0.643	18.9	18.8	7.9	
PFM000097	Lake Water	0.5	Surface	2003-09-30	8025	-0.5	-0.5	-0.5	0.404	17.2	16.8	10.5	
PFM000097	Lake Water	0.5	Surface	2003-11-13	8115	1.5	-0.5	-0.5	0.272	12.6	9.8	13.1	
PFM000097	Lake Water	0.5	Surface	2003-12-17	8208	0.7	-0.5	0.6	0.294	20.8	20.4	22.5	
PFM000097	Lake Water	0.5	Surface	2004-01-13	8217	-0.2	-0.2	0.3	0.280	24.4	27.4	31.1	-0.2

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000097	Lake Water	0.5	Surface	2004-02-11	8320	0.0026		0.0018		1.10	0.0128	0.0009	0.0042	0.0484	6.71
PFM000097	Lake Water	0.5	Surface	2004-03-16	8363	0.0091		0.0028		1.24	0.0184	0.0024	0.0101	0.0891	6.50
PFM000107	Lake Water	0.5	Surface	2002-04-01	4018	0.0210		0.0540		0.486	0.0060	0.0010	0.0030	0.0170	2.89
PFM000107	Lake Water	1.4	Bottom	2002-04-01	4019	0.206		0.0200		1.07	0.0120	0.0010	0.0050	0.0410	3.49
PFM000107	Lake Water	0.5	Surface	2002-04-17	4058	0.0226		0.0077		0.696	0.0102	0.0019	0.0038	0.0308	2.35
PFM000107	Lake Water	1.4	Bottom	2002-04-17	4059	0.0183		0.0039		0.709	0.0117	0.0010	0.0041	0.0280	2.24
PFM000107	Lake Water	0.5	Surface	2002-05-06	4068	0.0108		0.0259		0.747	0.0087	0.0009	0.0042	0.0453	0.781
PFM000107	Lake Water	1.5	Bottom	2002-05-06	4069	0.0214		0.0515		0.739	0.0085	0.0014	0.0042	0.0427	1.30
PFM000107	Lake Water	0.5	Surface	2002-05-13	4096	0.0094		0.0076		0.811	0.0143	0.0021	0.0051	0.0466	0.783
PFM000107	Lake Water	1.5	Bottom	2002-05-13	4097	0.0100		0.0239		0.791	0.0157	0.0022	0.0062	0.0589	0.659
PFM000107	Lake Water	0.5	Surface	2002-05-27	4121	0.0028	0.001	0.0023	-0.01	0.890	0.0159	0.0015	0.0070	0.0779	0.416
PFM000107	Lake Water	1.5	Bottom	2002-05-27	4122	0.0032		0.0017		0.899	0.0160	0.0015	0.0068	0.0761	0.397
PFM000107	Lake Water	0.5	Surface	2002-06-10	4151	0.0058		0.0018		0.992	0.0138	0.0018	0.0059	0.0636	0.619
PFM000107	Lake Water	1	Bottom	2002-06-10	4152	0.0040		0.0028		0.984	0.0133	0.0028	0.0052	0.0533	0.624
PFM000107	Lake Water	0.5	Surface	2002-06-24	4178	0.0076		0.0018		1.01	0.0132	0.0013	0.0043	0.0678	0.729
PFM000107	Lake Water	1	Bottom	2002-06-24	4179	0.0076		0.0016		1.03	0.0170	0.0014	0.0060	0.0709	0.705
PFM000107	Lake Water	0.5	Surface	2002-07-15	4206	0.0033		0.0004		1.05	0.0139	0.0018	0.0060	0.0670	0.990
PFM000107	Lake Water	1	Bottom	2002-07-15	4207	0.0050		0.0002		1.03	0.0131	0.0024	0.0050	0.0535	0.994
PFM000107	Lake Water	0.5	Surface	2002-08-12	4233	0.0070		0.0037		1.08	0.0140	0.0014	0.0074	0.0806	1.83
PFM000107	Lake Water	1	Bottom	2002-08-12	4234	0.0066		0.0019		1.06	0.0149	0.0016	0.0058	0.0702	1.86
PFM000107	Lake Water	0.5	Surface	2002-09-02	4261	0.0070		0.0006				0.0012	0.0095		1.92
PFM000107	Lake Water	1	Bottom	2002-09-02	4262	0.0076		0.0005				0.0013	0.0089		1.94
PFM000107	Lake Water	0.5	Surface	2002-09-16	4288	0.0056		0.0006		1.19	0.0169	0.0013	0.0103	0.161	1.45
PFM000107	Lake Water	1	Bottom	2002-09-16	4289	0.0067		0.0003		1.18	0.0158	0.0010	0.0085	0.126	1.50
PFM000107	Lake Water	0.5	Surface	2002-09-30	4302	0.0122		0.0015		1.13	0.0139	0.0014	0.0085	0.0969	0.885
PFM000107	Lake Water	1	Bottom	2002-09-30	4303	0.0126		0.0009		1.12	0.0127	0.0018	0.0065	0.118	0.881
PFM000107	Lake Water	0.5	Surface	2002-11-12	4328	0.0162	0.0003	0.0047		1.10	0.0091	0.0007	0.0043	0.0461	0.235
PFM000107	Lake Water	0.5	Surface	2002-12-17	4420	0.0376	0.0028	0.131		1.30	0.0095	0.0030	0.0032	0.011	4.00
PFM000107	Lake Water	1	Bottom	2002-12-17	4421	0.227	0.0004	0.0036		1.76	0.0067	0.0005	0.0038	0.0323	0.541
PFM000107	Lake Water	0.5	Surface	2003-01-16	4444	0.181	0.0016	0.157		1.08	0.0069	0.0020	0.0036	0.0237	1.28

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000097	Lake Water	0.5	Surface	2004-02-11	8320	0.7	-0.2	0.4	0.339	35.1	32.5	46.7	-0.2
PFM000097	Lake Water	0.5	Surface	2004-03-16	8363	1.0	-0.2	0.6	0.599	32.0	31.2	44.0	-0.2
PFM000107	Lake Water	0.5	Surface	2002-04-01	4018	-0.5	-0.5	-0.5	0.090	8.7	6.3	8.4	4.7
PFM000107	Lake Water	1.4	Bottom	2002-04-01	4019	-0.5	-0.5	-0.5	0.307	17.9	17.5	18.1	2.7
PFM000107	Lake Water	0.5	Surface	2002-04-17	4058	0.7	-0.5	0.5	0.201	14.8	15.9	17.0	12.5
PFM000107	Lake Water	1.4	Bottom	2002-04-17	4059	1.0	-0.5	-0.5	0.167	15.6	15.4	17.0	12.1
PFM000107	Lake Water	0.5	Surface	2002-05-06	4068	1.5	-0.5	-0.5	0.287	12.5	12.0	16.0	10.7
PFM000107	Lake Water	1.5	Bottom	2002-05-06	4069	1.2	-0.5	1.0	0.265	14.3	14.7	16.0	10.7
PFM000107	Lake Water	0.5	Surface	2002-05-13	4096	1.0	-0.5	1.8	0.281	12.0	10.7	2.1	10.1
PFM000107	Lake Water	1.5	Bottom	2002-05-13	4097	1.9	-0.5	0.5	0.353	15.0	15.6	2.7	10.1
PFM000107	Lake Water	0.5	Surface	2002-05-27	4121	3.4	0.6	0.5	0.371	13.6	15.5	5.4	11.3
PFM000107	Lake Water	1.5	Bottom	2002-05-27	4122	2.8	0.6	0.6	0.340	17.5	8.6	3.9	10.9
PFM000107	Lake Water	0.5	Surface	2002-06-10	4151	2.7	-0.5	-0.5	0.396	9.4	11.1	5.4	10.2
PFM000107	Lake Water	1	Bottom	2002-06-10	4152	1.8	-0.5	-0.5	0.363	16.0	18.3	11.9	9.8
PFM000107	Lake Water	0.5	Surface	2002-06-24	4178	2.7	-0.5	-0.5	0.430	15.0	16.6	16.1	10.1
PFM000107	Lake Water	1	Bottom	2002-06-24	4179	2.5	-0.5	-0.5	0.520	16.9	15.5	13.7	10.5
PFM000107	Lake Water	0.5	Surface	2002-07-15	4206	2.6	-0.5	-0.5	0.532	17.6	17.4	15.8	10.9
PFM000107	Lake Water	1	Bottom	2002-07-15	4207	2.1	-0.5	-0.5	0.459	18.3	17.6	16.7	10.3
PFM000107	Lake Water	0.5	Surface	2002-08-12	4233	3.9	-0.5	-0.5	0.624	19.9	19.1	17.0	10.3
PFM000107	Lake Water	1	Bottom	2002-08-12	4234	3.9	-0.5	-0.5	0.637	15.6	18.5	16.7	10.3
PFM000107	Lake Water	0.5	Surface	2002-09-02	4261	4.7	-0.5	-0.5		19.8	10.2	7.4	11.3
PFM000107	Lake Water	1	Bottom	2002-09-02	4262	5.3	-0.5	0.5		19.7	24.2	0.8	10.8
PFM000107	Lake Water	0.5	Surface	2002-09-16	4288	6.1	-0.5	1.3	1.27	16.4	16.4	10.2	11.1
PFM000107	Lake Water	1	Bottom	2002-09-16	4289	4.1	-0.5	4.4	1.15	16.2	20.2	9.4	11.3
PFM000107	Lake Water	0.5	Surface	2002-09-30	4302	3.3	-0.5	-0.5	0.738	24.0	24.1	17.4	12.3
PFM000107	Lake Water	1	Bottom	2002-09-30	4303	2.6	-0.5	-0.5	0.650	19.7	19.4	18.7	12.4
PFM000107	Lake Water	0.5	Surface	2002-11-12	4328	1.3	-0.5	-0.5	0.371	19.0	17.6	21.5	13.4
PFM000107	Lake Water	0.5	Surface	2002-12-17	4420	0.7	-0.5	0.5	0.257	23.2	23.7	28.1	7.9
PFM000107	Lake Water	1	Bottom	2002-12-17	4421	-0.5	-0.5	-0.5	0.222	12.9	15.6	20.7	3.0
PFM000107	Lake Water	0.5	Surface	2003-01-16	4444	-0.5	-0.5	-0.5	0.222	9.7	13.5	21.4	2.7

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000107	Lake Water	1	Bottom	2003-01-16	4447	0.258	0.0024	0.139		1.15	0.0074	0.0012	0.0043	0.0281	2.00
PFM000107	Lake Water	0.5	Surface	2003-02-17	4487	0.159		0.0327		1.19	0.0101	0.0005	0.0040	0.0301	4.99
PFM000107	Lake Water	1	Bottom	2003-02-17	4488	0.277		0.0150		1.44	0.0128	0.0006	0.0035	0.0408	3.28
PFM000107	Lake Water	0.5	Surface	2003-03-17	4639	0.111		0.0221		0.699	0.0078	0.0005	0.0033	0.0271	1.96
PFM000107	Lake Water	1	Bottom	2003-03-17	4640	0.186		0.0103		1.62	0.0136	0.0008	0.0060	0.0227	3.38
PFM000107	Lake Water	0.5	Surface	2003-04-01	4709	0.0040		0.0027		0.740	0.0096	0.0007	0.0053	0.0499	2.17
PFM000107	Lake Water	1	Bottom	2003-04-01	4710	0.0041		0.0024		0.727	0.0092	0.0007	0.0041	0.0401	2.14
PFM000107	Lake Water	0.5	Surface	2003-04-22	4745	0.0051		0.0019		0.791	0.0111	0.0006	0.0043	0.0524	1.19
PFM000107	Lake Water	1	Bottom	2003-04-22	4746	0.0047		0.0014		0.762	0.0110	0.0005	0.0061	0.0670	1.20
PFM000107	Lake Water	0.5	Surface	2003-05-04	4757	0.0063	0.0004	0.0055		0.778	0.0102	0.0005	0.0053	0.0512	0.862
PFM000107	Lake Water	0.5	Surface	2003-05-19	4793	0.0028		0.0006		0.814	0.0117	0.0009	0.0060	0.0712	0.435
PFM000107	Lake Water	0.5	Surface	2003-06-02	4823	0.0061		0.0009		0.873	0.0144	0.0009	0.0065	0.0650	0.250
PFM000107	Lake Water	0.5	Surface	2003-06-16	4843	0.0034		0.0012		0.929	0.0160	0.0015	0.0057	0.0527	0.337
PFM000107	Lake Water	0.5	Surface	2003-07-07	4866	0.0021	0.0001	0.0004	0.0004	1.09	0.0158	0.0010	0.0077	0.0537	0.338
PFM000107	Lake Water	0.5	Surface	2003-08-04	4936	0.0028		0.0003		1.30	0.0207	0.0010	0.0181	0.298	1.17
PFM000107	Lake Water	0.5	Surface	2003-09-01	4944	0.0041		0.0005		1.25	0.0191	0.0007	0.0119	0.179	0.406
PFM000107	Lake Water	0.5	Surface	2003-09-15	4992	0.0068		0.0003		1.21	0.0142	-0.0005	0.0084	0.120	0.222
PFM000107	Lake Water	0.5	Surface	2003-09-29	8022	0.0076		0.0046		1.23	0.0187	0.0007	0.0137	0.164	0.097
PFM000107	Lake Water	0.5	Surface	2003-11-24	8131	0.0270		0.0185		1.00	0.0105	-0.0005	0.0046	0.0360	1.01
PFM000107	Lake Water	1	Bottom	2004-01-13	8214	0.104	0.0016	0.0265		1.15	0.0099	-0.0005	0.0042	0.0313	3.91
PFM000107	Lake Water	0.5	Surface	2004-01-13	8213	0.0256	0.0018	0.0475		1.08	0.0091	-0.0005	0.0030	0.0259	5.07
PFM000107	Lake Water	1	Bottom	2004-02-09	8303	0.203		0.0038		1.32	0.0132	-0.0005	0.0049	0.0435	4.51
PFM000107	Lake Water	0.5	Surface	2004-02-09	8304	0.112		0.0590		1.23	0.0103	-0.0005	0.0030	0.0303	4.89
PFM000107	Lake Water	0.5	Surface	2004-03-15	8342	0.0874		0.0243		1.23	0.0111	0.0004	0.0046	0.0514	5.33
PFM000107	Lake Water	1	Surface	2004-03-15	8349	0.125		0.0047		1.24	0.0117	-0.0005	0.0053	0.0529	5.11
PFM000117	Lake Water	0.5	Surface	2002-04-01	4020	0.0680		0.0550		0.456	0.0080	0.0010	0.0060	0.0420	0.933
PFM000117	Lake Water	1.5	Bottom	2002-04-01	4021	0.486		0.0260		1.45	0.0100	0.0010	0.0050	0.0380	4.61
PFM000117	Lake Water	0.5	Surface	2002-04-16	4048	0.188		0.0141		1.08	0.0088	0.0019	0.0054	0.0336	3.36
PFM000117	Lake Water	1.5	Bottom	2002-04-16	4049	0.213		0.0161		1.08	0.0095	0.0020	0.0051	0.0333	3.39
PFM000117	Lake Water	0.5	Surface	2002-05-05	4079	0.0370		0.0279		1.01	0.0094	0.0030	0.0029	0.0756	2.12

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000107	Lake Water	1	Bottom	2003-01-16	4447	0.5	-0.5	0.8	0.247	18.1	14.0	27.8	6.1
PFM000107	Lake Water	0.5	Surface	2003-02-17	4487	-0.5	-0.5	-0.5	0.229	22.2	21.8	38.3	1.5
PFM000107	Lake Water	1	Bottom	2003-02-17	4488	-0.5	-0.5	-0.5	0.252	22.6	22.3	37.2	
PFM000107	Lake Water	0.5	Surface	2003-03-17	4639	0.5	-0.5	0.2	0.188	8.5	8.2	14.9	3.9
PFM000107	Lake Water	1	Bottom	2003-03-17	4640	0.5	-0.5	1.1	0.168	19.7	20.0	34.8	2.2
PFM000107	Lake Water	0.5	Surface	2003-04-01	4709	1.9	-0.5	0.7	0.391	14.8	14.5	20.8	12.5
PFM000107	Lake Water	1	Bottom	2003-04-01	4710	1.5	-0.5	1.4	0.295	14.9	13.9	21.2	12.6
PFM000107	Lake Water	0.5	Surface	2003-04-22	4745	1.8	-0.5	0.9	0.330	14.5	14.6	20.4	12.9
PFM000107	Lake Water	1	Bottom	2003-04-22	4746	1.5	-0.5	0.7	0.428	14.4	14.6	21.3	13.1
PFM000107	Lake Water	0.5	Surface	2003-05-04	4757	1.9	-0.5	0.8	0.346	13.7	13.9	18.8	12.0
PFM000107	Lake Water	0.5	Surface	2003-05-19	4793	2.4	-0.5	0.5	0.463	15.1	14.6	20.3	
PFM000107	Lake Water	0.5	Surface	2003-06-02	4823	1.3	-0.5	0.5	0.429	15.8	15.8	17.0	
PFM000107	Lake Water	0.5	Surface	2003-06-16	4843	3.0	-0.5	0.9	0.348	16.3	16.5	20.2	
PFM000107	Lake Water	0.5	Surface	2003-07-07	4866	4.7	-0.5	1.0	0.380	16.8	16.1	17.2	
PFM000107	Lake Water	0.5	Surface	2003-08-04	4936	6.6	-0.5	1.0	2.58	18.4	18.0	10.4	
PFM000107	Lake Water	0.5	Surface	2003-09-01	4944	4.3	-0.5	-0.5	1.490	17.1	16.3	9.4	
PFM000107	Lake Water	0.5	Surface	2003-09-15	4992	2.2	-0.5	0.4	0.943	16.8	15.0	10.4	
PFM000107	Lake Water	0.5	Surface	2003-09-29	8022				1.27	16.9	16.9	12.4	
PFM000107	Lake Water	0.5	Surface	2003-11-24	8131	1.4	-0.5	-0.5	0.305	14.9	10.9	11.9	
PFM000107	Lake Water	1	Bottom	2004-01-13	8214	0.2	-0.2	0.5	0.248	21.5	20.5	28.7	1.8
PFM000107	Lake Water	0.5	Surface	2004-01-13	8213	-0.2	-0.2	0.2	0.218	20.7	24.3	30.1	
PFM000107	Lake Water	1	Bottom	2004-02-09	8303	0.3	-0.2	0.4	0.343	23.6	23.6	37.9	0.3
PFM000107	Lake Water	0.5	Surface	2004-02-09	8304	-0.2	-0.2	-0.2	0.233	23.5	23.4	36.1	
PFM000107	Lake Water	0.5	Surface	2004-03-15	8342	0.7	-0.2	0.3	0.438	25.5	24.3	39.7	1.0
PFM000107	Lake Water	1	Surface	2004-03-15	8349	0.7	0.2	0.6	0.432	24.1	22.2	38.6	0.7
PFM000117	Lake Water	0.5	Surface	2002-04-01	4020	-0.5	-0.5	-0.5	0.278	6.5	5.9	7.9	4.4
PFM000117	Lake Water	1.5	Bottom	2002-04-01	4021	-0.5	-0.5	-0.5	0.242	16.0	16.0	27.0	3.9
PFM000117	Lake Water	0.5	Surface	2002-04-16	4048	1.6	-0.5	-0.5	0.252				11.4
PFM000117	Lake Water	1.5	Bottom	2002-04-16	4049	1.3	-0.5	1.8	0.279				11.6
PFM000117	Lake Water	0.5	Surface	2002-05-05	4079	2.4	-0.5	-0.5	0.492	17.8	16.1	22.4	11.1

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000117	Lake Water	1.5	Bottom	2002-05-05	4082	0.0387		0.0266	0.929	0.0091	0.0027	0.0089	0.0662	0.662	2.13
PFM000117	Lake Water	0.5	Surface	2002-05-13	4102	0.0071		0.0131	0.979	0.0113	0.0026	0.0054	0.0841	0.841	1.48
PFM000117	Lake Water	1.5	Bottom	2002-05-13	4103	0.0074		0.0240	0.958	0.0090	0.0014	0.0060	0.0706	0.706	0.377
PFM000117	Lake Water	0.5	Surface	2002-05-28	4129	0.0072		0.0019	1.04	0.0120	0.0009	0.0044	0.0782	0.782	1.28
PFM000117	Lake Water	1.5	Bottom	2002-05-28	4138	0.0125		0.0012	1.08	0.0107	0.0009	0.0047	0.0762	0.762	1.26
PFM000117	Lake Water	0.5	Surface	2002-06-11	4153	0.0106		0.0028	1.14	0.0115	0.0028		0.110	0.110	1.37
PFM000117	Lake Water	1.5	Bottom	2002-06-11	4154	0.0145		0.0025	1.13	0.0102	0.0025		0.0967	0.0967	1.41
PFM000117	Lake Water	0.5	Surface	2002-06-25	4190	0.0070		0.0018	1.16	0.0135	0.0005	0.0047	0.0932	0.932	1.62
PFM000117	Lake Water	1.5	Bottom	2002-06-25	4191	0.0073		0.0004	1.10	0.0089	-0.0005	0.0036	0.0742	0.742	1.62
PFM000117	Lake Water	0.5	Surface	2002-07-16	4217	0.0118		0.0010	1.13	0.0083	0.0017	0.0040	0.0787	0.787	1.94
PFM000117	Lake Water	1.5	Bottom	2002-07-16	4218	0.0132		0.0010	1.13	0.0080	0.0020	0.0037	0.0760	0.760	1.89
PFM000117	Lake Water	0.5	Surface	2002-08-13	4235	0.0165		0.0020	1.16	0.0072	0.0018	0.0027	0.0604	0.604	2.59
PFM000117	Lake Water	1.5	Bottom	2002-08-13	4236	0.0182		0.0014	1.17	0.0084	0.0014	0.0031	0.0568	0.568	2.58
PFM000117	Lake Water	0.5	Surface	2002-09-03	4265	0.0207		0.0010			0.0018	0.0039			3.35
PFM000117	Lake Water	1.5	Bottom	2002-09-03	4266	0.0227		0.0007			0.0015	0.0047			3.32
PFM000117	Lake Water	0.5	Surface	2002-09-17	4282	0.0326		0.0013	1.24	0.0090	0.0042	0.0031	0.0710	0.710	3.35
PFM000117	Lake Water	1.5	Bottom	2002-09-17	4283	0.0320		0.0007	1.20	0.0075	0.0012	0.0033	0.0590	0.590	3.28
PFM000117	Lake Water	0.5	Surface	2002-10-01	4298	0.0520		0.0050	1.24	0.0077	0.0016		0.0704	0.704	3.05
PFM000117	Lake Water	1.5	Bottom	2002-10-01	4299	0.0502		0.0024	1.25	0.0099	0.0012	0.0052			3.02
PFM000117	Lake Water	0.5	Surface	2002-12-17	4412	0.284	0.0010	0.0498	1.53	0.0071	0.0019	0.0028	0.0477	0.477	2.94
PFM000117	Lake Water	1.5	Bottom	2002-12-17	4413	0.849	0.0011	0.0136	1.91	0.0085	0.0030	0.0032	0.0454	0.454	3.26
PFM000117	Lake Water	0.5	Surface	2003-01-15	4440	0.465	0.0013	0.0693	1.94	0.0074	0.0023	0.0032	0.0380	0.380	3.54
PFM000117	Lake Water	1.5	Bottom	2003-01-15	4451	0.759	0.0021	0.0280	2.05	0.0069	0.0010	0.0029	0.0472	0.472	3.71
PFM000117	Lake Water	0.5	Surface	2003-02-18	4491	0.708		0.0298	1.76	0.0116	0.0014	0.0034	0.0355	0.355	3.97
PFM000117	Lake Water	1.5	Bottom	2003-02-18	4492	0.795		0.0140	2.16	0.0121	0.0009	0.0040	0.0434	0.434	3.87
PFM000117	Lake Water	0.5	Surface	2003-03-18	4655	0.763		0.0198	1.46	0.0095	0.0009	0.0069	0.0614	0.614	3.55
PFM000117	Lake Water	1.5	Bottom	2003-03-18	4656	0.838		0.0116	2.12	0.0096	0.0008	0.0072	0.0588	0.588	3.83
PFM000117	Lake Water	0.5	Surface	2003-04-22	4733	0.0685		0.0075	1.06	0.0090	0.0009	0.0050	0.0729	0.729	1.98
PFM000117	Lake Water	0.5	Surface	2003-04-22	4734	0.0697		0.0074	1.03	0.0094	0.0010	0.0043	0.0619	0.619	1.99
PFM000117	Lake Water	0.5	Surface	2003-05-06	4774	0.0116	0.0005	0.0051	0.976	0.0096	0.0009	0.0042	0.0540	0.540	1.11

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000117	Lake Water	1.5	Bottom	2002-05-05	4082	2.1	-0.5	-0.5	0.420	16.8	16.0	19.0	11.6
PFM000117	Lake Water	0.5	Surface	2002-05-13	4102	3.6	-0.5	0.7	0.576	18.1	17.8	2.6	11.6
PFM000117	Lake Water	1.5	Bottom	2002-05-13	4103	2.8	-0.5	-0.5	0.429	18.2	8.3	0.9	11.5
PFM000117	Lake Water	0.5	Surface	2002-05-28	4129	2.2	-0.5	-0.5	0.358	17.0	16.9	3.2	12.2
PFM000117	Lake Water	1.5	Bottom	2002-05-28	4138	1.8	-0.5	1.1	0.398	17.8	19.2	2.9	11.8
PFM000117	Lake Water	0.5	Surface	2002-06-11	4153	3.5	0.6	0.9	0.799	15.5	18.9	9.3	11.0
PFM000117	Lake Water	1.5	Bottom	2002-06-11	4154	2.5	-0.5	-0.5	0.703	15.0	19.6	14.0	11.2
PFM000117	Lake Water	0.5	Surface	2002-06-25	4190	1.5	-0.5	0.9	0.635	18.8	18.7	17.2	10.3
PFM000117	Lake Water	1.5	Bottom	2002-06-25	4191	2.2	-0.5	0.5	0.628	16.9	17.6	16.6	10.8
PFM000117	Lake Water	0.5	Surface	2002-07-16	4217	3.7	0.5	-0.5	0.701	19.6	17.7	15.5	10.2
PFM000117	Lake Water	1.5	Bottom	2002-07-16	4218	3.5	0.5	-0.5	0.692	18.7	17.9	16.0	10.0
PFM000117	Lake Water	0.5	Surface	2002-08-13	4235	2.3	-0.5	-0.5	0.514	18.8	18.6	15.2	9.9
PFM000117	Lake Water	1.5	Bottom	2002-08-13	4236	2.6	-0.5	0.7	0.451	19.2	18.4	16.6	9.6
PFM000117	Lake Water	0.5	Surface	2002-09-03	4265	1.9	-0.5	-0.5		19.4	19.5	13.3	9.3
PFM000117	Lake Water	1.5	Bottom	2002-09-03	4266	1.4	-0.5	1.1		19.2	16.3	1.3	9.9
PFM000117	Lake Water	0.5	Surface	2002-09-17	4282	2.4	-0.5	-0.5	0.564	19.6	18.2	1.2	10.2
PFM000117	Lake Water	1.5	Bottom	2002-09-17	4283	2.3	-0.5	-0.5	0.548	19.2	11.1	1.9	10.2
PFM000117	Lake Water	0.5	Surface	2002-10-01	4298	1.1	-0.5	-0.5	0.488	20.0	19.4	19.0	11.5
PFM000117	Lake Water	1.5	Bottom	2002-10-01	4299	0.6	-0.5	-0.5		19.4	19.7	20.8	10.6
PFM000117	Lake Water	0.5	Surface	2002-12-17	4412	1.5	-0.5	0.9	0.496	19.1	20.4	19.7	14.0
PFM000117	Lake Water	1.5	Bottom	2002-12-17	4413	0.5	-0.5	0.6	0.382	19.3	18.2	27.9	2.8
PFM000117	Lake Water	0.5	Surface	2003-01-15	4440	1.1	-0.5	-0.5	0.430	20.4	20.7	25.7	10.8
PFM000117	Lake Water	1.5	Bottom	2003-01-15	4451	-0.5	-0.5	0.5	0.411	20.1	21.6	16.8	4.2
PFM000117	Lake Water	0.5	Surface	2003-02-18	4491	-0.5	-0.5	-0.5	0.222	22.8	22.6	27.1	0.8
PFM000117	Lake Water	1.5	Bottom	2003-02-18	4492	-0.5	-0.5	0.5	0.343	20.4	22.1	34.1	0.7
PFM000117	Lake Water	0.5	Surface	2003-03-18	4655	-0.5	-0.5	0.7	0.466	18.8	18.8	24.6	0.8
PFM000117	Lake Water	1.5	Bottom	2003-03-18	4656	0.6	-0.5	0.4	0.600	20.8	21.4	20.1	0.7
PFM000117	Lake Water	0.5	Surface	2003-04-22	4733	2.1	-0.5	-0.5	0.536	17.3	16.6	22.9	13.9
PFM000117	Lake Water	0.5	Surface	2003-04-22	4734	2.6	-0.5	0.6	0.411	17.2	17.1	21.5	14.2
PFM000117	Lake Water	0.5	Surface	2003-05-06	4774	1.7	-0.5	-0.5	0.513	16.0	16.3	18.7	11.9

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000117	Lake Water	0.5	Surface	2003-05-20	4797	0.0118		0.0010		1.00	0.0076	0.0005	0.0056	0.0673	0.446
PFM000117	Lake Water	0.5	Surface	2003-06-03	4825	0.0134		0.0015		1.08	0.0101	0.0011	0.0045	0.0500	0.160
PFM000117	Lake Water	0.5	Surface	2003-06-17	4847	0.0134		0.0012		1.11	0.0087	0.0013	0.0035	0.0510	0.208
PFM000117	Lake Water	0.5	Surface	2003-07-08	4867	0.0123	0.0001	0.0006		1.21	0.0072	0.0009	0.0056	0.0950	0.455
PFM000117	Lake Water	0.5	Surface	2003-08-05	4942	0.0113		0.0011		1.34	0.0096	0.0008	0.0049	0.0924	1.87
PFM000117	Lake Water	0.5	Surface	2003-09-02	4975	0.0130		0.0010		1.31	0.0088	0.0007	0.0048	0.0916	1.95
PFM000117	Lake Water	0.5	Surface	2003-09-16	4976	0.0147		0.0008		1.46	0.0105	0.0005	0.0041	0.0886	1.86
PFM000117	Lake Water	0.5	Surface	2003-09-30	8027	0.0457		0.0084		1.35	0.0090	0.0008	0.0043	0.0657	1.82
PFM000117	Lake Water	0.5	Surface	2003-11-13	8112	0.234		0.0189		1.37	0.0072	-0.0005	0.0035	0.0473	1.61
PFM000117	Lake Water	1.5	Bottom	2003-12-16	8189	0.420		0.0256		1.53	0.0080	-0.0005	0.0033	0.0377	2.21
PFM000117	Lake Water	0.5	Surface	2003-12-16	8197	0.392		0.0284		1.53	0.0082	-0.0005	0.0033	0.0414	2.23
PFM000117	Lake Water	0.5	Surface	2004-01-14	8210	0.472	0.0011	0.0259		1.61	0.0077	0.0009	0.0037	0.0369	2.48
PFM000117	Lake Water	0.5	Surface	2004-02-11	8309	0.367		0.0324		1.59	0.0091	-0.0005	0.0028	0.0272	3.69
PFM000117	Lake Water	1.5	Bottom	2004-02-11	8323	0.940		0.0006		2.14	0.0103	-0.0005	0.0048	0.0422	3.74
PFM000117	Lake Water	1.5	Surface	2004-03-16	8352	0.673		0.0105		1.78	0.0102	0.0008	0.0042	0.0426	3.79
PFM000117	Lake Water	0.5	Surface	2004-03-16	8353	0.630		0.0246		1.93	0.0098	0.0008	0.0039	0.0404	3.52
PFM000127	Lake Water	0.5	Surface	2002-05-27	4132	0.0079	-0.001	0.0021	-0.01	1.09	0.0173	0.0032	0.0074	0.0733	0.156
PFM000127	Lake Water	1	Bottom	2002-05-27	4133	0.0078		0.0013		1.07	0.0176	0.0023	0.0054	0.0722	0.155
PFM000127	Lake Water	0.5	Surface	2002-06-24	4162	0.0116		0.0017		1.36	0.0210	0.0019	0.0132	0.209	1.05
PFM000127	Lake Water	0.5	Surface	2002-06-10	4163	0.0050	0.001	0.0019	-0.01	1.45	0.0246	0.0019	0.0126	0.156	0.728
PFM000127	Lake Water	1	Bottom	2002-06-10	4164	0.0068		0.0019		1.41	0.0236	0.0019	0.0128	0.159	0.866
PFM000127	Lake Water	1	Bottom	2002-06-24	4177	0.0084		0.0036		1.37	0.0211	0.0017	0.0128	0.207	1.08
PFM000127	Lake Water	0.5	Surface	2002-07-15	4215	0.0132		0.0009		1.45	0.0195	0.0030	0.0115	0.174	1.24
PFM000127	Lake Water	1	Bottom	2002-07-15	4216	0.0102		0.0010		1.41	0.0185	0.0032	0.0108	0.151	1.23
PFM000127	Lake Water	0.5	Surface	2002-08-12	4232	0.0080	0.002	-0.01	-0.01	1.51	0.0204	0.0016	0.0130	0.214	2.12
PFM000127	Lake Water	1	Bottom	2002-08-12	4241	0.0077		0.0016		1.52	0.0209	0.0019	0.0115	0.142	2.16
PFM000127	Lake Water	0.5	Surface	2002-09-01	4247	0.0196		0.0006				0.0019	0.0131		2.93
PFM000127	Lake Water	1.1	Bottom	2002-09-01	4248	0.0241	0.002	0.0006	-0.01		0.0300	0.0018	0.0141		2.91
PFM000127	Lake Water	0.5	Surface	2002-09-16	4290	0.0475		0.0017		2.01	0.0271	0.0036	0.0175	0.257	2.09
PFM000127	Lake Water	1	Bottom	2002-09-16	4291	0.0354		0.0003		2.00	0.0255	0.0028	0.0154	0.259	2.07

