543371

Routine Calculations Report
In Support of Task 6 of AP-114

SNL-14 August 2005 Pumping Test Observation Well Data Processing Summary of Files

(AP-114: Analysis Plan for Evaluation and Recalibration of Culebra Transmissivity Fields, ERMS# 537208)

WBS 1.4.2.3

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SNL-14 August 2005 Pumping Test Observation Well Data Processing
Summary of Files

The miniTroll data files below were converted to MS EXCEL format using the EXCEL MACRO TROLLPROCESS.XLA.

miniTroll Raw .bin file name	Converted to EXCEL filename
SN12807 2004-12-16 104734 C-2737(C7).bin	C-2737(C7).xls
SN17333 2005-06-28 140000 C-2737(C8).bin	C-2737(C8).xls
SN17333 2005-07-27 120000 C-2737(C9).bin	C-2737(C9).xls
SN17333 2005-11-14 150000 C-2737(C10).bin	C-2737(C10).xls
SN04580 2005-3-22 150000 ERDA-9(C2).bin	ERDA-9(C).xls
SN04580 2005-11-15 110000 ERDA-9(C3).bin	ERDA-9(C1).xls
SN17386 2005-7-11 150000 H-3b2(C4).bin	H-3b2(C4).xls
SN17334 2005-7-11 110000 H-4b(C2).bin	H-4b(C2).xls
SN11025 2005-01-18 153659 H-9c(C7).bin	H-9c(C7).xls
SN11025 2005-11-23 100000 H-9c(C8).bin	H-9c(C8).xls
SN11231 2005-7-15 150000 H-11b4 (C2).bin	H-11b4(C2).xls
SN04558 2005-04-29 110000 H-12(C2).bin	H-12(C2).xls
SN07861 2005-07-18 100000 H-15(C14).bin	H-15(C14).xls
SN07861 2005-11-14 120000 H-15(C15).bin	H-15(C15).xls
SN18758 2005-4-28 120000 H-17(C1).bin	H-17(C1).xls
SN11358 2005-07-18 120000 H-19b0(C).bin	H-19b0(C).xls
SN13475 2005-11-15 120000 H-19b0(C1).bin	H-19b0(C1).xls
SN16771 2005-1-31 115614 SNL-12(C6).bin	SNL-12(C6).xls
SN18823 2005-6-15 150000 SNL-13(C1).bin	SNL-13(C1).xls

Compilation Table: Excel files were joined to create the compilations referenced in the table below.

Excel File Exported from miniTroll	Compilation File Name Created
C-2737(C7).xls	C-2737(C7-C10 Compilation).xls
C-2737(C8).xls	
C-2737(C9).xls	
C-2737(C10).xls	
ERDA-9(C).xls	ERDA-9(C2-C3 Compilation).xls
ERDA-9(C1).xls	
H-9c(C7).xls	H-9c(C7-C8).xls
H-9c(C8).xls	
H-15(C14).xls	H-15(C14-C15).xls
H-15(C15).xls	
H-19b0(C).xls	H-19b0(C-C1 Compilation).xls
H-19b0(C1).xls	

File clean up and data interval filtering

The time series of water levels for each observation well must be adjusted for:

- Data offsets (due to a change in Troll installation depth or Troll measurement shift) are most common when more than one Troll bin file must be "stitched" together in a compilation.

- Invalid data such as zero PSI measurements that often occur during miniTroll data downloads.

The time series must be filtered to remove off interval measurements. BETCO input must be at regular intervals.

Data offset adjustments and filtering are performed for each file below as follows:

C-2737(C7-C10 Compilation).xls

1. Measurements from 12/16/04 10:47:34 to 11:22:34 were deleted since they represent measurements during the Troll installation and not the installed depth.
2. The data were filtered so only measurements collected hourly are kept. This was done by adding a column starting at F40 to the end-of-file.
    a. The formula used for the records from the C7 file is: CELL=if(minute(B*)=47,1,0)
    b. The formula used for the records from the C8, C9, and C10 files is: CELL=if(minute(B*)=00,1,0)
3. The data were sorted using Filter Column(F) using the ascending method. All records with zero values in the F column were deleted.
4. Measurements from 11/14/05 15:00:00 to 11/15/05 08:00:00 were deleted since they represent measurements during the Troll installation and were not recorded at the installed depth.

ERDA-9(C2-C3 Compilation).xls

1. Worksheet PSI copied and named PSI adjusted in same workbook.
2. Measurements 11/10/2005 14:00:00 and 11/15/2005 11:00:00 deleted because of offsets caused by moving the Trolls.

Barometric and earth tide time series

The data from the above files range from as early as 12-16-2004 to as late as 1-6-2005. For noise-removal purposes, a barometric pressure and synthetic earth tide time series spanning this period are required.

Barometric Data file:

- A compilation of various barometric pressure (BP) records was assembled by Lauren Smith to create a continuous BP record at the WIPP site spanning 01/01/2003 to 01/06/2006. This continuous file is documented in RECORDS PACKAGE ERMS# 542309. The portion of data from 01/01/2005 to 01/06/2006 was saved to ContinuousBaro2005-2006.csv.

Earth Tide force synthetic data:

- A continuous record of synthetic earth tide forces was generated using TSOFT (Qualified code) following the user manual. The continuous record began 01/01/2004 and contained records every 1 hr for 65,000 records. The file is saved as: ET MODEL CENTER 1-1-04 to 1-1-11.csv.

The observation well data from H-3b2, H-4b, H-9c, H-11b4, H-15, H-17, and SNL-12 were not detrended either because detrending was not practical or because it was deemed unnecessary.

C-2737(C7-C10 Compilation).xls

The records in the C-2737(C7-C10 Compilation).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled C-2737(C7-C10 Compilation)WL and saved as a .csv file: C-2737(C7-C10 Compilation)WL.csv.

The files C-2737(C7-C10 Compilation)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for C-2737(C7-C10 Compilation). The output was saved as C-2737(C7-C10 Compilation)WLBPET.csv.

C-2737(C7-C10 Compilation)WLBPET.csv was saved as a .xls file for input into BETCO as C-2737(C7-C10 Compilation)WLBPET.xls C-2737(C7-C10 Compilation)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 12 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file C-2737(C7-C10 Compilation)WLBPET Corrected.xls. The corrected data and timestamp are highlighted in yellow. The data were then detrended to compensate for a rising trend of approximately 0.131 psi/40.5 days. Column K, "Detrended", was calculated using the formula K# = (I#-(H#-H2)*(0.131/40.5)). Column K was highlighted in Magenta. This file was saved as C-2737(C7-C10 Compilation)WLBPET Corrected detrended.xls. The data from C-2737(C7-C10 Compilation)WLBPET Corrected detrended.xls were copied into a new sheet named C-2737 in SNL-14 OBS Well Responses Summaries.xls.

ERDA-9(C2-C3 Compilation).xls

The records in the ERDA-9(C2-C3 Compilation).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled ERDA-9(C2-C3 Compilation)WL and saved as a .csv file: ERDA-9(C2-C3 Compilation)WL.csv.

The files ERDA-9(C2-C3 Compilation)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for ERDA-9(C2-C3 Compilation). The output was saved as ERDA-9(C2-C3 Compilation)WLBPET.csv.

ERDA-9(C2-C3 Compilation)WLBPET.csv was saved as a .xls file for input into BETCO as ERDA-9(C2-C3 Compilation)WLBPET.xls. ERDA-9(C2-C3 Compilation)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 48 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file ERDA-9(C2-C3 Compilation)WLBPET Corrected.xls. The corrected data and timestamp are highlighted in yellow. The data were then detrended to compensate for a rising trend of approximately 0.297 psi/57.709 days. Column J, "Detrended", was calculated using the formula J# = (I#-(H#-H2)*(0.297/57.709)). Column J was highlighted in Magenta. This file was saved as ERDA-9(C2-C3 Compilation)WLBPET Corrected detrended.xls. The data from ERDA-9(C2-C3 Compilation)WLBPET Corrected detrended.xls was copied into a new sheet named ERDA-9 in SNL-14 OBS Well Responses Summaries.xls.

H-3b2(C4).xls

The records in the H-3b2(C4).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled H-3B2(C4)WL and saved as a .csv file: H-3B2(C4)WL.csv.

The files H-3b2(C4)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for H-3b2(C4). The output was saved as H-3b2(C4)WLBPET.csv.

H-3b2(C4)WLBPET.csv was saved as a .xls file for input into BETCO as H-3b2(C4)WLBPET.xls. H-3b2(C4)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 12 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file H-3b2(C4)WLBPET Corrected.xls. The corrected data and timestamp are highlighted in yellow. The data from H-3b2(C4)WLBPET Corrected.xls were copied into a new sheet named H-3b2 in SNL-14 OBS Well Responses Summaries.xls.

H-4b(C2).xls

The records in the H-4b(C2).xls file were filtered so off-hour measurements were discarded. The records from 7/11/2005 11:00 to 7/16/2005 00:00 were deleted, because they represent recovery from well maintenance. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled H-4B(C2)WL and saved as a .csv file: H-4B(C2)WL.csv.

The files H-4b(C2)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for H-4b(C2). The output was saved as H-4b(C2)WLBPET.csv.

H-4b(C2)WLBPET.csv was saved as a .xls file for input into BETCO as H-4b(C2)WLBPET.xls. H-4b(C2)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 31 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file H-4b(C2)WLBPET Corrected.xls. The corrected data and timestamp are highlighted in yellow. The data from H-4b(C2)WLBPET Corrected.xls were copied to a new worksheet named H-4b in SNL-14 OBS Well Responses Summaries.xls.

H-9c(C7-C8 Compilation).xls

The records in the H-9C(C7-C8 COMPILATION).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled H-9C(C7-C8 COMPILATION)WL and saved as a .csv file: H-9C(C7-C8 COMPILATION)WL.csv.

The files H-9C(C7-C8 COMPILATION)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for H-9C(C7-C8 COMPILATION). The output was saved as H-9C(C7-C8 COMPILATION)WLBPET.csv.

H-9C(C7-C8 COMPILATION)WLBPET.csv was saved as a .xls file for input into BETCO as H-9C(C7-C8 COMPILATION)WLBPET.xls. H-9C(C7-C8 COMPILATION)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 11 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file H-9C(C7-C8 COMPILATION)WLBPET Corrected.xls. The corrected data and

timestamp are highlighted in yellow. The data from H-9C(C7-C8 COMPILATION)WLBPET Corrected.xls were copied to a new worksheet named H-9c in SNL-14 OBS Well Responses Summaries.xls.

H-11b4(C2).xls

The records in the H-11B4(C2).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled H-11B4(C2)WL and saved as a .csv file: H-11B4(C2)WL.csv.

The files H-11B4(C2)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for H-11B4(C2). The output was saved as H-11B4(C2)WLBPET.csv.

