# Description of the data

These data were collected during a monitoring campaign, lasting from 2014-10-14 to 2012-01-26.

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## Real-time data

*data\_realtime.csv* contains the real-time data of the nitrous oxide measurements and of the plant’s SCADA system. Each variable has a code ending with \_time to indicate the timestamps (format: yyyy-mm-dd hh:mm) and \_value to indicate that data values.

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| **CODE** | **DESCRIPTION** | **UNIT** |
| N2O\_PF\_1 | emission from plug flow reactor – sampling point 1 (MP6) |  |
| N2O\_PF\_2 | emission from plug flow reactor – sampling point 2 (MP7) |  |
| N2O\_CARR\_N | emission from northern carrousel reactor (MP4 – MP6) |  |
| N2O\_CARR\_S | emission from southern carrousel reactor (MP5 - MP7) |  |
| NH4\_AT | Ammonium concentration in plug flow reactor |  |
| NO3\_AT | Nitrate concentration in plug flow reactor |  |
| DO\_AT | Dissolved oxygen concentration in plug flow reactor |  |
| INFLUENT | Influent flow rate |  |
| NH4\_CARR\_N | Ammonium concentration in northern carrousel reactor |  |
| NO3\_CARR\_N | Nitrate concentration in northern carrousel reactor |  |
| NO2\_CARR\_N | Nitrite concentration in northern carrousel reactor |  |
| DO1\_CARR\_N | Dissolved oxygen concentration of sensor 1 in northern carrousel reactor |  |
| **CODE** | **DESCRIPTION** | **UNIT** |
| DO2\_CARR\_N | Dissolved oxygen concentration of sensor 1 in northern carrousel reactor |  |
| DO3\_CARR\_N | Dissolved oxygen concentration of sensor 1 in northern carrousel reactor |  |
| TEMP\_CARR\_N | Water temperature in northern carrousel |  |
| TSS\_CARR\_N | Total suspended solids in northern carrousel |  |
| NH4\_CARR\_S | Ammonium concentration in southern carrousel reactor |  |
| NO3\_CARR\_S | Nitrate concentration in southern carrousel reactor |  |
| DO1\_CARR\_S | Dissolved oxygen concentration of sensor 1 in southern carrousel reactor |  |
| DO2\_CARR\_S | Dissolved oxygen concentration of sensor 1 in southern carrousel reactor |  |
| DO3\_CARR\_S | Dissolved oxygen concentration of sensor 1 in southern carrousel reactor |  |
| TEMP\_CARR\_S | Water temperature in southern carrousel |  |
| TSS\_CARR\_S | Total suspended solids in southern carrousel |  |

## Laboratory data

These are the routine data provided by the water board. Concentration data result from 24h composite samples.