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000117	Lake Water	0.5	Surface	2003-05-20	4797	1.8	-0.5	-0.5	0.478	17.5	17.3	20.4	
PFM000117	Lake Water	0.5	Surface	2003-06-03	4825	1.3	-0.5	-0.5	0.301	17.7	17.2	18.6	
PFM000117	Lake Water	0.5	Surface	2003-06-17	4847	1.6	-0.5	0.8	0.405	17.7	17.7	20.1	
PFM000117	Lake Water	0.5	Surface	2003-07-08	4867	3.1	-0.5	-0.5	0.771	17.8	17.7	15.4	
PFM000117	Lake Water	0.5	Surface	2003-08-05	4942	2.8	0.3	1.0	0.820	18.6	18.1	12.8	
PFM000117	Lake Water	0.5	Surface	2003-09-02	4975	2.1	-0.5	1.5	0.721	18.4	18.1	13.8	
PFM000117	Lake Water	0.5	Surface	2003-09-16	4976	2.6	-0.5	1.7	0.802	13.5	17.5	12.2	
PFM000117	Lake Water	0.5	Surface	2003-09-30	8027	2.5	-0.5	0.8	0.629	11.7	17.4	11.7	
PFM000117	Lake Water	0.5	Surface	2003-11-13	8112	2.1	-0.5	-0.5	0.480	9.7	16.3	10.0	
PFM000117	Lake Water	1.5	Bottom	2003-12-16	8189	1.1	0.5	1.2	0.349	17.7	17.2	18.9	
PFM000117	Lake Water	0.5	Surface	2003-12-16	8197	1.5	-0.5	0.6	0.342	19.1	18.5	19.8	
PFM000117	Lake Water	0.5	Surface	2004-01-14	8210	0.5	-0.2	0.6	0.361	19.5	19.0	23.3	
PFM000117	Lake Water	0.5	Surface	2004-02-11	8309	0.3	0.2	0.4	0.223	26.0	25.9	28.6	
PFM000117	Lake Water	1.5	Bottom	2004-02-11	8323	0.9	-0.2	0.4	0.318	22.7	21.4	31.0	-0.2
PFM000117	Lake Water	1.5	Surface	2004-03-16	8352	0.8	-0.2	0.9	0.318	22.2	22.2	32.5	1.4
PFM000117	Lake Water	0.5	Surface	2004-03-16	8353	1.4	0.2	0.3	0.320	23.3	22.3	30.9	3.0
PFM000127	Lake Water	0.5	Surface	2002-05-27	4132	1.1	-0.5	-0.5	0.327	15.9	12.3	0.9	13.6
PFM000127	Lake Water	1	Bottom	2002-05-27	4133	1.5	-0.5	-0.5	0.339	15.6	17.1	1.2	14.0
PFM000127	Lake Water	0.5	Surface	2002-06-24	4162	3.0	-0.5	-0.5	1.29	14.0	16.4	10.8	11.3
PFM000127	Lake Water	0.5	Surface	2002-06-10	4163	3.0	-0.5	0.8	1.10	22.0	19.0	18.0	12.9
PFM000127	Lake Water	1	Bottom	2002-06-10	4164	3.3	-0.5	0.7	1.13	11.3	7.5	9.0	13.0
PFM000127	Lake Water	1	Bottom	2002-06-24	4177	3.6	-0.5	-0.5	1.25	16.1	17.1	11.6	11.8
PFM000127	Lake Water	0.5	Surface	2002-07-15	4215	6.0	-0.5	1.3	1.61	18.1	16.3	9.8	11.4
PFM000127	Lake Water	1	Bottom	2002-07-15	4216	4.4	-0.5	1.1	1.47	17.8	16.5	15.1	11.1
PFM000127	Lake Water	0.5	Surface	2002-08-12	4232	7.1	-0.5	-0.5	1.80	18.3	17.4	14.7	12.2
PFM000127	Lake Water	1	Bottom	2002-08-12	4241	7.3	-0.5	1.5	1.15	19.0	15.2	16.5	12.3
PFM000127	Lake Water	0.5	Surface	2002-09-01	4247	14.3	1.0	-0.5		20.5	18.2	16.1	12.3
PFM000127	Lake Water	1.1	Bottom	2002-09-01	4248	10.5	-0.5	2.4		20.6	19.9	17.7	12.4
PFM000127	Lake Water	0.5	Surface	2002-09-16	4290	13.9	-0.5	-0.5	2.54	23.0	22.0	18.8	12.3
PFM000127	Lake Water	1	Bottom	2002-09-16	4291	11.9	-0.5	-0.5	2.56	22.9	22.9	1.7	11.5

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000127	Lake Water	0.5	Surface	2002-09-30	4296	0.132		0.0025		1.93	0.0213	0.0020	0.0111	0.123	1.04
PFM000127	Lake Water	1	Bottom	2002-09-30	4297	0.148		0.0039		1.92	0.0224	0.0020	0.0106	0.133	1.06
PFM000127	Lake Water	0.5	Surface	2003-09-02	4966	0.0072		0.0007		2.16	0.0375	0.0028	0.0340	0.685	2.86
PFM000127	Lake Water	0.5	Surface	2003-09-16	4977	0.0061		0.0002		2.08	0.0357	0.0030	0.0183	0.361	1.97
PFM000127	Lake Water	0.5	Surface	2003-09-30	8033	0.0169		0.0064		1.82	0.0242	0.0030	0.0178	0.283	1.13
PFM000127	Lake Water	1	Bottom	2003-10-27	8053	0.0201	0.0001	0.0009		1.59	0.0148	0.0006	0.0073	0.0988	0.257
PFM000127	Lake Water	0.5	Surface	2003-10-27	8054	0.0206	0.0001	0.0009		1.59	0.0155	0.0007	0.0077	0.100	0.257
PFM000127	Lake Water	0.5	Surface	2003-11-13	8110	0.0539		0.0120		1.43	0.0144	-0.0005	0.0079	0.0903	0.297
PFM000127	Lake Water	0.5	Surface	2003-11-24	8134	0.0861		0.0189		1.40	0.0140	-0.0005	0.0064	0.0604	0.434
PFM000135	Lake Water	0.5	Surface	2002-03-19	4006	0.0460		0.0440		0.984	0.0200	0.0010	0.0115	0.0880	6.04
PFM000135	Lake Water	0.5	Surface	2002-12-17	4414	1.23	0.0044	0.261		3.20	0.0156	0.0019	0.0065	0.0677	1.25
PFM000135	Lake Water	0.5	Surface	2003-01-15	4443	1.41	0.0004	0.0071		3.71	0.0190	0.0036	0.0114	0.0860	2.09
PFM000135	Lake Water	0.5	Surface	2003-08-05	4941	0.0058		0.0003		2.53	0.0387	0.0021	0.0361	0.743	3.47
PFM000135	Lake Water	0.5	Surface	2003-12-16	8196	0.194		0.0241		1.49	0.0147	0.0005	0.0058	0.0628	1.26
PFM000135	Lake Water	0.5	Surface	2004-01-14	8230	0.441	0.0012	0.0131		1.77	0.0201	0.0017	0.0117	0.0997	4.96
PFM000135	Lake Water	0.5	Surface	2004-02-09	8306	0.656		0.0015		2.18	0.0215	0.0006		0.0837	5.50
PFM000135	Lake Water	1	Bottom	2004-02-09	8307	0.599		0.0013		2.17	0.0207	0.0006	0.0093	0.0956	6.25
PFM000135	Lake Water	0.5	Surface	2004-03-17	8360	0.136		0.0028		1.74	0.0263	0.0029	0.0144	0.0954	4.09
PFM000135	Lake Water	1	Surface	2004-03-17	8361	0.0421		0.0006		1.71	0.0212	0.0028	0.0084	0.0650	4.95
PFM000151	Lake Water	0.5	Surface	2002-04-02	4033	0.0070		0.0060		0.332	0.0060	0.0010	0.0040	0.0280	2.16
PFM000151	Lake Water	0.5	Surface	2002-04-16	4052	0.0041		0.0027		0.535	0.0069	0.0014	0.0029	0.0112	3.87
PFM000151	Lake Water	0.5	Surface	2002-05-12	4090	0.0029	0.002	0.0266	-0.01	0.727	0.0100	0.0015	0.0043	0.0331	2.88
PFM000151	Lake Water	0.5	Surface	2002-05-26	4111	0.0030		0.0034		0.879	0.0168	0.0023	0.0086	0.0754	3.70
PFM000062	Sea Water	0.5	Surface	2002-05-07	4076	0.0022		0.113		0.273	0.0125	0.0009	0.0067	0.0397	2.08
PFM000062	Sea Water	3	Bottom	2002-05-07	4081	0.0022	-0.001	0.0150	-0.01	0.269	0.0134	0.0010	0.0067	0.0483	0.132
PFM000062	Sea Water	3.5	Bottom	2002-05-14	4109	0.0008		0.0061		0.277	0.0078	0.0005	0.0034	0.0344	0.268
PFM000062	Sea Water	0.5	Surface	2002-05-14	4110	0.0007		0.0081		0.266	0.0076	0.0005	0.0046	0.0457	0.248
PFM000062	Sea Water	0.5	Surface	2002-05-27	4120	0.0012	-0.001	0.0008	-0.01	0.248	0.0094	-0.0005	0.0040	0.0387	0.098
PFM000062	Sea Water	3	Bottom	2002-05-27	4127	0.0010		0.0009		0.244	0.0092	-0.0005	0.0030	0.0296	0.132
PFM000062	Sea Water	0.5	Surface	2002-06-10	4145	0.0005		0.0011		0.238	0.0082	0.0011		0.0306	0.177

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000127	Lake Water	0.5	Surface	2002-09-30	4296	2.8	-0.5	-0.5	1.14	17.4	17.7	19.2	12.7
PFM000127	Lake Water	1	Bottom	2002-09-30	4297	1.3	-0.5	-0.5	1.18	21.7	19.3	16.2	12.3
PFM000127	Lake Water	0.5	Surface	2003-09-02	4966	15.9	0.8	-0.5	4.98	20.9	18.8	10.1	
PFM000127	Lake Water	0.5	Surface	2003-09-16	4977	10.8	0.6	5.3	3.34	20.0	19.7	11.7	
PFM000127	Lake Water	0.5	Surface	2003-09-30	8033	11.0	-0.5	2.4	2.51	19.8	19.1	14.5	
PFM000127	Lake Water	1	Bottom	2003-10-27	8053	2.2	-0.5	1.0	0.919	17.6	18.3	16.9	
PFM000127	Lake Water	0.5	Surface	2003-10-27	8054	2.6	0.5	1.0	0.889	16.9	18.7	17.3	
PFM000127	Lake Water	0.5	Surface	2003-11-13	8110	4.2	0.7	2.0	0.774	13.3	12.7	14.1	
PFM000127	Lake Water	0.5	Surface	2003-11-24	8134	2.7	-0.5	0.8	0.536	14.7	14.5	13.3	
PFM000135	Lake Water	0.5	Surface	2002-03-19	4006	-0.5	-0.5	-0.5	0.712	16.0	17.0	25.0	
PFM000135	Lake Water	0.5	Surface	2002-12-17	4414	13.6	1.9	10.1	0.533	17.0	17.4	28.3	2.2
PFM000135	Lake Water	0.5	Surface	2003-01-15	4443	0.5	-0.5	-0.5	0.745	23.8	23.1	43.6	
PFM000135	Lake Water	0.5	Surface	2003-08-05	4941	17.7	0.4	1.6	6.34	22.7	22.1	9.0	
PFM000135	Lake Water	0.5	Surface	2003-12-16	8196	2.7	0.5	1.3	0.478	17.7	18.3	21.9	
PFM000135	Lake Water	0.5	Surface	2004-01-14	8230	1.4	0.2	0.8	0.771	22.3	23.8	38.7	0.2
PFM000135	Lake Water	0.5	Surface	2004-02-09	8306	1.3	-0.2	0.7	0.602	26.2	26.1	43.0	-0.2
PFM000135	Lake Water	1	Bottom	2004-02-09	8307	0.7	-0.2	0.5	0.712	27.8	28.0	46.8	-0.2
PFM000135	Lake Water	0.5	Surface	2004-03-17	8360	2.4	0.6	0.8	0.600	26.0	26.3	45.9	
PFM000135	Lake Water	1	Surface	2004-03-17	8361	1.4	0.3	0.7	0.434	28.1	29.1	51.4	
PFM000151	Lake Water	0.5	Surface	2002-04-02	4033	4.4	0.7	-0.5	0.222	7.3	7.1	17.0	5.5
PFM000151	Lake Water	0.5	Surface	2002-04-16	4052	-0.5	-0.5	-0.5	0.097	10.0	12.0	25.0	7.6
PFM000151	Lake Water	0.5	Surface	2002-05-12	4090	0.9	-0.5	1.0	0.219	11.0	12.0	8.5	8.6
PFM000151	Lake Water	0.5	Surface	2002-05-26	4111	4	0.6	0.9	0.609	19.0	17.2	15.1	10.2
PFM000062	Sea Water	0.5	Surface	2002-05-07	4076	5.2	0.8	0.6	0.261	2.4	1.9	1.8	13.4
PFM000062	Sea Water	3	Bottom	2002-05-07	4081	4.3	0.7	0.8	0.314	3.7	1.8	0.6	13.3
PFM000062	Sea Water	3.5	Bottom	2002-05-14	4109	1.0	-0.5	-0.5	0.318	1.9	1.1	0.3	14.9
PFM000062	Sea Water	0.5	Surface	2002-05-14	4110	1.2	-0.5	1.1	0.350	1.8	1.6	0.4	15.7
PFM000062	Sea Water	0.5	Surface	2002-05-27	4120	2.2	-0.5	-0.5	0.140	3.5	2.6	9.8	13.4
PFM000062	Sea Water	3	Bottom	2002-05-27	4127	1.2	-0.5	-0.5	0.143	4.2	1.7	13.1	12.6
PFM000062	Sea Water	0.5	Surface	2002-06-10	4145	-0.5	-0.5	1.3	0.162	2.6	2.2	3.5	11.5

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000062	Sea Water	3	Bottom	2002-06-10	4146	0.0004		0.0005		0.238	0.0093	0.0005	0.0041	0.0287	0.140
PFM000062	Sea Water	0.5	Surface	2002-06-24	4184	0.0012		0.0003		0.253	0.0105	0.0008	0.0056	0.0385	0.262
PFM000062	Sea Water	3	Bottom	2002-06-24	4185	0.0013		0.0003		0.260	0.0112	0.0010	0.0063	0.0741	0.260
PFM000062	Sea Water	0.5	Surface	2002-07-15	4198	0.0015		0.0003		0.230	0.0079	0.0009	0.0044	0.0280	0.283
PFM000062	Sea Water	3	Bottom	2002-07-15	4199	0.0017		0.0005		0.268	0.0087	0.0010	0.0050	0.0380	0.313
PFM000062	Sea Water	0.5	Surface	2002-08-12	4229	0.0019		0.0008		0.250	0.0104	0.0008	0.0055	0.0341	0.500
PFM000062	Sea Water	3	Bottom	2002-08-12	4230	0.0028		0.0010		0.247	0.0114	0.0010	0.0067	0.0351	0.300
PFM000062	Sea Water	0.5	Surface	2002-09-02	4253	0.0017		0.0007				0.0009	0.0056		0.450
PFM000062	Sea Water	3	Bottom	2002-09-02	4254	0.0020		0.0004				0.0014	0.0076		0.304
PFM000062	Sea Water	0.5	Surface	2002-09-16	4280	0.0029		0.0013		0.257	0.0119	0.0010	0.0077	0.0600	0.438
PFM000062	Sea Water	3	Bottom	2002-09-16	4281	0.0030		0.0013		0.262	0.0123	0.0009	0.0079	0.0510	0.433
PFM000062	Sea Water	0.5	Surface	2002-09-30	4306	0.0047		0.0030		0.280	0.0133	0.0015	0.0065	0.0525	0.349
PFM000062	Sea Water	3	Bottom	2002-09-30	4307	0.0030		0.0013		0.251	0.0103	0.0012	0.0058	0.0466	0.326
PFM000062	Sea Water	3	Bottom	2002-10-21	4322	0.0072	0.0006	0.0136		0.267	0.0110	0.0014	0.0040	0.0342	0.412
PFM000062	Sea Water	0.5	Surface	2002-10-21	4333	0.0072	0.0072	0.0073		0.269	0.0103	0.0015	0.0047	0.0457	0.481
PFM000062	Sea Water	0.5	Surface	2002-11-11	4359	0.0039	0.0010	0.0060		0.253	0.0101	0.0008	0.0051	0.0363	0.321
PFM000062	Sea Water	3	Bottom	2002-11-11	4360	0.0047	0.0016	0.0118		0.250	0.0094	0.0011	0.0054	0.0328	0.453
PFM000062	Sea Water	0.5	Surface	2002-11-25	4382	0.0074	0.0026	0.0213		0.356	0.0110	0.0023	0.0042	0.0232	0.523
PFM000062	Sea Water	3	Bottom	2002-11-25	4383	0.0065	0.0015	0.0192		0.269	0.0103	0.0023		0.0197	0.477
PFM000062	Sea Water	0.5	Surface	2002-12-16	4418	0.0043	0.0030	0.0457		0.638	0.0107	0.0041	0.0034		0.511
PFM000062	Sea Water	3	Bottom	2002-12-16	4419	0.0041	0.0029	0.0442		0.305	0.0120	0.0041	0.0056	0.0310	0.554
PFM000062	Sea Water	3	Bottom	2003-04-22	4742	0.0009		0.0003		0.258	0.0103	-0.0005	0.0057	0.0458	0.289
PFM000062	Sea Water	0.5	Surface	2003-05-05	4763	0.0013	0.0001	0.0018		0.234	0.0101	-0.0005	0.0068	0.0429	0.219
PFM000062	Sea Water	0.5	Surface	2003-05-19	4790	0.0014		0.0010		0.233	0.0073	-0.0005	0.0034	0.0279	0.149
PFM000062	Sea Water	0.5	Surface	2003-06-02	4816	0.0017		0.0010		0.306	0.0151	0.0009	0.0126	0.0660	0.170
PFM000062	Sea Water	0.5	Surface	2003-06-16	4854	0.0011		0.0004		0.240	0.0096	-0.0005	0.0062	0.0352	0.205
PFM000062	Sea Water	0.5	Surface	2003-07-07	4864	0.0014	0.0002	0.0006	0.0006	0.253	0.0099	0.0006	0.0064	0.0448	0.288
PFM000062	Sea Water	0.5	Surface	2003-08-04	4934	0.0018		0.0004		0.218	0.0078	0.0005	0.0047	0.0320	0.442
PFM000062	Sea Water	0.5	Surface	2003-09-01	4946	0.0014		0.0002		0.253	0.0100	-0.0005	0.0060	0.0446	0.364
PFM000062	Sea Water	0.5	Surface	2003-09-15	4991	0.0014		0.0002		0.240	0.0094	-0.0005	0.0053	0.0444	0.505

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000062	Sea Water	3	Bottom	2002-06-10	4146	0.7	-0.5	-0.5	0.159	2.4	2.3	5.5	11.7
PFM000062	Sea Water	0.5	Surface	2002-06-24	4184	1.6	-0.5	-0.5	0.331	4.1	2.7	6.8	10.9
PFM000062	Sea Water	3	Bottom	2002-06-24	4185	1.5	-0.5	0.9	0.504	4.1	2.7	6.1	11.0
PFM000062	Sea Water	0.5	Surface	2002-07-15	4198	1.0	-0.5	-0.5	0.218	4.1	2.9	6.7	10.6
PFM000062	Sea Water	3	Bottom	2002-07-15	4199	1.3	-0.5	-0.5	0.286	4.4	4.1	13.0	10.5
PFM000062	Sea Water	0.5	Surface	2002-08-12	4229	2.5	-0.5	-0.5	0.174	2.8	2.1	4.3	9.6
PFM000062	Sea Water	3	Bottom	2002-08-12	4230	1.4	-0.5	-0.5	0.215	1.3	2.1	5.6	9.5
PFM000062	Sea Water	0.5	Surface	2002-09-02	4253	1.5	-0.5	-0.5	3.3	3.3	3.9	0.5	9.7
PFM000062	Sea Water	3	Bottom	2002-09-02	4254	1.5	-0.5	-0.5	3.9	3.9	2.3	6.5	9.6
PFM000062	Sea Water	0.5	Surface	2002-09-16	4280	2.7	-0.5	-0.5	0.368	3.9	3.9	10.2	10.8
PFM000062	Sea Water	3	Bottom	2002-09-16	4281	2.7	-0.5	-0.5	3.9	3.9	3.9	4.7	9.9
PFM000062	Sea Water	0.5	Surface	2002-09-30	4306	2.3	-0.5	-0.5	0.395	3.5	3.9	11.4	10.5
PFM000062	Sea Water	3	Bottom	2002-09-30	4307	2.2	-0.5	-0.5	0.321	3.4	3.1	9.4	10.3
PFM000062	Sea Water	3	Bottom	2002-10-21	4322	1.9	-0.5	-0.5	0.308	3.8	2.0	12.2	11.6
PFM000062	Sea Water	0.5	Surface	2002-10-21	4333	1.7	-0.5	0.6	0.545	3.0	3.2	8.7	11.6
PFM000062	Sea Water	0.5	Surface	2002-11-11	4359	2.7	-0.5	-0.5	0.198	3.7	3.4	12.0	11.9
PFM000062	Sea Water	3	Bottom	2002-11-11	4360	2.7	-0.5	-0.5	0.187	3.4	3.6	11.2	11.8
PFM000062	Sea Water	0.5	Surface	2002-11-25	4382	1.6	-0.5	1.2	0.193	1.8	3.5	11.8	12.9
PFM000062	Sea Water	3	Bottom	2002-11-25	4383	2.0	-0.5	-0.5	0.177	1.4	3.9	12.3	13.0
PFM000062	Sea Water	0.5	Surface	2002-12-16	4418	1.2	-0.5	0.8	0.177	3.7	3.0	10.6	13.4
PFM000062	Sea Water	3	Bottom	2002-12-16	4419	1.3	-0.5	1.1	0.257	3.5	3.8	11.2	14.3
PFM000062	Sea Water	3	Bottom	2003-04-22	4742	3.1	0.8	1.1	0.440	4.3	4.0	11.9	12.5
PFM000062	Sea Water	0.5	Surface	2003-05-05	4763	1.7	0.5	0.7	0.345	3.8	3.7	13.8	
PFM000062	Sea Water	0.5	Surface	2003-05-19	4790	0.7	-0.5	0.3	0.219	3.9	3.7	13.8	
PFM000062	Sea Water	0.5	Surface	2003-06-02	4816	0.9	-0.5	-0.5	0.405	3.9	3.8	14.1	
PFM000062	Sea Water	0.5	Surface	2003-06-16	4854	1.3	-0.5	0.5	0.255	4.0	3.8	14.0	
PFM000062	Sea Water	0.5	Surface	2003-07-07	4864	1.3	-0.5	0.7	0.286	1.4	1.4	6.2	
PFM000062	Sea Water	0.5	Surface	2003-08-04	4934	1.2	0.3	0.6	0.203	3.5	3.5	13.8	
PFM000062	Sea Water	0.5	Surface	2003-09-01	4946	2.2	-0.5	0.6	0.282	3.5	3.4	12.4	
PFM000062	Sea Water	0.5	Surface	2003-09-15	4991	2.2	-0.5	1.6	0.288	3.4	3.3	7.5	

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000062	Sea Water	0.5	Surface	2003-09-29	8028	0.0090		0.0044		0.960	0.0115	0.0011	0.0058	0.0304	0.502
PFM000062	Sea Water	0.5	Surface	2003-10-28	8048	0.0029	0.0009	0.0027		0.249	0.0109	-0.0005	0.0050	0.0329	0.460
PFM000062	Sea Water	0.5	Surface	2003-11-12	8116	0.0029		0.0155		0.238	0.0084	0.0013	0.0038	0.0279	0.492
PFM000062	Sea Water	0.5	Surface	2003-11-25	8136	0.0035		0.0309		0.271	0.0111	0.0018	0.0042	0.0269	0.520
PFM000062	Sea Water	0.5	Surface	2003-12-15	8194	0.0032		0.0536		0.322	0.0162	0.0031	0.0097	0.0560	0.593
PFM000062	Sea Water	0.5	Surface	2004-01-13	8218	0.0007	0.0015	0.0726		0.291	0.0116	0.0040	0.0032	0.0163	0.663
PFM000063	Sea Water	0.5	Surface	2002-05-07	4083	0.0018		0.0293		0.297	0.0144	0.0014	0.0101	0.0669	0.117
PFM000063	Sea Water	4.5	Bottom	2002-05-07	4084	0.0017	-0.001	0.124	-0.01	0.326	0.0185	0.0013	0.0125	0.0624	1.06
PFM000063	Sea Water	0.5	Surface	2002-05-14	4105	0.0001		0.0928		0.305	0.0152	0.0009	0.0086	0.0656	0.141
PFM000063	Sea Water	4.5	Bottom	2002-05-14	4106	0.0005		0.0023		0.304	0.0167	0.0012	0.0097	0.0758	0.211
PFM000063	Sea Water	0.5	Surface	2002-05-27	4130	0.0008		0.0010		0.289	0.0147	0.0006	0.0076	0.0653	0.127
PFM000063	Sea Water	4.5	Bottom	2002-05-27	4131	0.0008		0.0004		0.302	0.0202	-0.0005	0.0118	0.0740	0.155
PFM000063	Sea Water	0.5	Bottom	2002-06-10	4155	0.0003		0.0010		0.313	0.0165	0.0010		0.0669	0.242
PFM000063	Sea Water	4.5	Surface	2002-06-10	4156	0.0008		0.0027		0.321	0.0228	0.0027		0.0711	0.338
PFM000063	Sea Water	0.5	Surface	2002-06-24	4182	0.0012		0.0007		0.313	0.0173	0.0016	0.0080	0.0519	0.323
PFM000063	Sea Water	4.5	Bottom	2002-06-24	4183	0.0014	-0.001	0.0007	-0.01	0.325	0.0216	0.0020	0.0125	0.0679	0.385
PFM000063	Sea Water	0.5	Surface	2002-07-15	4194	0.0022		0.0003		0.315	0.0145	0.0014	0.0076	0.0461	0.343
PFM000063	Sea Water	4.5	Bottom	2002-07-15	4195	0.0015		0.0010		0.309	0.0191	0.0016	0.0081	0.0438	0.498
PFM000063	Sea Water	0.5	Surface	2002-08-12	4227	0.0026		0.0006		0.326	0.0182	0.0009	0.0091	0.0611	0.460
PFM000063	Sea Water	4.5	Bottom	2002-08-12	4228	0.0088		0.0003		0.342	0.0232	0.0021	0.0147	0.0883	1.56
PFM000063	Sea Water	0.5	Surface	2002-09-02	4257	0.0022		0.0011				0.0016	0.0191		0.608
PFM000063	Sea Water	4.5	Bottom	2002-09-02	4258	0.0021		0.0006				0.0024	0.0170		0.589
PFM000063	Sea Water	0.5	Surface	2002-09-16	4274	0.0025		0.0010		0.317	0.0174	0.0009	0.0119	0.0860	0.514
PFM000063	Sea Water	4.5	Bottom	2002-09-16	4275	0.0034		0.0011		0.327	0.0183	0.0018	0.0122	0.0850	0.472
PFM000063	Sea Water	0.5	Surface	2002-09-30	4304	0.0029		0.0007		0.276	0.0128	0.0014	0.0079	0.0688	0.387
PFM000063	Sea Water	4.5	Bottom	2002-09-30	4305	0.0040		0.0009		0.270	0.0100	0.0014	0.0081	0.0559	0.386
PFM000063	Sea Water	4.5	Bottom	2002-10-21	4321	0.0100	0.0009	0.0074		0.285	0.0129	0.0013	0.0071	0.0565	0.426
PFM000063	Sea Water	0.5	Surface	2002-10-21	4324	0.0103		0.0074		0.278	0.0124	0.0013	0.0067	0.0462	0.432
PFM000063	Sea Water	4.5	Bottom	2002-11-11	4357	0.0082	0.0012	0.0088		0.292	0.0133	0.0005	0.0070	0.0481	0.359
PFM000063	Sea Water	0.5	Surface	2002-11-11	4358	0.0065	0.0011	0.0063		0.290	0.0128	0.0009	0.0083	0.0498	0.271

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000062	Sea Water	0.5	Surface	2003-09-29	8028	2.1	-0.5	1.6	0.229	1.9	3.6	12.7	
PFM000062	Sea Water	0.5	Surface	2003-10-28	8048	2.4	-0.5	1.2	0.267	1.8	1.6	9.2	
PFM000062	Sea Water	0.5	Surface	2003-11-12	8116	1.8	-0.5	0.8	0.218	1.5	3.4	3.7	
PFM000062	Sea Water	0.5	Surface	2003-11-25	8136	1.8	-0.5	1.9	0.200	4.0	3.7	7.9	
PFM000062	Sea Water	0.5	Surface	2003-12-15	8194	2.3	-0.5	1.9	0.521	3.9	3.9	12.2	
PFM000062	Sea Water	0.5	Surface	2004-01-13	8218	0.9	0.2	0.5	0.130	3.9	3.8	13.0	
PFM000063	Sea Water	0.5	Surface	2002-05-07	4083	4.5	0.6	0.7	0.489	3.2	2.1	2.4	12.1
PFM000063	Sea Water	4.5	Bottom	2002-05-07	4084	6.7	0.8	2.9	0.393	3.4	2.5	0.8	11.9
PFM000063	Sea Water	0.5	Surface	2002-05-14	4105	1.8	-0.5	-0.5	0.463	1.5	1.7	0.9	12.4
PFM000063	Sea Water	4.5	Bottom	2002-05-14	4106	1.4	-0.5	1.6	0.531	1.4	1.7	0.8	13.8
PFM000063	Sea Water	0.5	Surface	2002-05-27	4130	1.7	-0.5	-0.5	0.216	1.7	2.3	0.6	11.8
PFM000063	Sea Water	4.5	Bottom	2002-05-27	4131	2.6	-0.5	-0.5	0.306	1.8	3.7	1.0	12.1
PFM000063	Sea Water	0.5	Bottom	2002-06-10	4155	1.2	-0.5	-0.5	0.296	16.5	12.9	3.7	10.9
PFM000063	Sea Water	4.5	Surface	2002-06-10	4156	1.9	-0.5	0.8	0.383	17.7	6.0	8.7	11.2
PFM000063	Sea Water	0.5	Surface	2002-06-24	4182	2.1	-0.5	0.8	0.267	4.5	4.5	7.9	10.6
PFM000063	Sea Water	4.5	Bottom	2002-06-24	4183	2.2	-0.5	-0.5	0.374	4.9	4.9	14.0	9.7
PFM000063	Sea Water	0.5	Surface	2002-07-15	4194	2.4	-0.5	-0.5	0.289	4.6	4.2	12.0	10.1
PFM000063	Sea Water	4.5	Bottom	2002-07-15	4195	2.9	-0.5	-0.5	0.297	4.1	4.1	10.0	9.6
PFM000063	Sea Water	0.5	Surface	2002-08-12	4227	3.0	-0.5	-0.5	0.322	4.4	3.9	3.8	10.3
PFM000063	Sea Water	4.5	Bottom	2002-08-12	4228	5.0	0.5	2.0	0.485	4.3	4.3	4.0	3.3
PFM000063	Sea Water	0.5	Surface	2002-09-02	4257	5.9	0.5	0.7		4.1	4.1	8.6	9.3
PFM000063	Sea Water	4.5	Bottom	2002-09-02	4258	7.2	0.7	0.9		5.0	4.3	15.0	8.2
PFM000063	Sea Water	0.5	Surface	2002-09-16	4274	4.2	-0.5	-0.5	0.529	3.6	2.8	5.1	10.1
PFM000063	Sea Water	4.5	Bottom	2002-09-16	4275	4.1	-0.5	-0.5	0.498	3.8	1.6	1.1	10.7
PFM000063	Sea Water	0.5	Surface	2002-09-30	4304	2.5	-0.5	-0.5	0.442	2.3	2.4	8.7	10.8
PFM000063	Sea Water	4.5	Bottom	2002-09-30	4305	2.5	-0.5	-0.5	0.373	2.5	2.4	6.1	11.3
PFM000063	Sea Water	4.5	Bottom	2002-10-21	4321	3.3	0.5	-0.5	0.287	4.3	4.1	15.0	12.5
PFM000063	Sea Water	0.5	Surface	2002-10-21	4324	3.0	-0.5	1.1	0.286	2.2	3.7	11.0	13.6
PFM000063	Sea Water	4.5	Bottom	2002-11-11	4357	3.3	-0.5	-0.5	0.273	3.6	2.3	10.6	13.0
PFM000063	Sea Water	0.5	Surface	2002-11-11	4358	2.6	-0.5	1.1	0.295	3.8	2.4	4.0	13.4

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000063	Sea Water	0.5	Surface	2002-11-25	4380	0.0146	0.0019	0.0223	0.296	0.0118	0.0027	0.0040	0.0245	0.0245	0.450
PFM000063	Sea Water	4.5	Bottom	2002-11-25	4381	0.0148	0.0014	0.0223	0.274	0.0101	0.0022	0.0042	0.0201	0.0201	0.473
PFM000063	Sea Water	0.5	Surface	2002-12-16	4410	0.0179	0.0041	0.0466	0.410	0.0103	0.0028		0.0233	0.0233	0.505
PFM000063	Sea Water	4.3	Bottom	2002-12-16	4411	0.0321	0.0034	0.0303	0.326	0.0123	0.0038	0.0051	0.0279	0.0279	0.535
PFM000063	Sea Water	0.5	Surface	2003-01-14	4445	0.0227	0.0039	0.0796	0.393	0.0092	0.0046	0.0014	0.0140	0.0140	0.848
PFM000063	Sea Water	1	Bottom	2003-01-14	4450	0.0520	0.0034	0.0816	0.385	0.0100	0.0045	0.0034	0.0194	0.0194	0.887
PFM000063	Sea Water	0.5	Surface	2003-02-17	4493	0.0704		0.575	1.22	0.0236	0.0080	0.0074	0.0226	0.0226	1.76
PFM000063	Sea Water	4.5	Bottom	2003-02-17	4494	0.0613		0.130	0.570	0.0132	0.0047	0.0029	0.0158	0.0158	0.831
PFM000063	Sea Water	0.5	Surface	2003-03-17	4641	0.0848		0.263	0.842	0.0261	0.0033	0.0155	0.149	0.149	
PFM000063	Sea Water	4.33	Bottom	2003-03-17	4642	0.0399		0.203	0.458	0.0108	0.0019	0.0052	0.0242	0.0242	1.35
PFM000063	Sea Water	0.5	Surface	2003-04-22	4737	0.0012		0.0013	0.384	0.0144	-0.0005	0.0114	0.0755	0.0755	0.105
PFM000063	Sea Water	4.3	Bottom	2003-04-22	4738	0.0012		0.0004	0.294	0.0146	-0.0005	0.0100	0.0580	0.0580	0.133
PFM000063	Sea Water	0.5	Surface	2003-05-05	4759	0.0011	0.0001	-0.0002	0.268	0.0118	-0.0005	0.0105	0.0605	0.0605	0.141
PFM000063	Sea Water	0.5	Surface	2003-05-19	4789	0.0013		0.0008	0.306	0.0148	0.0005	0.0079	0.0597	0.0597	0.178
PFM000063	Sea Water	0.5	Surface	2003-06-02	4814	0.0018		0.0004	0.294	0.0139	0.0005	0.0099	0.0670	0.0670	0.220
PFM000063	Sea Water	0.5	Surface	2003-06-16	4851	0.0014		0.0005	0.325	0.0167	0.0006	0.0082	0.0558	0.0558	0.265
PFM000063	Sea Water	0.5	Surface	2003-07-07	4862	0.0014	0.0002	0.0005	0.282	0.0126	0.0008	0.0089	0.0671	0.0671	0.310
PFM000063	Sea Water	0.5	Surface	2003-08-04	4937	0.0017		0.0004	0.298	0.0153	0.0008	0.0032	0.0610	0.0610	0.657
PFM000063	Sea Water	0.5	Surface	2003-09-01	4945	0.0016		0.0003	0.296	0.0134	0.0006	0.0074	0.0576	0.0576	0.460
PFM000063	Sea Water	0.5	Surface	2003-09-15	4990	0.0014	-0.0002	-0.0002	0.302	0.0169	0.0009	0.0108	0.0786	0.0786	0.714
PFM000063	Sea Water	0.5	Surface	2003-09-29	8024	0.0006		0.0003	0.285	0.0137	-0.0005	0.0079	0.0500	0.0500	0.640
PFM000063	Sea Water	0.5	Surface	2003-10-28	8055	0.0050	0.0007	0.0027	0.241	0.0103	-0.0005	0.0063	0.0410	0.0410	0.428
PFM000063	Sea Water	0.5	Surface	2003-11-12	8117	0.0104		0.0097	0.268	0.0109	-0.0005	0.0056	0.0375	0.0375	0.439
PFM000063	Sea Water	0.5	Surface	2003-11-25	8133	0.0160		0.0256	0.296	0.0101	0.0008	0.0050	0.0301	0.0301	0.490
PFM000063	Sea Water	0.5	Surface	2003-12-15	8195	0.0127		0.0504	0.296	0.0116	0.0019	0.0055	0.0332	0.0332	0.625
PFM000063	Sea Water	0.5	Surface	2004-01-13	8227	0.0415	0.0042	0.0813	0.359	0.0099	0.0032	0.0033	0.0213	0.0213	0.929
PFM000063	Sea Water	0.5	Surface	2004-01-13	8223	0.0263	0.0037	0.164	0.466	0.0113	0.0043	0.0032	0.0198	0.0198	1.02
PFM000063	Sea Water	4.5	Bottom	2004-02-10	8300	0.0603		0.132	0.463	0.0146	0.0049	0.0048	0.0283	0.0283	1.32
PFM000063	Sea Water	0.5	Surface	2004-02-10	8317	0.0268		0.190	0.515	0.0118	0.0041	0.0039	0.0197	0.0197	1.28
PFM000063	Sea Water	0.5	Surface	2004-03-15	8343	0.0287		0.365	0.927	0.0160	0.0020	0.0090	0.0473	0.0473	2.55