H-11B4(C2)WLBPET.csv was saved as a .xls file for input into BETCO as H-11B4(C2)WLBPET.xls. H-11B4(C2)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 18 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file H-11B4(C2)WLBPET Corrected.xls. The corrected data and timestamp are highlighted in yellow. The data from H-11B4(C2)WLBPET Corrected.xls were copied to a new worksheet named H-11b4 in SNL-14 OBS Well Responses Summaries.xls.

H-12(C2).xls

The records in the H-12(C2).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled H-12(C2)WL and saved as a .csv file: H-12(C2)WL.csv.

The files H-12(C2)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for H-17(C1). The output was saved as H-12(C2)WLBPET.csv.

H-12(C2)WLBPET.csv was saved as a .xls file for input into BETCO as H-12(C2)WLBPET.xls. All the records prior to 5/16/05 0100 were removed because they represented recovery data from well maintenance, and the file was resaved as H-12(C2)WLBPET truncated.xls. H-12(C2)WLBPET truncated.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 48 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file H-12(C2)WLBPET truncated Corrected.xls. The corrected data and timestamp are highlighted in yellow. The data were then detrended to compensate for a rising trend of approximately 0.158 psi/33.46 days. Column J, "Detrended", was calculated using the formula J# = (I#-(H#-H2)*(0.158/33.46)). Column J was highlighted in Magenta. This file was saved as H-12(C2)WLBPET Corrected detrended.xls. The data from H-12(C2)WLBPET truncated Corrected detrended.xls were copied into a new sheet named H-12 in SNL-14 OBS Well Responses Summaries.xls.

H-15(C14-C15 Compilation).xls

The records in the H-15(C14-C15 COMPILATION).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled H-15(C14-C15 COMPILATION)WL and saved as a .csv file: H-15(C14-C15 COMPILATION)WL.csv.

The files H-15(C14-C15 COMPILATION)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for H-15(C14-C15 COMPILATION). The output was saved as H-15(C14-C15 COMPILATION)WLBPET.csv.

H-15(C14-C15 COMPILATION)WLBPET.csv was saved as a .xls file for input into BETCO as H-15(C14-C15 COMPILATION)WLBPET.xls. Records after 10/15/05 were truncated off the file H-15(C14-C15 COMPILATION)WLBPET.xls due to miniTroll errors caused by an unknown animal eating the cable. H-15(C14-C15 COMPILATION)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 12 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file H-15(C14-C15 Compilation)WLBPET corrected truncated.xls. The corrected data and timestamp are highlighted in yellow. The data from H-15(C14-C15 Compilation)WLBPET were copied to a new worksheet named H-15 in SNL-14 OBS Well Responses Summaries.xls.

H-17(C1).xls

The records in the H-17(C1).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled H-17(C1)WL and saved as a .csv file: H-17(C1)WL.csv.

The files H-17(C1)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for H-17(C1). The output was saved as H-17(C1)WLBPET.csv.

H-17(C1)WLBPET.csv was saved as a .xls file for input into BETCO as H-17(C1)WLBPET.xls. H-17(C1)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 48 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file H-17(C1)WLBPET Corrected.xls. The corrected data and timestamp are highlighted in yellow. The data from H-17(C1)WLBPET Corrected.xls were copied to a new worksheet named H-17 in SNL-14 OBS Well Responses Summaries.xls.

H-19b0(C-C1).xls

The H-19b0 data is a compilation. The H-19b0(C) data were collected with an absolute pressure transducer while the H-19b0(C1) data were collected with a gauge pressure transducer. As such, the H-19b0 data for the SNL-14 ~20 day test must be corrected in segments.

H-19b0(C).xls

The records in the H-19b0(C).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled H-19b0(C).xls WL and saved as a .csv file: H-19b0(C)WL.csv.

The files H-19b0(C)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for H-19b0(C). The output was saved as H-19b0(C)WLBPET.csv.

H-19b0(C)WLBPET.csv was saved as a .xls file for input into BETCO as H-19b0(C)WLBPET.xls. H-19b0(C)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 14 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file H-19b0(C)WLBPET Corrected.xls. The corrected data and timestamp are highlighted in yellow.

H-19b0(C1).xls

The records in the H-19b0(C1).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled H-19b0(C1).xls WL and saved as a .csv file: H-19b0(C1)WL.csv.

The files H-19b0(C1)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for H-19b0(C1). The output was saved as H-19b0(C1)WLBPET.csv.

H-19b0(C1)WLBPET.csv was saved as a .xls file for input into BETCO as H-19b0(C1)WLBPET.xls. H-19b0(C1)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 14 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file H-19b0(C1)WLBPET Corrected.xls. The corrected data and timestamp are highlighted in yellow.

The corrected data sets from H-19b0(C)WLBPET Corrected.xls and H-19b0(C1)WLBPET Corrected.xls were stitched together in H-19b0(CtoC1)WLBPET Corrected.xls. There is a slight offset of -0.319719 PSI between the H-19b0(C) dataset and the H-19b0(C1) dataset. The offset was corrected by creating a Corrected PSI shifted column in H-19b0(CtoC1)WLBPET Corrected.xls. The first 2880 rows of the Corrected PSI Shifted column were created using the formula K*=J*. The remaining records were created using the formula K*=J*+0.31979 to offset the data in the C1 dataset. All corrected data are saved in H-19b0(CtoC1)WLBPET Corrected.xls. The data were then detrended to compensate for a rising trend of approximately 0.0704 psi/11.21 days. Column L, "Detrended", was calculated using the formula L# = (K#-(I#-I2)*(0.704/11.21)). This file was saved as H-19b0(CtoC1)WLBPET Corrected detrended.xls. The data from H-19b0(CtoC1)WLBPET Corrected detrended.xls were copied to a new worksheet named H-19b0 in SNL-14 OBS Well Responses Summaries.xls.

SNL-12(C6).xls

The records in the SNL-12(C6).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled SNL-12(C6)WL and saved as a .csv file: SNL-12(C6)WL.csv.

The files SNL-12(C6)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to

match the barometric pressure and earth tide records to the pressure head data for SNL-12(C6). The output was saved as SNL-12(C6)WLBPET.csv.

SNL-12(C6)WLBPET.csv was saved as a .xls file for input into BETCO as SNL-12(C6)WLBPET.xls. SNL-12(C6)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 17 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file SNL-12(C6)WLBPET Corrected.xls. The corrected data and timestamp are highlighted in yellow. The data from SNL-12(C6)WLBPET Corrected.xls were copied to a new worksheet named SNL-12 in SNL-14 OBS Well Responses Summaries.xls.

SNL-13(C1).xls

The records in the SNL-13(C1).xls file were filtered so off-hour measurements were discarded. The filtered records were copied to a new worksheet in the same workbook. The worksheet was titled SNL-13(C1)WL and saved as a .csv file: SNL-13(C1)WL.csv.

The files SNL-13(C1)WL.csv, ContinuousBaro2005-2006.csv, ET MODEL CENTER 1-1-04 to 1-1-11.csv were loaded in the utility matchrecords.exe to match the barometric pressure and earth tide records to the pressure head data for SNL-13(C1). The output was saved as SNL-13(C1)WLBPET.csv.

SNL-13(C1)WLBPET.csv was saved as a .xls file for input into BETCO as SNL-13(C1)WLBPET.xls. SNL-13(C1)WLBPET.xls was read into BETCO and corrected per the BETCO user manual directions. The BP and ET effects were removed using a lag time of 42 hours and a differencing interval of 1.

The corrected pressure heads were saved along with the input data in the file SNL-13(C1)WLBPET corrected.xls. The corrected data and timestamp are highlighted in yellow in columns H and I. The data from 10/12/05 08:00 onward were corrected by subtracting 0.04 psi to compensate for a step offset in the data, and placed in the column (J) "Offset corrected". The data were then detrended to compensate for a rising trend of approximately 0.28 psi/210 days. Column K, "Detrended", was calculated using the formula K# = (J#-(H#-H2)*(0.28/210)). This file was saved as SNL-13(C1)WLBPET corrected detrended.xls. The data from SNL-13(C1)WLBPET corrected detrended.xls were copied to a new worksheet named SNL-13 in SNL-14 OBS Well Responses Summaries.xls.

Calculation of Freshwater Heads

The changes in meters of freshwater head for each observation well were calculated in file SNL-14 OBS Well Response Summaries.xls using the following procedure:

- Column M shows the date and time of each data point. These data were copied from Column A (decimal days) to Column M and formatted in custom format to show mm/dd/yy hh:mm.
- Column N calculates the feet of fresh water head using the pressure data. This was done by multiplying the data that were corrected for barometric and earth tides, and detrended where applicable, by 2.31 to derive the approximate feet of freshwater above the Troll. (Formula = pressure * 2.31).
- Column O calculates the meters of fresh water head by multiplying the feet of fresh water head in Column N by .3048 (Formula = Column N * .3048)
- Column P calculates the change in fresh water head in meters by subtracting each of the values in column O from the value in column O at 08/04/05 14:00, the start of the SNL-14 pumping test (Formula = Column O – Column O at 8/4/05 14:00).

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Troll Processing Macro

Private Sub ProcessRAW_Click()

Dim FileName As String
    Dim lRealLastRow As Long
        Range("A1").Select
      On Error Resume Next
        lRealLastRow = Cells.Find("*", Range("A1"), xlFormulas, , xlByRows, _
                                                  xlPrevious).Row

        lRealLastRow = lRealLastRow - 1

    Sheets(1).Select
    Sheets(1).Name = "PSI"

HashRow = Cells.Find("--------", Range("A1"), xlFormulas, , xlByRows, _
                                                  xlPrevious).Row

'Paste for Sec to Minutes

    ActiveWindow.SmallScroll Down:=15
    Rows(HashRow & ":" & HashRow).Select
    Selection.Delete Shift:=xlUp
    Range("F" & HashRow).Select
    ActiveCell.FormulaR1C1 = "=RC[-3]/60"
    Range("F" & HashRow).Select
    Selection.Copy
    Range("F" & HashRow & ":F" & lRealLastRow).Select
    ActiveSheet.Paste

    Range("F" & HashRow).Select
    Range(Selection, Selection.End(xlDown)).Select
    Application.CutCopyMode = False
    Selection.Copy
    Selection.End(xlUp).Select
    Range("C" & HashRow).Select
    Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks
_
        :=False, Transpose:=False


'Add Bin File name to fields

    Range("C" & HashRow - 1).Select
    Application.CutCopyMode = False
    ActiveCell.FormulaR1C1 = "  ET (days)"
    Columns("F:F").Select
    Selection.ClearContents
    Range("F" & HashRow - 1).Select
    ActiveCell.FormulaR1C1 = "BINFILE"
    Range("B4").Select
    Selection.Copy
    Range("F" & HashRow).Select
    ActiveSheet.Paste
    Range("F" & HashRow).Select
    Selection.Copy
    Range("E" & HashRow).Select
    Selection.End(xlDown).Select
    Range("F" & lRealLastRow).Select
    Range(Selection, Selection.End(xlUp)).Select
    ActiveSheet.Paste
```