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O ₂ (mg/l)
PFM000063	Sea Water	0.5	Surface	2002-11-25	4380	2.1	-0.5	-0.5	0.174	2.6	1.5	3.6	12.6
PFM000063	Sea Water	4.5	Bottom	2002-11-25	4381	1.8	-0.5	0.8	0.162	2.7	3.9	12.3	12.9
PFM000063	Sea Water	0.5	Surface	2002-12-16	4410	1.5	-0.5	0.6	0.182	3.8	2.8	9.7	13.0
PFM000063	Sea Water	4.3	Bottom	2002-12-16	4411	2.0	-0.5	0.8	0.193	3.9	3.8	14.7	12.0
PFM000063	Sea Water	0.5	Surface	2003-01-14	4445	0.8	-0.5	-0.5	0.127	3.6	4.0	5.5	12.4
PFM000063	Sea Water	1	Bottom	2003-01-14	4450	1.1	-0.5	0.7	0.160	3.4	2.2	8.2	11.0
PFM000063	Sea Water	0.5	Surface	2003-02-17	4493	-0.5	-0.5	-0.5	0.155	5.8	9.6	11.0	11.4
PFM000063	Sea Water	4.5	Bottom	2003-02-17	4494	0.7	-0.5	0.7	0.080	2.4	2.4	10.1	10.1
PFM000063	Sea Water	0.5	Surface	2003-03-17	4641	5.2	1.2	0.7	1.04				12.5
PFM000063	Sea Water	4.33	Bottom	2003-03-17	4642	1.2	-0.5	1.4		4.1	3.9	8.4	12.6
PFM000063	Sea Water	0.5	Surface	2003-04-22	4737	1.7	-0.5	0.8	0.518	4.0	3.9	14.0	12.9
PFM000063	Sea Water	4.3	Bottom	2003-04-22	4738	1.8	-0.5	0.8	0.455	3.9	3.9	11.1	13.2
PFM000063	Sea Water	0.5	Surface	2003-05-05	4759	2.5	-0.5	1.4	0.411	4.2	4.0	12.1	12.1
PFM000063	Sea Water	0.5	Surface	2003-05-19	4789	1.8	-0.5	-0.5	0.391	4.3	4.0	14.6	
PFM000063	Sea Water	0.5	Surface	2003-06-02	4814	2.0	-0.5	0.6	0.461	4.1	4.0	14.5	
PFM000063	Sea Water	0.5	Surface	2003-06-16	4851	1.4	-0.5	0.6	0.359	4.3	4.2	14.7	
PFM000063	Sea Water	0.5	Surface	2003-07-07	4862	1.1	-0.5	1.2	0.375	2.4	3.3	9.6	
PFM000063	Sea Water	0.5	Surface	2003-08-04	4937	2.9	0.4	0.8	0.401	4.0	3.8	13.2	
PFM000063	Sea Water	0.5	Surface	2003-09-01	4945	2.0	-0.5	0.9	0.328	3.7	3.2	9.6	
PFM000063	Sea Water	0.5	Surface	2003-09-15	4990	4.2	0.6	1.1	0.469	3.9	3.7	9.3	
PFM000063	Sea Water	0.5	Surface	2003-09-29	8024	3.3	-0.5	1.3	0.334	3.7	3.6	13.2	
PFM000063	Sea Water	0.5	Surface	2003-10-28	8055	2.4	-0.5	0.9	0.315	4.4	1.1	13.4	
PFM000063	Sea Water	0.5	Surface	2003-11-12	8117	3.6	-0.5	1.3	0.247	1.0	1.5	3.5	
PFM000063	Sea Water	0.5	Surface	2003-11-25	8133	2.7	-0.5	1.0	0.204	3.3	1.9	6.3	
PFM000063	Sea Water	0.5	Surface	2003-12-15	8195	0.6	0.5	3.9	0.247	3.9	3.7	13.6	
PFM000063	Sea Water	0.5	Surface	2004-01-13	8227	1.2	0.2	0.6	0.157	3.8	4.1	13.0	
PFM000063	Sea Water	0.5	Surface	2004-01-13	8223	1.0	-0.2	0.8	0.134	4.3	5.9	15.7	
PFM000063	Sea Water	4.5	Bottom	2004-02-10	8300		0.4	1.1	0.207	4.3	4.2	15.0	
PFM000063	Sea Water	0.5	Surface	2004-02-10	8317	0.8	0.2	0.5	0.139	5.6	5.5	15.1	
PFM000063	Sea Water	0.5	Surface	2004-03-15	8343	1.6	0.4	0.9	0.342	10.7	10.9	19.2	

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000063	Sea Water	4	Bottom	2004-03-15	8347	0.0953		0.105		0.519	0.0144	0.0011	0.0080	0.0482	1.53
PFM000064	Sea Water	0.5	Surface	2002-05-07	4085	0.0041		0.0058		0.714	0.0255	0.0025	0.0144	0.105	2.71
PFM000064	Sea Water	1.5	Bottom	2002-05-07	4087	0.0019		0.0174		0.486	0.0237	0.0012	0.0156	0.105	0.468
PFM000064	Sea Water	0.5	Surface	2002-05-14	4107	0.0015		0.0037		0.582	0.0240	0.0010	0.0143	0.116	0.407
PFM000064	Sea Water	1.5	Bottom	2002-05-14	4108	0.0109	-0.001	0.0019	-0.01	0.428	0.0252	0.0010	0.0180	0.136	0.858
PFM000064	Sea Water	0.5	Surface	2002-05-27	4125	0.0017		0.0007		0.490	0.0294	-0.0005	0.0198	0.134	0.199
PFM000064	Sea Water	1.5	Bottom	2002-05-27	4126	0.0017		0.0014		0.607	0.0510	-0.0005	0.0341	0.194	0.203
PFM000064	Sea Water	0.5	Surface	2002-06-10	4157	0.0015	0.002	0.0012	-0.01	0.724	0.0593	0.0012		0.0759	0.178
PFM000064	Sea Water	1	Bottom	2002-06-10	4158	0.0014		0.0019		0.447	0.0256	0.0019		0.0689	0.233
PFM000064	Sea Water	0.5	Surface	2002-06-24	4186	0.0017	-0.001	0.0010	-0.01	0.458	0.0234	0.0025	0.0148	0.0728	0.279
PFM000064	Sea Water	1	Bottom	2002-06-24	4187	0.0016		0.0053		0.444	0.0246	0.0018	0.0181	0.116	0.283
PFM000064	Sea Water	0.5	Surface	2002-07-15	4196	0.0023		0.0002		0.483	0.0214	0.0021	0.0114	0.0572	0.242
PFM000064	Sea Water	1	Bottom	2002-07-15	4197	0.0026		0.0004		0.490	0.0263	0.0015	0.0126	0.0779	0.340
PFM000064	Sea Water	0.5	Surface	2002-08-12	4225	0.0033		0.0010		0.569	0.0284	0.0014	0.0157	0.119	0.670
PFM000064	Sea Water	1	Bottom	2002-08-12	4226	0.0031		0.0006		0.589	0.0297	0.0016	0.0181	0.118	0.650
PFM000064	Sea Water	0.5	Surface	2002-09-02	4255	0.0027		0.0013				0.0010	0.0283		0.330
PFM000064	Sea Water	1	Bottom	2002-09-02	4256	0.0028		0.0008				0.0018	0.0207		0.326
PFM000064	Sea Water	0.5	Surface	2002-09-16	4267	0.0029		0.0007		0.531	0.0311	0.0016	0.0208	0.151	0.254
PFM000064	Sea Water	1	Bottom	2002-09-16	4268	0.0031		0.0004		0.571	0.0366	0.0014	0.0215	0.176	0.259
PFM000064	Sea Water	0.5	Surface	2002-09-30	4310	0.0100		0.0017		0.441	0.0206	0.0024	0.0125	0.108	0.208
PFM000064	Sea Water	1	Bottom	2002-09-30	4311	0.0090		0.0028		0.415	0.0205	0.0023	0.0125	0.127	0.170
PFM000064	Sea Water	1	Bottom	2002-10-21	4323	0.0146	0.0010	0.0070		0.516	0.0281	0.0020	0.0197	0.198	0.228
PFM000064	Sea Water	0.5	Surface	2002-10-21	4330	0.0077	0.0007	0.0073		0.396	0.0174	0.0012	0.0100	0.0972	0.399
PFM000064	Sea Water	0.5	Surface	2002-11-11	4353	0.0259	0.0018	0.0127		0.404	0.0199	0.0010	0.0096	0.102	0.204
PFM000064	Sea Water	1	Bottom	2002-11-11	4354	0.0288	0.0017	0.0148		0.433	0.0212	0.0007	0.0100	0.103	0.224
PFM000064	Sea Water	0.5	Surface	2002-11-25	4378	0.0771	0.0027	0.196		0.435	0.0147	0.0013	0.0075	0.0476	0.126
PFM000064	Sea Water	1	Bottom	2002-11-25	4379	0.0591	0.0021	0.0190		0.432	0.0186	0.0013	0.0098	0.0545	0.331
PFM000064	Sea Water	0.5	Surface	2002-12-16	4416	0.185	0.0137	1.47		2.75	0.0338	0.0033	0.0263	0.120	3.36
PFM000064	Sea Water	1	Bottom	2002-12-16	4417	0.0659	0.0037	0.194		1.42	0.0175	0.0028	0.0092	0.0471	1.14
PFM000064	Sea Water	0.5	Surface	2003-04-22	4743	0.0054		0.133		0.706	0.0200	0.0005	0.0156	0.159	0.985

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000063	Sea Water	4	Bottom	2004-03-15	8347	3.4	0.7	1.1	0.319	4.6	4.6	16.3	
PFM000064	Sea Water	0.5	Surface	2002-05-07	4085	10.6	1.2	2.1	0.600	7.8	6.3	1.4	12.2
PFM000064	Sea Water	1.5	Bottom	2002-05-07	4087				0.581	4.0	3.2	0.8	12.2
PFM000064	Sea Water	0.5	Surface	2002-05-14	4107	4.8	0.6	2.7	0.804	3.7	4.7	1.7	11.1
PFM000064	Sea Water	1.5	Bottom	2002-05-14	4108	4.3	0.6	0.7	0.813	3.4	2.3	0.7	11.7
PFM000064	Sea Water	0.5	Surface	2002-05-27	4125	2.8	0.5	1.3	0.602	3.4	2.1	8.2	11.8
PFM000064	Sea Water	1.5	Bottom	2002-05-27	4126	3.5	-0.5	1.3	0.882	5.8	4.4	10.5	11.9
PFM000064	Sea Water	0.5	Surface	2002-06-10	4157	2.8	-0.5	3.8	0.415	16.0	9.1	3.2	11.1
PFM000064	Sea Water	1	Bottom	2002-06-10	4158	3.4	-0.5	0.9	0.351	14.4	12.2	3.7	10.8
PFM000064	Sea Water	0.5	Surface	2002-06-24	4186	4.2	-0.5	-0.5	0.401	5.4	2.4	4.9	10.3
PFM000064	Sea Water	1	Bottom	2002-06-24	4187	3.8	-0.5	1.1	0.652	5.3	5.2	11.6	11.1
PFM000064	Sea Water	0.5	Surface	2002-07-15	4196	3.9	-0.5	1.2	0.328	4.5	3.7	7.1	10.0
PFM000064	Sea Water	1	Bottom	2002-07-15	4197	4.4	-0.5	1.4	0.420	6.1	3.3	11.3	12.8
PFM000064	Sea Water	0.5	Surface	2002-08-12	4225	4.7	-0.5	1.0	0.727	8.3	6.2	10.3	10.2
PFM000064	Sea Water	1	Bottom	2002-08-12	4226	5.4	-0.5	0.9	0.621	4.9	4.0	5.5	10.1
PFM000064	Sea Water	0.5	Surface	2002-09-02	4255	7.4	0.7	0.8		5.3	6.1	5.7	10.2
PFM000064	Sea Water	1	Bottom	2002-09-02	4256	7.1	0.6	0.9		4.7	5.1	5.0	9.2
PFM000064	Sea Water	0.5	Surface	2002-09-16	4267	6.9	0.8	0.8	1.01	3.7	5.7	13.1	10.7
PFM000064	Sea Water	1	Bottom	2002-09-16	4268	6.6	0.7	3.0	1.00	5.9	5.5	11.7	10.4
PFM000064	Sea Water	0.5	Surface	2002-09-30	4310	4.6	0.6	-0.5	0.649	3.9	2.9	3.8	11.3
PFM000064	Sea Water	1	Bottom	2002-09-30	4311	5.0	0.6	0.6	0.669	2.5	2.2	11.8	11.2
PFM000064	Sea Water	1	Bottom	2002-10-21	4323	10.2	1.5	2.4	1.02	5.0	4.9	11.5	13.0
PFM000064	Sea Water	0.5	Surface	2002-10-21	4330	2.9	-0.5	0.6	0.760	5.0	5.1	11.3	13.1
PFM000064	Sea Water	0.5	Surface	2002-11-11	4353	3.3	-0.5	-0.5	0.687	4.4	4.9	14.3	13.4
PFM000064	Sea Water	1	Bottom	2002-11-11	4354	3.7	-0.5	1.5	0.640	4.6	4.6	8.3	13.2
PFM000064	Sea Water	0.5	Surface	2002-11-25	4378	3.9	0.6	1.0	0.330	2.4	2.8	8.5	11.2
PFM000064	Sea Water	1	Bottom	2002-11-25	4379	4.1	0.6	1.0	0.342	4.4	2.8	8.6	11.1
PFM000064	Sea Water	0.5	Surface	2002-12-16	4416	14.5	3.4	2.6	0.799	10.5	6.8	15.5	9.6
PFM000064	Sea Water	1	Bottom	2002-12-16	4417	2.7	0.6	2.2	0.318	3.8	6.4	17.2	
PFM000064	Sea Water	0.5	Surface	2003-04-22	4743	4.5	0.9	2.0	1.02	7.6	7.3	15.4	11.8

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000064	Sea Water	1	Bottom	2003-04-22	4744	0.0062		0.115		0.530	0.0205	0.0008	0.0160	0.111	0.972
PFM000064	Sea Water	0.5	Surface	2003-05-05	4760	0.0121	0.0025	0.216		0.630	0.0149	0.0009	0.0154	0.103	0.842
PFM000064	Sea Water	0.5	Surface	2003-05-19	4786	0.0021		0.0009		0.514	0.0242	0.0014	0.0149	0.134	0.231
PFM000064	Sea Water	0.5	Surface	2003-06-02	4813	0.0029		0.0065		0.486	0.0265	0.0011	0.0165	0.146	0.210
PFM000064	Sea Water	0.5	Surface	2003-06-16	4853	0.0021		0.0008		0.485	0.0306	0.0012	0.0153	0.148	0.281
PFM000064	Sea Water	0.5	Surface	2003-07-07	4863	0.0017	0.0003	0.0005	0.0005	0.454	0.0237	0.0007	0.0135	0.121	0.254
PFM000064	Sea Water	0.5	Surface	2003-08-04	4933	0.0032		0.0006		0.445	0.0221	0.0011	0.0151	0.109	0.121
PFM000064	Sea Water	0.5	Surface	2003-09-01	4948	0.0047		0.0011		0.485	0.0232	0.0020	0.0134	0.103	0.177
PFM000064	Sea Water	0.5	Surface	2003-09-15	4993	0.0044		0.0003		0.523	0.0238	0.0044	0.0123	0.0856	0.181
PFM000064	Sea Water	0.5	Surface	2003-09-29	8023	0.0052		0.0039		0.443	0.0189	-0.0005	0.0105	0.0538	0.437
PFM000064	Sea Water	0.5	Surface	2003-10-28	8057	0.0206	0.0011	0.0077		0.367	0.0178	0.0012	0.0112	0.0706	0.367
PFM000064	Sea Water	0.5	Surface	2003-11-12	8118	0.0339		0.239		0.663	0.0171	0.0013	0.0103	0.0660	0.928
PFM000064	Sea Water	0.5	Surface	2003-11-25	8135	0.0523		0.167		0.572	0.0140	0.0018	0.0073	0.0393	0.985
PFM000064	Sea Water	1	Bottom	2003-12-15	8192	0.0585		0.362		0.803	0.0157	0.0033	0.0069	0.0365	1.65
PFM000064	Sea Water	0.5	Surface	2003-12-15	8201	0.0777		0.523		1.07	0.0155	0.0018	0.0066	0.0390	2.22
PFM000064	Sea Water	1	Bottom	2004-01-12	8212	0.123	0.0057	0.268		0.725	0.0150	0.0045	0.0065	0.0339	1.91
PFM000064	Sea Water	0.5	Surface	2004-01-12	8219	0.0527	0.0095	1.65		2.62	0.0402	0.0119	0.0145	0.0565	5.51
PFM000064	Sea Water	1	Bottom	2004-02-10	8311	0.141		0.650		1.48	0.0167	0.0041	0.0061	0.0303	4.08
PFM000064	Sea Water	0.5	Surface	2004-02-10	8313	0.0898		0.723		1.58	0.0172	0.0043	0.0054	0.0258	4.41
PFM000064	Sea Water	0.5	Surface	2004-03-15	8344	0.0753		0.560		1.58	0.0275	0.0018	0.0184	0.180	4.63
PFM000064	Sea Water	1	Bottom	2004-03-15	8348	0.0611		0.213		0.683	0.0135	0.0010	0.0088	0.0574	1.90
PFM000065	Sea Water	0.5	Surface	2002-05-27	4128	0.0011		0.0010		0.362	0.0172	0.0014	0.0110	0.0729	0.147
PFM000065	Sea Water	0.5	Surface	2002-06-10	4147	0.0010	0.002	0.0027	-0.01	0.412	0.0242	0.0027	0.0135	0.122	0.213
PFM000065	Sea Water	0.5	Surface	2002-06-24	4188	0.0011		0.0005		0.330	0.0181	0.0017	0.0124	0.0690	0.254
PFM000065	Sea Water	0.5	Surface	2002-07-15	4212	0.0022		0.0006		0.359	0.0171	0.0015	0.0081	0.0538	0.352
PFM000065	Sea Water	0.5	Surface	2002-08-12	4231	0.0042		0.0005		0.554	0.0233	0.0009	0.0123	0.0850	0.910
PFM000065	Sea Water	0.5	Surface	2002-09-02	4249	0.0018		0.0003				-0.0005	0.0073		0.531
PFM000065	Sea Water	0.5	Surface	2002-09-16	4269	0.0025		0.0033		0.320	0.0175	0.0017	0.0143	0.0760	0.543
PFM000065	Sea Water	0.5	Surface	2002-09-30	4308	0.0081		0.0183		0.370	0.0230	0.0037	0.0146	0.104	0.399
PFM000065	Sea Water	0.5	Surface	2002-10-21	4325	0.0052	0.0005	0.0035		0.383	0.0226	0.0014	0.0228	0.0971	0.332

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000064	Sea Water	1	Bottom	2003-04-22	4744	4.4	0.8	1.7	0.208	7.4	7.2	15.9	12.4
PFM000064	Sea Water	0.5	Surface	2003-05-05	4760	3.0	-0.5	2.1	0.713	7.2	7.1	14.8	12.0
PFM000064	Sea Water	0.5	Surface	2003-05-19	4786	5.0	0.7	1.0	1.05	6.8	6.9	14.8	
PFM000064	Sea Water	0.5	Surface	2003-06-02	4813	4.1	0.7	1.4	0.943	5.8	5.5	15.4	
PFM000064	Sea Water	0.5	Surface	2003-06-16	4853	3.8	-0.5	2.0	0.875	5.0	5.0	14.3	
PFM000064	Sea Water	0.5	Surface	2003-07-07	4863	2.9	-0.5	2.8	0.625	4.0	2.8		
PFM000064	Sea Water	0.5	Surface	2003-08-04	4933	3.7	0.3	1.2	0.635	5.3	5.0	12.4	
PFM000064	Sea Water	0.5	Surface	2003-09-01	4948	5.2	-0.5	1.5	0.613	5.3	5.2	13.6	
PFM000064	Sea Water	0.5	Surface	2003-09-15	4993	4.0	0.5	1.0	0.473	5.9	5.7	13.0	
PFM000064	Sea Water	0.5	Surface	2003-09-29	8023	3.3	-0.5	1.2	0.301	3.8	3.9	7.8	
PFM000064	Sea Water	0.5	Surface	2003-10-28	8057	3.1	-0.5	1.1	0.514	3.5	5.9	8.1	
PFM000064	Sea Water	0.5	Surface	2003-11-12	8118	4.3	0.6	1.4	0.444	1.9	5.8	4.3	
PFM000064	Sea Water	0.5	Surface	2003-11-25	8135	2.5	-0.5	1.2	0.264	4.1	5.1	13.0	
PFM000064	Sea Water	1	Bottom	2003-12-15	8192	1.5	-0.5	1.2	0.287	6.9	6.7	14.2	
PFM000064	Sea Water	0.5	Surface	2003-12-15	8201	1.7	-0.5	0.8	0.286	8.6	8.2	14.7	
PFM000064	Sea Water	1	Bottom	2004-01-12	8212	1.0	0.2		0.285	3.7	6.9	10.5	
PFM000064	Sea Water	0.5	Surface	2004-01-12	8219	0.5	-0.2	0.5	0.480	18.2	20.5	19.6	
PFM000064	Sea Water	1	Bottom	2004-02-10	8311	0.3	-0.2	0.3	0.228	15.5	15.6	21.0	
PFM000064	Sea Water	0.5	Surface	2004-02-10	8313	0.3	-0.2	0.5	0.176	18.7	18.8	20.4	
PFM000064	Sea Water	0.5	Surface	2004-03-15	8344	15.9	4.4	0.9	1.18	17.1	16.6	27.2	
PFM000064	Sea Water	1	Bottom	2004-03-15	8348	6.3	1.2	1.1	0.373	7.1	7.0	18.3	
PFM000065	Sea Water	0.5	Surface	2002-05-27	4128	2.9	-0.5	-0.5	0.265	3.3	3.9	0.8	12.1
PFM000065	Sea Water	0.5	Surface	2002-06-10	4147	6.5	-0.5	3.7	0.949	2.5	2.2	7.0	10.9
PFM000065	Sea Water	0.5	Surface	2002-06-24	4188	2.5	-0.5	-0.5	0.422	2.3	4.6	10.3	11.9
PFM000065	Sea Water	0.5	Surface	2002-07-15	4212	1.9	-0.5	1.0	0.306	5.4	4.8	10.5	11.2
PFM000065	Sea Water	0.5	Surface	2002-08-12	4231	3.8	-0.5	1.0	0.459	9.0	6.9	6.5	10.1
PFM000065	Sea Water	0.5	Surface	2002-09-02	4249	3.0	-0.5	-0.5		4.9	5.1	10.3	11.1
PFM000065	Sea Water	0.5	Surface	2002-09-16	4269	3.6	-0.5	1.3	0.479	4.6	4.6	5.4	10.6
PFM000065	Sea Water	0.5	Surface	2002-09-30	4308	4.4	0.5	1.0	0.717	3.2	5.9	4.3	10.5
PFM000065	Sea Water	0.5	Surface	2002-10-21	4325	4.5	0.8	0.9	0.559	3.1	4.4	11.8	12.7

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000065	Sea Water	0.5	Surface	2002-11-11	4355	0.0117	0.0010	0.0116		0.337	0.0168	0.0011	0.0109	0.0856	0.417
PFM000065	Sea Water	0.5	Surface	2002-11-25	4376	0.0517	0.0015	0.0780		0.501	0.0149	0.0016	0.0086	0.0350	0.725
PFM000065	Sea Water	0.5	Surface	2002-12-16	4408	0.0381	0.0065	0.493		1.41	0.0200	0.0044	0.0098	0.0457	3.35
PFM000065	Sea Water	0.5	Surface	2003-01-13	4446	0.0895	0.0052	0.255		0.990	0.0225	0.0029	0.0111	0.0707	2.41
PFM000065	Sea Water	0.5	Surface	2003-02-17	4503	0.114		0.601		1.52	0.0278	0.0052	0.0082	0.0314	2.43
PFM000065	Sea Water	0.5	Surface	2003-04-22	4739	0.0037		0.125		0.608	0.0208	-0.0005	0.0154	0.0892	0.89
PFM000065	Sea Water	0.5	Surface	2003-05-05	4762	0.0128	0.0048	0.498		1.02	0.0201	0.0011	0.0210	0.128	1.54
PFM000065	Sea Water	0.5	Surface	2003-05-19	4784	0.0043		0.264		0.956	0.0238	0.0016	0.0207	0.155	1.19
PFM000065	Sea Water	0.5	Surface	2003-06-02	4818	0.0417		0.0073		0.481	0.0217	0.0019	0.0163	0.124	0.580
PFM000065	Sea Water	0.5	Surface	2003-06-16	4839	0.0018		0.0007		0.361	0.0190	0.0012	0.0124	0.100	0.256
PFM000065	Sea Water	0.5	Surface	2003-07-07	4865	0.0019	0.0004	0.0005	0.0005	0.408	0.0211	0.0009	0.0136	0.0986	0.386
PFM000065	Sea Water	0.5	Surface	2003-08-04	4932	0.0041		0.0015		0.283	0.0119	0.0011	0.0083	0.0574	0.499
PFM000065	Sea Water	0.5	Surface	2003-09-01	4949	0.0014		0.0003		0.292	0.0137	0.0003	0.0083	0.0592	0.478
PFM000065	Sea Water	0.5	Surface	2003-09-15	4989	0.0015		-0.0002		0.288	0.0139	0.0008	0.0084	0.0599	0.585
PFM000065	Sea Water	0.5	Surface	2003-09-29	8005	0.0011		0.0008		0.354	0.0211	0.0005	0.0134	0.0823	0.522
PFM000065	Sea Water	0.5	Surface	2003-10-28	8058	0.0066	0.0005	0.0048		0.388	0.0248	0.0007	0.0151	0.106	0.554
PFM000065	Sea Water	0.5	Surface	2003-11-12	8111	0.0130		0.0831		0.450	0.0199	0.0013	0.0094	0.0931	0.674
PFM000065	Sea Water	0.5	Surface	2003-11-25	8146	0.0198		0.148		0.501	0.0144	0.0014	0.0071	0.0414	0.906
PFM000065	Sea Water	0.5	Surface	2003-12-15	8188	0.0171		0.264		0.598	0.0149	0.0030	0.0075	0.0441	1.20
PFM000065	Sea Water	0.5	Surface	2004-01-12	8222	0.0429	0.0128	1.53		2.46	0.0253	0.0070	0.0084	0.0376	5.38
PFM000065	Sea Water	0.5	Surface	2004-02-10	8314	0.0704		1.64		2.49	0.0439	0.0133	0.0193	0.0720	5.02
PFM000065	Sea Water	0.5	Surface	2004-03-15	8350	0.0373		0.319		1.21	0.0160	0.0015	0.0075	0.0431	3.87
PFM000082	Sea Water			2002-03-20	4007	0.0050		0.0840		0.324	0.0120	0.0020	0.0044	0.0240	0.707
PFM000082	Sea Water	6.5	Bottom	2002-04-02	4032	0.0050		0.0330		0.297	0.0140	0.0010	0.0070	0.0430	0.426
PFM000082	Sea Water	0.5	Surface	2002-04-02	4036	0.0040		0.0290		0.390	0.0160	0.0010	0.0090	0.0400	0.434
PFM000082	Sea Water	0.5	Surface	2002-04-16	4044	0.0020		0.0265		0.285	0.0113	0.0007	0.0065	0.0591	0.156
PFM000082	Sea Water	6	Bottom	2002-04-16	4047	0.0018		0.0281		0.277	0.0115	0.0007	0.0060	0.0534	0.164
PFM000082	Sea Water	0.5	Surface	2003-01-13	4438	0.0096	0.0022	0.151		0.408	0.0100	0.0051	0.0019	0.0138	0.728
PFM000082	Sea Water	6.5	Bottom	2003-01-13	4439	0.0053	0.0026	0.0758		0.294	0.0096	0.0052	0.0047	0.0181	0.677
PFM000082	Sea Water	0.5	Surface	2003-02-17	4489	0.0131		0.175		1.22	0.0269	0.0054	0.0074	0.0242	0.731

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000065	Sea Water	0.5	Surface	2002-11-11	4355	3.8	-0.5	1.0	0.594	3.5	4.3	12.1	13.2
PFM000065	Sea Water	0.5	Surface	2002-11-25	4376	2.1	-0.5	0.8	0.263	4.0	1.6	2.8	13.3
PFM000065	Sea Water	0.5	Surface	2002-12-16	4408	3.3	1.0	0.5	0.376	19.3	18.2	18.8	10.8
PFM000065	Sea Water	0.5	Surface	2003-01-13	4446	17.5	6.5	2.4	0.472	5.8	13.0	15.6	9.1
PFM000065	Sea Water	0.5	Surface	2003-02-17	4503	6.3	1.9	1.0	0.218	17.0	16.7	19.8	10.3
PFM000065	Sea Water	0.5	Surface	2003-04-22	4739	3.1	0.7	1.1	0.634	7.0	6.7	14.1	13.0
PFM000065	Sea Water	0.5	Surface	2003-05-05	4762	2.8	0.5	4.0	0.926	9.9	10.1	17.9	12.1
PFM000065	Sea Water	0.5	Surface	2003-05-19	4784	5.8	0.7	2.8	1.05	11.3	11.4	18.1	
PFM000065	Sea Water	0.5	Surface	2003-06-02	4818	3.0	-0.5	1.7	0.819	16.3	16.1	24.4	
PFM000065	Sea Water	0.5	Surface	2003-06-16	4839	2.3	-0.5	1.1	0.636	4.7	4.7	14.1	
PFM000065	Sea Water	0.5	Surface	2003-07-07	4865	1.9	-0.5	0.7	0.542	2.7	5.3	15.0	
PFM000065	Sea Water	0.5	Surface	2003-08-04	4932	1.9	0.2	0.4	0.336	4.2	4.1	13.7	
PFM000065	Sea Water	0.5	Surface	2003-09-01	4949	2.2	-0.5	-0.5	0.356	4.1	3.9	11.8	
PFM000065	Sea Water	0.5	Surface	2003-09-15	4989	2.8	-0.5	1.2	0.403	4.7	4.5	11.6	
PFM000065	Sea Water	0.5	Surface	2003-09-29	8005	3.9	-0.5	1.0	0.570	4.0	4.0	13.8	
PFM000065	Sea Water	0.5	Surface	2003-10-28	8058	4.3	0.6	2.0	0.779	5.3	4.4	15.0	
PFM000065	Sea Water	0.5	Surface	2003-11-12	8111	3.1	-0.5	1.5	0.748	5.6	4.9	16.0	
PFM000065	Sea Water	0.5	Surface	2003-11-25	8146	2.5	-0.5	1.4	0.302	3.8	2.9	8.1	
PFM000065	Sea Water	0.5	Surface	2003-12-15	8188	1.8	-0.5	1.3	0.367	5.7	5.5	13.6	
PFM000065	Sea Water	0.5	Surface	2004-01-12	8222	0.6	-0.2	0.5	0.329	19.7	19.3	19.7	
PFM000065	Sea Water	0.5	Surface	2004-02-10	8314	0.4	-0.2	0.4	0.587	17.6	18.1	22.0	
PFM000065	Sea Water	0.5	Surface	2004-03-15	8350				0.285	19.3	19.9	22.4	
PFM000082	Sea Water			2002-03-20	4007	2.7	-0.5	-0.5		3.3	3.3	11.0	
PFM000082	Sea Water	6.5	Bottom	2002-04-02	4032	4.0	0.7	-0.5	0.272	5.2	3.0	11.6	14.7
PFM000082	Sea Water	0.5	Surface	2002-04-02	4036	4.8	0.8	1.1	0.214	4.2	4.5	10.4	14.7
PFM000082	Sea Water	0.5	Surface	2002-04-16	4044	5.5	1.3	-0.5	0.447				13.8
PFM000082	Sea Water	6	Bottom	2002-04-16	4047	5.1	1.1	0.8	0.405				13.7
PFM000082	Sea Water	0.5	Surface	2003-01-13	4438	0.6	-0.5	0.7	0.131	2.6	1.3	7.1	
PFM000082	Sea Water	6.5	Bottom	2003-01-13	4439	0.6	-0.5	0.6	0.161	1.6	1.6	5.6	13.8
PFM000082	Sea Water	0.5	Surface	2003-02-17	4489	-0.5	-0.5	-0.5	0.187	2.3	2.1	11.5	13.5

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000082	Sea Water	6.5	Bottom	2003-02-17	4490	0.0042		0.0563		0.297	0.0113	0.0041	0.0016	0.0110	0.613
PFM000082	Sea Water	0.5	Surface	2003-03-17	4647	0.0018		0.0606		0.664	0.0281	0.0013	0.0314	0.160	0.682
PFM000082	Sea Water	6	Bottom	2003-03-17	4648	0.0014		0.0444		0.273	0.0086	0.0019	0.0053	0.0259	0.594
PFM000082	Sea Water	0.5	Surface	2003-03-31	4705	0.0026		0.0220		0.296	0.0172	-0.0005	0.0069	0.0598	0.542
PFM000082	Sea Water	5.5	Bottom	2003-03-31	4706	0.0026		0.0221		0.284	0.0172	0.0006	0.0116	0.0626	0.543
PFM000082	Sea Water	0.5	Surface	2004-02-11	8316	0.0016		0.0697		0.290	0.0121	0.0041	0.0045	0.0225	0.680
PFM000082	Sea Water	6.5	Bottom	2004-02-11	8318	0.0017		0.0696		0.291	0.0107	0.0042	0.0040	0.0189	0.680
PFM000082	Sea Water	0.5	Surface	2004-03-16	8354	0.0035		0.0775		0.344	0.0093	0.0006	0.0053	0.0295	0.795
PFM000082	Sea Water	6	Bottom	2004-03-16	8359	0.0887		0.0546		0.398	0.0313	0.0088	0.0090	0.0394	0.849
PFM000083	Sea Water			2002-03-18	4000	0.0171		0.244		0.659	0.0170	0.0023	0.0082	0.0440	1.71
PFM000083	Sea Water	6.5	Bottom	2002-04-01	4025	0.0050		0.0270		0.288	0.0110	-0.0010	0.0070	0.0400	0.407
PFM000083	Sea Water	0.5	Surface	2002-04-01	4029	0.0030		0.0770		0.339	0.0120	0.0010	0.0060	0.0380	0.671
PFM000083	Sea Water	0.5	Surface	2002-04-16	4053	0.0010		0.0012		0.275	0.0122	-0.0007	0.0066	0.0587	0.197
PFM000083	Sea Water	6	Bottom	2002-04-16	4054	0.0011		0.0105		0.284	0.0124	-0.0007	0.0075	0.0623	0.192
PFM000083	Sea Water	0.5	Surface	2003-03-31	4701	0.0023		0.0182		0.298	0.0162	-0.0005	0.0125	0.0772	0.532
PFM000083	Sea Water	6	Bottom	2003-03-31	4702	0.0023		0.0192		0.306	0.0154	-0.0005	0.0107	0.0684	0.532
PFM000084	Sea Water			2002-03-20	4005	0.0300		0.371		0.840	0.0260	0.0080	0.0098	0.0360	2.29
PFM000084	Sea Water	0.5	Surface	2002-04-02	4035	0.0120		0.596		1.30	0.0360	0.0040	0.0210	0.0910	3.52
PFM000084	Sea Water	2.5	Bottom	2002-04-02	4037	0.0090		0.150		0.420	0.0170	0.0030	0.0100	0.0390	1.04
PFM000084	Sea Water	0.5	Surface	2002-04-17	4062	0.0240		0.361		1.17	0.0379	0.0042	0.0212	0.0869	3.00
PFM000084	Sea Water	2.5	Bottom	2002-04-17	4063	0.0243		0.346		1.17	0.0390	0.0053	0.0223	0.0897	3.12
PFM000084	Sea Water	0.5	Surface	2003-03-17	4643	0.0757		0.791		1.60	0.0437	0.0115	0.0254	0.0706	3.69
PFM000084	Sea Water	2.5	Bottom	2003-03-17	4644	0.0106		0.152		0.353	0.0141	0.0066	0.0068	0.0350	1.04
PFM000084	Sea Water	0.5	Surface	2003-03-31	4707	0.0098		0.0885		0.494	0.0309	0.0011	0.0216	0.124	0.925
PFM000084	Sea Water	2.5	Bottom	2003-03-31	4708	0.0093		0.0956		0.498	0.0300	0.0013	0.0183	0.0993	0.960
PFM000153	Sea Water	0.3	Surface	2002-05-07	4086	0.0030		0.161		0.537	0.0210	0.0013	0.0129	0.0627	0.634
PFM000153	Sea Water	0.5	Surface	2002-05-14	4104	0.0028	-0.001	0.0147	-0.01	0.479	0.0202	0.0023	0.0207	0.0983	0.358
PFM000066	Stream Water	0.2	Surface	2002-03-20	4015	0.0030		0.0170		0.588	0.0080	-0.0010	0.0033	0.0160	4.61
PFM000066	Stream Water	0.2	Surface	2002-04-02	4038	0.0050		0.0070		0.531	0.0070	0.0020	0.0130	0.0030	3.76
PFM000066	Stream Water	0.2	Surface	2002-04-15	4045	0.0067		0.0027		0.564	0.0074	0.0013	0.0023	0.0135	3.64

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O ₂ (mg/l)
PFM000082	Sea Water	6.5	Bottom	2003-02-17	4490	-0.5	-0.5	-0.5	0.100	1.7	1.7	4.2	14.0
PFM000082	Sea Water	0.5	Surface	2003-03-17	4647	9.4	2.1	2.2	0.930	2.6	2.0	7.3	14.3
PFM000082	Sea Water	6	Bottom	2003-03-17	4648	2.7	0.5	1.3	0.191	1.9	1.2	6.2	14.7
PFM000082	Sea Water	0.5	Surface	2003-03-31	4705	5.0	1.1	2.0	0.418	2.0	1.8	9.2	14.6
PFM000082	Sea Water	5.5	Bottom	2003-03-31	4706	5.8	1.2	2.6	0.453	3.2	1.9	5.7	14.6
PFM000082	Sea Water	0.5	Surface	2004-02-11	8316	1.2	-0.2	0.4	0.165	4.0	4.0	13.4	
PFM000082	Sea Water	6.5	Bottom	2004-02-11	8318	1.3	0.2	0.6	0.132	3.8	3.9	13.4	
PFM000082	Sea Water	0.5	Surface	2004-03-16	8354	2.1	0.4	0.3	0.212	4.9	4.7	14.3	
PFM000082	Sea Water	6	Bottom	2004-03-16	8359	4.2	0.7	0.9	0.257	4.0	3.9	15.5	
PFM000083	Sea Water			2002-03-18	4000	2.0	-0.5	-0.5	0.284	6.5	8.0	15.0	
PFM000083	Sea Water	6.5	Bottom	2002-04-01	4025	5.2	0.9	0.8	0.219	4.7	3.7	9.9	14.6
PFM000083	Sea Water	0.5	Surface	2002-04-01	4029	2.2	-0.5	-0.5	0.234	3.0	2.7	5.1	14.7
PFM000083	Sea Water	0.5	Surface	2002-04-16	4053	5.1	1.1	-0.5	0.420	4.5	4.1	8.3	13.3
PFM000083	Sea Water	6	Bottom	2002-04-16	4054	5.6	1.1	-0.5	0.411	4.6	4.7	8.6	13.5
PFM000083	Sea Water	0.5	Surface	2003-03-31	4701	4.6	1.2	1.3	0.549	3.7	2.7	6.1	14.5
PFM000083	Sea Water	6	Bottom	2003-03-31	4702	8.2	1.7	2.0	0.496	2.7	2.1	4.9	15.1
PFM000084	Sea Water			2002-03-20	4005	0.6	-0.5	-0.5	0.229	7.2	7.7	13.0	
PFM000084	Sea Water	0.5	Surface	2002-04-02	4035	3.8	0.9	0.5	0.565	13.1	13.4	15.1	11.4
PFM000084	Sea Water	2.5	Bottom	2002-04-02	4037	3.1	0.5	0.5	0.223	3.3	3.2	7.5	13.2
PFM000084	Sea Water	0.5	Surface	2002-04-17	4062	4.5	0.6	1.3	0.763	13.2	12.6	12.6	11.8
PFM000084	Sea Water	2.5	Bottom	2002-04-17	4063	4.0	0.6	1.5	0.802	13.8	13.9	11.7	12.0
PFM000084	Sea Water	0.5	Surface	2003-03-17	4643	1.1	0.2	0.6	0.451	15.1	14.2	14.6	10.3
PFM000084	Sea Water	2.5	Bottom	2003-03-17	4644	3.4	1.1	0.6	0.268	2.5	3.7	8.1	12.9
PFM000084	Sea Water	0.5	Surface	2003-03-31	4707	6.9	1.5	1.8	0.763	2.5	2.9	6.3	13.9
PFM000084	Sea Water	2.5	Bottom	2003-03-31	4708	5.5	1.2	1.4	0.652	4.1	2.0	7.3	13.6
PFM000153	Sea Water	0.3	Surface	2002-05-07	4086	8.3	1.1	1.4	0.323	5.8	4.9	0.8	12.3
PFM000153	Sea Water	0.5	Surface	2002-05-14	4104	4.0	0.5	0.6	0.733	5.5	5.6	3.5	11.7
PFM000066	Stream Water	0.2	Surface	2002-03-20	4015	1.9	-0.5	-0.5	0.094	11.0	12.0	28.0	6.0
PFM000066	Stream Water	0.2	Surface	2002-04-02	4038				0.084	12.7	12.8	2.5	6.0
PFM000066	Stream Water	0.2	Surface	2002-04-15	4045				0.141				7.2

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000066	Stream Water	0.1	Surface	2002-05-05	4070	0.0189		0.0325		0.671	0.0097	0.0023	0.0057	0.0392	3.35
PFM000066	Stream Water	0.5	Surface	2002-05-12	4092	0.0321		0.0102		0.739	0.0127	0.0026	0.0057	0.0401	3.73
PFM000066	Stream Water	0.05	Surface	2002-05-26	4119	0.0145		0.0082		0.798	0.0161	0.0033	0.0075	0.0552	3.00
PFM000066	Stream Water	0.1	Surface	2002-06-23	4174	0.0333	0.003	0.0096	-0.01	0.873	0.0192	0.0046	0.0089	0.0502	2.96
PFM000066	Stream Water	0.2	Surface	2002-07-16	4208	0.0232		0.0040		0.906	0.0178	0.0035	0.0081	0.0889	3.68
PFM000066	Stream Water	0.05	Surface	2002-08-11	4223	0.0257	0.0050	0.0076	-0.01	0.968	0.0169	0.0031	0.0055	0.0269	4.28
PFM000066	Stream Water	0.5	Surface	2002-11-26	4394	0.0086	0.0024	0.325		1.01	0.0136	0.0025	0.0086	0.0394	3.50
PFM000066	Stream Water	0.1	Surface	2002-12-17	4424	0.0080	0.0026	0.130		1.14	0.0081	0.0017		0.0163	5.47
PFM000066	Stream Water	0.1	Surface	2003-01-13	4454	0.0475	0.0007	0.0044		0.916	0.0095	0.0017	0.0048	0.0307	6.47
PFM000066	Stream Water	0.1	Surface	2003-02-17	4509	0.0397		0.0121		1.17	0.0077	0.0009	0.0022	0.0164	5.57
PFM000066	Stream Water	0.1	Surface	2003-03-18	4658	0.0348		0.0225		0.742	0.0077	0.0013	0.0047	0.0300	4.76
PFM000066	Stream Water	0.1	Surface	2003-04-01	4720	0.0074		0.0038		0.612	0.0075	0.0010	0.0033	0.0197	4.54
PFM000066	Stream Water	0.1	Surface	2003-04-22	4750	0.0060		0.0041		0.605	0.0091	-0.0005	0.0015	0.0148	3.71
PFM000066	Stream Water	0.1	Surface	2003-05-06	4771	0.0032	0.0003	0.0063		0.675	0.0088	0.0006	0.0072	0.0308	3.33
PFM000066	Stream Water	0.1	Surface	2003-05-20	4796	0.0074		0.0043		0.701	0.0082	0.0006	0.0040	0.0245	3.13
PFM000066	Stream Water	0.1	Surface	2003-06-03	4830	0.0060		0.0026		0.772	0.0098	0.0009	0.0052	0.0350	2.68
PFM000066	Stream Water	0.1	Surface	2003-06-17	4852	0.0151		0.0081		0.825	0.0110	0.0013	0.0054	0.0308	2.41
PFM000066	Stream Water	0.1	Surface	2003-07-08	4869	0.0336	0.0056	0.0484	0.0484	0.903	0.0112	0.0019	0.0046	0.0278	2.44
PFM000066	Stream Water	0.1	Surface	2003-09-02	4974	0.0078		0.281		1.24	0.0193	0.0012	0.0113	0.0668	3.87
PFM000066	Stream Water	0.1	Surface	2003-09-30	8029	0.0052		0.0014		0.831	0.0108	-0.0005	0.0052	0.0236	4.74
PFM000066	Stream Water	0.1	Surface	2003-10-27	8044	0.0006	0.0006	0.0024		0.701	0.0079	-0.0005	0.0031	0.0195	4.51
PFM000066	Stream Water	0.1	Surface	2003-11-12	8107	-0.0005		0.0026		0.768	0.0073	-0.0005	0.0029	0.0200	3.76
PFM000066	Stream Water	0.1	Surface	2003-11-25	8144	0.0011		0.0068		0.759	0.0070	-0.0005	0.0022	0.0175	4.75
PFM000066	Stream Water	0.1	Surface	2003-12-16	8193	0.0019		0.105		0.738	0.0053	-0.0005	0.0012		5.27
PFM000066	Stream Water	0.1	Surface	2004-01-12	8224	0.0030	0.0006	0.0054		0.729	0.0063	-0.0005	0.0013	0.0099	5.62
PFM000066	Stream Water	0.1	Surface	2004-02-09	8302	0.0021		0.0146		0.687	0.0055	-0.0005	0.0018	0.0132	5.60
PFM000066	Stream Water	0.1	Surface	2004-03-16	8357	0.0107		0.0064		0.718	0.0106	0.0008	0.0050	0.0328	5.80
PFM000067	Stream Water	0.1	Surface	2002-03-19	4009	0.0580		0.0380		0.951	0.0110	0.0010			4.46
PFM000067	Stream Water	0.2	Surface	2002-04-01	4023	0.0250		0.0260		0.732	0.0120	-0.0010	0.0040	0.0330	3.37
PFM000067	Stream Water	0.5	Surface	2002-04-17	4057	0.0131		0.0037		0.769	0.0161	0.0014	0.0108	0.110	2.24

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O ₂ (mg/l)
PFM000066	Stream Water	0.1	Surface	2002-05-05	4070	1.1	-0.5	-0.5	0.259	13.8	11.8	22.0	6.7
PFM000066	Stream Water	0.5	Surface	2002-05-12	4092	7.0	-0.5	-0.5	0.303	14.6	7.3	1.7	6.1
PFM000066	Stream Water	0.05	Surface	2002-05-26	4119	1.4	-0.5	0.5	0.217	16.8	16.6	9.1	7.4
PFM000066	Stream Water	0.1	Surface	2002-06-23	4174	-0.5	-0.5	0.7	0.277	17.8	17.3	26.2	5.3
PFM000066	Stream Water	0.2	Surface	2002-07-16	4208				0.664	15.7	19.0	26.5	4.5
PFM000066	Stream Water	0.05	Surface	2002-08-11	4223				0.184	21.0	19.9	26.4	3.9
PFM000066	Stream Water	0.5	Surface	2002-11-26	4394	0.6	-0.5	0.6	0.264	15.7	14.3	26.9	8.1
PFM000066	Stream Water	0.1	Surface	2002-12-17	4424	-0.5	-0.5	-0.5	0.117	16.6	15.6	25.3	6.1
PFM000066	Stream Water	0.1	Surface	2003-01-13	4454	0.6	-0.5	-0.5	0.192	19.2	18.6	45.6	1.3
PFM000066	Stream Water	0.1	Surface	2003-02-17	4509	-0.5	-0.5	-0.5	0.113	19.4	19.4	46.2	2.7
PFM000066	Stream Water	0.1	Surface	2003-03-18	4658	-0.5	-0.5	0.1	0.188	14.6	13.4	26.7	3.1
PFM000066	Stream Water	0.1	Surface	2003-04-01	4720	-0.5	-0.5	-0.5	0.127	14.2	14.2	32.7	4.2
PFM000066	Stream Water	0.1	Surface	2003-04-22	4750	-0.5	-0.5	0.9	0.068	13.5	13.5	30.8	6.9
PFM000066	Stream Water	0.1	Surface	2003-05-06	4771				0.216	13.7	13.8	26.9	7.2
PFM000066	Stream Water	0.1	Surface	2003-05-20	4796				0.184	16.4	16.4	31.2	
PFM000066	Stream Water	0.1	Surface	2003-06-03	4830				0.196	17.3	17.3	30.0	
PFM000066	Stream Water	0.1	Surface	2003-06-17	4852				0.226	17.6	17.5	31.7	
PFM000066	Stream Water	0.1	Surface	2003-07-08	4869				0.182	18.0	17.3	25.9	
PFM000066	Stream Water	0.1	Surface	2003-09-02	4974				0.391	20.6	21.1	24.2	
PFM000066	Stream Water	0.1	Surface	2003-09-30	8029				0.141	19.4	19.0	29.2	
PFM000066	Stream Water	0.1	Surface	2003-10-27	8044				0.175	15.2	13.1	30.8	
PFM000066	Stream Water	0.1	Surface	2003-11-12	8107				0.153	17.0	15.7	20.7	
PFM000066	Stream Water	0.1	Surface	2003-11-25	8144				0.143	17.8	17.6	28.0	
PFM000066	Stream Water	0.1	Surface	2003-12-16	8193					18.0	17.8	30.1	
PFM000066	Stream Water	0.1	Surface	2004-01-12	8224				0.082	17.5	18.3	37.4	2.5
PFM000066	Stream Water	0.1	Surface	2004-02-09	8302				0.093	17.0	16.9	41.5	1.8
PFM000066	Stream Water	0.1	Surface	2004-03-16	8357				0.203	16.4	16.4	46.4	
PFM000067	Stream Water	0.1	Surface	2002-03-19	4009					23.0	22.0	23.0	
PFM000067	Stream Water	0.2	Surface	2002-04-01	4023				0.202	16.3	15.9	16.4	6.1
PFM000067	Stream Water	0.5	Surface	2002-04-17	4057				1.12	16.7	15.7	19.2	12.3

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000067	Stream Water	0.1	Surface	2002-05-06	4072	0.0216		0.0517		0.775	0.0124	0.0023	0.0067	0.0395	0.996
PFM000067	Stream Water	0.5	Surface	2002-05-13	4098	0.0052		0.0032		0.843	0.0179	0.0032	0.0081	0.0640	0.304
PFM000067	Stream Water	0.1	Surface	2002-05-27	4123	0.0154		0.0025		0.941	0.0176	0.0022	0.0048	0.0438	0.354
PFM000067	Stream Water	0.05	Surface	2002-06-10	4149	0.0461		0.0054		1.15	0.0199	0.0054	0.0058	0.0455	0.804
PFM000067	Stream Water	0.05	Surface	2002-06-24	4180	0.0231		0.0023		1.21	0.0216	0.0029	0.0089	0.0888	1.12
PFM000067	Stream Water	0.1	Surface	2002-07-15	4204	0.0206		0.0008		1.13	0.0166	0.0027	0.0071	0.0758	1.06
PFM000067	Stream Water	0.1	Surface	2002-08-12	4242	0.0238		0.0017		1.10	0.0170	0.0024	0.0077	0.0626	1.79
PFM000067	Stream Water	0.1	Surface	2002-09-02	4259	0.0237		0.0022				0.0017	0.0144		1.64
PFM000067	Stream Water	0.05	Surface	2002-09-16	4286	0.0359		0.0051		1.31	0.0221	0.0035	0.0111		1.45
PFM000067	Stream Water	0.1	Surface	2002-09-30	4313	0.0279		0.0066		1.19	0.0172	0.0041	0.0089	0.102	0.717
PFM000067	Stream Water	0.05	Surface	2002-10-22	4339	0.0135	0.0010	0.0049		1.18	0.0139	0.0018	0.0061	0.0864	0.361
PFM000067	Stream Water	0.05	Surface	2002-11-13	4356	0.0068	0.0004	0.0031		1.34	0.0239	0.0014	0.0117	0.126	0.190
PFM000067	Stream Water	0.05	Surface	2002-11-26	4395	0.0203	0.0008	0.0415		1.14	0.0157	0.0021	0.0061	0.112	0.297
PFM000067	Stream Water	0.1	Surface	2002-12-17	4427	0.0498	0.0013	0.0822		1.33	0.0095	0.0013	0.0030	0.0283	1.98
PFM000067	Stream Water	0.1	Surface	2003-01-15	4459	0.284	0.0018	0.0167		1.50	0.0095	0.0008	0.0042	0.0321	2.10
PFM000067	Stream Water	0.1	Surface	2003-02-18	4500	0.196		0.0266		1.42	0.0110	0.0006	0.0049	0.0304	4.15
PFM000067	Stream Water	0.05	Surface	2003-03-18	4660	0.130		0.0190		1.09	0.0111	0.0007	0.0054	0.0423	3.47
PFM000067	Stream Water	0.05	Surface	2003-03-31	4717	0.0056		0.0019		0.770	0.0093	0.0007	0.0045	0.0293	1.49
PFM000067	Stream Water	0.05	Surface	2003-04-23	4755	0.0107		0.0015		0.858	0.0132	0.0009	0.0044	0.0543	0.924
PFM000067	Stream Water	0.1	Surface	2003-05-06	4772	0.0082	0.0003	0.0027		0.589	0.0071	0.0006	0.0065	0.0563	0.426
PFM000067	Stream Water	0.05	Surface	2003-05-20	4804	0.0129		0.0026		0.841	0.0157	0.0012	0.0066	0.0671	0.186
PFM000067	Stream Water	0.05	Surface	2003-06-03	4822	0.0113		0.0016		0.883	0.0169	0.0016	0.0062	0.0620	0.250
PFM000067	Stream Water	0.05	Surface	2003-06-17	4850	0.0150		0.0024		0.961	0.0185	0.0021	0.0063	0.0642	0.283
PFM000067	Stream Water	0.05	Surface	2003-07-08	4868	0.0277	0.0008	0.0066	0.0066	1.20	0.0219	0.0012	0.0111	0.112	0.443
PFM000067	Stream Water	0.05	Surface	2003-08-05	4935	0.114		0.0418		2.02	0.0650	0.0010	0.0365	0.252	0.639
PFM000067	Stream Water	0.05	Surface	2003-09-02	4972	0.0091		0.0013		1.34	0.0209	0.0012	0.0115	0.146	1.46
PFM000067	Stream Water	0.05	Surface	2003-09-16	8001	0.0191		0.0027		1.40	0.0239	0.0021	0.0101	0.103	0.854
PFM000067	Stream Water	0.05	Surface	2003-09-30	8032	0.0143		0.0050		1.21	0.0177	0.0023	0.0086	0.0629	0.415
PFM000067	Stream Water	0.05	Surface	2003-10-28	8056	0.0007	0.0003	0.0033		1.11	0.0120	-0.0005	0.0046	0.0406	0.088
PFM000067	Stream Water	0.05	Surface	2003-11-13	8121	0.0103		0.0088		1.00	0.0095	-0.0005	0.0034	0.0393	0.324

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O ₂ (mg/l)
PFM000067	Stream Water	0.1	Surface	2002-05-06	4072	2.2	-0.5	0.5	0.272	12.2	14.7	15.2	10.2
PFM000067	Stream Water	0.5	Surface	2002-05-13	4098	2.9	-0.5	-0.5	0.396	9.2	14.0	1.2	9.6
PFM000067	Stream Water	0.1	Surface	2002-05-27	4123	2.1	-0.5	-0.5	0.180	17.6	11.7	2.8	11.1
PFM000067	Stream Water	0.05	Surface	2002-06-10	4149	1.7	-0.5	-0.5	0.406	2.5	2.9	6.0	7.1
PFM000067	Stream Water	0.05	Surface	2002-06-24	4180	2.9	-0.5	0.8	0.773	16.3	16.6	16.0	9.2
PFM000067	Stream Water	0.1	Surface	2002-07-15	4204				0.635	18.3	17.4	16.1	8.1
PFM000067	Stream Water	0.1	Surface	2002-08-12	4242				0.457	19.6	18.3	20.3	8.8
PFM000067	Stream Water	0.1	Surface	2002-09-02	4259	6.5	-0.5	1.1	17.4	17.4	23.2	0.9	10.1
PFM000067	Stream Water	0.05	Surface	2002-09-16	4286	3.9	-0.5	-0.5	20.5	20.5	20.0	1.6	10.2
PFM000067	Stream Water	0.1	Surface	2002-09-30	4313	3.2	-0.5	-0.5	0.789	17.7	19.1	20.7	11.3
PFM000067	Stream Water	0.05	Surface	2002-10-22	4339	5.0	0.6	-0.5	0.505	20.6	20.3	20.0	12.6
PFM000067	Stream Water	0.05	Surface	2002-11-13	4356	21.8	2.0	6.2	1.06	20.1	15.0	20.7	12.2
PFM000067	Stream Water	0.05	Surface	2002-11-26	4395	21.3		23.0	0.792	17.4	6.9	3.7	12.1
PFM000067	Stream Water	0.1	Surface	2002-12-17	4427	0.6	-0.5	0.5	0.253	21.8	21.2	22.6	9.7
PFM000067	Stream Water	0.1	Surface	2003-01-15	4459	-0.5	-0.5	-0.5	0.251	20.6	21.0	31.9	2.6
PFM000067	Stream Water	0.1	Surface	2003-02-18	4500	-0.5	-0.5	-0.5	0.240	22.7	23.0	31.4	1.9
PFM000067	Stream Water	0.05	Surface	2003-03-18	4660	0.3	0.15	0.3	0.195	15.2	17.1	29.4	4.5
PFM000067	Stream Water	0.05	Surface	2003-03-31	4717	0.7	-0.5	0.6	0.211	14.5	14.6	22.5	13.4
PFM000067	Stream Water	0.05	Surface	2003-04-23	4755	1.9	-0.5	0.9	0.345	14.7	14.5	22.9	10.6
PFM000067	Stream Water	0.1	Surface	2003-05-06	4772				0.394	15.1	13.8	17.4	11.4
PFM000067	Stream Water	0.05	Surface	2003-05-20	4804				0.430	15.3	15.1	19.9	
PFM000067	Stream Water	0.05	Surface	2003-06-03	4822				0.396	16.1	16.1	20.1	
PFM000067	Stream Water	0.05	Surface	2003-06-17	4850				0.443	16.1	16.6	20.3	
PFM000067	Stream Water	0.05	Surface	2003-07-08	4868				0.797	14.9	17.8	15.6	
PFM000067	Stream Water	0.05	Surface	2003-08-05	4935				1.88	19.8	19.0	14.3	
PFM000067	Stream Water	0.05	Surface	2003-09-02	4972				1.17	17.8	18.6	13.2	
PFM000067	Stream Water	0.05	Surface	2003-09-16	8001				0.900	18.7	17.6	14.3	
PFM000067	Stream Water	0.05	Surface	2003-09-30	8032				0.569	17.4	17.5	15.3	
PFM000067	Stream Water	0.05	Surface	2003-10-28	8056				0.350	16.7	19.1	10.0	
PFM000067	Stream Water	0.05	Surface	2003-11-13	8121				0.311	11.1	10.9	10.9	

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000067	Stream Water	0.05	Surface	2003-11-26	8142	0.0256		0.0212		1.02	0.0109	0.0007	0.0036	0.0328	0.916
PFM000067	Stream Water	0.05	Surface	2003-12-17	8206	0.0272		0.0259		1.07	0.0113	-0.0005	0.0049	0.0426	2.21
PFM000067	Stream Water	0.05	Surface	2004-01-13	8216	0.0711	0.0015	0.0419		1.12	0.0091	0.0005	0.0037	0.0303	4.27
PFM000067	Stream Water	0.05	Surface	2004-02-11	8326	0.155		0.0464		1.32	0.0111	-0.0005	0.0032	0.0362	4.83
PFM000067	Stream Water	0.05	Surface	2004-03-16	8362	0.0466		0.0235		1.18	0.0116	0.0011	0.0042	0.0333	4.93
PFM000068	Stream Water	0.5	Surface	2002-03-18	4014	0.0280		0.0540		0.897	0.0100	0.0010			5.21
PFM000068	Stream Water	0.3	Surface	2002-04-01	4024	0.0130		0.0240		0.684	0.0100	-0.0010	0.0040	0.0200	3.47
PFM000068	Stream Water	0.5	Surface	2002-04-15	4046	0.0344		0.0219		0.830	0.0136	0.0021	0.0060	0.0340	4.08
PFM000068	Stream Water	0.1	Surface	2002-05-05	4080	0.0400		0.0307		0.970	0.0182	0.0044	0.0065	0.0522	4.13
PFM000068	Stream Water	0.1	Surface	2002-05-13	4093	0.0320		0.0128		0.948	0.0179	0.0038	0.0077	0.0552	1.17
PFM000068	Stream Water	0.1	Surface	2002-05-28	4137	0.0304		0.0116		0.903	0.0167	0.0048	0.0069	0.0502	6.02
PFM000068	Stream Water	0.03	Surface	2002-06-11	4160	0.5096		0.0257		1.82	0.0664	0.0257		0.130	6.61
PFM000068	Stream Water	0.2	Surface	2002-06-23	4176	0.0157		0.0217		1.03	0.0214	0.0052	0.0089	0.0585	2.51
PFM000068	Stream Water	0.2	Surface	2002-07-16	4213	0.0173		0.0042		1.05	0.0180	0.0072	0.0056	0.0493	3.68
PFM000068	Stream Water	0.1	Surface	2002-08-13	4238	0.0428		0.0144		1.16	0.0189	0.0067	0.0053	0.0395	5.68
PFM000068	Stream Water	0.2	Surface	2002-09-03	4271	0.0196		0.0295				0.0055	0.0055		6.12
PFM000068	Stream Water	0.1	Surface	2002-10-01	4301	0.0025		0.0008		1.06	0.0157	0.0025	0.0051	0.0355	7.06
PFM000068	Stream Water	0.5	Surface	2002-10-22	4343	0.0020	0.0010	0.0014		0.972	0.0115	0.0034	0.0039	0.0517	5.67
PFM000068	Stream Water	0.5	Surface	2002-11-13	4362	0.0132	0.0012	0.0232		1.04	0.0088	0.0023	0.0025	0.0190	7.15
PFM000068	Stream Water	0.5	Surface	2002-11-26	4393	0.0064	0.0016	0.414		1.32	0.0252	0.0036	0.0159	0.0681	2.59
PFM000068	Stream Water	0.1	Surface	2002-12-18	4425	0.0248	0.0023	0.0593		1.35	0.0088	0.0035	0.0029	0.0227	4.06
PFM000068	Stream Water	0.1	Surface	2003-01-16	4457	0.0902	0.0030	0.113		1.18	0.0118	0.0024	0.0052	0.0382	5.71
PFM000068	Stream Water	0.1	Surface	2003-02-19	4497	0.179		0.0436		1.14	0.0089	0.0006	0.0031	0.0204	4.14
PFM000068	Stream Water	0.5	Surface	2003-03-18	4645	0.0505		0.0638		0.800	0.0090	0.0013	0.0046	0.0281	4.36
PFM000068	Stream Water	0.5	Surface	2003-03-30	4716	0.0162		0.0342		0.661	0.0079	0.0009	0.0035	0.0236	3.61
PFM000068	Stream Water	0.5	Surface	2003-04-23	4740	0.0133		0.0117		0.720	0.0089	0.0009	0.0039	0.0242	3.50
PFM000068	Stream Water	0.5	Surface	2003-05-05	4758	0.0052	0.0007	0.0456		0.809	0.0096	0.0011	0.0044	0.0230	3.02
PFM000068	Stream Water	0.5	Surface	2003-05-20	4785	0.0117		0.0068		0.824	0.0098	0.0008	0.0040	0.0344	3.17
PFM000068	Stream Water	0.5	Surface	2003-06-03	4827	0.0154		0.0075		0.842	0.0101	0.0014	0.0045	0.0340	4.39
PFM000068	Stream Water	0.5	Surface	2003-06-17	4849	0.0158		0.0078		0.881	0.0112	0.0016	0.0040	0.0218	4.82

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O ₂ (mg/l)
PFM000067	Stream Water	0.05	Surface	2003-11-26	8142				0.260	17.1	16.8	10.6	
PFM000067	Stream Water	0.05	Surface	2003-12-17	8206				0.340	19.8	19.7	21.1	11.9
PFM000067	Stream Water	0.05	Surface	2004-01-13	8216				0.248	20.5	22.2	29.5	
PFM000067	Stream Water	0.05	Surface	2004-02-11	8326				0.287	24.6	24.0	34.6	1.9
PFM000067	Stream Water	0.05	Surface	2004-03-16	8362				0.254	24.9	25.0	37.6	3.7
PFM000068	Stream Water	0.5	Surface	2002-03-18	4014					20.0			
PFM000068	Stream Water	0.3	Surface	2002-04-01	4024				0.083	14.0	14.0	17.0	5.8
PFM000068	Stream Water	0.5	Surface	2002-04-15	4046				0.385				7.1
PFM000068	Stream Water	0.1	Surface	2002-05-05	4080	1.5	-0.5	0.5	0.370	17.8	14.0	25.5	6.9
PFM000068	Stream Water	0.1	Surface	2002-05-13	4093	1.0	-0.5	-0.5	0.405	19.6	18.9	20.1	5.6
PFM000068	Stream Water	0.1	Surface	2002-05-28	4137	0.9	-0.5	0.9	0.183	18.1	20.3	1.7	8.2
PFM000068	Stream Water	0.03	Surface	2002-06-11	4160	0.5	-0.5	0.5	1.15	19.0	10.0	16.4	2.1
PFM000068	Stream Water	0.2	Surface	2002-06-23	4176	0.5	-0.5	-0.5	0.385	22.8	22.3	16.6	6.1
PFM000068	Stream Water	0.2	Surface	2002-07-16	4213				0.521	22.9	22.7	22.0	5.3
PFM000068	Stream Water	0.1	Surface	2002-08-13	4238				0.321	20.8	23.3	27.2	4.5
PFM000068	Stream Water	0.2	Surface	2002-09-03	4271	1.0	-0.5	0.8		19.3	24.4	22.3	5.0
PFM000068	Stream Water	0.1	Surface	2002-10-01	4301	1.9	-0.5	2.4	0.228	21.3	22.5	32.1	4.7
PFM000068	Stream Water	0.5	Surface	2002-10-22	4343	-0.5	-0.5	-0.5	0.350	25.0	24.0	39.1	5.6
PFM000068	Stream Water	0.5	Surface	2002-11-13	4362	-0.5	-0.5	-0.5	0.152	16.6	21.0	33.4	1.6
PFM000068	Stream Water	0.5	Surface	2002-11-26	4393	-0.5	-0.5	-0.5	0.711	22.1	8.7	5.8	8.3
PFM000068	Stream Water	0.1	Surface	2002-12-18	4425	-0.5	-0.5	-0.5	0.146	23.1	23.3	28.2	4.9
PFM000068	Stream Water	0.1	Surface	2003-01-16	4457	-0.5	-0.5	-0.5	0.279	20.4	20.6	39.1	3.1
PFM000068	Stream Water	0.1	Surface	2003-02-19	4497	-0.5	-0.5	-0.5	0.172	21.0	20.6	38.4	5.9
PFM000068	Stream Water	0.5	Surface	2003-03-18	4645	-0.5	0.05	0.2	0.186	15.5	13.4	19.0	7.4
PFM000068	Stream Water	0.5	Surface	2003-03-30	4716	1.8	-0.5	0.7	0.132	14.2	12.3	25.2	7.8
PFM000068	Stream Water	0.5	Surface	2003-04-23	4740	-0.5	-0.5	0.6	0.188	15.1	15.1	25.3	7.0
PFM000068	Stream Water	0.5	Surface	2003-05-05	4758				0.154	17.7	17.1	21.7	7.3
PFM000068	Stream Water	0.5	Surface	2003-05-20	4785				0.220	18.5	18.2	26.9	
PFM000068	Stream Water	0.5	Surface	2003-06-03	4827				0.225	19.2	18.8	30.0	
PFM000068	Stream Water	0.5	Surface	2003-06-17	4849				0.163	20.3	19.2	30.1	

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000068	Stream Water	0.5	Surface	2003-07-08	4872	0.0449	0.0051	0.0336	0.0336	0.960	0.0135	0.0039	0.0041	0.0275	4.34
PFM000068	Stream Water	0.5	Surface	2003-09-02	4973	0.0172		0.259		1.30	0.0251	0.0013	0.0102	0.0735	3.59
PFM000068	Stream Water	0.5	Surface	2003-09-15	4998	0.0035		0.0004		0.945	0.0112	-0.0005	0.0057	0.0337	4.82
PFM000068	Stream Water	0.5	Surface	2003-09-29	8021	0.0002		0.0458		0.977	0.0186	-0.0005	0.0097	0.0480	3.99
PFM000068	Stream Water	0.5	Surface	2003-10-29	8060	0.0014	0.0016	0.0453		0.921	0.0146	-0.0005	0.0071	0.0370	4.81
PFM000068	Stream Water	0.5	Surface	2003-11-13	8122	0.0022		0.0441		0.991	0.0101	-0.0005	0.0062	0.0599	4.25
PFM000068	Stream Water	0.5	Surface	2003-11-25	8137	0.0045		0.0619		1.04	0.0102	-0.0005	0.0035	0.0255	4.19
PFM000068	Stream Water	0.5	Surface	2003-12-16	8204	0.0335		0.0703		1.10	0.0089	-0.0005	0.0024	0.0207	4.56
PFM000068	Stream Water	0.5	Surface	2004-01-13	8225	0.0484	0.0012	0.0551		1.10	0.0098	0.0007	0.0031	0.0232	5.03
PFM000068	Stream Water	0.5	Surface	2004-02-09	8305	0.0466		0.0864		1.14	0.0121	0.0007	0.0047	0.0367	5.42
PFM000068	Stream Water	0.5	Surface	2004-03-15	8345	0.0854		0.0887		1.22	0.0130	0.0007	0.0064	0.0533	6.13
PFM000069	Stream Water	0.2	Surface	2002-03-19	4016	0.0010		0.0070		0.793	0.0130	0.0090			5.92
PFM000069	Stream Water	0.2	Surface	2002-04-01	4028	0.0020		0.0080		0.654	0.0140	0.0010	0.0060	0.0250	4.31
PFM000069	Stream Water	0.5	Surface	2002-04-17	4055	0.0069		0.0038		0.661	0.0127	0.0016	0.0057	0.0250	4.15
PFM000069	Stream Water	0.1	Surface	2002-05-06	4075	0.0156		0.0065		0.822	0.0137	0.0038	0.0057	0.0288	4.95
PFM000069	Stream Water	0.1	Surface	2002-05-13	4089	0.0031		0.0381		0.855	0.0152	0.0065	0.0053	0.0379	4.51
PFM000069	Stream Water	0.1	Surface	2002-05-28	4136	0.0247		0.0044		0.889	0.0184	0.0056	0.0066	0.0436	6.09
PFM000069	Stream Water	0.01	Surface	2002-06-11	4159	0.288		0.0488		1.70	0.0938	0.0488		0.127	6.14
PFM000069	Stream Water	0.1	Surface	2002-06-24	4189	0.0280		0.0336		1.02	0.0228	0.0055	0.0075	0.0467	4.32
PFM000069	Stream Water	0.15	Surface	2002-07-16	4211	0.0122		0.0028		0.978	0.0151	0.0046	0.0032	0.0216	4.07
PFM000069	Stream Water	0.05	Surface	2002-08-13	4244	0.0117		0.0050		1.05	0.0142	0.0049	0.0030	0.0188	5.64
PFM000069	Stream Water	0.1	Surface	2002-09-03	4252	0.0130		0.0082				0.0047	0.0052		5.74
PFM000069	Stream Water	0.05	Surface	2002-10-01	4300	0.0100		0.0136		1.07	0.0173	0.0037	0.0051	0.0621	6.99
PFM000069	Stream Water	0.05	Surface	2002-10-22	4342	0.0204	0.0015	0.0128		1.00	0.0115	0.0027	0.0034	0.0284	5.97
PFM000069	Stream Water	0.05	Surface	2002-11-13	4361	0.0223	0.0010	0.0062		1.14	0.0105	0.0035	0.0038	0.0308	8.18
PFM000069	Stream Water	0.05	Surface	2002-11-26	4384	0.0106	0.0013	0.178		1.03	0.0161	0.0038	0.0081	0.0528	4.10
PFM000069	Stream Water	0.1	Surface	2002-12-18	4406	0.0017	0.0006	0.0022		0.946	0.0103	0.0026	0.0033	0.0199	4.66
PFM000069	Stream Water	0.1	Surface	2003-01-16	4455	0.0792	0.0014	0.0214		1.19	0.0190	0.0022	0.0128	0.0866	8.16
PFM000069	Stream Water	0.1	Surface	2003-02-19	4505	0.0010		0.0123		0.822	0.0111	0.0005	0.0053	0.0364	6.81
PFM000069	Stream Water	0.05	Surface	2003-03-18	4654	0.0042		0.0090		0.714	0.0121	0.0012	0.0049	0.0346	5.72