```
'Delete Temp Field

    Columns("D:D").Select
    Selection.Delete Shift:=xlToLeft

    FileName = Range("B4").Value

Range("C" & HashRow).Select
    ActiveCell.FormulaR1C1 = "=RC[-2]+RC[-1]"
    Range("C" & HashRow).Select
    Selection.AutoFill Destination:=Range("C" & HashRow & ":C" & lRealLastRow)
    Range("C" & HashRow & ":C" & lRealLastRow).Select
    Selection.NumberFormat = "0.000"
    Range("C" & HashRow - 1).Select
    ActiveCell.FormulaR1C1 = "  ET (Days)"
    Range("C" & HashRow).Select

Range("F" & HashRow - 1).Select
    ActiveCell.FormulaR1C1 = "Time Elapsed (MIN)"
    Range("F" & HashRow).Select
    ActiveCell.FormulaR1C1 = "0"
    Range("F" & HashRow + 1).Select
    ActiveCell.FormulaR1C1 = "=(RC[-3]-R41C3)*1440"
    Range("F" & HashRow + 1).Select
    Selection.AutoFill Destination:=Range("F" & (HashRow + 1) & ":F" &
lRealLastRow)

    Range("C" & (HashRow - 1) & ":D" & lRealLastRow).Select
    Selection.Copy
    Sheets.Add
    Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks
_
        :=False, Transpose:=False
    Sheets("Sheet1").Select
    Sheets("Sheet1").Name = "PSIOUT"
    Rows("1:1").Select
    Application.CutCopyMode = False
    Selection.Delete Shift:=xlUp


'Chart

    Range("C" & (HashRow - 1) & "39:D" & lRealLastRow).Select
    Charts.Add
    ActiveChart.ChartType = xlXYScatter
    ActiveChart.SetSourceData Source:=Sheets("PSI").Range("C" & (HashRow - 1) &
":D" & lRealLastRow), PlotBy _
        :=xlColumns
    ActiveChart.Location Where:=xlLocationAsNewSheet

    With ActiveChart
        .HasTitle = True
        .ChartTitle.Characters.Text = "PSI for " & FileName
        .Axes(xlCategory, xlPrimary).HasTitle = True
        .Axes(xlCategory, xlPrimary).AxisTitle.Characters.Text = "Time
Elapsed(min)"
        .Axes(xlValue, xlPrimary).HasTitle = True
        .Axes(xlValue, xlPrimary).AxisTitle.Characters.Text = "PSI"
    End With

    Charts(1).Select
    Charts(1).Name = "PSI Chart"
End Sub
```

Source Code for MatchRecords routine sorting algorithm…

```
//---------------------------------------------------------------------------

#include <vcl.h>
#pragma hdrstop

#include "Unit1.h"
#include <fstream.h>
#include <string.h>
#include <iostream.h>
#include <iomanip.h>
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
//---------------------------------------------------------------------------
#pragma package(smart_init)
#pragma resource "*.dfm"
TMatchRecords *MatchRecords;
//---------------------------------------------------------------------------
__fastcall TMatchRecords::TMatchRecords(TComponent* Owner)
        : TForm(Owner)
{
}
//---------------------------------------------------------------------------
AnsiString filename;

double *dataWLTime;
double *dataWL;
double *dataBPTime;
double *dataBP;
double *dataETTime;
double *dataET;

double *matchBPTime;
double *matchBP;
double *matchETTime;
double *matchET;

int wlrecords;
int bprecords;
int etrecords;

//---------------------------------------------------------------------------
void __fastcall TMatchRecords::PheadClick(TObject *Sender)
{

     char * str;
     filename = NULL;
     if(OpenDialog1->Execute()){        //open dialog to select raw data file
CSV format
       filename = OpenDialog1->FileName;//get filename from the dialog
       str = filename.c_str ();         //converts AnsiString filename to char
array

      if(filename == NULL){
        MessageDlg("No file selected!!!", mtWarning, TMsgDlgButtons() << mbOK,
0);
        }
        else{

//ReadIn Pressure Head Arrays from .csv file
```

```
     ifstream file;   //instan file stream as file to read in CSV data

     file.open(str);  //opens file selected in file open dialog

     int lineCounter = 0;   //counter for lines in raw file
     char str1[300];        //char array for line counter loop
        while (!file.eof()) //loop to count records in raw data file
         {
          file.getline(str1,300);
          lineCounter++;
         }

        String t1= lineCounter-1;


        file.clear();
        file.seekg(0, ios::beg);

     char wltime[20];
     char wl[20];



     wlrecords = lineCounter-2;

      dataWLTime= new double[wlrecords]; //array to hold time values of raw
file
      dataWL=   new double[wlrecords]; //array to hold Water.L values of raw
file

     for(int i=0; i<wlrecords;i++)
        {
         file.getline(wltime, 20, ','); //read thru pipe
         file.getline(wl, 20);   //read thru pipe
         dataWLTime[i]= atof(wltime);
         dataWL[i]= atof(wl);
        }



        file.clear();
        file.close();
        filename=NULL;


      }
    }
  }


//---------------------------------------------------------------------------
void __fastcall TMatchRecords::BaroClick(TObject *Sender)
{
  char * str;
     filename = NULL;
     if(OpenDialog1->Execute()){        //open dialog to select raw data file
CSV format
       filename = OpenDialog1->FileName;//get filename from the dialog
       str = filename.c_str ();        //converts AnsiString filename to char
array
```

```
      if(filename == NULL){
        MessageDlg("No file selected!!!", mtWarning, TMsgDlgButtons() << mbOK,
0);
        }
        else{
//ReadIn Baro Arrays from .csv file

     ifstream file;   //instan file stream as file to read in CSV data

     file.open(str);  //opens file selected in file open dialog

     int lineCounter = 0;   //counter for lines in raw file
     char str1[300];        //char array for line counter loop
        while (!file.eof()) //loop to count records in raw data file
         {
          file.getline(str1,300);
          lineCounter++;
         }

        file.clear();
        file.seekg(0, ios::beg);

     char bptime[20];
     char bp[20];

     bprecords = lineCounter-2;

      dataBPTime= new double[bprecords]; //array to hold BPtime values of raw
file
      dataBP=   new double[bprecords]; //array to hold BP values of raw file

     for(int i=0; i<bprecords;i++)
        {
         file.getline(bptime, 20, ','); //read thru pipe
         file.getline(bp, 20);   //read thru pipe
         dataBPTime[i]= atof(bptime);
         dataBP[i]= atof(bp);
        }

        file.clear();
        file.close();
        filename=NULL;
      }
   }
}
//---------------------------------------------------------------------------
void __fastcall TMatchRecords::EarthTClick(TObject *Sender)
{
  char * str;
     filename = NULL;
     if(OpenDialog1->Execute()){        //open dialog to select raw data file
CSV format
       filename = OpenDialog1->FileName;//get filename from the dialog
       str = filename.c_str ();        //converts AnsiString filename to char
array

      if(filename == NULL){
        MessageDlg("No file selected!!!", mtWarning, TMsgDlgButtons() << mbOK,
0);
        }
        else{
//ReadIn Earth Tide Arrays from .csv file
```

```
      ifstream file;   //instan file stream as file to read in CSV data

      file.open(str);  //opens file selected in file open dialog

      int lineCounter = 0;   //counter for lines in raw file
      char str1[300];        //char array for line counter loop
         while (!file.eof()) //loop to count records in raw data file
          {
           file.getline(str1,300);
           lineCounter++;
          }

         file.clear();
         file.seekg(0, ios::beg);

      char ettime[20];
      char et[20];

      etrecords = lineCounter-2;

       dataETTime= new double[etrecords]; //array to hold ETtime values of raw
file
       dataET=   new double[etrecords]; //array to hold ET values of raw file

      for(int i=0; i<etrecords;i++)
         {
          file.getline(ettime, 20, ','); //read thru pipe
          file.getline(et, 20);   //read thru pipe
          dataETTime[i]= atof(ettime);
          dataET[i]= atof(et);
         }

         file.clear();
         file.close();
         filename=NULL;
       }
    }
}
//---------------------------------------------------------------------------
void __fastcall TMatchRecords::ExecuteClick(TObject *Sender)
{

double matchCri=999990.9;
double test;

matchBPTime= new double[wlrecords];
matchBP= new double[wlrecords];
matchETTime= new double[wlrecords];
matchET= new double[wlrecords];

for(int i=0; i<wlrecords; i++){
        matchCri=999999.9;
        for(int j=0; j<bprecords; j++){
            test=fabs(dataWLTime[i]-dataBPTime[j]);
            if(test<matchCri){
                matchBPTime[i]=dataBPTime[j];
                matchBP[i]=dataBP[j];
                matchCri=test;
                   }
                }

        matchCri=999999.9;
        for(int k=0; k<bprecords; k++){
```

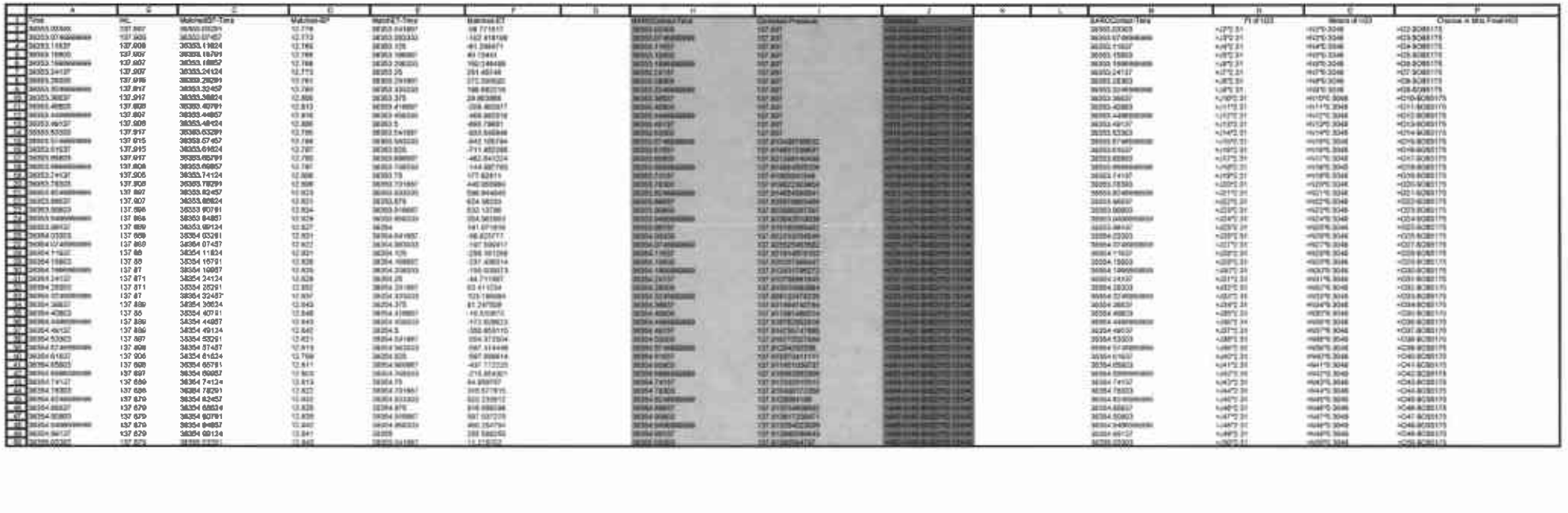
```
            test=fabs(dataWLTime[i]-dataETTime[k]);
            if(test<matchCri){
                matchETTime[i]=dataETTime[k];
                matchET[i]=dataET[k];
                matchCri=test;
                   }
                }
       }
}
//---------------------------------------------------------------------------