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O ₂ (mg/l)
PFM000068	Stream Water	0.5	Surface	2003-07-08	4872				0.195	20.2	16.8	26.1	
PFM000068	Stream Water	0.5	Surface	2003-09-02	4973				0.549	22.8	22.5	17.6	
PFM000068	Stream Water	0.5	Surface	2003-09-15	4998				0.277	17.3	21.3	30.2	
PFM000068	Stream Water	0.5	Surface	2003-09-29	8021				0.408	21.7	21.2	21.2	
PFM000068	Stream Water	0.5	Surface	2003-10-29	8060				0.258	19.7	19.7	23.3	
PFM000068	Stream Water	0.5	Surface	2003-11-13	8122				0.659	18.0	20.9	20.1	
PFM000068	Stream Water	0.5	Surface	2003-11-25	8137				0.223	21.0	14.6	14.8	
PFM000068	Stream Water	0.5	Surface	2003-12-16	8204				0.170	23.5	23.4	26.1	
PFM000068	Stream Water	0.5	Surface	2004-01-13	8225				0.188	23.8	23.3	28.0	3.0
PFM000068	Stream Water	0.5	Surface	2004-02-09	8305				0.273	23.7	23.4	33.5	
PFM000068	Stream Water	0.5	Surface	2004-03-15	8345				0.443	25.2	23.8	39.9	
PFM000069	Stream Water	0.2	Surface	2002-03-19	4016					17.0	18.0	27.0	
PFM000069	Stream Water	0.2	Surface	2002-04-01	4028				0.160	15.4	16.2	20.3	2.5
PFM000069	Stream Water	0.5	Surface	2002-04-17	4055	0.6	-0.5	-0.5	0.217	16.2	16.2	18.6	4.7
PFM000069	Stream Water	0.1	Surface	2002-05-06	4075	1.1	-0.5	0.9	0.181	13.7	13.1	18.3	5.2
PFM000069	Stream Water	0.1	Surface	2002-05-13	4089	1.1	-0.5	1.0	0.261	19.1	14.7	14.4	4.6
PFM000069	Stream Water	0.1	Surface	2002-05-28	4136	1.6	-0.5	1.0	0.196	19.8	18.9	5.1	7.8
PFM000069	Stream Water	0.01	Surface	2002-06-11	4159	1.3	-0.5	1.3	1.09	16.7	11.2	23.8	3.0
PFM000069	Stream Water	0.1	Surface	2002-06-24	4189	0.7	-0.5	1.1	0.272	22.3	16.3	17.3	5.4
PFM000069	Stream Water	0.15	Surface	2002-07-16	4211				0.215	23.0	22.0	23.9	5.4
PFM000069	Stream Water	0.05	Surface	2002-08-13	4244				0.160	24.4	22.4	29.2	4.5
PFM000069	Stream Water	0.1	Surface	2002-09-03	4252	1.8	-0.5	1.1		24.1	22.5	26.7	6.0
PFM000069	Stream Water	0.05	Surface	2002-10-01	4300	-0.5	-0.5	-0.5	0.526	19.5	19.7	36.5	7.2
PFM000069	Stream Water	0.05	Surface	2002-10-22	4342	0.8	-0.5	-0.5	0.146	23.4	22.9	39.7	5.4
PFM000069	Stream Water	0.05	Surface	2002-11-13	4361	0.7	-0.5	-0.5	0.230	21.0	22.6	30.5	0.5
PFM000069	Stream Water	0.05	Surface	2002-11-26	4384	-0.5	-0.5	-0.5	0.378	19.2	11.7	1.9	6.4
PFM000069	Stream Water	0.1	Surface	2002-12-18	4406	-0.5	-0.5	-0.5	0.129	22.0	14.8	21.6	0.3
PFM000069	Stream Water	0.1	Surface	2003-01-16	4455	-0.5	-0.5	-0.5	0.546	24.6	18.3	50.4	0.9
PFM000069	Stream Water	0.1	Surface	2003-02-19	4505	-0.5	-0.5	-0.5	0.181	18.8	16.4	41.4	2.8
PFM000069	Stream Water	0.05	Surface	2003-03-18	4654	-0.5	0.02	0.4	0.224	15.2	12.1	30.0	4.6

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000069	Stream Water	0.05	Surface	2003-03-30	4715	0.0017		0.0037		0.614	0.0102	0.0012	0.0052	0.0318	4.69
PFM000069	Stream Water	0.05	Surface	2003-04-23	4749	0.0056		0.0093		0.612	0.0069	0.0007	0.0029	0.0188	4.10
PFM000069	Stream Water	0.05	Surface	2003-05-05	4781	0.0038	0.0006	0.0709		0.707	0.0093	0.0007	0.0046	0.0233	
PFM000069	Stream Water	0.05	Surface	2003-05-20	4795	0.0011		0.0008		0.743	0.0093	-0.0005	0.0028	0.0182	4.44
PFM000069	Stream Water	0.05	Surface	2003-06-03	4819	0.0045		0.0033		0.799	0.0107	0.0011	0.0035	0.0270	5.21
PFM000069	Stream Water	0.05	Surface	2003-07-08	4828	0.0038	0.0007	0.0043	0.0043	0.915	0.0117	0.0020	0.0033	0.0279	4.17
PFM000069	Stream Water	0.05	Surface	2003-06-17	4848	0.0032		0.0009		0.830	0.0103	0.0012	0.0029	0.0187	5.09
PFM000069	Stream Water	0.05	Surface	2003-09-02	4970	0.0155		0.0267		1.04	0.0211	0.0028	0.0059	0.0442	3.39
PFM000069	Stream Water	0.05	Surface	2003-09-15	4995	0.0033		0.0005		0.949	0.0118	0.0008	0.0023	0.0202	4.83
PFM000069	Stream Water	0.05	Surface	2003-09-29	8003	-0.0005		0.0026		0.973	0.0169	-0.0005	0.0056	0.0375	3.87
PFM000069	Stream Water	0.05	Surface	2003-10-28	8034	-0.0005		0.0005		0.952	0.0211	-0.0005	0.0105	0.0497	5.60
PFM000069	Stream Water	0.05	Surface	2003-11-13	8123	-0.0005		0.0050		0.859	0.0103	-0.0005	0.0033	0.0202	5.00
PFM000069	Stream Water	0.05	Surface	2003-11-26	8138	0.0028		0.0156		0.882	0.0105	-0.0005	0.0040	0.0190	5.35
PFM000069	Stream Water	0.05	Surface	2003-12-16	8200	0.0012		0.0022		0.908	0.0094	-0.0005	0.0064	0.0423	5.89
PFM000069	Stream Water	0.05	Surface	2004-01-13	8207	0.0017	0.0006	0.0035		0.924	0.0117	0.0005	0.0049	0.0279	6.64
PFM000069	Stream Water	0.05	Surface	2004-02-09	8301	0.0024		0.0047		0.961	0.0192	0.0009	0.0095	0.0669	7.07
PFM000069	Stream Water	0.05	Surface	2004-03-17	8366	0.0116		0.0023		0.985	0.0150	0.0017	0.0066	0.0413	8.00
PFM000070	Stream Water	0.1	Surface	2002-03-18	4012	0.171		0.0310		1.09	0.0100	0.0030			4.12
PFM000070	Stream Water	0.1	Surface	2002-04-02	4030	0.0200		0.0100		0.744	0.0070	-0.0010	0.0030	0.0210	2.63
PFM000070	Stream Water	0.1	Surface	2002-04-16	4051	0.137		0.0104		1.07	0.0094	0.0024	0.0042	0.0267	3.58
PFM000070	Stream Water	0.1	Surface	2002-05-06	4078	0.0551		0.0272		0.980	0.0116	0.0021	0.0076	0.0724	2.09
PFM000070	Stream Water	0.05	Surface	2002-05-13	4100	0.0415		0.0094		1.12	0.0181	0.0030	0.0113	0.0837	1.61
PFM000070	Stream Water	0.02	Surface	2002-06-25	4193	0.0287		0.0036		1.07	0.0135	0.0011	0.0063	0.0692	2.09
PFM000070	Stream Water	0.2	Surface	2002-07-16	4210	0.0254		0.0027		1.10	0.0100	0.0018	0.0045	0.0520	2.34
PFM000070	Stream Water	0.05	Surface	2002-08-13	4240	0.0828		0.0042		1.08	0.0102	0.0024	0.0056	0.0493	3.46
PFM000070	Stream Water	0.1	Surface	2002-11-26	4375	0.178	0.0013	0.0861		1.36	0.0092	0.0028	0.0038	0.0431	2.67
PFM000070	Stream Water	0.1	Surface	2002-12-18	4423	0.163	0.0015	0.0311		1.76	0.0064	0.0023	0.0024	0.0357	3.28
PFM000070	Stream Water	0.1	Surface	2003-01-16	4456	0.511	0.0021	0.0592		1.94	0.0137	0.0020	0.0029	0.0423	3.63
PFM000070	Stream Water	0.1	Surface	2003-02-18	4508	0.670		0.0163		1.99	0.0121	0.0015	0.0048	0.0496	3.94
PFM000070	Stream Water	0.1	Surface	2003-03-18	4653	0.246		0.0813		1.08	0.0099	0.0012	0.0041	0.0252	3.04

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O ₂ (mg/l)
PFM000069	Stream Water	0.05	Surface	2003-03-30	4715	-0.5	-0.5	-0.5	0.176	14.4	14.3	30.1	10.0
PFM000069	Stream Water	0.05	Surface	2003-04-23	4749	-0.5	-0.5	0.5	0.107	13.4	13.4	29.3	5.6
PFM000069	Stream Water	0.05	Surface	2003-05-05	4781				0.155	14.6	14.6	25.5	5.2
PFM000069	Stream Water	0.05	Surface	2003-05-20	4795				0.114	17.7	17.7	27.4	
PFM000069	Stream Water	0.05	Surface	2003-06-03	4819				0.173	18.5	18.2	27.8	
PFM000069	Stream Water	0.05	Surface	2003-07-08	4828				0.199	19.2	19.1	25.2	
PFM000069	Stream Water	0.05	Surface	2003-06-17	4848				0.156	19.4	19.3	30.4	
PFM000069	Stream Water	0.05	Surface	2003-09-02	4970				0.328	21.1	21.0	16.9	
PFM000069	Stream Water	0.05	Surface	2003-09-15	4995				0.150	20.4	20.4	27.5	
PFM000069	Stream Water	0.05	Surface	2003-09-29	8003				0.294	20.7	20.4	19.3	
PFM000069	Stream Water	0.05	Surface	2003-10-28	8034				0.321	16.2	16.1	23.2	
PFM000069	Stream Water	0.05	Surface	2003-11-13	8123				0.058	17.1	11.6	22.3	
PFM000069	Stream Water	0.05	Surface	2003-11-26	8138				0.133	21.0	22.7	28.4	
PFM000069	Stream Water	0.05	Surface	2003-12-16	8200				0.269	23.4	23.4	27.1	5.0
PFM000069	Stream Water	0.05	Surface	2004-01-13	8207				0.162	22.2	22.4	36.7	0.7
PFM000069	Stream Water	0.05	Surface	2004-02-09	8301				0.410	23.9	23.0	41.9	0.4
PFM000069	Stream Water	0.05	Surface	2004-03-17	8366				0.272	27.3	28.1	47.6	1.6
PFM000070	Stream Water	0.1	Surface	2002-03-18	4012					22.0	22.0	18.0	
PFM000070	Stream Water	0.1	Surface	2002-04-02	4030				0.116	13.9	14.2	14.0	6.1
PFM000070	Stream Water	0.1	Surface	2002-04-16	4051				0.213	17.5	17.4	21.5	10.7
PFM000070	Stream Water	0.1	Surface	2002-05-06	4078	1.9	-0.5	0.6	0.496	15.9	16.8	18.5	
PFM000070	Stream Water	0.05	Surface	2002-05-13	4100	4.0	-0.5	0.7	0.612	18.2	14.4	1.0	6.9
PFM000070	Stream Water	0.02	Surface	2002-06-25	4193	1.3	-0.5	-0.5	0.399	19.3	19.0	17.6	6.5
PFM000070	Stream Water	0.2	Surface	2002-07-16	4210				0.470	17.5	17.6	17.5	4.4
PFM000070	Stream Water	0.05	Surface	2002-08-13	4240				0.453	18.4	16.4	23.3	3.9
PFM000070	Stream Water	0.1	Surface	2002-11-26	4375	3.3	0.514	-0.5	0.364	18.2	18.4	20.6	11.8
PFM000070	Stream Water	0.1	Surface	2002-12-18	4423	1.0	-0.5	-0.5	0.276	21.5	20.6	21.7	10.0
PFM000070	Stream Water	0.1	Surface	2003-01-16	4456	0.8	-0.5	0.6	0.440	21.6	20.5	23.5	9.2
PFM000070	Stream Water	0.1	Surface	2003-02-18	4508	-0.5	-0.5	-0.5	0.353	23.1	22.4	32.2	3.0
PFM000070	Stream Water	0.1	Surface	2003-03-18	4653	-0.5	0.06	0.3	0.169	12.0	14.4	16.6	6.7

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000070	Stream Water	0.1	Surface	2003-03-31	4718	0.254		0.0216		1.26	0.0103	0.0012	0.0061	0.0413	2.99
PFM000070	Stream Water	0.1	Surface	2003-04-22	4753	0.0423		0.0145		1.07	0.0101	0.0007	0.0052	0.0509	2.11
PFM000070	Stream Water	0.1	Surface	2003-05-06	4776	0.0116	0.0005	0.0056		0.942	0.0108	0.0008	0.0044	0.0573	1.19
PFM000070	Stream Water	0.1	Surface	2003-05-20	4788	0.0274		0.0055		0.976	0.0103	0.0011	0.0059	0.0734	0.554
PFM000070	Stream Water	0.1	Surface	2003-06-03	4817	0.0009		0.0148		0.877	0.0073	0.0005	0.0031	0.0240	0.350
PFM000070	Stream Water	0.1	Surface	2003-06-17	4829	0.0636		0.0049		0.845	0.0074	0.0009	0.0024	0.0179	1.28
PFM000070	Stream Water	0.1	Surface	2003-07-08	4871	0.204	0.0006	0.0051	0.0051	1.26	0.0192	0.0020	0.0149	0.150	4.73
PFM000070	Stream Water	0.1	Surface	2003-09-02	4947	0.0242		0.0565		1.05	0.0204	0.0012	0.0133	0.0725	1.65
PFM000070	Stream Water	0.1	Surface	2003-09-30	8026	-0.0005		0.0050		0.921	0.0133	0.0001	0.0074	0.0482	2.34
PFM000070	Stream Water	0.1	Surface	2003-10-28	8059	0.0434	0.0025	0.220		1.05	0.0081	-0.0005	0.0046	0.0290	3.43
PFM000070	Stream Water	0.1	Surface	2003-11-13	8120	0.188		0.0453		1.38	0.0080	-0.0005	0.0030	0.0224	1.74
PFM000070	Stream Water	0.1	Surface	2003-11-26	8139	0.248		0.0458		1.45	0.0088	-0.0005	0.0042	0.0354	1.79
PFM000070	Stream Water	0.1	Surface	2003-12-16	8198	0.318		0.0507		1.51	0.0083	-0.0005	0.0034	0.0443	2.37
PFM000070	Stream Water	0.1	Surface	2004-01-14	8221	0.298	0.0013	0.0353		1.43	0.0071	0.0007	0.0030	0.0346	2.99
PFM000070	Stream Water	0.1	Surface	2004-02-09	8308	0.297		0.0729		1.44	0.0076	-0.0005	0.0026	0.0233	3.35
PFM000070	Stream Water	0.1	Surface	2004-03-16	8346	0.218		0.282		0.821	0.0043	0.0006	0.0023	0.0209	0.600
PFM000071	Stream Water	0.1	Surface	2002-03-18	4013	0.0250		0.274		0.797	0.0210	0.0120			4.42
PFM000071	Stream Water	0.2	Surface	2002-04-01	4022	0.0150		0.259		0.796	0.0220	0.0080	0.0050	0.0170	3.81
PFM000071	Stream Water	0.1	Surface	2002-04-16	4050	0.0257		0.0883		0.656	0.0245	0.0125	0.0058	0.0215	3.39
PFM000071	Stream Water	0.1	Surface	2002-05-05	4077	0.0321		0.0095		0.658	0.0372	0.0142	0.0107	0.0349	3.41
PFM000071	Stream Water	0.15	Surface	2002-05-13	4101	0.0657		0.0261		0.672	0.0843	0.0435	0.0283	0.0626	1.55
PFM000071	Stream Water	0.05	Surface	2002-06-25	4192	0.0148		0.1654		0.855	0.0307	0.0145	0.0050	0.0290	4.65
PFM000071	Stream Water	0.1	Surface	2002-07-16	4209	0.0419		0.0121		0.759	0.0355	0.0126	0.0070	0.0302	4.31
PFM000071	Stream Water	0.05	Surface	2002-08-13	4239	0.139		0.0132		0.924	0.1230	0.0616	0.0620	0.0678	6.00
PFM000071	Stream Water	0.5	Surface	2002-11-26	4374	0.0023	0.0011	0.527		1.14	0.0246	0.0104	0.0060	0.0226	3.75
PFM000071	Stream Water	0.1	Surface	2002-12-18	4422	0.0065	0.0010	0.205		0.695	0.0115	0.0063	0.0029	0.0161	3.92
PFM000071	Stream Water	0.1	Surface	2003-01-15	4460	0.0104	0.0008	0.0956		0.755	0.0117	0.0058	0.0033	0.0168	4.48
PFM000071	Stream Water	0.1	Surface	2003-02-18	4506	0.0080		0.237		0.879	0.0171	0.0094	0.0015	0.0087	4.26
PFM000071	Stream Water	0.5	Surface	2003-03-18	4651	0.0514		0.140		0.669	0.0220	0.0110	0.0167	0.0727	3.58
PFM000071	Stream Water	0.1	Surface	2003-03-30	4713	0.0649		0.0146		0.577	0.0205	0.0035	0.0084	0.0418	2.97

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000070	Stream Water	0.1	Surface	2003-03-31	4718	1.9	-0.5	-0.5	0.298	17.4	17.4	25.2	9.6
PFM000070	Stream Water	0.1	Surface	2003-04-22	4753	2.1	-0.5	0.5	0.340	17.2	17.0	24.1	9.9
PFM000070	Stream Water	0.1	Surface	2003-05-06	4776				0.416	16.3	15.9	19.9	10.0
PFM000070	Stream Water	0.1	Surface	2003-05-20	4788				0.515	17.2	16.7	22.5	
PFM000070	Stream Water	0.1	Surface	2003-06-03	4817				0.173	5.9	7.1	16.6	
PFM000070	Stream Water	0.1	Surface	2003-06-17	4829				0.143	16.7	16.3	26.6	
PFM000070	Stream Water	0.1	Surface	2003-07-08	4871				1.14	22.0	21.9	31.8	
PFM000070	Stream Water	0.1	Surface	2003-09-02	4947				0.446	20.6	20.7	13.1	
PFM000070	Stream Water	0.1	Surface	2003-09-30	8026				0.315	20.9	21.2	8.8	
PFM000070	Stream Water	0.1	Surface	2003-10-28	8059				0.201	18.0	17.0	19.1	
PFM000070	Stream Water	0.1	Surface	2003-11-13	8120				0.218	13.6	9.0	9.5	
PFM000070	Stream Water	0.1	Surface	2003-11-26	8139				0.289	18.0	13.7	14.3	
PFM000070	Stream Water	0.1	Surface	2003-12-16	8198				0.374	19.2	18.9	20.4	
PFM000070	Stream Water	0.1	Surface	2004-01-14	8221				0.320	22.1	22.5	23.3	
PFM000070	Stream Water	0.1	Surface	2004-02-09	8308				0.190	24.6	24.3	26.3	-0.2
PFM000070	Stream Water	0.1	Surface	2004-03-16	8346				0.209	5.6	5.4	6.2	
PFM000071	Stream Water	0.1	Surface	2002-03-18	4013					11.0	13.0	36.0	
PFM000071	Stream Water	0.2	Surface	2002-04-01	4022				0.080	12.7	12.9	30.2	9.8
PFM000071	Stream Water	0.1	Surface	2002-04-16	4050				0.223	9.8	10.0	30.0	11.4
PFM000071	Stream Water	0.1	Surface	2002-05-05	4077	-0.5	-0.5	-0.5	0.317	11.5	11.7	29.5	10.3
PFM000071	Stream Water	0.15	Surface	2002-05-13	4101	1.0	-0.5	1.7	0.467	13.0	12.3	4.0	6.6
PFM000071	Stream Water	0.05	Surface	2002-06-25	4192	-0.5	-0.5	-0.5	0.171	15.5	15.8	27.2	8.2
PFM000071	Stream Water	0.1	Surface	2002-07-16	4209				0.216	15.9	16.1	26.0	5.5
PFM000071	Stream Water	0.05	Surface	2002-08-13	4239				0.777	17.8	15.6	36.7	2.1
PFM000071	Stream Water	0.5	Surface	2002-11-26	4374	-0.5	-0.5	-0.5	0.253	12.7	8.0	5.1	8.3
PFM000071	Stream Water	0.1	Surface	2002-12-18	4422	-0.5	-0.5	-0.5	0.128	11.8	11.4	33.2	4.1
PFM000071	Stream Water	0.1	Surface	2003-01-15	4460	-0.5	-0.5	-0.5	0.108	9.8	8.7	37.2	3.9
PFM000071	Stream Water	0.1	Surface	2003-02-18	4506	-0.5	-0.5	-0.5	0.064	10.0	9.0	41.9	9.4
PFM000071	Stream Water	0.5	Surface	2003-03-18	4651	-0.5	0.1	0.3	0.462	10.4	11.0	27.2	7.0
PFM000071	Stream Water	0.1	Surface	2003-03-30	4713	1.1	-0.5	1.9	0.284	11.0	10.4	31.5	8.5

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000071	Stream Water	0.5	Surface	2003-04-22	4747	0.0145		0.0104		0.566	0.0122	0.0014	0.0031	0.0255	1.42
PFM000071	Stream Water	0.5	Surface	2003-05-06	4780	0.0093	0.0007	0.0724		0.652	0.0133	0.0015	0.0046	0.0183	2.95
PFM000071	Stream Water	0.5	Surface	2003-05-20	4794	0.0130		0.0018		0.557	0.0208	0.0068	0.0039	0.0217	1.91
PFM000071	Stream Water	0.5	Surface	2003-06-03	4826	0.0434		0.0059		0.730	0.0523	0.0160	0.0233	0.0650	3.10
PFM000071	Stream Water	0.5	Surface	2003-06-17	4845	0.0189		0.0029		0.575	0.0612	0.0174	0.0219	0.0291	4.40
PFM000071	Stream Water	0.5	Surface	2003-09-30	4997	0.0048		0.333		1.22	0.0449	0.0174	0.0272	0.117	6.79
PFM000071	Stream Water	0.5	Surface	2003-10-27	8030	-0.0005		0.0200		0.475	0.0081	-0.0005	0.0047	0.0258	5.14
PFM000071	Stream Water	0.5	Surface	2003-11-13	8108	0.0033		0.0715		0.624	0.0103	0.0035	0.0031	0.0147	4.70
PFM000071	Stream Water	0.5	Surface	2003-11-24	8132	-0.0005		0.0158		0.696	0.0153	0.0052	0.0043	0.0236	4.68
PFM000071	Stream Water	0.5	Surface	2003-12-16	8190	0.0085		0.0629		0.616	0.0161	0.0076	0.0021	0.0153	4.55
PFM000071	Stream Water	0.5	Surface	2004-01-14	8209	0.0266	0.0010	0.0625		0.599	0.0203	0.0111	0.0028	0.0214	4.65
PFM000071	Stream Water	0.5	Surface	2004-02-11	8312	0.0103		0.0910		0.568	0.0156	0.0082	0.0019	0.0138	4.44
PFM000071	Stream Water	0.5	Surface	2004-03-16	8341	0.0536		0.0564		0.772	0.0428	0.0170	0.0175	0.130	4.00
PFM000072	Stream Water	0.5	Surface	2002-03-18	4010	0.0100		0.0030		0.947	0.0240	-0.0010			4.06
PFM000072	Stream Water	0.2	Surface	2002-04-01	4031	0.0040		0.0040		0.776	0.0150	0.0020	0.0090	0.0410	2.01
PFM000072	Stream Water	0.5	Surface	2002-04-15	4042	0.0039		0.0011		0.718	0.0143	0.0024	0.0048	0.0217	1.56
PFM000072	Stream Water	0.2	Surface	2002-05-06	4071	0.0088	-0.001	0.0078	-0.01	0.896	0.0214	0.0048	0.0082	0.0494	0.776
PFM000072	Stream Water	0.5	Surface	2002-05-13	4094	0.0115		0.0583		1.07	0.0343	0.0068	0.0102	0.0625	2.80
PFM000072	Stream Water	0.2	Surface	2002-05-27	4134	0.0799	0.004	0.0194	0.04	1.51	0.0718	0.0249	0.0212	0.116	1.77
PFM000072	Stream Water	0.5	Surface	2002-06-10	4161	1.08		0.1520		2.66	0.2478	0.152		0.164	1.69
PFM000072	Stream Water	0.5	Surface	2002-06-23	4175	0.0089		0.0039		0.974	0.0381	0.0047	0.0109	0.0725	0.659
PFM000072	Stream Water	0.2	Surface	2002-07-15	4214	0.0101		0.0010		1.25	0.0333	0.0052	0.0118	0.102	1.01
PFM000072	Stream Water	0.5	Surface	2002-08-12	4243	0.0450		0.0532		1.36	0.0355	0.0114	0.0129	0.0853	0.95
PFM000072	Stream Water	0.1	Surface	2002-11-12	4345	0.0476	0.0012	0.0065		1.12	0.0703	0.0081	0.0738	0.2772	2.02
PFM000072	Stream Water	0.1	Surface	2002-11-26	4392	0.0042	0.0011	0.128		1.74	0.0238	0.0027	0.0130	0.0687	1.41
PFM000072	Stream Water	0.1	Surface	2002-12-18	4428	0.0282	0.0010	0.0056		1.64	0.0206	0.0037	0.0080	0.0542	1.93
PFM000072	Stream Water	0.1	Surface	2003-01-16	4458	0.169	0.0025	0.0268		1.40	0.0729	0.0518	0.0160	0.112	3.26
PFM000072	Stream Water	0.1	Surface	2003-02-19	4504	0.245		0.0086		1.55	0.0781	0.0463	0.0103	0.0776	4.29
PFM000072	Stream Water	0.1	Surface	2003-03-18	4646	0.0803		0.0535		1.24	0.0454	0.0026	0.0347	0.239	4.11
PFM000072	Stream Water	0.1	Surface	2003-03-31	4711	0.0082		0.0137		0.919	0.0326	0.0027	0.0174	0.131	1.45

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O ₂ (mg/l)
PFM000071	Stream Water	0.5	Surface	2003-04-22	4747	0.6	-0.5	0.7	0.152	10.7	10.7	29.8	10.7
PFM000071	Stream Water	0.5	Surface	2003-05-06	4780				0.124	12.8	12.8	29.8	9.7
PFM000071	Stream Water	0.5	Surface	2003-05-20	4794				0.165	12.1	11.3	37.7	
PFM000071	Stream Water	0.5	Surface	2003-06-03	4826				0.513	11.7	11.7	33.0	
PFM000071	Stream Water	0.5	Surface	2003-06-17	4845				0.373	11.3	11.2	47.9	
PFM000071	Stream Water	0.5	Surface	2003-09-30	4997				0.694	17.0	18.0	16.0	
PFM000071	Stream Water	0.5	Surface	2003-10-27	8030				0.188	9.6	10.2	38.7	
PFM000071	Stream Water	0.5	Surface	2003-11-13	8108				0.109	8.6	6.8	26.5	
PFM000071	Stream Water	0.5	Surface	2003-11-24	8132	-0.5	-0.5	-0.5	0.199	14.3	11.8	37.0	
PFM000071	Stream Water	0.5	Surface	2003-12-16	8190				0.093	13.9	13.3	30.8	
PFM000071	Stream Water	0.5	Surface	2004-01-14	8209				0.191	12.5	12.4	36.9	
PFM000071	Stream Water	0.5	Surface	2004-02-11	8312				0.101	12.4	12.0	33.7	
PFM000071	Stream Water	0.5	Surface	2004-03-16	8341				1.48	12.0	10.5	32.2	
PFM000072	Stream Water	0.5	Surface	2002-03-18	4010					16.0	19.0	27.0	
PFM000072	Stream Water	0.2	Surface	2002-04-01	4031				0.221	10.0	14.6	14.8	6.8
PFM000072	Stream Water	0.5	Surface	2002-04-15	4042				0.181				5.3
PFM000072	Stream Water	0.2	Surface	2002-05-06	4071	1.3	-0.5	-0.5	0.253	13.6	8.5	2.6	5.3
PFM000072	Stream Water	0.5	Surface	2002-05-13	4094	2.1	-0.5	-0.5	0.361	16.0	13.7	2.0	4.3
PFM000072	Stream Water	0.2	Surface	2002-05-27	4134	0.7	-0.5	0.8	0.396	21.6	22.6	1.8	3.1
PFM000072	Stream Water	0.5	Surface	2002-06-10	4161	6.3	0.501	1.1	0.985	19.2	10.9	19.7	1.0
PFM000072	Stream Water	0.5	Surface	2002-06-23	4175	0.8	-0.5	0.6	0.412	16.8	17.6	9.4	4.5
PFM000072	Stream Water	0.2	Surface	2002-07-15	4214				1.01	19.7	18.5	22.7	3.7
PFM000072	Stream Water	0.5	Surface	2002-08-12	4243				0.789	20.4	11.1	8.4	2.2
PFM000072	Stream Water	0.1	Surface	2002-11-12	4345	-0.5	-0.5	-0.5	1.41	16.6	16.7	15.2	0.4
PFM000072	Stream Water	0.1	Surface	2002-11-26	4392	0.6	-0.5	-0.5	0.471	13.9	4.1	14.6	9.5
PFM000072	Stream Water	0.1	Surface	2002-12-18	4428	-0.5	-0.5	0.6	0.460	21.6	15.5	21.2	1.6
PFM000072	Stream Water	0.1	Surface	2003-01-16	4458	1.1	-0.5	1.2	0.743	22.2	22.3	36.3	1.0
PFM000072	Stream Water	0.1	Surface	2003-02-19	4504	-0.5	-0.5	-0.5	0.444	13.4	22.2	43.6	-0.2
PFM000072	Stream Water	0.1	Surface	2003-03-18	4646	-0.5	0.06	0.3	1.56	16.6	18.3	12.4	7.7
PFM000072	Stream Water	0.1	Surface	2003-03-31	4711	1.5	-0.5	1.3	0.794	11.7	11.4	17.4	7.1

Id code	Water type	Depth (m)	Info	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000072	Stream Water	0.1	Surface	2003-04-23	4751	0.0055		0.0050		1.05	0.0236	0.0022	0.0100	0.0635	1.87
PFM000072	Stream Water	0.1	Surface	2003-05-05	4769	0.0072	0.0008	0.0279		0.992	0.0161	0.0021	0.0073	0.0266	1.96
PFM000072	Stream Water	0.1	Surface	2003-05-20	4783	0.0076		0.0020		1.03	0.0196	0.0026	0.0055	0.0325	1.58
PFM000072	Stream Water	0.35	Surface	2003-06-03	4815	0.0104		0.0003		1.11	0.0218	0.0046	0.0073	0.0460	1.30
PFM000072	Stream Water	0.1	Surface	2003-06-17	4846	0.0162		0.0020		1.08	0.0205	0.0051	0.0028	0.0150	0.758
PFM000072	Stream Water	0.1	Surface	2003-07-08	4874	0.195	0.0044	0.0474	0.0474	1.52	0.0574	0.0281	0.0128	0.0653	0.890
PFM000072	Stream Water	0.33	Surface	2003-07-08	4939	1.29		0.0491		2.53	0.156	0.0977	0.0372	0.112	2.10
PFM000072	Stream Water	0.1	Surface	2003-09-02	4968	0.199		0.124		1.56	0.0693	0.0257	0.0199	0.0975	1.16
PFM000072	Stream Water	0.1	Surface	2003-09-16	4994	0.0475		0.0066		1.54	0.122	0.0432	0.0521	0.278	1.09
PFM000072	Stream Water	0.1	Surface	2003-09-30	8035	0.0635		0.0757		1.41	0.0717	0.0247	0.0270	0.117	1.38
PFM000072	Stream Water	0.1	Surface	2003-10-29	8049	0.0298	0.0074	0.0527		1.35	0.0674	0.0219	0.0315	0.150	2.45
PFM000072	Stream Water	0.1	Surface	2003-11-12	8109	0.0011		0.0007		1.16	0.0173	0.0005	0.0039	0.0146	1.97
PFM000072	Stream Water	0.1	Surface	2003-11-25	8143	0.0017		0.0041		1.21	0.0188	-0.0005	0.0071	0.0505	1.98
PFM000072	Stream Water	0.1	Surface	2003-12-16	8203	-0.0005		1.89		1.19	0.0139	-0.0005	0.0050	0.0419	1.74
PFM000072	Stream Water	0.1	Surface	2004-01-14	8226	0.0779	0.0001	0.0013		1.36	0.0212	0.0008	0.0106	0.0620	2.29
PFM000072	Stream Water	0.1	Surface	2004-02-10	8310	0.251		0.0018		1.60	0.0330	0.0011	0.0199	0.107	3.78
PFM000072	Stream Water	0.1	Surface	2004-03-17	8365	0.0443		0.0056		1.23	0.0334	0.0027	0.0286	0.138	2.68
PFM000073	Stream Water	0.1	Surface	2002-03-18	4011	0.0730		2.169		3.49	0.210	0.0820			3.49
PFM000073	Stream Water	0.05	Surface	2002-04-02	4034	0.0100		2.085		2.89	0.0360	0.0090	0.0080	0.0240	1.44
PFM000073	Stream Water	0.1	Surface	2002-04-15	4043	0.0341		1.359		2.55	0.0419	0.0082	0.0102	0.0363	0.455
PFM000073	Stream Water	0.1	Surface	2002-05-06	4074	0.0021		0.0090		0.747	0.108	0.0314	0.0333	0.0612	1.39
PFM000073	Stream Water	0.03	Surface	2002-05-13	4095	0.0292		0.0217		1.19	0.227	0.0532	0.1404	0.273	0.913
PFM000073	Stream Water	0.05	Surface	2002-11-26	4385	0.0021	0.0109	5.14		7.98	0.0761	0.0319	0.0120	0.0554	3.18
PFM000073	Stream Water	0.1	Surface	2002-12-18	4429	0.0036	0.0018	0.838		1.37	0.0443	0.0111	0.0077	0.0406	5.21
PFM000073	Stream Water	0.05	Surface	2003-03-18	4657	0.0328		1.56		2.15	0.0808	0.0329	0.0181	0.0519	7.45
PFM000073	Stream Water	0.05	Surface	2003-03-31	4714	0.0126		2.03		2.51	0.0398	0.0058	0.0079	0.0239	4.2
PFM000073	Stream Water	0.05	Surface	2003-04-23	4754	0.0041		0.0058		0.586	0.0219	0.0013	0.0052	0.0318	0.631
PFM000073	Stream Water	0.05	Surface	2003-05-05	4767	0.0053	0.0240	4.30		4.80	0.0269	0.0034	0.0074	0.0258	3.52
PFM000073	Stream Water	0.05	Surface	2003-05-20	4787	0.0196		0.0255		0.806	0.0588	0.0180	0.0121	0.0469	0.388
PFM000073	Stream Water	0.05	Surface	2003-11-12	8114	0.0038		2.64		3.31	0.0440	0.0257	0.0042	0.0245	6.31

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000072	Stream Water	0.1	Surface	2003-04-23	4751	3.3	0.5	0.8	0.113	15.3	15.5	24.3	5.5
PFM000072	Stream Water	0.1	Surface	2003-05-05	4769				0.218	15.4	15.3	19.9	5.5
PFM000072	Stream Water	0.1	Surface	2003-05-20	4783				0.219	16.7	15.5	26.8	
PFM000072	Stream Water	0.35	Surface	2003-06-03	4815				0.305	17.4	17.0	26.9	4.0
PFM000072	Stream Water	0.1	Surface	2003-06-17	4846				0.149	16.2	17.3	26.1	
PFM000072	Stream Water	0.1	Surface	2003-07-08	4874				0.447	17.4	20.8	24.7	1.1
PFM000072	Stream Water	0.33	Surface	2003-07-08	4939				0.714	17.9	18.0	23.6	1.8
PFM000072	Stream Water	0.1	Surface	2003-09-02	4968				0.567	19.7	19.5	17.7	
PFM000072	Stream Water	0.1	Surface	2003-09-16	4994				2.20	20.6	20.6	18.1	0.7
PFM000072	Stream Water	0.1	Surface	2003-09-30	8035				0.886	20.1	19.3	18.2	
PFM000072	Stream Water	0.1	Surface	2003-10-29	8049				1.21	18.2	22.0	21.0	0.9
PFM000072	Stream Water	0.1	Surface	2003-11-12	8109				0.135	15.8	12.6	11.3	
PFM000072	Stream Water	0.1	Surface	2003-11-25	8143				0.418	17.9	15.9	15.0	
PFM000072	Stream Water	0.1	Surface	2003-12-16	8203				0.303	17.2	16.7	23.1	4.6
PFM000072	Stream Water	0.1	Surface	2004-01-14	8226				0.450	19.7	20.1	31.3	-0.2
PFM000072	Stream Water	0.1	Surface	2004-02-10	8310				0.648	22.0	22.2	38.3	-0.2
PFM000072	Stream Water	0.1	Surface	2004-03-17	8365				0.769	20.0	19.7	34.3	-0.2
PFM000073	Stream Water	0.1	Surface	2002-03-18	4011					6.0	7.4	59.0	
PFM000073	Stream Water	0.05	Surface	2002-04-02	4034				0.113	6.9	6.8	53.9	11.3
PFM000073	Stream Water	0.1	Surface	2002-04-15	4043				0.295	5.3	5.1	43.0	12.5
PFM000073	Stream Water	0.1	Surface	2002-05-06	4074	1.8	-0.5	1.9	0.449	9.1	8.3	47.2	9.9
PFM000073	Stream Water	0.03	Surface	2002-05-13	4095	19.3	-0.5	9.1	1.88	11.8	14.0	2.7	8.0
PFM000073	Stream Water	0.05	Surface	2002-11-26	4385	0.8	-0.5	0.7	0.354	8.9	3.0	9.5	9.5
PFM000073	Stream Water	0.1	Surface	2002-12-18	4429	0.5	-0.5	0.6	0.316	6.4	6.9	42.5	8.0
PFM000073	Stream Water	0.05	Surface	2003-03-18	4657	-0.5	0.07	0.4	0.297	5.0	5.4	31.8	7.1
PFM000073	Stream Water	0.05	Surface	2003-03-31	4714	1.0	-0.5	0.7	0.168	6.3	5.5	29.1	11.0
PFM000073	Stream Water	0.05	Surface	2003-04-23	4754	3.6	0.5	1.7	0.204	6.6	6.7	46.5	13.1
PFM000073	Stream Water	0.05	Surface	2003-05-05	4767				0.165	8.3	8.5	39.2	10.5
PFM000073	Stream Water	0.05	Surface	2003-05-20	4787				0.330	8.9	9.4	48.9	
PFM000073	Stream Water	0.05	Surface	2003-11-12	8114				0.171	6.1	7.1	44.0	

Id code	Water type	Depth Info (m)	Date	Sample no	NH₄-N (mg/l)	NO₂-N (mg/l)	NO₃-N+ NO₂-N (mg/l)	NO₃-N (mg/l)	N-tot (mg/l)	P-tot (mg/l)	PO₄-P (mg/l)	POP (mg/l)	PON (mg/l)	SiO₄-Si (mg/l)
PFM000073	Stream Water	0.05	2003-11-25	8145	-0.0005		5.53		6.14	0.0497	0.0183	0.0152	0.0633	4.68
PFM000073	Stream Water	0.05	2003-12-16	8202	0.0251		1.89		2.35	0.0325	0.0220	0.0043	0.0168	4.52
PFM000073	Stream Water	0.05	2004-01-14	8229	0.0391	0.0061	0.906		1.42	0.0313	0.0247	0.0069	0.0209	4.64
PFM000073	Stream Water	0.05	2004-02-10	8319	0.0281		2.24		2.78	0.0346	0.0233	0.0055	0.0210	4.27
PFM000073	Stream Water	0.05	2004-03-17	8364	0.467		0.697		1.94	0.211	0.148	0.0471	0.200	3.77

Id code	Water type	Depth (m)	Info	Date	Sample no	Chlorophyll a (ug/l)	Chlorophyll c (ug/l)	Pheopigment (ug/l)	POC (mg/l)	TOC (mg/l)	DOC (mg/l)	DIC (mg/l)	O₂ (mg/l)
PFM000073	Stream Water	0.05	Surface	2003-11-25	8145				0.415	7.5	7.9	34.7	
PFM000073	Stream Water	0.05	Surface	2003-12-16	8202				0.088	6.1	6.4	40.6	
PFM000073	Stream Water	0.05	Surface	2004-01-14	8229	0.3	-0.2	0.4	0.154	6.4	6.6	44.8	
PFM000073	Stream Water	0.05	Surface	2004-02-10	8319				0.133	6.2	6.5	51.6	
PFM000073	Stream Water	0.05	Surface	2004-03-17	8364				1.03	8.6	8.6	38.6	

- "value" = below reporting limit

SICADA: biochemistry_supplements, 020201-040401

Compilation of H-, O-, B-, S-, Cl-, Sr- and C-isotope data

Id code	Water type	Depth (m)	Info	Date	Sample no	pmC	$\delta^{13}\text{C}$ (‰ PDB)	$\delta^{34}\text{S}$ (‰ CDT)	$^{10}\text{B}/^{11}\text{B}$	$\delta^{37}\text{Cl}$ (‰ SMOC)	$^{87}\text{Sr}/^{86}\text{Sr}$	δD (‰ SMOW)	Tritium (TU)	$\delta^{18}\text{O}$ (‰ SMOW)
PFM000074	Lake Water	0.5	Surface	2002-07-14	4202	116.1	-12.5			0.66		-77.8	12.5	-9.6
PFM000074	Lake Water	0.5	Surface	2002-08-11	4224	115.6	-11.6			0.35		-69.7	13.7	-9.8
PFM000074	Lake Water	0.5	Surface	2002-11-12	4337	118.4	-8.2	6.6		0.16	0.722686	-68.4	14.7	-9.2
PFM000074	Lake Water	0.5	Surface	2003-01-16	4453	113.8	-13.5	0.2	0.2391		0.719691	-83.1	11.7	-11.8
PFM000074	Lake Water	0.5	Surface	2003-05-06	4770			4.1	0.2426	-0.61		-85.6	13.0	-11.6
PFM000074	Lake Water	0.5	Surface	2003-06-02	4821							-78.2		-9.6
PFM000074	Lake Water	0.5	Surface	2003-07-07	4861				0.2390			-74.0	12.9	-9.2
PFM000074	Lake Water	0.5	Surface	2003-10-27	8045			19.9			0.722555	-70.5	12.8	-9.2
PFM000074	Lake Water	0.5	Surface	2004-01-14	8231							-90.1	12.5	-12.7
PFM000087	Lake Water	0.5	Surface	2002-04-17	4060	109.1	-12.0			0.11		-88.8	12.6	-11.7
PFM000087	Lake Water	1.8	Bottom	2002-04-17	4061	108.8	-12.0			0.22		-90.0	12.1	-12.0
PFM000087	Lake Water	0.5	Surface	2002-07-14	4200	114.2	-11.7			0.33		-77.0	13.6	-9.4
PFM000087	Lake Water	1.5	Bottom	2002-07-14	4201	113.5	-12.5			0.46		-78.2	16.0	-9.4
PFM000087	Lake Water	0.5	Surface	2002-08-11	4203	113.6	-11.0			0.38		-68.6	15.6	-9.7
PFM000087	Lake Water	1.5	Bottom	2002-08-11	4222	114.9	-11.4			0.24		-68.5	12.5	-9.8
PFM000087	Lake Water	0.5	Surface	2002-11-12	4327	113.6	-9.0	5.5		0.08	0.723402	-64.2	11.6	-8.3
PFM000087	Lake Water	1.5	Bottom	2002-11-12	4331	114.2	-8.1	6		0.14	0.723370	-63.5	10.4	-8.2
PFM000087	Lake Water	0.5	Surface	2003-01-15	4442	113.9	-11.2	-1	0.2358	0.08	0.723649	-77.4	12.2	-10.5
PFM000087	Lake Water	1.5	Bottom	2003-01-15	4449	113.1	-13.5	-0.5	0.2363		0.723063	-80.2	10.1	-11.0
PFM000087	Lake Water	0.5	Surface	2003-07-07	4860				0.2401			-73.8	14.6	-8.8
PFM000087	Lake Water	0.5	Surface	2003-10-27	8047			6.3			0.723239	-62.6	13.2	-7.5
PFM000087	Lake Water	1.5	Bottom	2003-10-27	8051			6.6			0.723194	-63.5	13.2	-7.5
PFM000087	Lake Water	0.5	Surface	2004-01-12	8215							-90.4	9.8	-12.7
PFM000087	Lake Water	1.5	Bottom	2004-01-12	8220							-82.9	13.6	-11.4
PFM000097	Lake Water	0.5	Surface	2002-04-17	4056	109.9	-10.0			0.15		-84.8	11.7	-10.7
PFM000097	Lake Water	0.5	Surface	2002-07-15	4205	112.1	-10.9			-0.33		-60.6	14.1	-6.0

Id code	Water type	Depth (m)	Info	Date	Sample no	pmC	$\delta^{13}\text{C}$ (‰ PDB)	$\delta^{34}\text{S}$ (‰ CDT)	$^{10}\text{B}/^{11}\text{B}$	$\delta^{37}\text{Cl}$ (‰ SMOC)	$^{87}\text{Sr}/^{86}\text{Sr}$	δD (‰ SMOW)	Tritium (TU)	$\delta^{18}\text{O}$ (‰ SMOW)
PFM000097	Lake Water	0.5	Surface	2002-08-12	4245	112.2	-9.7			-0.07		-53.4	8.2	-5.9
PFM000097	Lake Water	0.5	Surface	2003-01-15	4452	114.0	-9.4	7.9	0.2373	0.15	0.722959	-64.4	13.9	-7.9
PFM000097	Lake Water	0.5	Surface	2003-05-06	4777			6.1	0.2407			-75.1	12.7	-9.3
PFM000097	Lake Water	0.5	Surface	2003-06-03	4820							-72.9		-8.9
PFM000097	Lake Water	0.5	Surface	2003-07-08	4870				0.2345			-57.0	15.3	-5.1
PFM000097	Lake Water	0.5	Surface	2004-01-13	8217							-84.8	10.0	-11.7
PFM000107	Lake Water	0.5	Surface	2002-04-17	4058	110.7	-10.0			0.11		-82.8	12.6	-10.8
PFM000107	Lake Water	1.4	Bottom	2002-04-17	4059	111.1	-10.0			0.08		-82.8	13.0	-10.8
PFM000107	Lake Water	0.5	Surface	2002-07-15	4206	113.8	-9.9			-0.38		-63.5	13.2	-6.8
PFM000107	Lake Water	1	Bottom	2002-07-15	4207	113.4	-9.0			0.01		-64.3	15.6	-6.7
PFM000107	Lake Water	0.5	Surface	2002-08-12	4233	112.3	-9.8			0.06		-55.8	8.4	-6.3
PFM000107	Lake Water	1	Bottom	2002-08-12	4234	112.6	-8.1			0.01		-54.8	11.7	-6.4
PFM000107	Lake Water	0.5	Surface	2002-11-12	4328	109.1	-3.0	10.3		0.18	0.719146	-52.3	10.4	-6.0
PFM000107	Lake Water	0.5	Surface	2003-01-16	4444	111.3	-6.1	6.3	0.2391	0.13	0.719852	-77.4	11.5	-10.8
PFM000107	Lake Water	1	Bottom	2003-01-16	4447	112.8	-5.9	6.2	0.2800	0.16	0.719822	-66.9	9.8	-8.4
PFM000107	Lake Water	0.5	Surface	2003-05-04	4757			5.2	0.2376	-0.09		-71.1	13.5	-9.4
PFM000107	Lake Water	0.5	Surface	2003-07-07	4866				0.2370			-62.5	11.4	-6.3
PFM000107	Lake Water	0.5	Surface	2004-01-13	8213							-82.9	9.2	-11.3
PFM000107	Lake Water	1	Bottom	2004-01-13	8214							-76.7	13.0	-10.1
PFM000117	Lake Water	0.5	Surface	2002-04-16	4048	116.3	-7.0					-77.3	12.5	-9.8
PFM000117	Lake Water	1.5	Bottom	2002-04-16	4049	116.2	-8.0					-77.5	13.2	-9.8
PFM000117	Lake Water	0.5	Surface	2002-07-16	4217	113.5	-8.6					-72.3	15.5	-7.1
PFM000117	Lake Water	1.5	Bottom	2002-07-16	4218	116.2	-8.3			-0.01		-72.4	12.7	-7.0
PFM000117	Lake Water	0.5	Surface	2002-08-13	4235	112.9	-9.0			-0.15		-57.9	6.9	-6.7
PFM000117	Lake Water	1.5	Bottom	2002-08-13	4236	113.2	-8.8					-57.8	8.9	-6.8
PFM000117	Lake Water	0.5	Surface	2003-01-15	4440	113.6	-1.4	3.4	0.2403	0.17	0.724292	-61.5	12.7	-7.1
PFM000117	Lake Water	1.5	Bottom	2003-01-15	4451	113.4	-3.0	4.1	0.2365	-0.28	0.723279	-61.8	13.5	-7.2
PFM000117	Lake Water	0.5	Surface	2003-05-06	4774				0.2413			-71.9	11.8	-8.8
PFM000117	Lake Water	0.5	Surface	2003-07-08	4867				0.2372			-62.9	11.6	-6.4
PFM000117	Lake Water	0.5	Surface	2004-01-14	8210							-66.9	9.1	-8.0
PFM000117	Lake Water	1.5	Bottom	2004-01-14	8211							-72.0	9.2	-9.1

Id code	Water type	Depth (m)	Info	Date	Sample no	pmC	$\delta^{13}\text{C}$ (‰ PDB)	$\delta^{34}\text{S}$ (‰ CDT)	$^{10}\text{B}/^{11}\text{B}$	$\delta^{37}\text{Cl}$ (‰ SMOC)	$^{87}\text{Sr}/^{86}\text{Sr}$	δD (‰ SMOW)	Tritium (TU)	$\delta^{18}\text{O}$ (‰ SMOW)
PFM000127	Lake Water	0.5	Surface	2002-07-15	4215	110.0	-8.8			0.18		-63.2	8.7	-5.0
PFM000127	Lake Water	1	Bottom	2002-07-15	4216	109.7	-8.3			-0.03		-62.4	13.1	-8.1
PFM000127	Lake Water	0.5	Surface	2002-08-12	4232	110.8	-6.0			-0.01		-44.3	7.6	-4.5
PFM000127	Lake Water	1	Bottom	2002-08-12	4241	108.8	-6.9			-0.10		-46.3	6.1	-4.6
PFM000127	Lake Water	1	Bottom	2003-10-27	8053			5.2			0.720349	-46.2	12.0	-4.9
PFM000127	Lake Water	0.5	Surface	2003-10-27	8054			1.9			0.720331	-45.8	13.3	-4.9
PFM000135	Lake Water	0.5	Surface	2003-01-15	4443	109.3	0.8	-0.4	0.2385	0.03	0.720879	-61.9	11.6	-7.2
PFM000135	Lake Water	0.5	Surface	2004-01-14	8230							-77.0	11.3	-10.2
PFM000062	Sea Water	0.5	Surface	2002-07-15	4198	110.9	-2.1			-0.35		-66.1	10.6	-8.1
PFM000062	Sea Water	3	Bottom	2002-07-15	4199	109.0	-2.9			-0.39		-67.8	17.3	-7.7
PFM000062	Sea Water	0.5	Surface	2002-08-12	4229	107.6	-4.0			0.01		-64.1	15.9	-8.5
PFM000062	Sea Water	3	Bottom	2002-08-12	4230	108.5	-3.6			0.10		-62.4	11.7	-8.5
PFM000062	Sea Water	3	Bottom	2002-10-21	4322			21.4	0.1912	0.10	0.709485	-61.3	15.6	-8.2
PFM000062	Sea Water	0.5	Surface	2002-10-21	4333	109.6	-3.6	20.8	0.1918	0.18	0.709404	-61.6	15.3	-8.2
PFM000062	Sea Water	0.5	Surface	2003-05-05	4763			20.5	0.2385	0.03		-65.6	13.5	-8.3
PFM000062	Sea Water	0.5	Surface	2003-07-07	4864				0.2369			-66.4	13.7	-8.3
PFM000062	Sea Water	0.5	Surface	2003-10-28	8048			20.7			0.709369	-62.4	11.0	-8.1
PFM000062	Sea Water	0.5	Surface	2004-01-13	8218							63.6	13.9	-8.1
PFM000063	Sea Water	0.5	Surface	2002-07-15	4194	105.4	-5.2			-0.05		-65.1	17.4	-7.8
PFM000063	Sea Water	4.5	Bottom	2002-07-15	4195	105.7	-4.9			-0.24		-65.7	17.4	-8.0
PFM000063	Sea Water	0.5	Surface	2002-08-12	4227	107.8	-6.1					-61.6	18.6	-8.2
PFM000063	Sea Water	4.5	Bottom	2002-08-12	4228	109.1	-5.0					-62.6	18.1	-8.4
PFM000063	Sea Water	4.5	Bottom	2002-10-21	4321	110.4	-4.0	20.7	0.1918	0.14	0.709418	-61.8	16.0	-8.1
PFM000063	Sea Water	0.5	Surface	2002-10-21	4324	111.1	-3.1	21.0	0.1918	0.01	0.709486	-61.6	17.1	-8.1
PFM000063	Sea Water	0.5	Surface	2003-01-14	4445	109.3	-2.9	19.8	0.2396	-0.61	0.709507	-60.9	13.9	-8.5
PFM000063	Sea Water	1	Bottom	2003-01-14	4450	110.0	-2.5	20.0	0.2394	0.21	0.709520	-65.1	17.5	-8.5
PFM000063	Sea Water	0.5	Surface	2003-05-05	4759			19.9	0.2382	0.07		-65.8	16.0	-8.3
PFM000063	Sea Water	0.5	Surface	2003-07-07	4862				0.2369			-65.3	16.4	-8.1
PFM000063	Sea Water	0.5	Surface	2003-10-28	8055			20.2			0.709446	-61.8	17.3	-8.5
PFM000063	Sea Water	0.5	Surface	2004-01-13	8223							-65.8	13.1	-8.5
PFM000063	Sea Water	4.3	Bottom	2004-01-13	8227							-65.8	16.0	-8.5

Id code	Water type	Depth (m)	Info	Date	Sample no	pmC	$\delta^{13}\text{C}$ (‰ PDB)	$\delta^{34}\text{S}$ (‰ CDT)	$^{10}\text{B}/^{11}\text{B}$	$\delta^{37}\text{Cl}$ (‰ SMOC)	$^{87}\text{Sr}/^{86}\text{Sr}$	δD (‰ SMOW)	Tritium (TU)	$\delta^{18}\text{O}$ (‰ SMOW)
PFM000064	Sea Water	0.5	Surface	2002-07-15	4196	108.0	-8.9			-0.07		-63.7	11.6	-7.6
PFM000064	Sea Water	1	Bottom	2002-07-15	4197	108.7	-8.3			0.01		-64.1	12.2	-7.6
PFM000064	Sea Water	0.5	Surface	2002-08-12	4225	107.1	-10.7			0.12		-61.5	17.0	-8.0
PFM000064	Sea Water	1	Bottom	2002-08-12	4226	106.1	-10.9			0.04		-60.4	17.8	-8.0
PFM000064	Sea Water	1	Bottom	2002-10-21	4323	108.3	-4.8	20.6	0.1916	0.11	0.710708	-60.1	15.0	-7.8
PFM000064	Sea Water	0.5	Surface	2002-10-21	4330	109.1	-4.0	21.0	0.1900	0.00	0.709535	-60.2	14.2	-8.0
PFM000064	Sea Water	0.5	Surface	2003-05-05	4760			19.3	0.2383	-0.52		-73.3	14.1	-9.4
PFM000064	Sea Water	0.5	Surface	2003-07-07	4863				0.2370			-65.9	13.7	-7.9
PFM000064	Sea Water	0.5	Surface	2003-10-28	8057			20.8			0.709520	-61.2	13.6	-8.3
PFM000064	Sea Water	1	Bottom	2004-01-12	8212							-67.5	12.7	-8.7
PFM000064	Sea Water	0.5	Surface	2004-01-12	8219							-85.0	11.5	-11.7
PFM000065	Sea Water	0.5	Surface	2002-07-15	4212	109.1	-6.6			-0.39		-72.5	14.1	-7.9
PFM000065	Sea Water	0.5	Surface	2002-08-12	4231	106.6	-9.4			0.07		-60.7	11.4	-8.1
PFM000065	Sea Water	0.5	Surface	2002-10-21	4325	108.9	-4.2	21.0	0.1906	-0.01	0.709510	-60.9	16.6	-8.1
PFM000065	Sea Water	0.5	Surface	2003-01-13	4446	106.9	-10.4	18.9	0.2396	-0.08	0.709700	-67.5	12.2	-8.8
PFM000065	Sea Water	0.5	Surface	2003-05-05	4762			17.2	0.2382	-0.17		-76.1	14.6	-9.8
PFM000065	Sea Water	0.5	Surface	2003-06-02	4818							-77.8		-9.8
PFM000065	Sea Water	0.5	Surface	2003-07-07	4865				0.2373			-67.5	12.2	-8.2
PFM000065	Sea Water	0.5	Surface	2003-10-28	8058			20.9			0.709408	-61.4	15.9	-8.4
PFM000065	Sea Water	0.5	Surface	2004-01-12	8222							-82.9	11.8	-11.2
PFM000082	Sea Water	0.5	Surface	2002-04-16	4044	109.4	-3.0			0.05		-64.5	15.9	-8.2
PFM000082	Sea Water	6	Bottom	2002-04-16	4047	108.7	-2.0			-0.09		-65.1	19.3	-8.2
PFM000082	Sea Water	0.5	Surface	2003-01-13	4438	107.9	-1.0	20.2	0.2382	0.22	0.709459	-64.1	12.6	-8.3
PFM000082	Sea Water	6.5	Bottom	2003-01-13	4439	109.4	-1.3	19.9	0.2399	0.09	0.709513	-64.1	16.6	-8.3
PFM000083	Sea Water	0.5	Surface	2002-04-16	4053	110.1	-3.0			0.06		-65.1	16.1	-8.2
PFM000083	Sea Water	6	Bottom	2002-04-16	4054	110.1	-3.0			0.05		-64.8	13.9	-8.1
PFM000084	Sea Water	0.5	Surface	2002-04-17	4062	100.1	-15.0			0.15		-83.5	11.2	-11.0
PFM000084	Sea Water	2.5	Bottom	2002-04-17	4063	95.6	-14.0			0.23		-82.4	11.7	-11.0
PFM000066	Stream Water	0.2	Surface	2002-04-15	4045	106.8	-13.0					-89.7	10.5	-12
PFM000066	Stream Water	0.2	Surface	2002-07-16	4208	113.1	-12.9			0.85		-77.7	13.0	-9.5
PFM000066	Stream Water	0.05	Surface	2002-08-11	4223	113.6	-12.1			0.47		-67.9	14.2	-9.7

Id code	Water type	Depth (m)	Info	Date	Sample no	pmC	$\delta^{13}\text{C}$ (‰ PDB)	$\delta^{34}\text{S}$ (‰ CDT)	$^{10}\text{B}/^{11}\text{B}$	$\delta^{37}\text{Cl}$ (‰ SMOC)	$^{87}\text{Sr}/^{86}\text{Sr}$	δD (‰ SMOW)	Tritium (TU)	$\delta^{18}\text{O}$ (‰ SMOW)
PFM000066	Stream Water	0.1	Surface	2003-01-13	4454							-78.3	11.8	-11.0
PFM000066	Stream Water	0.1	Surface	2003-05-06	4771			4.1	0.2429	0.16		-86.7	13.9	-11.7
PFM000066	Stream Water	0.1	Surface	2003-07-08	4869				0.2366			-75.2	13.2	-9.5
PFM000066	Stream Water	0.1	Surface	2003-10-27	8044			7.7			0.723034	-77.8	10.0	-10.7
PFM000066	Stream Water	0.1	Surface	2004-01-12	8224							-90.0	10.5	-12.7
PFM000067	Stream Water	0.5	Surface	2002-04-17	4057	111.8	-9.0					-82.9	13.0	-10.8
PFM000067	Stream Water	0.1	Surface	2002-07-15	4204	111.3	-12.0			-0.45		-62.6	12.2	-6.3
PFM000067	Stream Water	0.1	Surface	2002-08-12	4242	109.7	-9.4			-0.04		-53.8	6.7	-6.0
PFM000067	Stream Water	0.05	Surface	2002-10-22	4339	112.6	-3.6	10.4	0.1932	0.12	0.718665	-50.1	14.2	-5.5
PFM000067	Stream Water	0.1	Surface	2003-01-15	4459							-62.2	13.7	-7.4
PFM000067	Stream Water	0.1	Surface	2003-05-06	4772			4.7	0.2400	0.03		-74.0	13.1	-9.2
PFM000067	Stream Water	0.05	Surface	2003-06-03	4822							-68.0		-7.6
PFM000067	Stream Water	0.05	Surface	2003-07-08	4868				0.2372			-63.8	12.6	-5.8
PFM000067	Stream Water	0.05	Surface	2003-10-28	8056			7.3			0.719827	-51.7	17.0	-6.1
PFM000067	Stream Water	0.05	Surface	2004-01-13	8216							-80.4	10.5	-10.7
PFM000068	Stream Water	0.5	Surface	2002-04-15	4046	111.1	-12.0			0.16		-86.2	10.7	-11.2
PFM000068	Stream Water	0.2	Surface	2002-07-16	4213	113.5	-14.1			0.08		-79.9	11.0	-8.8
PFM000068	Stream Water	0.1	Surface	2002-08-13	4238	113.6	-14.3			-0.05		-68.7	8.5	-9.3
PFM000068	Stream Water	0.5	Surface	2002-10-22	4343	115.5	-12.1	9.0	0.1947	0.12	0.720582	-73.4	12.8	-10.5
PFM000068	Stream Water	0.1	Surface	2003-01-16	4457							-74.9	13.6	-10.0
PFM000068	Stream Water	0.5	Surface	2003-05-05	4758			2.8	0.2418	-0.53		-83.1	13.6	-11.0
PFM000068	Stream Water	0.5	Surface	2003-07-08	4872				0.2387			-80.3	11.8	-10.4
PFM000068	Stream Water	0.5	Surface	2003-10-29	8060			0.6			0.725135	-73.7	9.0	-10.7
PFM000068	Stream Water	0.5	Surface	2004-01-13	8225							-80.8	12.1	-10.9
PFM000069	Stream Water	0.5	Surface	2002-04-17	4055	112.8	-20.0			0.09		-91.4	10.9	-12.1
PFM000069	Stream Water	0.15	Surface	2002-07-16	4211	116.1	-14.2			0.13		-85.5	11.0	-10.2
PFM000069	Stream Water	0.05	Surface	2002-08-13	4244	114.6	-13.5			-0.03		-71.5	10.1	-9.8
PFM000069	Stream Water	0.05	Surface	2002-10-22	4342	116.2	-11.3	8.9	0.1959	0.09	0.720371	-73.4	11.2	-10.3
PFM000069	Stream Water	0.1	Surface	2003-01-16	4455							-87.4	13.9	-11.7
PFM000069	Stream Water	0.05	Surface	2003-06-03	4819							-78.6		-10.5
PFM000070	Stream Water	0.1	Surface	2002-04-16	4051	117.2	-9.0					-76.8		-9.7

Id code	Water type	Depth (m)	Info	Date	Sample no	pmC	$\delta^{13}\text{C}$ (‰ PDB)	$\delta^{34}\text{S}$ (‰ CDT)	$^{10}\text{B}/^{11}\text{B}$	$\delta^{37}\text{Cl}$ (‰ SMOC)	$^{87}\text{Sr}/^{86}\text{Sr}$	δD (‰ SMOW)	Tritium (TU)	$\delta^{18}\text{O}$ (‰ SMOW)
PFM000070	Stream Water	0.2	Surface	2002-07-16	4210	114.1	-10.9			0.51		-65.3	12.4	-7.1
PFM000070	Stream Water	0.05	Surface	2002-08-13	4240	113.0	-10.9			0.35		-58.5	6.6	-6.9
PFM000070	Stream Water	0.1	Surface	2003-01-16	4456							-62.6	15.4	-7.4
PFM000070	Stream Water	0.1	Surface	2003-05-06	4776			3.8	0.2419			-71.5	14.0	-8.7
PFM000070	Stream Water	0.1	Surface	2003-07-08	4871			5.4	0.2361		0.722316	-67.4	10.2	-7.6
PFM000070	Stream Water	0.1	Surface	2003-10-28	8059							-68.9	14.2	-9.7
PFM000070	Stream Water	0.1	Surface	2004-01-14	8221							-74.4	11.7	-9.6
PFM000071	Stream Water	0.1	Surface	2002-04-16	4050	93.3	-15.0					-93.4		-12.6
PFM000071	Stream Water	0.1	Surface	2002-07-16	4209	95.5	-16.3			1.94		-86.2	11.9	-11.4
PFM000071	Stream Water	0.05	Surface	2002-08-13	4239	100.8	-16.1			0.29		-78.5	5.3	-11.2
PFM000071	Stream Water	0.1	Surface	2003-01-15	4460							-86.2	13.3	-12.1
PFM000072	Stream Water	0.5	Surface	2002-04-15	4042	108.8	-9.0					-78.7	10.2	-10.1
PFM000072	Stream Water	0.2	Surface	2002-07-15	4214	111.1	-17.0			0.49		-65.3	12.8	-5.8
PFM000072	Stream Water	0.5	Surface	2002-08-12	4243	109.6	-15.1			-0.09		-51.5	10.4	-5.6
PFM000072	Stream Water	0.1	Surface	2002-11-12	4345	109.9	-19.5	-2.1		0.27	0.720084	-63.0	12.1	-8.4
PFM000072	Stream Water	0.1	Surface	2003-01-16	4458							-70.6	13.8	-9.2
PFM000072	Stream Water	0.1	Surface	2003-05-05	4769			0.2	0.2398	0.31		-70.2	11.7	-8.9
PFM000072	Stream Water	0.1	Surface	2003-07-08	4874				0.2362			-62.1	12.7	-6.7
PFM000072	Stream Water	0.1	Surface	2003-10-29	8049			8.0			0.719855	-69.0	11.5	-9.3
PFM000072	Stream Water	0.1	Surface	2004-01-14	8226							-68.4	12.3	-8.4
PFM000073	Stream Water	0.1	Surface	2002-04-15	4043	100.6	-13.0			0.06		-89.2	10.3	-11.9
PFM000073	Stream Water	0.05	Surface	2003-05-05	4767			-10.3	0.2436	-0.56		-88.3	11.0	-12.1
PFM000073	Stream Water	0.05	Surface	2004-01-14	8229							-87.3	11.3	-12.2