void __fastcall TMatchRecords::SaveClick(TObject *Sender)
{
if(SaveDialog1->Execute()){      //open dialog to save data file CSV format
     filename = SaveDialog1->FileName; //get filename from the dialog
     char * str = filename.c_str ();//converts AnsiString filename to char
array
     double temp;

   if(filename.IsEmpty()){
      MessageDlg("No file selected!!!", mtWarning, TMsgDlgButtons() << mbOK,
0);
        }
        else{

           ofstream fout(str, ios::out);
                fout << fixed;
                fout << "Time,WL,MatchedBP-Time,Matched-BP,MatchET-
Time,Matched-ET" << "\n";
                for(int i=0; i<wlrecords; i++){    //write data
                   fout << dataWLTime[i] << "," << dataWL[i] << "," <<
matchBPTime[i] << "," << matchBP[i] << "," << matchETTime[i] << "," <<
matchET[i] <<"\n";
                        }
                fout.clear();
                fout.close();
            }
      }
}
//---------------------------------------------------------------------------
```

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure	Detrended			BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	38353.03303	137.907	38353.03291	12.776	38353.04167	-58.771517		38353.03303	137.907	137.907			1/1/2005 0:47	318.56517	97.09866382	0.178371828
3	38353.0747	137.906	38353.07457	12.773	38353.08333	-102.419109		38353.0747	137.907	137.9068852			1/1/2005 1:47	318.5648586	97.09856892	0.178276928
4	38353.11637	137.906	38353.11624	12.769	38353.125	-61.288471		38353.11637	137.907	137.9067304			1/1/2005 2:47	318.5645473	97.09847402	0.178182028
5	38353.15803	137.907	38353.15791	12.769	38353.16667	40.13441		38353.15803	137.907	137.9065857			1/1/2005 3:47	318.564236	97.09837914	0.178087151
6	38353.1997	137.907	38353.19957	12.768	38353.20833	160.248499		38353.1997	137.907	137.9064009			1/1/2005 4:47	318.5639247	97.09828424	0.17799225
7	38353.24137	137.907	38353.24124	12.773	38353.25	251.45746		38353.24137	137.907	137.9063161			1/1/2005 5:47	318.5636133	97.09818934	0.17789735
8	38353.28303	137.915	38353.28291	12.781	38353.29167	272.395592		38353.28303	137.907	137.9061014			1/1/2005 6:47	318.563302	97.09809446	0.177802473
9	38353.3247	137.917	38353.32457	12.793	38353.33333	198.682216		38353.3247	137.907	137.9060566			1/1/2005 7:47	318.5629907	97.09799956	0.177707573
10	38353.36637	137.917	38353.36624	12.806	38353.375	29.953866		38353.36637	137.907	137.9059218			1/1/2005 8:47	318.5626793	97.09790466	0.177612673
11	38353.40803	137.906	38353.40791	12.813	38353.41667	-208.463977		38353.40803	137.907	137.905787			1/1/2005 9:47	318.5623681	97.09780978	0.177517795
12	38353.4497	137.907	38353.44957	12.816	38353.45833	-469.982518		38353.4497	137.907	137.9056523			1/1/2005 10:47	318.5620567	97.09771488	0.177422895
13	38353.49137	137.906	38353.49124	12.806	38353.5	-696.79661		38353.49137	137.907	137.9055175			1/1/2005 11:47	318.5617454	97.09761998	0.177327995
14	38353.53303	137.917	38353.53291	12.795	38353.54167	-833.649848		38353.53303	137.907	137.9053827			1/1/2005 12:47	318.5614341	97.09752511	0.177233118
15	38353.5747	137.915	38353.57457	12.788	38353.58333	-842.105794		38353.5747	137.9134988	137.9117467			1/1/2005 13:47	318.5761349	97.10200592	0.181713935
16	38353.61637	137.915	38353.61624	12.787	38353.625	-711.452285		38353.61637	137.9148512	137.9128644			1/1/2005 14:47	318.5789477	97.10286327	0.18257128
17	38353.65803	137.917	38353.65791	12.793	38353.66667	-462.841224		38353.65803	137.9213981	137.9193765			1/1/2005 15:47	318.5937598	97.10737799	0.187085998
18	38353.6997	137.906	38353.69957	12.797	38353.70833	-144.997763		38353.6997	137.9148646	137.9127082			1/1/2005 16:47	318.5783559	97.10268287	0.182390886
19	38353.74137	137.906	38353.74124	12.806	38353.75	177.62811		38353.74137	137.9190504	137.9167502			1/1/2005 17:47	318.5877138	97.10553518	0.185243193
20	38353.78303	137.906	38353.78291	12.806	38353.79167	440.956989		38353.78303	137.9196223	137.9171964			1/1/2005 18:47	318.5887236	97.10584296	0.185550975
21	38353.8247	137.897	38353.82457	12.823	38353.83333	596.944045		38353.8247	137.9146546	137.9120039			1/1/2005 19:47	318.5769369	97.10225035	0.181958367
22	38353.86637	137.907	38353.86624	12.821	38353.875	624.38233		38353.86637	137.9255799	137.9228844			1/1/2005 20:47	318.601863	97.10984784	0.18955585
23	38353.90803	137.898	38353.90791	12.834	38353.91667	532.13786		38353.90803	137.9205863	137.917758			1/1/2005 21:47	318.5900164	97.106237	0.185945013
24	38353.9497	137.888	38353.94957	12.829	38353.95833	354.562803		38353.9497	137.9130435	137.9100785			1/1/2005 22:47	318.5722813	97.10083134	0.180539354
25	38353.99137	137.889	38353.99124	12.827	38354	141.071616		38353.99137	137.9161621	137.9130023			1/1/2005 23:47	318.5791738	97.10293218	0.182640188
26	38354.03303	137.889	38354.03291	12.831	38354.04167	-56.825777		38354.03303	137.9222337	137.9188981			1/2/2005 0:47	318.592888	97.10711226	0.186820276
27	38354.0747	137.889	38354.07457	12.822	38354.08333	-197.590417		38354.0747	137.9255255	137.9221561			1/2/2005 1:47	318.6001806	97.10933505	0.189043064
28	38354.11637	137.88	38354.11624	12.831	38354.125	-258.161268		38354.11637	137.9218147	137.9183105			1/2/2005 2:47	318.5912973	97.10662743	0.186335443
29	38354.15803	137.88	38354.15791	12.828	38354.16667	-237.496314		38354.15803	137.9252576	137.9216187			1/2/2005 3:47	318.5989391	97.10895665	0.188664665
30	38354.1997	137.87	38354.19957	12.825	38354.20833	-155.005073		38354.1997	137.9124318	137.9086581			1/2/2005 4:47	318.5690003	97.09983128	0.179539293
31	38354.24137	137.871	38354.24124	12.828	38354.25	-44.711007		38354.24137	137.910789	137.9068806			1/2/2005 5:47	318.564894	97.09857969	0.178287707
32	38354.28303	137.871	38354.28291	12.852	38354.29167	53.411234		38354.28303	137.9156109	137.9115577			1/2/2005 6:47	318.5757214	97.10187987	0.18158788
33	38354.3247	137.87	38354.32457	12.837	38354.33333	103.186894		38354.3247	137.9081335	137.9038555			1/2/2005 7:47	318.5581372	97.09652021	0.176228221
34	38354.36637	137.889	38354.36624	12.843	38354.375	81.247509		38354.36637	137.9214547	137.917142			1/2/2005 8:47	318.5885979	97.10580465	0.185512662
35	38354.40803	137.88	38354.40791	12.849	38354.41667	-16.510673		38354.40803	137.9110915	137.9066439			1/2/2005 9:47	318.5643475	97.09841312	0.17812113
36	38354.4497	137.889	38354.44957	12.843	38354.45833	-172.609623		38354.4497	137.9167626	137.9121803			1/2/2005 10:47	318.5771365	97.10231119	0.182019206
37	38354.49137	137.889	38354.49124	12.842	38354.5	-350.853115		38354.49137	137.9147557	137.9100386			1/2/2005 11:47	318.5721893	97.10080329	0.180511304
38	38354.53303	137.897	38354.53291	12.821	38354.54167	-504.372504		38354.53303	137.9167755	137.9118237			1/2/2005 12:47	318.5765437	97.10213052	0.181838529
39	38354.5747	137.898	38354.57457	12.813	38354.58333	-587.414448		38354.5747	137.9126425	137.9076559			1/2/2005 13:47	318.5666851	97.09912562	0.178833632
40	38354.61637	137.906	38354.61624	12.789	38354.625	-567.996614		38354.61637	137.9133734	137.908252			1/2/2005 14:47	318.5680621	97.09954533	0.179253339
41	38354.65803	137.898	38354.65791	12.811	38354.66667	-437.772225		38354.65803	137.9114511	137.9061949			1/2/2005 15:47	318.5633102	97.09809694	0.177804957
42	38354.6997	137.897	38354.69957	12.803	38354.70833	-215.854301		38354.6997	137.9156639	137.9102729			1/2/2005 16:47	318.5727305	97.10096825	0.180676262
43	38354.74137	137.889	38354.74124	12.813	38354.75	54.958767		38354.74137	137.9122025	137.9066758			1/2/2005 17:47	318.5644233	97.09843624	0.178144248
44	38354.78303	137.888	38354.78291	12.822	38354.79167	318.677815		38354.78303	137.9164002	137.9107297			1/2/2005 18:47	318.5738087	97.10129688	0.181004891
45	38354.8247	137.879	38354.82457	12.832	38354.83333	520.233812		38354.8247	137.9128064	137.9070111			1/2/2005 19:47	318.5651957	97.09867165	0.178379666
46	38354.86637	137.879	38354.86624	12.835	38354.875	618.999288		38354.86637	137.9132348	137.9073048			1/2/2005 20:47	318.5658735	97.09887824	0.178586255
47	38354.90803	137.879	38354.90791	12.839	38354.91667	597.937279		38354.90803	137.9138173	137.9077524			1/2/2005 21:47	318.5669081	97.0991936	0.178901613
48	38354.9497	137.879	38354.94957	12.842	38354.95833	466.254794		38354.9497	137.913354	137.9071544			1/2/2005 22:47	318.5655267	97.09877254	0.178480556
49	38354.99137	137.879	38354.99124	12.841	38355	255.560255		38354.99137	137.9138693	137.9076349			1/2/2005 23:47	318.5664056	97.09904043	0.178748447
50	38355.03303	137.879	38355.03291	12.843	38355.04167	11.276702		38355.03303	137.9159059	137.9094308			1/3/2005 0:47	318.570799	97.10037955	0.180087558



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure	Datum(ed			BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
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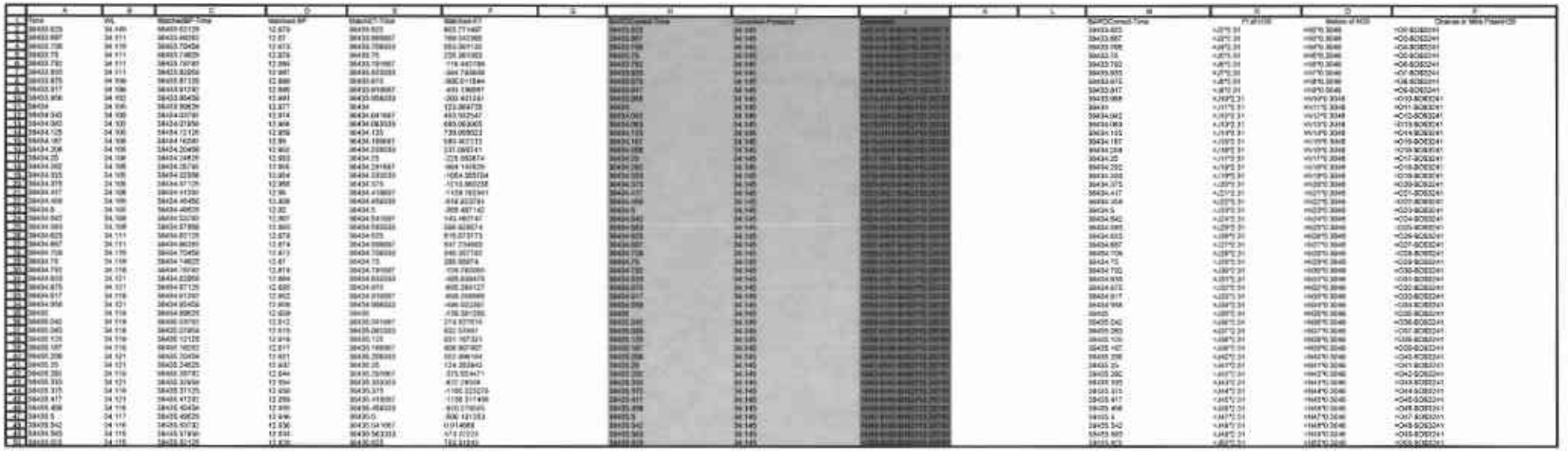
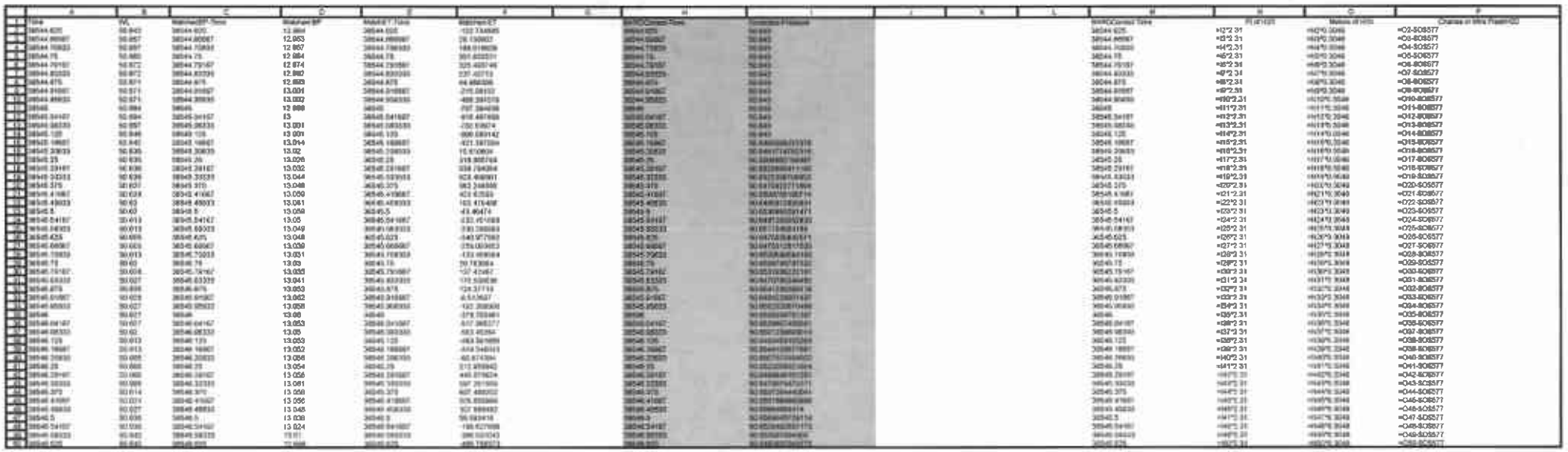
3	38433.667	34.111	38433.66292	12.97	38433.66667	769.042395		38433.667	34.145	34.14478385			3/22/2005 16:00	78.87445069	24.04093257	-0.207957988
4	38433.708	34.115	38433.70458	12.973	38433.70833	553.561132		38433.708	34.145	34.14457284			3/22/2005 16:59	78.87396326	24.040784	-0.208106556
5	38433.75	34.111	38433.74625	12.978	38433.75	226.261053		38433.75	34.145	34.14435689			3/22/2005 18:00	78.87346394	24.04063181	-0.208258747
6	38433.792	34.111	38433.78792	12.984	38433.79167	-118.442799		38433.792	34.145	34.14414093			3/22/2005 19:00	78.87296463	24.04047962	-0.208410938
7	38433.833	34.111	38433.82958	12.987	38433.83333	-384.783809		38433.833	34.145	34.14392953			3/22/2005 19:59	78.8724772	24.04033105	-0.208559505
8	38433.875	34.108	38433.87125	12.989	38433.875	-500.011644		38433.875	34.145	34.14371337			3/22/2005 21:00	78.87197789	24.04017886	-0.208711696
9	38433.917	34.108	38433.91292	12.985	38433.91667	-433.136967		38433.917	34.145	34.14349722			3/22/2005 22:00	78.87147858	24.04002667	-0.208863887
10	38433.958	34.102	38433.95458	12.981	38433.95833	-203.401287		38433.958	34.145	34.14328621			3/22/2005 22:59	78.87099115	24.0398781	-0.209012455
11	38434	34.105	38433.99625	12.977	38434	123.884735		38434	34.145	34.14307008			3/23/2005 0:00	78.87049183	24.03972591	-0.209164646
12	38434.042	34.105	38434.03792	12.974	38434.04167	453.532547		38434.042	34.145	34.1428538			3/23/2005 1:00	78.86999252	24.03957372	-0.209316837
13	38434.083	34.102	38434.07958	12.968	38434.08333	685.083065		38434.083	34.145	34.14264429			3/23/2005 1:59	78.86950509	24.03942515	-0.209465404
14	38434.125	34.105	38434.12125	12.959	38434.125	739.855023		38434.125	34.145	34.14242674			3/23/2005 3:00	78.86900578	24.03927296	-0.209617595
15	38434.167	34.105	38434.16292	12.95	38434.16667	583.407212		38434.167	34.145	34.14221059			3/23/2005 4:00	78.86850647	24.03912077	-0.209769787
16	38434.208	34.105	38434.20458	12.952	38434.20833	237.095741		38434.208	34.145	34.14199968			3/23/2005 4:59	78.86801904	24.0389722	-0.209918354
17	38434.25	34.108	38434.24625	12.953	38434.25	-225.063674		38434.25	34.145	34.14178343			3/23/2005 6:00	78.86751972	24.03882001	-0.210070545
18	38434.292	34.105	38434.28792	12.955	38434.29167	-694.142629		38434.292	34.145	34.14156728			3/23/2005 7:00	78.86702041	24.03866782	-0.210222736
19	38434.333	34.105	38434.32958	12.954	38434.33333	-1054.355704		38434.333	34.145	34.14135627			3/23/2005 7:59	78.86653298	24.03851925	-0.210371304
20	38434.375	34.105	38434.37125	12.956	38434.375	-1213.880236		38434.375	34.145	34.14114012			3/23/2005 9:00	78.86603367	24.03836706	-0.210523495
21	38434.417	34.108	38434.41292	12.95	38434.41667	-1129.782341		38434.417	34.145	34.14093396			3/23/2005 10:00	78.86553436	24.03821487	-0.210675686
22	38434.458	34.105	38434.45458	12.936	38434.45833	-819.923781		38434.458	34.145	34.14071296			3/23/2005 10:59	78.86504693	24.0380663	-0.210824253
23	38434.5	34.105	38434.49625	12.92	38434.5	-358.487142		38434.5	34.145	34.1404968			3/23/2005 12:00	78.86454761	24.03791411	-0.210976444
24	38434.542	34.108	38434.53792	12.907	38434.54167	143.482747		38434.542	34.145	34.14028065			3/23/2005 13:00	78.8640483	24.03776192	-0.211128635
25	38434.583	34.108	38434.57958	12.893	38434.58333	566.928574		38434.583	34.145	34.14006964			3/23/2005 13:59	78.86356087	24.03761335	-0.211277203
26	38434.625	34.111	38434.62125	12.879	38434.625	815.073773		38434.625	34.145	34.13985349			3/23/2005 15:00	78.86306156	24.03746116	-0.211429394
27	38434.667	34.111	38434.66292	12.874	38434.66667	837.234993		38434.667	34.145	34.13963734			3/23/2005 16:00	78.86256225	24.03730897	-0.211581585
28	38434.708	34.115	38434.70458	12.872	38434.70833	640.357782		38434.708	34.145	34.13942633			3/23/2005 16:59	78.86207482	24.0371604	-0.211730152
29	38434.75	34.118	38434.74625	12.87	38434.75	285.88074		38434.75	34.145	34.13921018			3/23/2005 18:00	78.8615755	24.03700821	-0.211882343
30	38434.792	34.118	38434.78792	12.874	38434.79167	-126.792055		38434.792	34.145	34.13899402			3/23/2005 19:00	78.86107619	24.03685602	-0.212034534
31	38434.833	34.121	38434.82958	12.884	38434.83333	-485.839478		38434.833	34.145	34.13878301			3/23/2005 19:59	78.86058876	24.03670746	-0.212183102
32	38434.875	34.121	38434.87125	12.895	38434.875	-695.289127		38434.875	34.145	34.13856686			3/23/2005 21:00	78.86008945	24.03655526	-0.212335293
33	38434.917	34.118	38434.91292	12.902	38434.91667	-699.208966		38434.917	34.145	34.13835071			3/23/2005 22:00	78.85959014	24.03640307	-0.212487484
34	38434.958	34.121	38434.95458	12.906	38434.95833	-496.020397		38434.958	34.145	34.1381397			3/23/2005 22:59	78.85910271	24.03625451	-0.212636051
35	38435	34.118	38434.99625	12.909	38435	-139.381296		38435	34.145	34.13792365			3/24/2005 0:00	78.85860339	24.03610231	-0.212788242
36	38435.042	34.118	38435.03792	12.912	38435.04167	274.827615		38435.042	34.145	34.13770739			3/24/2005 1:00	78.85810408	24.03595012	-0.212940434
37	38435.083	34.118	38435.07958	12.915	38435.08333	632.57667		38435.083	34.145	34.13749638			3/24/2005 1:59	78.85761665	24.03580156	-0.213089001