SICADA: isotopes_1_020201-040401

Compilation of trace element data

Id code	Water type	Depth (m)	Info	Date	Sample no	U (ug/l)	Th (ug/l)	Sc (ug/l)	Rb (ug/l)	Y (ug/l)	Zr (ug/l)	In (ug/l)	Sb (ug/l)	Cs (ug/l)	La (ug/l)	Hf (ug/l)	Tl (ug/l)	Ce (ug/l)
PFM000074	Lake Water	0.5	Surface	2003-01-16	4453	2.12	-0.02	-0.05	2.19	0.144	0.363		0.0674	-0.03		-0.005	-0.03	0.0880
PFM000074	Lake Water	0.5	Surface	2003-05-06	4770	1.99	-0.02	0.0177	1.95	0.129	0.412		0.0620	0.0063		0.0277	0.0061	0.0530
PFM000074	Lake Water	0.5	Surface	2003-07-07	4861	1.36	-0.02	-0.05	1.76	0.117	0.172	-0.05	0.0424	-0.03	0.0441	0.0053	-0.03	0.0654
PFM000074	Lake Water	0.5	Surface	2003-10-27	8045	0.973	-0.02	-0.05	1.90	0.0770	0.109		0.0370	-0.03	0.0280	-0.005	-0.03	0.0290
PFM000074	Lake Water	0.5	Surface	2004-01-14	8231	3.12	0.0260	-0.05	1.97	0.256	0.306		0.0700	-0.03	0.109	0.0132	-0.03	0.0900
PFM000087	Lake Water	0.5	Surface	2002-04-17	4060	3.42	0.0206	0.0190	2.07	0.198	0.306	8.11		0.0062	0.0573	0.0114	0.0043	0.0680
PFM000087	Lake Water	1.8	Bottom	2002-04-17	4061	3.47	0.0213	0.0160	2.09	0.203	0.296	7.52		0.0055	0.0582	0.0127	0.0048	0.0693
PFM000087	Lake Water	0.5	Surface	2003-01-15	4442	3.07	-0.02	-0.05	3.73	0.182	0.577		0.0919	-0.03		0.0063	-0.03	0.0756
PFM000087	Lake Water	1.5	Bottom	2003-01-15	4449	3.28	-0.02	-0.05	3.37	0.195	0.599		0.0923	-0.03		0.0067	-0.03	0.0861
PFM000087	Lake Water	0.5	Surface	2003-05-06	4773	3.29	-0.02	0.0140	2.22	0.108	0.382		0.0633	0.0058		0.0238	0.0091	0.0374
PFM000087	Lake Water	0.5	Surface	2003-07-07	4860	2.02	-0.02	-0.05	2.62	0.0928	0.221	-0.05	0.0507	-0.03	0.0341	0.0076	-0.03	0.0654
PFM000087	Lake Water	0.5	Surface	2003-10-27	8047	2.39	-0.02	-0.05	2.87	0.0460	0.0980		0.0400	-0.03	0.0100	-0.005	-0.03	0.0100
PFM000087	Lake Water	1.5	Bottom	2003-10-27	8051	2.32	-0.02	-0.05	2.87	0.0510	0.0970		0.0390	-0.03	0.0110	-0.005	-0.03	0.0110
PFM000087	Lake Water	0.5	Surface	2004-01-12	8215	4.34	0.0260	-0.05	2.36	0.255	0.334		0.0720	-0.03	0.0940	0.0143	-0.03	0.108
PFM000087	Lake Water	1.5	Bottom	2004-01-12	8220	7.17	0.0300	-0.05	5.37	0.402	0.507		0.0800	-0.03	0.121	0.0215	-0.03	0.159
PFM000097	Lake Water	0.5	Surface	2002-04-17	4056	1.78	0.0283	0.0200	2.93	0.266	0.302	8.72	0.0652	0.0084	0.157	0.0122	0.0060	0.2190
PFM000097	Lake Water	0.5	Surface	2003-01-15	4452	2.67	-0.02	-0.05	3.92	0.212	0.497		0.0968	-0.03		0.0053	-0.03	0.165
PFM000097	Lake Water	0.5	Surface	2003-05-06	4777	2.25	-0.02	0.0086	2.13	0.102	0.347		0.0789	0.0049		0.0161	0.0065	0.0767
PFM000097	Lake Water	0.5	Surface	2003-07-08	4870	1.69	-0.02	-0.05	2.94	0.0438	0.0888	-0.05	0.101	-0.03	0.0423	-0.005	-0.03	0.0668
PFM000097	Lake Water	0.5	Surface	2004-01-13	8217	3.81	0.0500	-0.05	3.30	0.440	0.433		0.101	-0.03	0.245	0.0190	-0.03	0.347
PFM000107	Lake Water	0.5	Surface	2002-04-17	4058	1.70	0.0350	0.0190	2.89	0.267	0.296	8.80	0.0651	0.0076	0.160	0.0125	0.0064	0.2200
PFM000107	Lake Water	1.4	Bottom	2002-04-17	4059	1.72	0.0357	0.0160	2.97	0.271	0.337	12.6		0.0081	0.161	0.0134	0.0066	0.222
PFM000107	Lake Water	0.5	Surface	2003-01-16	4444	2.03	-0.02	-0.05	2.79	0.155	0.403		0.0857	-0.03		-0.005	-0.03	0.128
PFM000107	Lake Water	1.0	Bottom	2003-01-21	4447	2.36	-0.02	-0.05	3.54	0.204	0.471		0.0937	-0.03		0.0056	-0.03	0.171
PFM000107	Lake Water	0.5	Surface	2003-05-04	4757	2.34	-0.02	0.0137	2.11	0.123	0.491		0.0760	0.0073		0.0750	0.0066	0.0958
PFM000107	Lake Water	0.5	Surface	2003-07-07	4866	2.85	-0.02	-0.05	2.82	0.0763	0.0973	-0.05	0.106	-0.03	0.0531	-0.005	-0.03	0.0651

Id code	Water type	Depth (m)	Info	Date	Sample no	Pr (ug/l)	Nd (ug/l)	Sm (ug/l)	Eu (ug/l)	Gd (ug/l)	Tb (ug/l)	Dy (ug/l)	Ho (ug/l)	Er (ug/l)	Tm (ug/l)	Yb (ug/l)	Lu (ug/l)
PFM000074	Lake Water	0.5	Surface	2003-01-16	4453	0.0180	0.0748	0.0164	-0.005	0.0157	-0.05	0.0181	-0.005	0.0132	-0.005	0.0131	-0.005
PFM000074	Lake Water	0.5	Surface	2003-05-06	4770	0.0172	0.0770	0.0160	0.0038	0.0173	0.0028	0.0177	0.0059	0.0124	0.0021	0.0139	0.0022
PFM000074	Lake Water	0.5	Surface	2003-07-07	4861	0.0127	0.0551	0.0121	-0.005	0.0128	-0.005	0.0128	-0.005	0.0095	-0.005	0.0095	-0.005
PFM000074	Lake Water	0.5	Surface	2003-10-27	8045	0.0070	0.0330	0.0070	-0.005	0.0080	-0.05	0.0090	-0.005	0.0070	-0.005	0.0070	-0.005
PFM000074	Lake Water	0.5	Surface	2004-01-14	8231	0.0311	0.135	0.0305	-0.005	0.0320	0.0097	0.0331	0.0072	0.0227	-0.005	0.0233	-0.005
PFM000087	Lake Water	0.5	Surface	2002-04-17	4060	0.0177	0.0831	0.0191	0.0028				0.0059	0.0197	0.0030	0.0216	0.0038
PFM000087	Lake Water	1.8	Bottom	2002-04-17	4061	0.0187	0.0849	0.0198	0.0033				0.0062	0.0200	0.0032	0.0215	0.0039
PFM000087	Lake Water	0.5	Surface	2003-01-15	4442	0.0142	0.0595	0.0141	-0.005	0.0147	-0.050	0.0200	-0.005	0.0173	-0.005	0.0180	-0.005
PFM000087	Lake Water	1.5	Bottom	2003-01-15	4449	0.0162	0.0723	0.0164	-0.005	0.0169	-0.050	0.0221	0.0052	0.0186	-0.005	0.0203	-0.005
PFM000087	Lake Water	0.5	Surface	2003-05-06	4773	0.0107	0.0464	0.0108	0.0037	0.0135	0.0021	0.0145	0.0039	0.0122	0.0020	0.0130	0.0023
PFM000087	Lake Water	0.5	Surface	2003-07-07	4860	0.0102	0.0390	0.0083	-0.005	0.0081	-0.005	0.0092	-0.005	0.0070	-0.005	0.0087	-0.005
PFM000087	Lake Water	0.5	Surface	2003-10-27	8047	-0.005	0.0120	-0.0050	-0.005	-0.005	-0.05	0.0050	-0.005	-0.005	-0.005	0.0060	-0.005
PFM000087	Lake Water	1.5	Bottom	2003-10-27	8051	-0.005	0.0140	-0.0050	-0.005	-0.005	-0.05	0.0060	-0.005	0.0050	-0.005	0.0060	-0.005
PFM000087	Lake Water	0.5	Surface	2004-01-12	8215	0.0283	0.127	0.0293	-0.005	0.0314	0.0085	0.0330	0.0079	0.0236	-0.005	0.0262	-0.005
PFM000087	Lake Water	1.5	Bottom	2004-01-12	8220	0.0345	0.153	0.0358	0.0055	0.0385	0.0097	0.0453	0.0109	0.0369	0.0059	0.0427	0.0072
PFM000097	Lake Water	0.5	Surface	2002-04-17	4056	0.0422	0.169	0.0323	0.0043				0.0077	0.0241	0.0038	0.0262	0.0038
PFM000097	Lake Water	0.5	Surface	2003-01-15	4452	0.0307	0.121	0.0236	-0.005	0.0223	-0.05	0.0256	0.0053	0.0184	-0.005	0.0179	-0.005
PFM000097	Lake Water	0.5	Surface	2003-05-06	4777	0.0148	0.0538	0.0112	0.0029	0.0129	0.0020	0.0126	0.0030	0.0087	0.0013	0.0094	0.0016
PFM000097	Lake Water	0.5	Surface	2003-07-08	4870	0.0108	0.0442	0.0082	-0.005	0.0073	-0.005	0.0076	-0.005	-0.005	-0.005	0.0053	-0.005
PFM000097	Lake Water	0.5	Surface	2004-01-13	8217	0.0650	0.256	0.0545	0.0069	0.0542	0.0127	0.0538	0.0121	0.0381	0.0060	0.0402	0.0067
PFM000107	Lake Water	0.5	Surface	2002-04-17	4058	0.0424	0.171	0.0344	0.0045				0.0080	0.0249	0.0036	0.0252	0.0039
PFM000107	Lake Water	1.4	Bottom	2002-04-17	4059	0.0420	0.167	0.0338	0.0044				0.0085	0.0252	0.0036	0.0257	0.0044
PFM000107	Lake Water	0.5	Surface	2003-01-16	4444	0.0236	0.0901	0.0168	-0.005	0.0157	-0.05	0.0167	-0.005	0.0128	-0.005	0.0119	-0.005
PFM000107	Lake Water	1.0	Bottom	2003-01-21	4447	0.0316	0.121	0.0238	-0.005	0.0223	-0.05	0.0245	0.0052	0.0172	-0.005	0.0178	-0.005
PFM000107	Lake Water	0.5	Surface	2003-05-04	4757	0.0188	0.0679	0.0146	0.0037	0.0161	0.0029	0.0153	0.0039	0.0112	0.0021	0.0111	0.0023
PFM000107	Lake Water	0.5	Surface	2003-07-07	4866	0.0128	0.0465	0.0105	-0.005	0.0102	-0.005	0.0100	-0.005	0.0072	-0.005	0.0068	-0.005

Id code	Water type	Depth (m)	Info	Date	Sample no	U (ug/l)	Th (ug/l)	Sc (ug/l)	Rb (ug/l)	Y (ug/l)	Zr (ug/l)	In (ug/l)	Sb (ug/l)	Cs (ug/l)	La (ug/l)	Hf (ug/l)	Tl (ug/l)	Ce (ug/l)
PFM000107	Lake Water	0.5	Surface	2004-01-13	8213	3.16	0.0528	0.0541	2.70	0.444	0.606		0.0760	-0.03	0.271	0.0208	-0.03	0.349
PFM000107	Lake Water	1.0	Bottom	2004-01-13	8214	3.08	0.0430	-0.05	3.22	0.391	0.436		0.0820	-0.03	0.231	0.0167	-0.03	0.285
PFM000117	Lake Water	0.5	Surface	2002-04-16	4048	1.33	0.0399	0.0280	1.81	0.242	0.305	10.4		0.0076	0.101	0.0122	0.0042	0.110
PFM000117	Lake Water	1.5	Bottom	2002-04-16	4049	1.32	0.0375	0.0160	1.81	0.242	0.296	10.1		0.0060	0.100	0.0135	0.0044	0.111
PFM000117	Lake Water	0.5	Surface	2003-01-15	4440	1.30	-0.02	-0.05	2.69	0.0579	0.348		0.0833	-0.03		-0.005	-0.03	0.0136
PFM000117	Lake Water	1.5	Bottom	2003-01-15	4451	1.27	-0.02	-0.05	2.60	0.0846	0.289		0.0757	-0.03		-0.005	-0.03	0.0216
PFM000117	Lake Water	0.5	Surface	2003-05-06	4774	1.23	-0.02	0.0115	1.77	0.0755	0.298		0.0748	0.0079	0.0204	0.0204	0.0064	0.0335
PFM000117	Lake Water	0.5	Surface	2003-07-08	4867	1.32	-0.02	-0.05	2.26	0.0354	0.0996	-0.05	0.0777	-0.03	0.0104	-0.005	-0.03	0.0088
PFM000117	Lake Water	0.5	Surface	2004-01-14	8210	1.04	-0.02	-0.05	2.23	0.240	0.540		0.0690	-0.03	0.0776	0.0150	-0.03	0.0885
PFM000117	Lake Water	1.5	Bottom	2004-01-14	8211	0.996	0.0324	-0.05	2.28	0.329	0.607		0.0720	-0.03	0.120	0.0181	-0.03	0.150
PFM000127	Lake Water	0.5	Surface	2003-10-27	8054	1.36	-0.02	-0.05	3.32	0.0370	0.0770		0.1260	-0.03	0.0170	-0.005	-0.03	0.0210
PFM000127	Lake Water	1.0	Bottom	2003-10-27	8053	1.45	-0.02	-0.05	3.54	0.0400	0.0810		0.130	-0.03	0.0180	-0.005	-0.03	0.0210
PFM000135	Lake Water	0.5	Surface	2003-01-15	4443	1.11	-0.02	-0.05	4.45	0.0990	0.377		0.0977	-0.03		-0.005	-0.03	0.0517
PFM000135	Lake Water	0.5	Surface	2004-01-14	8230	1.96	-0.02	-0.05	3.47	0.189	0.265		0.0930	-0.03	0.0540	0.0100	-0.03	0.0909
PFM000151	Lake Water	0.5	Surface	2002-04-16	4052	2.04	0.0260	0.0150	1.70	0.179	0.281	15.6		0.0045	0.0697	0.011	0.0053	0.0680
PFM000062	Sea Water	0.5	Surface	2002-08-12	4229	0.671	-0.1	-0.010	17.5	0.0236	-10	25.5	0.134	0.0259	1.050		0.0366	
PFM000062	Sea Water	3.0	Bottom	2002-08-12	4230	0.690	-0.1	0.140	17.9	0.0210	-10	10.9	0.140	0.0200	0.0099	0.943	0.0380	0.0131
PFM000062	Sea Water	0.5	Surface	2002-10-21	4333	0.560	-0.1	0.0094	17.5	0.0400	0.0950	19.3	0.0870	0.0180	0.0117	-0.01	0.0225	0.0170
PFM000062	Sea Water	3.0	Bottom	2002-10-21	4322	0.601	-0.1	-0.005	18.5	0.0260	0.0130	19.9	0.104	0.0250	0.0101	-0.01	0.0705	0.0124
PFM000062	Sea Water	0.5	Surface	2003-05-05	4763	0.671	-0.2	0.0193	17.1	0.0727	2.82		0.107	0.0526	0.791		-0.01	0.0835
PFM000062	Sea Water	0.5	Surface	2003-07-07	4864	0.713	-0.04	-0.1	19.3	0.0414	-0.05	-0.1	0.102	-0.05	0.0141	-0.01	-0.05	0.0184
PFM000062	Sea Water	0.5	Surface	2003-10-28	8048	0.579	-0.2	-0.5	17.0	-0.05	-0.3		-0.1	-0.3	-0.05	-0.05	-0.3	-0.05
PFM000062	Sea Water	0.5	Surface	2004-01-13	8218	0.641	-0.2	-0.5	15.5	0.0523	-0.3		-0.1	-0.3	-0.05	-0.05	-0.3	-0.05
PFM000063	Sea Water	0.5	Surface	2002-08-12	4227	0.73	-0.1	0.0150	18.2	0.0280	-10	12.0	0.1390	0.0230	0.0096	1.33	0.0390	0.0112
PFM000063	Sea Water	4.5	Bottom	2002-08-12	4228	0.604	-0.1	-0.01	19.0	0.0360	-10	11.8	0.136	0.0230	0.0087	1.24	0.0350	0.0140
PFM000063	Sea Water	0.5	Surface	2002-10-21	4324	0.550	-0.1	-0.005	17.1	0.0260	0.0160	18.4	0.106	0.0160	0.0084	-0.005	0.0385	0.0083
PFM000063	Sea Water	4.5	Bottom	2002-10-21	4321	0.640	-0.1	-0.005	18.2	0.0310	0.0450	18.8	0.0890	0.0310	0.0092	-0.005	0.0497	0.0117
PFM000063	Sea Water	0.5	Surface	2003-01-14	4445	0.934	-0.1	-0.3	17.4	0.0720	0.190		0.0879	-0.1		-0.02	-0.1	0.0386
PFM000063	Sea Water	1.0	Bottom	2003-01-14	4450	0.820	-0.1	-0.3	17.9	0.0574	0.167		0.0837	-0.1		-0.02	-0.1	0.0269
PFM000063	Sea Water	0.5	Surface	2003-05-05	4759	0.762	-0.2	-0.01	16.5	0.142	0.235		-0.100	0.0487	0.0293		-0.01	0.254
PFM000063	Sea Water	0.5	Surface	2003-07-07	4862	0.666	-0.04	-0.1	18.7	0.0519	0.0723	-0.1	0.0877	-0.05	0.0228	-0.01	-0.05	0.0365

Id code	Water type	Depth (m)	Info	Date	Sample no	Pr (ug/l)	Nd (ug/l)	Sm (ug/l)	Eu (ug/l)	Gd (ug/l)	Tb (ug/l)	Dy (ug/l)	Ho (ug/l)	Er (ug/l)	Tm (ug/l)	Yb (ug/l)	Lu (ug/l)
PFM000107	Lake Water	0.5	Surface	2004-01-13	8213	0.0686	0.270	0.0542	0.0077	0.0564	0.0131	0.0521	0.0116	0.0356	0.0054	0.0377	0.0061
PFM000107	Lake Water	1.0	Bottom	2004-01-13	8214	0.0577	0.235	0.0466	0.0063	0.0465	0.0122	0.0469	0.0101	0.0333	0.0052	0.0335	0.0059
PFM000117	Lake Water	0.5	Surface	2002-04-16	4048	0.0302	0.128	0.0300	0.0042				0.0077	0.0229	0.0035	0.0257	0.0042
PFM000117	Lake Water	1.5	Bottom	2002-04-16	4049	0.0307	0.129	0.0274	0.0044				0.0074	0.0221	0.0038	0.0258	0.0042
PFM000117	Lake Water	0.5	Surface	2003-01-15	4440	-0.005	0.0197	-0.005	-0.005	-0.005	-0.05	0.0061	-0.005	-0.005	-0.005	0.0057	-0.005
PFM000117	Lake Water	1.5	Bottom	2003-01-15	4451	0.0073	0.0309	0.0075	-0.005	0.0076	-0.05	0.0095	-0.005	0.0073	-0.005	0.0084	-0.005
PFM000117	Lake Water	0.5	Surface	2003-05-06	4774	0.0089	0.0370	0.0084	0.0023	0.0093	0.0016	0.0106	0.0026	0.0080	0.0013	0.0091	0.0016
PFM000117	Lake Water	0.5	Surface	2003-07-08	4867	-0.005	0.0135	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000117	Lake Water	0.5	Surface	2004-01-14	8210	0.0215	0.0877	0.0184	-0.005	0.0198	-0.005	0.0201	-0.005	0.0137	-0.005	0.0146	-0.005
PFM000117	Lake Water	1.5	Bottom	2004-01-14	8211	0.0338	0.135	0.0294	-0.005	0.0292	-0.005	0.0328	0.0071	0.0227	-0.005	0.0247	-0.005
PFM000127	Lake Water	0.5	Surface	2003-10-27	8054	-0.005	0.0180	-0.005	-0.005	-0.005	-0.05	-0.005	-0.005	-0.0050	-0.005	-0.005	-0.005
PFM000127	Lake Water	1.0	Bottom	2003-10-27	8053	-0.005	0.0180	-0.005	-0.005	-0.005	-0.05	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000135	Lake Water	0.5	Surface	2003-01-15	4443	0.0094	0.0388	0.0080	-0.005	0.0080	-0.05	0.0102	-0.005	0.0089	-0.005	0.0096	-0.005
PFM000135	Lake Water	0.5	Surface	2004-01-14	8230	0.0178	0.0801	0.0175	-0.005	0.0200	-0.005	0.0225	0.0052	0.0180	-0.005	0.0208	-0.005
PFM000151	Lake Water	0.5	Surface	2002-04-16	4052	0.0219	0.0954	0.0203	0.0036				0.0060	0.0184	0.0028	0.0183	0.0031
PFM000062	Sea Water	0.5	Surface	2002-08-12	4229												
PFM000062	Sea Water	3.0	Bottom	2002-08-12	4230	-0.005	0.0111	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000062	Sea Water	0.5	Surface	2002-10-21	4333	-0.005	0.0108	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000062	Sea Water	3.0	Bottom	2002-10-21	4322	-0.005	0.0095	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000062	Sea Water	0.5	Surface	2003-05-05	4763	0.0193	0.0486	0.0136	-0.01	0.0150	-0.01	0.0129	-0.01	-0.01	-0.01	-0.01	-0.01
PFM000062	Sea Water	0.5	Surface	2003-07-07	4864	-0.01	0.0149	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
PFM000062	Sea Water	0.5	Surface	2003-10-28	8048	-0.05	-0.05	-0.05	-0.05	-0.05	-0.5	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
PFM000062	Sea Water	0.5	Surface	2004-01-13	8218	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
PFM000063	Sea Water	0.5	Surface	2002-08-12	4227	-0.005	0.0094	-0.005	-0.005	-0.005	-0.01	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000063	Sea Water	4.5	Bottom	2002-08-12	4228	-0.005	0.0090	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000063	Sea Water	0.5	Surface	2002-10-21	4324	-0.005	0.0097	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000063	Sea Water	4.5	Bottom	2002-10-21	4321	-0.005	0.0089	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000063	Sea Water	0.5	Surface	2003-01-14	4445	-0.02	0.0293	-0.02	-0.02	-0.02	-0.3	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
PFM000063	Sea Water	1.0	Bottom	2003-01-14	4450	-0.02	-0.02	-0.02	-0.02	-0.02	-0.3	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
PFM000063	Sea Water	0.5	Surface	2003-05-05	4759	0.0360	0.144	0.0282	-0.01	0.0270	-0.01	0.0223	-0.01	0.0120	-0.01	0.0122	-0.01
PFM000063	Sea Water	0.5	Surface	2003-07-07	4862	-0.01	0.0226	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

Id code	Water type	Depth (m)	Info	Date	Sample no	U (ug/l)	Th (ug/l)	Sc (ug/l)	Rb (ug/l)	Y (ug/l)	Zr (ug/l)	In (ug/l)	Sb (ug/l)	Cs (ug/l)	La (ug/l)	Hf (ug/l)	Tl (ug/l)	Ce (ug/l)
PFM000063	Sea Water	0.5	Surface	2003-10-28	8055	0.577	-0.2	-0.5	17.5	-0.05	-0.3	-0.1	-0.1	-0.3	-0.05	-0.05	-0.3	-0.05
PFM000063	Sea Water	0.5	Surface	2004-01-13	8223	0.873	-0.2	-0.5	15.3	0.0915	-0.3	-0.1	-0.1	-0.3	0.0636	-0.05	-0.3	0.0727
PFM000063	Sea Water	4.3	Bottom	2004-01-13	8227	0.752	-0.2	-0.5	15.3	0.0637	-0.3	-0.1	-0.1	-0.3	-0.05	-0.05	-0.3	-0.05
PFM000064	Sea Water	0.5	Surface	2002-08-12	4225	1.20	-0.1	0.0223	15.5	0.0660	-10	16.3	0.1530	0.0230	0.0169	2.03	0.0500	0.0273
PFM000064	Sea Water	1.0	Bottom	2002-08-12	4226	1.22	-0.1	0.0180	16.1	0.0710	-10	16.1	0.151	0.0200	0.0295	1.94	0.0530	0.0356
PFM000064	Sea Water	0.5	Surface	2002-10-21	4330	0.715	-0.1	-0.005	15.9	0.0480	0.0540	20.9	0.0920	0.0130	0.0243	-0.005	0.0269	0.0284
PFM000064	Sea Water	1.0	Bottom	2002-10-21	4323	0.764	-0.1	0.0067	16.2	0.0460	0.0400	21.1	0.0910	0.0130	0.0287	-0.005	0.0548	0.0354
PFM000064	Sea Water	0.5	Surface	2003-05-05	4760	1.83	-0.2	0.0193	12.1	0.475	0.724	-0.1	-0.1	0.0621	0.0474	-0.01	0.909	0.0616
PFM000064	Sea Water	0.5	Surface	2003-07-07	4863	0.897	-0.04	-0.1	19.8	0.0718	0.0737	-0.1	0.0973	-0.05	0.0466	-0.01	-0.05	0.0616
PFM000064	Sea Water	0.5	Surface	2003-10-28	8057	0.566	-0.2	-0.5	16.2	0.0690	-0.3	-0.1	-0.1	-0.3	-0.05	-0.05	-0.3	-0.05
PFM000064	Sea Water	0.5	Surface	2004-01-12	8219	2.71	0.0939	0.0996	4.59	1.03	0.660	0.660	0.0950	-0.03	0.855	0.0261	-0.03	1.09
PFM000064	Sea Water	1.0	Bottom	2004-01-12	8212	1.06	-0.2	-0.5	13.8	0.270	0.430	-0.1	-0.1	-0.3	0.170	-0.05	-0.3	0.240
PFM000065	Sea Water	0.5	Surface	2002-08-12	4231	1.24	-0.1	-0.01	15.0	0.070	-10	15.0	0.1330	0.0200	0.0242	1.27	0.0460	0.0274
PFM000065	Sea Water	0.5	Surface	2002-10-21	4325	0.647	-0.1	-0.005	17.1	0.0400	0.0230	18.7	0.0950	0.0130	0.0175	-0.01	0.0293	0.0208
PFM000065	Sea Water	0.5	Surface	2003-01-13	4446	1.48	-0.1	-0.3	9.68	0.204	0.387	0.116	0.116	-0.1	-0.02	-0.02	-0.1	0.162
PFM000065	Sea Water	0.5	Surface	2003-05-05	4762	2.39	0.3150	0.124	12.4	1.46	5.68	0.119	0.119	0.187	1.19	1.19	0.0267	3.51
PFM000065	Sea Water	0.5	Surface	2003-07-07	4865	0.902	-0.04	-0.1	17.2	0.0571	0.0564	-0.1	0.0864	-0.05	0.0230	-0.01	-0.05	0.0268
PFM000065	Sea Water	0.5	Surface	2003-10-28	8058	0.690	-0.2	-0.5	15.8	0.0560	-0.3	-0.1	-0.1	-0.3	-0.05	-0.05	-0.3	-0.05
PFM000065	Sea Water	0.5	Surface	2004-01-12	8222	2.41	0.0721	0.0806	3.82	1.02	0.586	0.0800	0.0800	-0.03	0.825	0.0229	-0.03	1.01
PFM000082	Sea Water	0.5	Surface	2002-04-16	4044	0.828	-0.02	0.0150	16.7	0.0941	0.0600	15.2		0.0356	0.0619	0.0031	0.0099	0.0900
PFM000082	Sea Water	6.0	Bottom	2002-04-16	4047	0.745	-0.02	0.0200	16.7	0.100	0.0662	15.3		0.0351	0.0786	0.0031	0.0102	0.104
PFM000082	Sea Water	0.5	Surface	2003-01-13	4438	0.826	-0.1	-0.3	17.3	0.0625	0.287		0.0836	-0.1	-0.02	-0.02	-0.1	-0.02
PFM000082	Sea Water	6.5	Bottom	2003-01-13	4439	0.909	-0.1	-0.3	17.5	0.0501	0.168		0.0738	-0.1	-0.02	-0.02	-0.1	-0.02
PFM000083	Sea Water	0.5	Surface	2002-04-16	4053	0.754	0.0206	0.0140	16.9	0.114	0.0901	14.7		0.0389	0.0912	0.0050	0.0103	0.138
PFM000083	Sea Water	6.0	Bottom	2002-04-16	4054	0.721	-0.02	0.0060	16.6	0.0803	0.0602	14.7		0.0322	0.0482	0.0022	0.0089	0.0687
PFM000084	Sea Water	0.5	Surface	2002-04-17	4062	2.44	0.122	0.0760	3.48	0.813	0.689	14.3		0.03	0.840	0.0308	0.0098	1.26
PFM000084	Sea Water	2.5	Bottom	2002-04-17	4063	2.43	0.141	0.0680	3.97	0.855	0.709	21.1		0.0413	0.898	0.0330	0.0103	1.38
PFM000066	Stream Water	0.2	Surface	2002-04-15	4045	1.81	0.0287	0.0330	1.76	0.200	0.561	10.2		0.0061	0.0863	0.0228	0.0044	0.108
PFM000066	Stream Water	0.1	Surface	2003-05-06	4771	1.52	0.0269	0.0224	2.07	0.145	0.458		0.0638	0.0106		0.0245	0.0054	0.0923
PFM000066	Stream Water	0.1	Surface	2003-07-08	4869	0.969	-0.02	-0.05	2.14	0.0958	0.108	-0.05	0.0444	-0.03	0.0493	-0.005	-0.03	0.0534
PFM000066	Stream Water	0.1	Surface	2003-10-27	8044	3.98	-0.02	-0.05	3.41	0.198	0.342		0.0600	-0.03	0.0880	0.0100	-0.03	0.100

Id code	Water type	Depth (m)	Info	Date	Sample no	Pr (ug/l)	Nd (ug/l)	Sm (ug/l)	Eu (ug/l)	Gd (ug/l)	Tb (ug/l)	Dy (ug/l)	Ho (ug/l)	Er (ug/l)	Tm (ug/l)	Yb (ug/l)	Lu (ug/l)
PFM000063	Sea Water	0.5	Surface	2003-10-28	8055	-0.05	-0.05	-0.05	-0.05	-0.05	-0.5	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
PFM000063	Sea Water	0.5	Surface	2004-01-13	8223	-0.05	0.0543	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
PFM000063	Sea Water	4.3	Bottom	2004-01-13	8227	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
PFM000064	Sea Water	0.5	Surface	2002-08-12	4225	-0.005	0.0150	-0.005	-0.005	-0.005	-0.01	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000064	Sea Water	1.0	Bottom	2002-08-12	4226	0.0072	0.0271	0.0052	-0.005	0.0054	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000064	Sea Water	0.5	Surface	2002-10-21	4330	0.0053	0.0180	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000064	Sea Water	1.0	Bottom	2002-10-21	4323	0.0063	0.0242	-0.005	-0.005	-0.005	-0.005	0.0056	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000064	Sea Water	0.5	Surface	2003-05-05	4760	0.123	0.437	0.0802	0.0141	0.0905	0.0136	0.0731	0.0155	0.0405	-0.01	0.0410	-0.01
PFM000064	Sea Water	0.5	Surface	2003-07-07	4863	0.0101	0.0384	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
PFM000064	Sea Water	0.5	Surface	2003-10-28	8057	-0.05	-0.05	-0.05	-0.05	-0.05	-0.5	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
PFM000064	Sea Water	0.5	Surface	2004-01-12	8219	0.187	0.733	0.140	0.0217	0.133	0.0246	0.127	0.0255	0.0764	0.0114	0.0755	0.0123
PFM000064	Sea Water	1.0	Bottom	2004-01-12	8212	-0.05	0.145	-0.05	-0.05	-0.05	-0.5	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
PFM000065	Sea Water	0.5	Surface	2002-08-12	4231	0.0057	0.022	-0.005	-0.005	-0.005	-0.01	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000065	Sea Water	0.5	Surface	2002-10-21	4325	-0.005	0.0158	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
PFM000065	Sea Water	0.5	Surface	2003-01-13	4446	0.0300	0.126	-0.02	-0.02	-0.02	-0.3	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
PFM000065	Sea Water	0.5	Surface	2003-05-05	4762	0.529	1.70	0.330	0.0586	0.331	0.0574	0.259	0.0606	0.143	0.0294	0.128	0.0276
PFM000065	Sea Water	0.5	Surface	2003-07-07	4865	-0.01	0.0205	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
PFM000065	Sea Water	0.5	Surface	2003-10-28	8058	-0.05	-0.05	-0.05	-0.05	-0.05	-0.5	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
PFM000065	Sea Water	0.5	Surface	2004-01-12	8222	0.172	0.638	0.116	0.0197	0.131	0.0248	0.118	0.0240	0.0749	0.0109	0.0686	0.0118
PFM000082	Sea Water	0.5	Surface	2002-04-16	4044	0.0145	0.0637	0.0110	0.0013				0.0037	0.0072	0.0012	0.0076	0.0012
PFM000082	Sea Water	6.0	Bottom	2002-04-16	4047	0.0168	0.0688	0.0123	0.0018				0.0035	0.0079	0.0013	0.0092	0.0027
PFM000082	Sea Water	0.5	Surface	2003-01-13	4438	-0.02	-0.02	-0.02	-0.02	-0.02	-0.3	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
PFM000082	Sea Water	6.5	Bottom	2003-01-13	4439	-0.02	-0.02	-0.02	-0.02	-0.02	-0.3	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
PFM000083	Sea Water	0.5	Surface	2002-04-16	4053	0.0217	0.0840	0.0163	0.0022				0.0040	0.0102	0.0016	0.0095	0.0018
PFM000083	Sea Water	6.0	Bottom	2002-04-16	4054	0.0123	0.0503	0.0098	-0.001				0.0031	0.0073	-0.001	0.0067	0.0012
PFM000084	Sea Water	0.5	Surface	2002-04-17	4062	0.190	0.717	0.1350	0.0205				0.0237	0.0697	0.0099	0.0635	0.0100
PFM000084	Sea Water	2.5	Bottom	2002-04-17	4063	0.206	0.780	0.147	0.0213				0.0256	0.0738	0.0106	0.0666	0.0112
PFM000066	Stream Water	0.2	Surface	2002-04-15	4045	0.0305	0.113	0.0252	0.0039				0.0064	0.0197	0.0031	0.0201	0.0034
PFM000066	Stream Water	0.1	Surface	2003-05-06	4771	0.0223	0.0895	0.0186	0.0045	0.0209	0.0035	0.0206	0.0048	0.0139	0.0022	0.0146	0.0024
PFM000066	Stream Water	0.1	Surface	2003-07-08	4869	0.0135	0.0562	0.0121	-0.005	0.0138	-0.005	0.0138	-0.005	0.0097	-0.005	0.0104	-0.005
PFM000066	Stream Water	0.1	Surface	2003-10-27	8044	0.0230	0.100	0.0220	-0.005	0.0230	-0.05	0.0270	0.0060	0.0180	-0.005	0.0190	-0.005

Id code	Water type	Depth (m)	Info	Date	Sample no	U (ug/l)	Th (ug/l)	Sc (ug/l)	Rb (ug/l)	Y (ug/l)	Zr (ug/l)	In (ug/l)	Sb (ug/l)	Cs (ug/l)	La (ug/l)	Hf (ug/l)	Tl (ug/l)	Ce (ug/l)
PFM000066	Stream Water	0.1	Surface	2004-01-12	8224	1.97	0.0280	-0.05	1.89	0.223	0.288		0.0610	-0.03	0.0868	0.0125	-0.03	0.104
PFM000067	Stream Water	0.1	Surface	2003-05-06	4772	2.26	-0.02	0.0082	1.93	0.102	0.295		0.0748	0.0048		0.0236	0.0065	0.0904
PFM000067	Stream Water	0.05	Surface	2003-07-08	4868	2.95	-0.02	-0.05	2.88	0.0779	0.0965	-0.05	0.104	-0.03	0.0583	-0.005	-0.03	0.0793
PFM000067	Stream Water	0.05	Surface	2003-10-28	8056	2.18	-0.02	-0.05	2.96	0.0590	0.144		0.129	-0.03	0.0390	-0.005	-0.03	0.0540
PFM000067	Stream Water	0.05	Surface	2004-01-13	8216	3.13	0.0510	0.0544	3.04	0.405	0.443		0.0830	-0.03	0.259	0.0186	-0.03	0.336
PFM000068	Stream Water	0.5	Surface	2003-05-05	4758	2.98	0.0563	0.0380	2.22	0.313	0.846		0.0756	0.0106		0.0580	0.0105	0.369
PFM000068	Stream Water	0.5	Surface	2003-07-08	4872	4.28	-0.02	-0.05	0.897	0.201	0.238	-0.05	0.0420	-0.03	0.118	0.0086	-0.03	0.153
PFM000068	Stream Water	0.5	Surface	2003-10-29	8060	3.31	0.0410	-0.05	4.10	0.310	0.474		0.0720	-0.03	0.217	0.0140	-0.03	0.289
PFM000068	Stream Water	0.5	Surface	2004-01-13	8225	3.06	0.0520	-0.05	2.67	0.349	0.437		0.0700	-0.03	0.226	0.0197	-0.03	0.267
PFM000070	Stream Water	0.1	Surface	2003-05-06	4776	1.33	-0.02	0.0122	1.83	0.0970	0.491		0.0688	0.0078		0.0209	0.0046	0.0347
PFM000070	Stream Water	0.1	Surface	2003-07-08	4871	0.760	-0.02	-0.05	0.488	0.182	0.174	-0.05	0.0421	-0.03	0.0901	0.0070	-0.03	0.156
PFM000070	Stream Water	0.1	Surface	2003-10-28	8059	0.267	-0.02	-0.05	3.12	0.100	0.136		0.0830	-0.03	0.0500	-0.005	-0.03	0.0700
PFM000070	Stream Water	0.1	Surface	2004-01-14	8221	1.20	0.0427	-0.05	2.31	0.251	0.318		0.0740	-0.03	0.127	0.0161	-0.03	0.125
PFM000072	Stream Water	0.1	Surface	2003-05-05	4769	0.460	-0.02	0.0081	2.69	0.0500	0.215		0.0669	0.0070		0.0308	0.0057	0.0408
PFM000072	Stream Water	0.1	Surface	2003-07-08	4874	0.589	-0.02	-0.05	2.03	0.0822	0.157	-0.05	0.0468	-0.03	0.0505	0.0059	-0.03	0.103
PFM000072	Stream Water	0.1	Surface	2003-10-29	8049	0.458	0.0210	-0.05	4.90	0.180	0.333		0.0790	-0.03	0.130	0.0090	-0.03	0.244
PFM000072	Stream Water	0.1	Surface	2004-01-14	8226	0.763	-0.02	-0.05	3.29	0.0637	0.109		0.0770	-0.03	0.0260	-0.005	-0.03	0.0429
PFM000073	Stream Water	0.1	Surface	2003-05-05	4767	24.7	-0.02	0.0113	1.86	0.0822	0.725		0.1030	0.0070		0.0652	0.0109	0.0937
PFM000073	Stream Water	0.05	Surface	2004-01-14	8229	28.2	-0.02	-0.05	1.67	0.0552	0.288		0.0750	-0.03	0.0165	0.0077	-0.03	0.0145