38	38435.125	34.118	38435.12125	12.918	38435.125	831.167321		38435.125	34.145	34.13728023			3/24/2005 3:00	78.85711734	24.03564937	-0.213241192
39	38435.167	34.118	38435.16292	12.917	38435.16667	806.807907		38435.167	34.145	34.13706408			3/24/2005 4:00	78.85661803	24.03549717	-0.213393383
40	38435.208	34.121	38435.20458	12.921	38435.20833	552.998184		38435.208	34.145	34.13685307			3/24/2005 4:59	78.8561306	24.03534861	-0.213541951
41	38435.25	34.121	38435.24625	12.932	38435.25	124.353843		38435.25	34.145	34.13663692			3/24/2005 6:00	78.85563128	24.03519642	-0.213694142
42	38435.292	34.118	38435.28792	12.944	38435.29167	-375.924471		38435.292	34.145	34.13642077			3/24/2005 7:00	78.85513197	24.03504422	-0.213846333
43	38435.333	34.121	38435.32958	12.954	38435.33333	-822.28536		38435.333	34.145	34.13620976			3/24/2005 7:59	78.85464454	24.03489566	-0.2139949
44	38435.375	34.118	38435.37125	12.958	38435.375	-1100.023278		38435.375	34.145	34.13599361			3/24/2005 9:00	78.85414523	24.03474347	-0.214147091
45	38435.417	34.121	38435.41292	12.959	38435.41667	-1136.317458		38435.417	34.145	34.13577745			3/24/2005 10:00	78.85364592	24.03459127	-0.214299282
46	38435.458	34.118	38435.45458	12.955	38435.45833	-920.276505		38435.458	34.145	34.13556645			3/24/2005 10:59	78.85315849	24.03444271	-0.21444785
47	38435.5	34.117	38435.49625	12.946	38435.5	-506.191353		38435.5	34.145	34.13535029			3/24/2005 12:00	78.85265917	24.03429052	-0.214600041
48	38435.542	34.118	38435.53792	12.938	38435.54167	0.914688		38435.542	34.145	34.13513414			3/24/2005 13:00	78.85215986	24.03413833	-0.214752232
49	38435.583	34.115	38435.57958	12.934	38435.58333	473.22224		38435.583	34.145	34.13492313			3/24/2005 13:59	78.85167243	24.03398976	-0.214900799
50	38435.625	34.115	38435.62125	12.929	38435.625	793.61643		38435.625	34.145	34.13470698			3/24/2005 15:00	78.85117312	24.03383757	-0.21505299



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure				BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	38544.625	50.643	38544.625	12.964	38544.625	-122.734595		38544.625	50.643				7/11/2005 15:00	116.98533	35.65712858	-0.012882571
3	38544.66667	50.657	38544.66667	12.963	38544.66667	28.138602		38544.66667	50.643				7/11/2005 16:00	116.98533	35.65712858	-0.012882571
4	38544.70833	50.657	38544.70833	12.957	38544.70833	188.019809		38544.70833	50.643				7/11/2005 17:00	116.98533	35.65712858	-0.012882571
5	38544.75	50.665	38544.75	12.964	38544.75	301.832531		38544.75	50.643				7/11/2005 18:00	116.98533	35.65712858	-0.012882571
6	38544.79167	50.672	38544.79167	12.974	38544.79167	325.493746		38544.79167	50.643				7/11/2005 19:00	116.98533	35.65712858	-0.012882571
7	38544.83333	50.672	38544.83333	12.982	38544.83333	237.42713		38544.83333	50.643				7/11/2005 20:00	116.98533	35.65712858	-0.012882571
8	38544.875	50.671	38544.875	12.993	38544.875	44.968308		38544.875	50.643				7/11/2005 21:00	116.98533	35.65712858	-0.012882571
9	38544.91667	50.671	38544.91667	13.001	38544.91667	-215.98102		38544.91667	50.643				7/11/2005 22:00	116.98533	35.65712858	-0.012882571
10	38544.95833	50.671	38544.95833	13.002	38544.95833	-488.391579		38544.95833	50.643				7/11/2005 23:00	116.98533	35.65712858	-0.012882571
11	38545	50.664	38545	12.998	38545	-707.384938		38545	50.643				7/12/2005 0:00	116.98533	35.65712858	-0.012882571
12	38545.04167	50.664	38545.04167	13	38545.04167	-816.467668		38545.04167	50.643				7/12/2005 1:00	116.98533	35.65712858	-0.012882571
13	38545.08333	50.657	38545.08333	13.001	38545.08333	-782.63974		38545.08333	50.643				7/12/2005 2:00	116.98533	35.65712858	-0.012882571
14	38545.125	50.649	38545.125	13.001	38545.125	-606.093142		38545.125	50.643				7/12/2005 3:00	116.98533	35.65712858	-0.012882571
15	38545.16667	50.642	38545.16667	13.014	38545.16667	-321.367004		38545.16667	50.64805962				7/12/2005 4:00	116.9970177	35.660691	-0.009320151
16	38545.20833	50.635	38545.20833	13.02	38545.20833	10.810804		38545.20833	50.64817748				7/12/2005 5:00	116.99729	35.66077398	-0.009237171
17	38545.25	50.635	38545.25	13.026	38545.25	318.905784		38545.25	50.65096922				7/12/2005 6:00	117.0037389	35.66273961	-0.007271542
18	38545.29167	50.636	38545.29167	13.032	38545.29167	538.784064		38545.29167	50.65206804				7/12/2005 7:00	117.0062772	35.66351328	-0.006497872
19	38545.33333	50.635	38545.33333	13.044	38545.33333	629.489661		38545.33333	50.65223367				7/12/2005 8:00	117.0066598	35.6636299	-0.006381254
20	38545.375	50.627	38545.375	13.049	38545.375	582.248555		38545.375	50.64709228				7/12/2005 9:00	116.9947832	35.66000991	-0.010001248
21	38545.41667	50.628	38545.41667	13.059	38545.41667	420.62563		38545.41667	50.65097592				7/12/2005 10:00	117.0037544	35.66274433	-0.007266822
22	38545.45833	50.62	38545.45833	13.061	38545.45833	192.476488		38545.45833	50.64859129				7/12/2005 11:00	116.9982459	35.66106535	-0.008945808
23	38545.5	50.62	38545.5	13.059	38545.5	-43.46474		38545.5	50.65369933				7/12/2005 12:00	117.0100455	35.66466185	-0.005349302
24	38545.54167	50.613	38545.54167	13.05	38545.54167	-232.451568		38545.54167	50.64972931				7/12/2005 13:00	117.0008747	35.66186661	-0.008144548
25	38545.58333	50.613	38545.58333	13.049	38545.58333	-336.296865		38545.58333	50.65179459				7/12/2005 14:00	117.0056455	35.66332075	-0.006690403
26	38545.625	50.605	38545.625	13.046	38545.625	-340.977592		38545.625	50.64755358				7/12/2005 15:00	116.9958488	35.66033471	-0.009676447
27	38545.66667	50.605	38545.66667	13.039	38545.66667	-258.093852		38545.66667	50.64753128				7/12/2005 16:00	116.9957973	35.66031901	-0.00969215
28	38545.70833	50.613	38545.70833	13.031	38545.70833	-120.458594		38545.70833	50.65095886				7/12/2005 17:00	117.003715	35.66273232	-0.007278834
29	38545.75	50.62	38545.75	13.03	38545.75	26.783064		38545.75	50.65097998				7/12/2005 18:00	117.0037638	35.66274719	-0.007263963
30	38545.79167	50.628	38545.79167	13.035	38545.79167	137.42467		38545.79167	50.65319362				7/12/2005 19:00	117.0088773	35.66430579	-0.005705364
31	38545.83333	50.627	38545.83333	13.041	38545.83333	175.508636		38545.83333	50.64757853				7/12/2005 20:00	116.9959064	35.66035228	-0.00965888
32	38545.875	50.635	38545.875	13.053	38545.875	124.37713		38545.875	50.65413304				7/12/2005 21:00	117.0110473	35.66496722	-0.005043934
33	38545.91667	50.628	38545.91667	13.062	38545.91667	-8.512697		38545.91667	50.64942289				7/12/2005 22:00	117.0001669	35.66165086	-0.008360291
34	38545.95833	50.627	38545.95833	13.058	38545.95833	-192.358506		38545.95833	50.65023207				7/12/2005 23:00	117.0020361	35.6622206	-0.007790559
35	38546	50.627	38546	13.06	38546	-379.703461		38546	50.65082098				7/13/2005 0:00	117.0033965	35.66263524	-0.007375916
36	38546.04167	50.627	38546.04167	13.053	38546.04167	-517.995277		38546.04167	50.65398075				7/13/2005 1:00	117.0106955	35.66485999	-0.00515116