Id code	Water type	Depth (m)	Info	Date	Sample no	Pr (ug/l)	Nd (ug/l)	Sm (ug/l)	Eu (ug/l)	Gd (ug/l)	Tb (ug/l)	Dy (ug/l)	Ho (ug/l)	Er (ug/l)	Tm (ug/l)	Yb (ug/l)	Lu (ug/l)
PFM000066	Stream Water	0.1	Surface	2004-01-12	8224	0.0276	0.119	0.0273	0.0051	0.0282	-0.005	0.0288	0.0066	0.0212	-0.005	0.0224	-0.005
PFM000067	Stream Water	0.1	Surface	2003-05-06	4772	0.0166	0.0676	0.0125	0.0031	0.0142	0.0022	0.0135	0.0030	0.0094	0.0015	0.0112	0.0019
PFM000067	Stream Water	0.05	Surface	2003-07-08	4868	0.0138	0.0526	0.0107	-0.005	0.0120	-0.005	0.0110	-0.005	0.0072	-0.005	0.0077	-0.005
PFM000067	Stream Water	0.05	Surface	2003-10-28	8056	0.0100	0.0400	0.0080	-0.005	0.0080	-0.05	0.0080	-0.005	0.0050	-0.005	0.0060	-0.005
PFM000067	Stream Water	0.05	Surface	2004-01-13	8216	0.0675	0.266	0.0541	0.0073	0.0541	0.0126	0.0509	0.0115	0.0337	0.0053	0.0350	0.0058
PFM000068	Stream Water	0.5	Surface	2003-05-05	4758	0.0725	0.251	0.0489	0.0076	0.0492	0.0080	0.0402	0.0088	0.0255	0.0039	0.0275	0.0044
PFM000068	Stream Water	0.5	Surface	2003-07-08	4872	0.0329	0.131	0.0276	-0.005	0.0292	-0.005	0.0274	0.0064	0.0207	-0.005	0.0213	-0.005
PFM000068	Stream Water	0.5	Surface	2003-10-29	8060	0.0560	0.230	0.0480	0.0060	0.0440	-0.05	0.0450	0.0100	0.0290	-0.005	0.0290	-0.005
PFM000068	Stream Water	0.5	Surface	2004-01-13	8225	0.0566	0.234	0.0506	0.0070	0.0518	0.0131	0.0469	0.0106	0.0325	-0.005	0.0342	0.0055
PFM000070	Stream Water	0.1	Surface	2003-05-06	4776	0.0092	0.0376	0.0085	0.0026	0.0100	0.0018	0.0117	0.0029	0.0091	0.0014	0.0099	0.0017
PFM000070	Stream Water	0.1	Surface	2003-07-08	4871	0.0255	0.108	0.0239	-0.005	0.0271	-0.005	0.0266	0.0062	0.0198	-0.005	0.0218	-0.005
PFM000070	Stream Water	0.1	Surface	2003-10-28	8059	0.0130	0.0540	0.0110	-0.005	0.0130	-0.05	0.0120	-0.005	0.0090	-0.005	0.0090	-0.005
PFM000070	Stream Water	0.1	Surface	2004-01-14	8221	0.0346	0.147	0.0329	-0.005	0.0326	0.0076	0.0352	0.0075	0.0237	-0.005	0.0256	-0.005
PFM000072	Stream Water	0.1	Surface	2003-05-05	4769	0.0077	0.0307	0.0067	0.0023	0.0070	0.0013	0.0066	0.0017	0.0052	-0.001	0.0054	-0.001
PFM000072	Stream Water	0.1	Surface	2003-07-08	4874	0.0152	0.0614	0.0130	-0.005	0.0143	-0.005	0.0133	-0.005	0.0091	-0.005	0.0097	-0.005
PFM000072	Stream Water	0.1	Surface	2003-10-29	8049	0.0340	0.137	0.0270	-0.005	0.0260	-0.05	0.0260	0.0050	0.0160	-0.005	0.0160	-0.005
PFM000072	Stream Water	0.1	Surface	2004-01-14	8226	0.0078	0.0321	0.0069	-0.005	0.0075	-0.005	0.0080	-0.005	0.0057	-0.005	0.0067	-0.005
PFM000073	Stream Water	0.1	Surface	2003-05-05	4767	0.0158	0.0598	0.0122	0.0055	0.0134	0.0020	0.0122	0.0027	0.0080	0.0013	0.0101	0.0018
PFM000073	Stream Water	0.05	Surface	2004-01-14	8229	-0.005	0.0189	-0.005	-0.005	0.0054	-0.005	0.0056	-0.005	0.0051	-0.005	0.0069	-0.005

- "value" = below reporting limit
SICADA: trace_elements_2_020201-040401

Id code	Water type	Depth (m)	Info	Date	Sample no	Al ug/L	As ug/L	Cd ug/L	Cr ug/L	Cu ug/L	Co ug/L	Hg ug/L	Ni ug/L	Zn ug/L	Pb ug/L	V ug/L	Mo ug/L	Ba ug/L
PFM000074	Lake Water	0.5	Surface	2002-07-14	4202	4.90	0.397	0.003	0.123	0.500	0.046	-0.002	0.564	0.780	0.043	0.167	0.376	29.1
PFM000074	Lake Water	0.5	Surface	2003-01-16	4453	6.14		0.003	0.127	0.240	0.077	0.0028	0.438	1.31	0.216	0.179	0.468	34.8
PFM000074	Lake Water	0.5	Surface	2003-05-06	4770	16.7	0.133	0.003	0.123	1.33	0.034	-0.002	0.538	3.72	0.104	0.457	0.744	21.5
PFM000074	Lake Water	0.5	Surface	2003-07-07	4861	81.6	0.400	-0.002	0.152	0.391	0.040	-0.002	0.448	0.629	0.099	0.319	0.391	27.6
PFM000074	Lake Water	0.5	Surface	2003-10-27	8045	6.65		0.004	0.076	0.213	0.062	-0.002	0.239	3.46	0.037	0.237	0.185	33.5
PFM000074	Lake Water	0.5	Surface	2004-01-14	8231	12.3		0.005	0.179	1.47	0.044	-0.002	0.609	1.70	0.020	0.189	0.399	23.0
PFM000087	Lake Water	0.5	Surface	2002-04-17	4060													24.4
PFM000087	Lake Water	1.8	Bottom	2002-04-17	4061													24.4
PFM000087	Lake Water	1.5	Bottom	2002-07-14	4201	2.00	0.475	0.016	0.105	1.42	0.051	0.0069	0.522	1.99	0.088	0.172	0.489	36.4
PFM000087	Lake Water	0.5	Surface	2002-07-14	4200	2.30	0.463	0.006	0.103	0.460	0.043	-0.002	0.493	0.740	0.037	0.156	0.510	34.6
PFM000087	Lake Water	1.5	Bottom	2003-01-15	4449	6.05		-0.002	0.165	0.329	0.165	0.002	0.448	0.804	0.020	0.211	0.291	63.7
PFM000087	Lake Water	0.5	Surface	2003-01-15	4442	7.76		-0.002	0.170	0.163	0.161	-0.002	0.432	0.503	0.014	0.183	0.229	59.3
PFM000087	Lake Water	0.5	Surface	2003-05-06	4773	9.00	1.08	0.003	0.113	0.870	0.025	-0.002	0.466	1.65	0.042	0.410	0.923	26.7
PFM000087	Lake Water	0.5	Surface	2003-07-07	4860	120	0.530	-0.002	0.132	0.264	0.050	-0.002	0.331	0.665	0.095	0.324	0.527	21.2
PFM000087	Lake Water	1.5	Bottom	2003-10-27	8051	3.42		-0.002	0.052	0.123	0.029	-0.002	0.175	0.322	0.016	0.233	0.467	29.4
PFM000087	Lake Water	0.5	Surface	2003-10-27	8047	4.72		-0.002	0.061	0.125	0.023	-0.002	0.189	0.625	0.011	0.317	0.492	26.6
PFM000087	Lake Water	1.5	Bottom	2004-01-12	8220	8.89		-0.002	0.219	0.510	0.123	0.0025	0.776	1.96	0.029	0.180	0.421	56.5
PFM000087	Lake Water	0.5	Surface	2004-01-12	8215	14.0		0.005	0.164	1.35	0.072	0.0022	0.609	2.50	0.042	0.164	0.543	28.8
PFM000097	Lake Water	0.5	Surface	2002-04-17	4056	13.1			34.3		0.061		0.434	3.460			0.462	14.4
PFM000097	Lake Water	0.5	Surface	2002-07-15	4205	10.0			0.119		0.090		0.481	0.760			0.933	22.6
PFM000097	Lake Water	0.5	Surface	2003-01-15	4452	9.67		0.003	0.157	0.577	0.075	0.0139	0.436	1.52	0.084	0.219	0.647	27.4
PFM000097	Lake Water	0.5	Surface	2003-05-06	4777	29.9	1.46	0.005	0.130	0.640	0.046	-0.002	0.382	2.56	0.204	0.415	0.709	14.3
PFM000097	Lake Water	0.5	Surface	2003-07-08	4870	16.2	0.550	-0.002	0.108	0.735	0.085	-0.002	0.378	0.786	0.149	0.583	1.01	11.5
PFM000097	Lake Water	0.5	Surface	2004-01-13	8217	21.4		0.006	0.262	1.01	0.127	0.0050	0.995	3.64	0.140	0.367	0.417	38.2
PFM000107	Lake Water	0.5	Surface	2002-04-17	4058	14.6			0.162		0.068		0.410	0.870			0.381	15.5
PFM000107	Lake Water	1.4	Bottom	2002-04-17	4059													16.3
PFM000107	Lake Water	1	Bottom	2002-07-15	4207	11.6			0.114		0.087		0.448	0.710			1.05	16.5
PFM000107	Lake Water	0.5	Surface	2002-07-15	4206	11.8			0.118		0.092		0.412	0.460			1.01	20.7
PFM000107	Lake Water	0.5	Surface	2003-01-16	4444	9.98		0.010	0.127	0.561	0.052	-0.002	0.407	12.9	0.639	0.260	0.298	20.1
PFM000107	Lake Water	1	Bottom	2003-01-21	4447	12.4		0.009	0.134	0.681	0.069	-0.002	0.435	2.12	0.256	0.225	0.556	24.0
PFM000107	Lake Water	0.5	Surface	2003-05-04	4757	16.2	0.158	0.004	0.125	0.770	0.053	-0.002	0.415	1.19	0.199	0.492	0.766	15.1

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PFM000107	Lake Water	0.5	Surface	2003-07-07	4866	19.2	0.550	-0.002	0.123	0.772	0.079	-0.002	0.560	0.692	0.162	0.613	1.00	17.5
PFM000107	Lake Water	1	Bottom	2004-01-13	8214	26.8		0.006	0.213	1.20	0.084	0.0028	0.635	2.51	0.127	0.262	0.495	22.5
PFM000107	Lake Water	0.5	Surface	2004-01-13	8213	39.2		0.005	0.235	1.20	0.096	0.0039	0.679	2.84	0.092	0.224	0.424	19.4
PFM000117	Lake Water	1.5	Bottom	2002-04-16	4049													15.7
PFM000117	Lake Water	0.5	Surface	2002-04-16	4048													17.1
PFM000117	Lake Water	1.5	Bottom	2002-07-16	4218	4.80	0.294	0.003	0.077	0.550	0.045	-0.002	0.235	0.470	0.048	0.228	0.250	10.6
PFM000117	Lake Water	0.5	Surface	2002-07-16	4217	5.00	0.299	0.004	0.090	0.560	0.045	-0.002	0.246	0.380	0.029	0.270	0.262	10.3
PFM000117	Lake Water	1.5	Bottom	2003-01-15	4451	2.22		-0.002	0.071	0.434	0.040	-0.002	0.201	0.608	0.019	0.180	0.235	21.4
PFM000117	Lake Water	0.5	Surface	2003-01-15	4440	5.80		0.006	0.070	0.422	0.039	-0.002	0.187	3.26	0.238	0.194	0.247	19.2
PFM000117	Lake Water	0.5	Surface	2003-05-06	4774	6.30	-0.1	0.004	0.088	0.540	0.033	-0.002	0.288	1.46	0.075	0.369	0.376	15.4
PFM000117	Lake Water	0.5	Surface	2003-07-08	4867	6.94	0.400	-0.002	0.079	0.568	0.034	-0.002	0.140	0.466	0.015	0.352	0.311	13.4
PFM000117	Lake Water	0.5	Surface	2004-01-14	8210	43.1		0.004	0.143	0.865	0.035	-0.002	0.331	1.10	0.073	0.232	0.248	15.1
PFM000117	Lake Water	1.5	Bottom	2004-01-14	8211	55.9		0.008	0.181	0.915	0.051	0.0029	0.338	2.80	0.103	0.206	0.202	20.2
PFM000127	Lake Water	0.5	Surface	2002-07-15	4215	12.6	0.404	0.003	0.085	0.500	0.081	-0.002	0.200	0.440	0.176	0.495	0.612	16.2
PFM000127	Lake Water	1	Bottom	2002-07-15	4216	12.6	0.480	0.003	0.096	0.520	0.094	-0.002	0.279	0.450	0.227	0.523	0.625	16.8
PFM000127	Lake Water	0.5	Surface	2003-10-27	8054	5.45		0.007	0.090	0.484	0.073	-0.002	0.224	1.10	0.125	0.434	1.03	18.4
PFM000127	Lake Water	1	Bottom	2003-10-27	8053	6.32		0.005	0.093	0.593	0.076	-0.002	0.307	2.83	0.115	0.436	1.06	18.9
PFM000135	Lake Water	0.5	Surface	2003-01-15	4443	6.02		-0.002	0.139	0.234	0.107	-0.002	0.279	0.832	0.099	0.216	0.294	37.8
PFM000135	Lake Water	0.5	Surface	2004-01-14	8230	6.66		-0.002	0.216	0.542	0.163	0.0032	0.617	1.04	0.123	0.250	0.452	22.1
PFM000062	Sea Water	3	Bottom	2002-07-15	4199	5.61	2.00	0.391	0.575	1.41	0.050	-0.002	1.15	4.12	0.501	0.097	1.860	17.5
PFM000062	Sea Water	0.5	Surface	2002-07-15	4198	12.9	1.30	-0.05	0.582	24.7	-0.05	-0.002	1.03	23.3	2.82	0.138	1.80	17.4
PFM000062	Sea Water	3	Bottom	2002-08-12	4230	2.65	-100	-0.02	0.172	0.943	0.021	-0.002	0.986	1.02	-0.1	0.175	1.80	18.9
PFM000062	Sea Water	0.5	Surface	2002-08-12	4229	4.28	-100	-0.02	0.199	0.808	-0.02	-0.002	1.08	1.19	-0.1	0.154	1.83	19.5
PFM000062	Sea Water	3	Bottom	2002-10-21	4322	1.89		0.018	0.110	0.913	0.035	-0.002	0.880	4.36	0.303	0.157	1.17	14.3
PFM000062	Sea Water	0.5	Surface	2002-10-21	4333	32.6		0.012	0.120	0.732	-0.02	-0.002	0.873	5.09	-0.05	0.207	1.16	13.2
PFM000062	Sea Water	0.5	Surface	2003-05-05	4763	27.3	-1.00	-0.02	0.293	-1	-0.05	-0.002	0.591	-2.0	0.143	0.300	1.42	16.6
PFM000062	Sea Water	0.5	Surface	2003-07-07	4864	12.6	0.950	0.012	0.125	0.820	0.014	-0.002	0.841	0.843	-0.02	0.310	1.70	18.8
PFM000062	Sea Water	0.5	Surface	2003-10-28	8048	2.47		-0.02	0.103	-1	-0.05	-0.002	0.817	-2.0	-0.1	0.321	1.60	17.3
PFM000062	Sea Water	0.5	Surface	2004-01-13	8218	7.95		0.024	0.140	-1	-0.05	-0.002	0.602	-2.0	-0.1	0.096	1.32	14.8
PFM000063	Sea Water	0.5	Surface	2002-07-15	4194	13.6	1.20	-0.050	-0.1	-0.5	-0.05	-0.002	0.680	-2.0	-0.300	0.161	2.080	18.2
PFM000063	Sea Water	4.5	Bottom	2002-07-15	4195	20.7	1.40	-0.05	0.168	2.86	-0.05	-0.002	2.01	106	0.859	0.211	2.00	18.4

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PFM000063	Sea Water	0.5	Surface	2002-08-12	4227	6.56	-100	-0.02	0.159	0.840	0.030	-0.002	0.944	1.17	0.145	0.296	1.89	19.9
PFM000063	Sea Water	4.5	Bottom	2002-08-12	4228	9.41	-100	-0.02	0.162	0.595	0.075	-0.002	1.19	1.51	0.213	0.344	1.91	24.1
PFM000063	Sea Water	0.5	Surface	2002-10-21	4324	1.51		0.011	0.102	0.659	-0.02	-0.002	0.752	3.04	-0.05	0.176	1.17	15.1
PFM000063	Sea Water	4.5	Bottom	2002-10-21	4321	1.79		0.016	0.092	0.675	-0.02	-0.002	0.585	2.39	0.064	0.193	1.53	20.4
PFM000063	Sea Water	1	Bottom	2003-01-14	4450	2.75		0.029	0.089	1.35	-0.02	-0.002	0.940	4.09	-0.1	0.157	1.38	21.1
PFM000063	Sea Water	0.5	Surface	2003-01-14	4445	8.01		-0.02	0.155	1.44	0.036	-0.002	0.908	2.31	-0.1	0.109	1.40	20.0
PFM000063	Sea Water	0.5	Surface	2003-05-05	4759	79.8	-1.00	-0.02	0.280	-1	0.113	-0.002	1.05	2.83	0.381	0.517	1.84	17.2
PFM000063	Sea Water	0.5	Surface	2003-07-07	4862	48.0	0.960	0.008	0.141	0.771	0.027	-0.002	0.761	0.584	0.062	0.342	1.55	19.0
PFM000063	Sea Water	0.5	Surface	2003-10-28	8055	3.63		-0.02	0.103	-1	-0.05	-0.002	0.721	-2	-0.1	0.205	1.52	16.7
PFM000063	Sea Water	0.5	Surface	2004-01-13	8223	10.4		-0.02	0.157	-1	-0.05	-0.002	-0.5	2.35	-0.1	0.162	1.32	16.2
PFM000063	Sea Water	4.3	Bottom	2004-01-13	8227	4.84		0.038	0.102	-1	-0.05	-0.002	-0.5	4.86	-0.1	0.140	1.14	16.5
PFM000064	Sea Water	1	Bottom	2002-07-15	4197	11.3	1.50	-0.050	0.484	0.789	0.079	-0.002	1.06	3.10	-0.3	0.250	2.10	22.0
PFM000064	Sea Water	0.5	Surface	2002-07-15	4196	12.1	1.50	-0.05	0.308	0.683	0.118	-0.002	1.11	3.00	-0.3	0.247	2.08	21.9
PFM000064	Sea Water	1	Bottom	2002-08-12	4226	17.6	-100	-0.02	0.198	1.29	0.129	-0.002	1.35	1.61	0.223	0.436	1.73	21.4
PFM000064	Sea Water	0.5	Surface	2002-08-12	4225	17.8	-100	-0.02	0.150	1.04	0.105	-0.002	1.23	1.19	0.197	0.400	1.69	21.6
PFM000064	Sea Water	1	Bottom	2002-10-21	4323	3.32		0.015	0.112	0.676	0.046	-0.002	1.05	4.94	-0.05	0.202	1.28	18.1
PFM000064	Sea Water	0.5	Surface	2002-10-21	4330	8.91		0.017	-0.05	1.20	0.058	-0.002	0.865	12.6	-0.05	0.139	1.15	17.3
PFM000064	Sea Water	0.5	Surface	2003-05-05	4760	220	-1.00	-0.02	0.534	1.45	0.291	-0.002	2.30	3.66	0.406	0.918	1.58	19.8
PFM000064	Sea Water	0.5	Surface	2003-07-07	4863	30.0	0.830	-0.004	0.112	0.959	0.158	-0.002	1.28	0.732	0.073	0.380	1.65	21.3
PFM000064	Sea Water	0.5	Surface	2003-10-28	8057	3.63		0.037	-0.1	-1	-0.05	-0.002	0.893	3.42	-0.1	0.192	1.32	19.6
PFM000064	Sea Water	1	Bottom	2004-01-12	8212	43.7		0.060	0.160	-1	0.220	-0.002	1.39	8.56	-0.1	0.640	1.19	17.7
PFM000064	Sea Water	0.5	Surface	2004-01-12	8219	621		0.022	0.378	3.00	0.279	0.0024	2.95	7.08	0.088	0.474	0.857	20.6
PFM000065	Sea Water	0.5	Surface	2002-07-15	4212	9.46	1.60	-0.050	0.561	0.724	-0.05	-0.002	0.883	2.07	-0.3	0.287	1.87	20.2
PFM000065	Sea Water	0.5	Surface	2002-08-12	4231	16.2	-100	-0.02	0.212	1.29	0.096	-0.002	1.34	1.30	0.128	0.481	1.64	21.0
PFM000065	Sea Water	0.5	Surface	2002-10-21	4325	2.67		0.014	0.069	0.632	0.029	-0.002	0.992	1.40	-0.05	0.176	1.13	16.0
PFM000065	Sea Water	0.5	Surface	2003-01-13	4446	19.3		-0.02	0.335	1.83	0.109	-0.002	1.07	8.54	0.231	0.186	0.805	21.0
PFM000065	Sea Water	0.5	Surface	2003-05-05	4762	718	-1.00	0.178	1.84	3.52	0.763	-0.002	3.55	16.7	1.84	2.10	1.31	21.9
PFM000065	Sea Water	0.5	Surface	2003-07-07	4865	8.25	0.980	-0.004	0.074	0.737	0.105	-0.002	1.19	0.852	0.030	0.329	1.51	19.7
PFM000065	Sea Water	0.5	Surface	2003-10-28	8058	3.29		-0.02	0.841	-1	0.054	-0.002	0.718	-2.00	-0.1	0.224	1.40	16.9
PFM000065	Sea Water	0.5	Surface	2004-01-12	8222	126		0.028	0.292	2.65	0.365	0.0022	3.58	8.76	0.061	0.361	0.625	20.0
PFM000082	Sea Water	6	Bottom	2002-04-16	4047													14.7

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PFM000082	Sea Water	0.5	Surface	2002-04-16	4044														15.8
PFM000082	Sea Water	6.5	Bottom	2003-01-13	4439	12.1		-0.02	0.163	1.38	-0.02	-0.002	0.632	1.70	0.319	0.115	1.56	19.1	
PFM000082	Sea Water	0.5	Surface	2003-01-13	4438	17.7		-0.02	0.140	1.35	-0.02	-0.002	0.954	2.53	0.118	0.125	1.40	19.1	
PFM000083	Sea Water	6	Bottom	2002-04-16	4054														14.9
PFM000083	Sea Water	0.5	Surface	2002-04-16	4053														15.8
PFM000084	Sea Water	0.5	Surface	2002-04-17	4062														15.2
PFM000084	Sea Water	2.5	Bottom	2002-04-17	4063														15.4
PFM000066	Streaming Water	0.2	Surface	2002-04-15	4045														19.3
PFM000066	Streaming Water	0.2	Surface	2002-07-16	4208	28.4			0.119		0.070		0.491	2.03			0.404	26.9	
PFM000066	Streaming Water	0.1	Surface	2003-01-13	4454	6.92		0.004	0.129	0.717	0.212	0.0024	0.517	1.48	0.089	0.179	0.486	32.4	
PFM000066	Streaming Water	0.1	Surface	2003-05-06	4771	32.9	0.734	0.004	0.151	1.31	0.041	-0.002	0.563	4.37	0.072	0.470	0.693	21.0	
PFM000066	Streaming Water	0.1	Surface	2003-07-08	4869	6.06	0.460	-0.002	0.098	0.452	0.053	-0.002	0.402	1.24	0.029	0.315	0.335	22.4	
PFM000066	Streaming Water	0.1	Surface	2003-10-27	8044	10.9		0.006	0.131	1.15	0.062	-0.002	0.693	2.31	0.047	0.388	0.721	25.9	
PFM000066	Streaming Water	0.1	Surface	2004-01-12	8224	13.1		0.003	0.184	1.27	0.087	0.0022	0.551	1.47	0.053	0.151	0.300	21.2	
PFM000067	Streaming Water	0.1	Surface	2002-07-15	4204	11.9			0.117		0.091		0.396	0.410			1.01	22.6	
PFM000067	Streaming Water	0.05	Surface	2002-10-22	4339	5.50	0.267	0.003	0.100	0.620	0.063	-0.002	0.434	1.28	0.104	0.319	1.04	21.6	
PFM000067	Streaming Water	0.1	Surface	2003-01-15	4459	12.9		0.003	0.227	0.901	0.138	-0.002	0.640	1.37	0.059	0.276	1.21	36.2	
PFM000067	Streaming Water	0.1	Surface	2003-05-06	4772	12.2	-0.05	0.004	0.107	0.590	0.048	-0.002	0.344	1.49	0.197	0.485	0.761	15.1	
PFM000067	Streaming Water	0.05	Surface	2003-07-08	4868	22.5	0.570	-0.002	0.096	0.693	0.083	-0.002	0.463	1.05	0.213	0.686	1.04	19.6	
PFM000067	Streaming Water	0.05	Surface	2003-10-28	8056	10.3		0.005	0.092	0.618	0.058	-0.002	0.377	3.42	0.141	0.363	1.09	16.1	
PFM000067	Streaming Water	0.05	Surface	2004-01-13	8216	28.3		0.009	0.217	1.25	0.092	0.0036	0.817	6.16	0.201	0.226	0.512	20.9	
PFM000068	Streaming Water	0.2	Surface	2002-07-16	4213	17.2			0.197		0.070		0.684	0.550			0.349	23.6	
PFM000068	Streaming Water	0.5	Surface	2002-10-22	4343	21.8	0.299	0.003	0.171	0.480	0.100	-0.002	0.410	2.04	0.069	0.240	0.348	28.4	
PFM000068	Streaming Water	0.1	Surface	2003-01-16	4457	11.9		0.004	0.131	0.487	0.082	0.0032	0.484	3.11	0.067	0.205	0.245	26.6	
PFM000068	Streaming Water	0.5	Surface	2003-05-05	4758	69.6	0.126	0.006	0.228	1.46	0.049	0.0033	0.729	1.99	0.070	0.612	0.946	18.4	
PFM000068	Streaming Water	0.5	Surface	2003-07-08	4872	14.1	0.360	-0.002	0.150	0.486	0.086	-0.002	0.463	0.970	0.043	0.390	0.569	25.2	
PFM000068	Streaming Water	0.5	Surface	2003-10-29	8060	30.9		0.007	0.176	1.26	0.078	-0.002	0.761	2.13	0.044	0.344	0.544	24.1	
PFM000068	Streaming Water	0.5	Surface	2004-01-13	8225	22.4		0.003	0.195	0.969	0.074	0.0040	0.663	1.77	0.074	0.223	0.323	19.5	
PFM000069	Streaming Water	0.15	Surface	2002-07-16	4211	19.0			0.162		0.073		0.531	0.530			0.362	26.4	
PFM000069	Streaming Water	0.05	Surface	2002-10-22	4342	28.3	0.270	0.003	0.166	0.330	0.084	-0.002	0.420	3.29	0.104	0.235	0.261	27.2	
PFM000069	Streaming Water	0.1	Surface	2003-01-16	4455	21.7		-0.002	0.207	0.510	0.111	0.0033	0.612	4.08	0.068	0.219	0.128	34.6	

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PFM000069	Streaming Water	0.05	Surface	2004-01-13	8207				0.076	0.052	0.052		0.216	0.760	0.025	0.217	0.221	14.4
PFM000070	Streaming Water	0.2	Surface	2002-07-16	4210	5.50		0.002	0.079	0.427	0.038	-0.002	0.184	1.43	0.025	0.217	0.239	19.1
PFM000070	Streaming Water	0.1	Surface	2003-01-16	4456	3.70		0.004	0.102	0.550	0.045	-0.002	0.269	1.85	0.078	0.347	0.307	15.2
PFM000070	Streaming Water	0.1	Surface	2003-05-06	4776	11.8	0.459	0.017	0.145	0.356	0.278	0.0062	0.412	1.74	0.095	0.302	0.082	25.1
PFM000070	Streaming Water	0.1	Surface	2003-07-08	4871	10.5	0.360	0.008	0.107	0.522	0.094	-0.002	0.373	6.52	0.063	0.321	0.188	17.1
PFM000070	Streaming Water	0.1	Surface	2003-10-28	8059	12.8		0.003	0.150	1.12	0.048	-0.002	0.304	1.51	0.048	0.219	0.271	14.6
PFM000070	Streaming Water	0.1	Surface	2004-01-14	8221	22.5			0.195		0.138		1.09	0.790			0.914	27.9
PFM000071	Streaming Water	0.1	Surface	2002-07-16	4209	31.4		0.005	0.105	2.92	0.066	-0.002	0.689	1.10	-0.01	0.353	0.925	31.0
PFM000071	Streaming Water	0.1	Surface	2003-01-15	4460	9.21												
PFM000071	Streaming Water	0.5	Surface	2004-01-14	8209													
PFM000072	Streaming Water	0.2	Surface	2002-07-15	4214	9.10			0.125		0.067		0.252	1.00			0.223	26.0
PFM000072	Streaming Water	0.1	Surface	2003-01-16	4458	18.9		0.013	0.255	0.417	0.292	0.0033	0.725	19.6	0.395	0.601	0.250	50.7
PFM000072	Streaming Water	0.1	Surface	2003-05-05	4769	7.30	-0.1	0.003	0.124	0.410	0.060	-0.002	0.379	2.27	0.097	0.342	0.419	16.2
PFM000072	Streaming Water	0.1	Surface	2003-07-08	4874	7.15	0.490	-0.002	0.197	0.291	0.156	-0.002	0.452	2.03	0.135	0.277	0.170	32.2
PFM000072	Streaming Water	0.1	Surface	2003-10-29	8049	26.2		0.007	0.220	0.687	0.239	-0.002	0.839	4.79	0.242	0.581	0.496	35.7
PFM000072	Streaming Water	0.1	Surface	2004-01-14	8226	3.54		0.004	0.125	0.371	0.124	0.0047	0.282	1.92	0.166	0.107	0.293	26.6
PFM000073	Streaming Water	0.05	Surface	2003-05-05	4767	34.6	0.796	0.008	0.141	3.29	0.109	-0.002	1.44	5.72	0.313	0.640	1.86	46.1
PFM000073	Streaming Water	0.05	Surface	2004-01-14	8229	0.653		0.007	0.059	1.70	0.065	-0.002	1.07	0.737	0.013	0.201	1.18	43.8

italic font = very high value, probably due to contamination

- "value" = below reporting limit

SICADA: trace_elements_1_020201-040401

Compilation of U-, Th-, Ra-, and Rn-isotope data

Id code	Water type	Dept (m)	Info	Date	Sample no	Ra-226 (Bq/l)	Rn-222 (Bq/l)	U-238 (mBq/kg)	U-235 (mBq/kg)	U-234 (mBq/kg)	Th-232 (mBq/kg)	Th-230 (mBq/kg)
PFM000074	Lake Water	0.5	Surface	2003/01/16	4453	-	0.60	70	-50	70	-50	-50
PFM000087	Lake Water	0.5	Surface	2003/01/15	4442	0.50	0.80	60	-50	60	-50	-50
PFM000087	Lake Water	1.5	Bottom	2003/01/15	4449	0.10	0.40	-50	-50	-50	-50	-50
PFM000097	Lake Water	0.5	Surface	2003/01/15	4452	0.20	-	60	-50	60	-50	-50
PFM000107	Lake Water	0.5	Surface	2003/01/16	4444	-	0.10	-50	-50	-50	-50	-50
PFM000107	Lake Water	1	Bottom	2003/01/21	4447	-	-	-50	-50	-50	-50	-50
PFM000117	Lake Water	1.5	Bottom	2003/01/15	4451	-	-	50	-50	50	-50	50
PFM000117	Lake Water	0.5	Surface	2003/01/15	4440	0.20	0.30	-50	-50	-50	-50	-50
PFM000135	Lake Water	0.5	Surface	2003/01/15	4443	0.20	0.30	-50	-50	-50	-50	-50
PFM000062	Sea Water	3	Bottom	2002/10/21	4322	0.10	0.10	-50	-50	-50	-50	-50
PFM000062	Sea Water	0.5	Surface	2002/10/21	4333	-0.10	0.30	50	-50	50	-50	-50
PFM000063	Sea Water	4.5	Bottom	2002/10/21	4321	-	-	-50	-50	-50	-50	-50
PFM000063	Sea Water	0.5	Surface	2002/10/21	4324	-0.10	0.10	50	-50	50	-50	-50
PFM000063	Sea Water	0.5	Surface	2003/01/14	4445	0.10	0.60	-50	-50	-50	-50	-50
PFM000063	Sea Water	1	Bottom	2003/01/14	4450	0.40	0.60	-50	-50	-50	-50	-50
PFM000064	Sea Water	0.5	Surface	2002/10/21	4330	0.20	0.20	-50	-50	-50	-50	-50
PFM000064	Sea Water	1	Bottom	2002/10/21	4323	-0.10	0.10	100	-50	100	-50	100
PFM000065	Sea Water	0.5	Surface	2002/10/21	4325	0.10	0.10	-50	-50	-50	-50	-50
PFM000065	Sea Water	0.5	Surface	2003/01/13	4446	0.10	0.30	-50	-50	-50	-50	-50
PFM000082	Sea Water	0.5	Surface	2003/01/13	4438	0.10	0.30	-50	-50	-50	-50	-50
PFM000082	Sea Water	6.5	Bottom	2003/01/13	4439	0.40	0.60	-50	-50	-50	-50	-50

- = Zero value reported from lab, rejected
 Uranium and Thorium isotopes are given in *italic*, values are highly questionable, see chapter 5.3.4
 - "value" = result less than detection limit
 SICADA: isotopes_2, 020201-040401

List of data corrections

Table A10-1. List of data corrections performed in the database SICADA since the previous primary data report from the first year of surface water sampling /2/.

Sample no or time period	Corrections	Comment
4184, 4257, 4258	I	
4493	F	
4013, 4022, 4050, 4011, 4043	Br	
4788, 4774, 4827	Li	
4042–4063	NH4	Order of ten.
4000–4005	POP	Merged samples, not included in data compilation in Appendix 6.
4333	PON	
4038	–	Omitted in this report due to uncertain location of sampling point.
2002-10-21 and 2002-10-22	Table: Biochemistry supplements	
4641, 4938	SiO4_Si	
4227	Cd	
4225	Zn	Negative sign removed.

Furthermore, some doublet registrations (data rows) have been deleted and some detection limit notations have been changed.