37	38546.08333	50.62	38546.08333	13.05	38546.08333	-563.45364		38546.08333	50.65012387				7/13/2005 2:00	117.0017861	35.66214441	-0.00786674
38	38546.125	50.613	38546.125	13.053	38546.125	-493.581609		38546.125	50.64834531				7/13/2005 3:00	116.9976777	35.66089215	-0.009119002
39	38546.16667	50.613	38546.16667	13.052	38546.16667	-314.548043		38546.16667	50.65441009				7/13/2005 4:00	117.0116873	35.66516229	-0.004848865
40	38546.20833	50.605	38546.20833	13.056	38546.20833	-60.874394		38546.20833	50.65075702				7/13/2005 5:00	117.0032487	35.66259021	-0.007420949
41	38546.25	50.605	38546.25	13.054	38546.25	212.855942		38546.25	50.65202063				7/13/2005 6:00	117.0061677	35.6634799	-0.006531252
42	38546.29167	50.605	38546.29167	13.056	38546.29167	445.975624		38546.29167	50.64998481				7/13/2005 7:00	117.0014649	35.6620465	-0.00796465
43	38546.33333	50.605	38546.33333	13.061	38546.33333	587.261568		38546.33333	50.64790795				7/13/2005 8:00	116.9966674	35.66058421	-0.009426944
44	38546.375	50.614	38546.375	13.058	38546.375	607.489202		38546.375	50.65372844				7/13/2005 9:00	117.0101127	35.66468235	-0.005328802
45	38546.41667	50.621	38546.41667	13.056	38546.41667	505.656988		38546.41667	50.65578889				7/13/2005 10:00	117.0148723	35.66613309	-0.00387807
46	38546.45833	50.627	38546.45833	13.048	38546.45833	307.688482		38546.45833	50.65684694				7/13/2005 11:00	117.0173164	35.66687805	-0.003133104
47	38546.5	50.635	38546.5	13.038	38546.5	58.683418		38546.5	50.65890457				7/13/2005 12:00	117.0220696	35.6683268	-0.001684352
48	38546.54167	50.635	38546.54167	13.024	38546.54167	-188.627696		38546.54167	50.65284028				7/13/2005 13:00	117.0080611	35.66405701	-0.005954146
49	38546.58333	50.642	38546.58333	13.01	38546.58333	-386.031043		38546.58333	50.65356769				7/13/2005 14:00	117.0097414	35.66456917	-0.005441984
50	38546.625	50.642	38546.625	12.999	38546.625	-499.789373		38546.625	50.6483837				7/13/2005 15:00	116.9977664	35.66091919	-0.009091969



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure				BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	38549	75.605	38549	13.01	38549	282.476731		38549	75.605				7/16/2005 0:00	174.64755	53.23257324	-0.038108704
3	38549.04167	75.604	38549.04167	13.008	38549.04167	376.720662		38549.04167	75.605				7/16/2005 1:00	174.64755	53.23257324	-0.038108704
4	38549.08333	75.604	38549.08333	13	38549.08333	379.591537		38549.08333	75.605				7/16/2005 2:00	174.64755	53.23257324	-0.038108704
5	38549.125	75.604	38549.125	13.002	38549.125	318.506424		38549.125	75.605				7/16/2005 3:00	174.64755	53.23257324	-0.038108704
6	38549.16667	75.604	38549.16667	13.004	38549.16667	236.425751		38549.16667	75.605				7/16/2005 4:00	174.64755	53.23257324	-0.038108704
7	38549.20833	75.596	38549.20833	13.011	38549.20833	178.652922		38549.20833	75.605				7/16/2005 5:00	174.64755	53.23257324	-0.038108704
8	38549.25	75.596	38549.25	13.015	38549.25	178.823526		38549.25	75.605				7/16/2005 6:00	174.64755	53.23257324	-0.038108704
9	38549.29167	75.59	38549.29167	13.018	38549.29167	248.37213		38549.29167	75.605				7/16/2005 7:00	174.64755	53.23257324	-0.038108704
10	38549.33333	75.582	38549.33333	13.023	38549.33333	372.666744		38549.33333	75.605				7/16/2005 8:00	174.64755	53.23257324	-0.038108704
11	38549.375	75.582	38549.375	13.023	38549.375	514.821186		38549.375	75.605				7/16/2005 9:00	174.64755	53.23257324	-0.038108704
12	38549.41667	75.582	38549.41667	13.021	38549.41667	625.805368		38549.41667	75.605				7/16/2005 10:00	174.64755	53.23257324	-0.038108704
13	38549.45833	75.581	38549.45833	13.014	38549.45833	657.755787		38549.45833	75.605				7/16/2005 11:00	174.64755	53.23257324	-0.038108704
14	38549.5	75.581	38549.5	13.005	38549.5	576.830215		38549.5	75.605				7/16/2005 12:00	174.64755	53.23257324	-0.038108704
15	38549.54167	75.59	38549.54167	12.994	38549.54167	372.496524		38549.54167	75.605				7/16/2005 13:00	174.64755	53.23257324	-0.038108704
16	38549.58333	75.596	38549.58333	12.978	38549.58333	61.357092		38549.58333	75.605				7/16/2005 14:00	174.64755	53.23257324	-0.038108704
17	38549.625	75.596	38549.625	12.968	38549.625	-315.024568		38549.625	75.605				7/16/2005 15:00	174.64755	53.23257324	-0.038108704
18	38549.66667	75.604	38549.66667	12.964	38549.66667	-697.647837		38549.66667	75.605				7/16/2005 16:00	174.64755	53.23257324	-0.038108704
19	38549.70833	75.612	38549.70833	12.959	38549.70833	-1021.415422		38549.70833	75.605				7/16/2005 17:00	174.64755	53.23257324	-0.038108704
20	38549.75	75.62	38549.75	12.961	38549.75	-1228.143086		38549.75	75.605				7/16/2005 18:00	174.64755	53.23257324	-0.038108704
21	38549.79167	75.62	38549.79167	12.961	38549.79167	-1278.743014		38549.79167	75.605				7/16/2005 19:00	174.64755	53.23257324	-0.038108704
22	38549.83333	75.628	38549.83333	12.966	38549.83333	-1162.063028		38549.83333	75.605				7/16/2005 20:00	174.64755	53.23257324	-0.038108704
23	38549.875	75.621	38549.875	12.976	38549.875	-898.271912		38549.875	75.605				7/16/2005 21:00	174.64755	53.23257324	-0.038108704
24	38549.91667	75.62	38549.91667	12.983	38549.91667	-535.5855		38549.91667	75.605				7/16/2005 22:00	174.64755	53.23257324	-0.038108704
25	38549.95833	75.62	38549.95833	12.988	38549.95833	-140.482746		38549.95833	75.605				7/16/2005 23:00	174.64755	53.23257324	-0.038108704
26	38550	75.629	38550	12.984	38550	216.84047		38550	75.605				7/17/2005 0:00	174.64755	53.23257324	-0.038108704
27	38550.04167	75.628	38550.04167	12.979	38550.04167	478.563422		38550.04167	75.605				7/17/2005 1:00	174.64755	53.23257324	-0.038108704
28	38550.08333	75.628	38550.08333	12.976	38550.08333	612.809174		38550.08333	75.605				7/17/2005 2:00	174.64755	53.23257324	-0.038108704
29	38550.125	75.628	38550.125	12.973	38550.125	620.830575		38550.125	75.605				7/17/2005 3:00	174.64755	53.23257324	-0.038108704
30	38550.16667	75.628	38550.16667	12.974	38550.16667	535.414212		38550.16667	75.605				7/17/2005 4:00	174.64755	53.23257324	-0.038108704
31	38550.20833	75.628	38550.20833	12.979	38550.20833	410.546468		38550.20833	75.605				7/17/2005 5:00	174.64755	53.23257324	-0.038108704
32	38550.25	75.628	38550.25	12.983	38550.25	305.078224		38550.25	75.605				7/17/2005 6:00	174.64755	53.23257324	-0.038108704
33	38550.29167	75.62	38550.29167	12.985	38550.29167	265.100835		38550.29167	75.605				7/17/2005 7:00	174.64755	53.23257324	-0.038108704
34	38550.33333	75.621	38550.33333	12.987	38550.33333	310.22716		38550.33333	75.62577157				7/17/2005 8:00	174.6955323	53.24719825	-0.023483695
35	38550.375	75.612	38550.375	12.987	38550.375	427.744227		38550.375	75.62097427				7/17/2005 9:00	174.6844506	53.24382053	-0.026861413
36	38550.41667	75.604	38550.41667	12.986	38550.41667	576.136446		38550.41667	75.61629475				7/17/2005 10:00	174.6736409	53.24052574	-0.030156209
37	38550.45833	75.604	38550.45833	12.983	38550.45833	696.694494		38550.45833	75.61852825				7/17/2005 11:00	174.6788003	53.24209832	-0.028583625
38	38550.5	75.604	38550.5	12.976	38550.5	729.770884		38550.5	75.61856939				7/17/2005 12:00	174.6788953	53.24212729	-0.028554656
39	38550.54167	75.612	38550.54167	12.963	38550.54167	631.292276		38550.54167	75.62329145				7/17/2005 13:00	174.6898032	53.24545203	-0.025229917
40	38550.58333	75.621	38550.58333	12.95	38550.58333	385.443274		38550.58333	75.62611049				7/17/2005 14:00	174.6963152	53.24743688	-0.023245063
41	38550.625	75.628	38550.625	12.942	38550.625	10.653389		38550.625	75.62534439				7/17/2005 15:00	174.6945455	53.24689748	-0.023784465
42	38550.66667	75.637	38550.66667	12.932	38550.66667	-442.329119		38550.66667	75.62580768				7/17/2005 16:00	174.6956157	53.24722368	-0.023458265
43	38550.70833	75.644	38550.70833	12.93	38550.70833	-899.803053		38550.70833	75.62525084				7/17/2005 17:00	174.6943294	53.24683161	-0.023850334
44	38550.75	75.645	38550.75	12.928	38550.75	-1279.970057		38550.75	75.62064782				7/17/2005 18:00	174.6836965	53.24359068	-0.027091263
45	38550.79167	75.653	38550.79167	12.932	38550.79167	-1510.226995		38550.79167	75.62431483				7/17/2005 19:00	174.6921673	53.24617258	-0.024509362
46	38550.83333	75.652	38550.83333	12.944	38550.83333	-1543.249481		38560.83333	75.62197399				7/17/2005 20:00	174.6867599	53.24452442	-0.026157521
47	38550.875	75.652	38550.875	12.961	38550.875	-1368.275671		38550.875	75.62356305				7/17/2005 21:00	174.6904306	53.24564326	-0.025038687
48	38550.91667	75.644	38550.91667	12.967	38550.91667	-1014.783697		38550.91667	75.61795183				7/17/2005 22:00	174.6774687	53.24169247	-0.028989474
49	38550.95833	75.645	38550.95833	12.969	38550.95833	-547.233201		38550.95833	75.62163739				7/17/2005 23:00	174.6859824	53.24428743	-0.026394516
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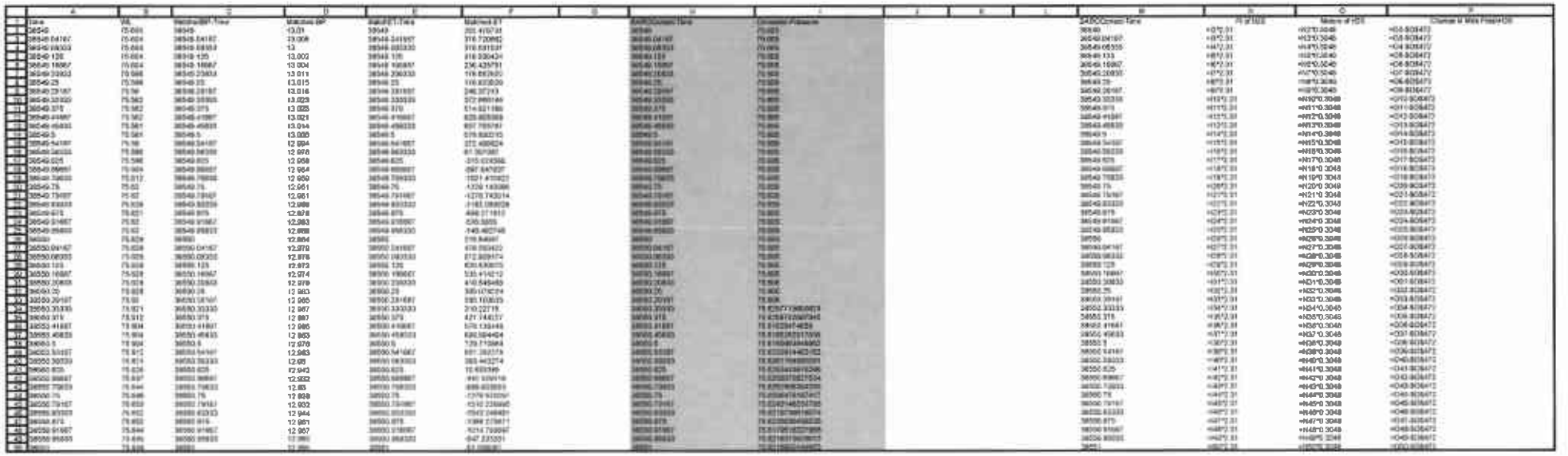

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure				BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	38370.692	39.539	38370.69417	13.141	38370.70833	198.665474		38370.692	39.539				1/18/2005 16:36	91.33509	27.83893543	-0.28016306
3	38370.734	39.539	38370.73583	13.142	38370.75	206.852888		38370.734	39.539				1/18/2005 17:36	91.33509	27.83893543	-0.28016306
4	38370.776	39.531	38370.7775	13.142	38370.79167	256.340956		38370.776	39.539				1/18/2005 18:37	91.33509	27.83893543	-0.28016306
5	38370.817	39.523	38370.81917	13.146	38370.83333	341.119473		38370.817	39.539				1/18/2005 19:36	91.33509	27.83893543	-0.28016306
6	38370.859	39.523	38370.86083	13.151	38370.875	439.649526		38370.859	39.539				1/18/2005 20:36	91.33509	27.83893543	-0.28016306
7	38370.901	39.531	38370.9025	13.15	38370.91667	518.942613		38370.901	39.539				1/18/2005 21:37	91.33509	27.83893543	-0.28016306
8	38370.942	39.539	38370.94417	13.15	38370.95833	542.364461		38370.942	39.539				1/18/2005 22:36	91.33509	27.83893543	-0.28016306
9	38370.984	39.547	38370.98583	13.145	38371	479.652431		38370.984	39.539				1/18/2005 23:36	91.33509	27.83893543	-0.28016306
10	38371.026	39.555	38371.0275	13.144	38371.04167	316.642809		38371.026	39.539				1/19/2005 0:37	91.33509	27.83893543	-0.28016306
11	38371.067	39.555	38371.06917	13.141	38371.08333	61.80366		38371.067	39.539				1/19/2005 1:36	91.33509	27.83893543	-0.28016306
12	38371.109	39.562	38371.11083	13.144	38371.125	-252.802474		38371.109	39.539				1/19/2005 2:36	91.33509	27.83893543	-0.28016306
13	38371.151	39.562	38371.1525	13.138	38371.16667	-577.032985		38371.151	39.539				1/19/2005 3:37	91.33509	27.83893543	-0.28016306
14	38371.192	39.562	38371.19417	13.145	38371.20833	-853.569703		38371.192	39.56700389				1/19/2005 4:36	91.39977898	27.85865263	-0.260445859
15	38371.234	39.555	38371.23583	13.147	38371.25	-1031.329545		38371.234	39.5632186				1/19/2005 5:36	91.39103496	27.85598745	-0.263111037
16	38371.276	39.553	38371.2775	13.16	38371.29167	-1077.613616		38371.276	39.57291857				1/19/2005 6:37	91.4134419	27.86281709	-0.256281401
17	38371.317	39.539	38371.31917	13.173	38371.33333	-985.619477		38371.317	39.58998576				1/19/2005 7:36	91.40666708	27.86075213	-0.258346365
18	38371.359	39.529	38371.36083	13.178	38371.375	-775.425682		38371.359	39.56467474				1/19/2005 8:36	91.39439864	27.85701271	-0.262085785
19	38371.401	39.555	38371.4025	13.181	38371.41667	-488.544778		38371.401	39.59136961				1/19/2005 9:37	91.4560638	27.87580825	-0.243290244
20	38371.442	39.555	38371.44417	13.18	38371.45833	-177.853358		38371.442	39.58829559				1/19/2005 10:36	91.44896282	27.87364387	-0.245454625
21	38371.484	39.562	38371.48583	13.17	38371.5	104.319975		38371.484	39.58478679				1/19/2005 11:36	91.44085747	27.87117336	-0.247925133
22	38371.526	39.586	38371.5275	13.149	38371.54167	317.099638		38371.526	39.59169586				1/19/2005 12:37	91.45681745	27.87603796	-0.243060534
23	38371.567	39.594	38371.56917	13.139	38371.58333	438.708727		38371.567	39.59116333				1/19/2005 13:36	91.4555873	27.87566301	-0.243435483
24	38371.609	39.594	38371.61083	13.136	38371.625	469.528204		38371.609	39.59139912				1/19/2005 14:36	91.45613198	27.87582903	-0.243269465
25	38371.651	39.594	38371.6525	13.135	38371.66667	430.216104		38371.651	39.59563082				1/19/2005 15:37	91.46590673	27.87880837	-0.240290119
26	38371.692	39.586	38371.69417	13.129	38371.70833	355.4237		38371.692	39.59049893				1/19/2005 16:36	91.45405253	27.87519521	-0.243903281
27	38371.734	39.577	38371.73583	13.129	38371.75	284.420304		38371.734	39.58906981				1/19/2005 17:36	91.45075126	27.87418898	-0.244909509
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30	38371.859	39.553	38371.86083	13.142	38371.875	345.590425		38371.859	39.59059903				1/19/2005 20:36	91.45428376	27.87526569	-0.2438328
31	38371.901	39.553	38371.9025	13.143	38371.91667	446.76269		38371.901	39.59179511				1/19/2005 21:37	91.45704671	27.87610784	-0.242990655
32	38371.942	39.553	38371.94417	13.145	38371.95833	534.540354		38371.942	39.59009685				1/19/2005 22:36	91.45312371	27.87491211	-0.244186384
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34	38372.026	39.593	38372.0275	13.121	38372.04167	491.360337		38372.026	39.59911512				1/20/2005 0:37	91.47395593	27.88126177	-0.237836724
35	38372.067	39.61	38372.06917	13.111	38372.08333	303.150343		38372.067	39.60006246				1/20/2005 1:36	91.47619049	27.88194286	-0.23715563
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37	38372.151	39.632	38372.1525	13.094	38372.16667	-355.33693		38372.151	39.59757928				1/20/2005 3:37	91.47040814	27.8801804	-0.238918089
38	38372.192	39.65	38372.19417	13.089	38372.20833	-724.910955		38372.192	39.61044068				1/20/2005 4:36	91.50011796	27.88923595	-0.229862537
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46	38372.526	39.642	38372.5275	13.079	38372.54167	272.897264		38372.526	39.59944469				1/20/2005 12:37	91.47471722	27.88149381	-0.237604681
47	38372.567	39.65	38372.56917	13.063	38372.58333	504.290123		38372.567	39.59301167				1/20/2005 13:36	91.45985696	27.8769644	-0.24213409
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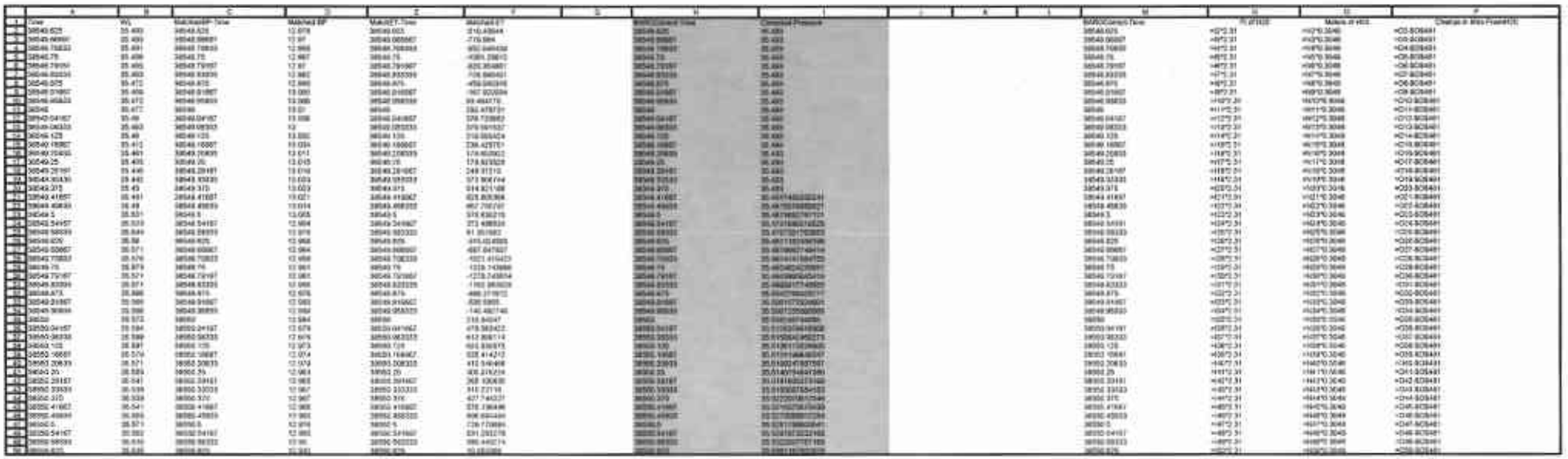
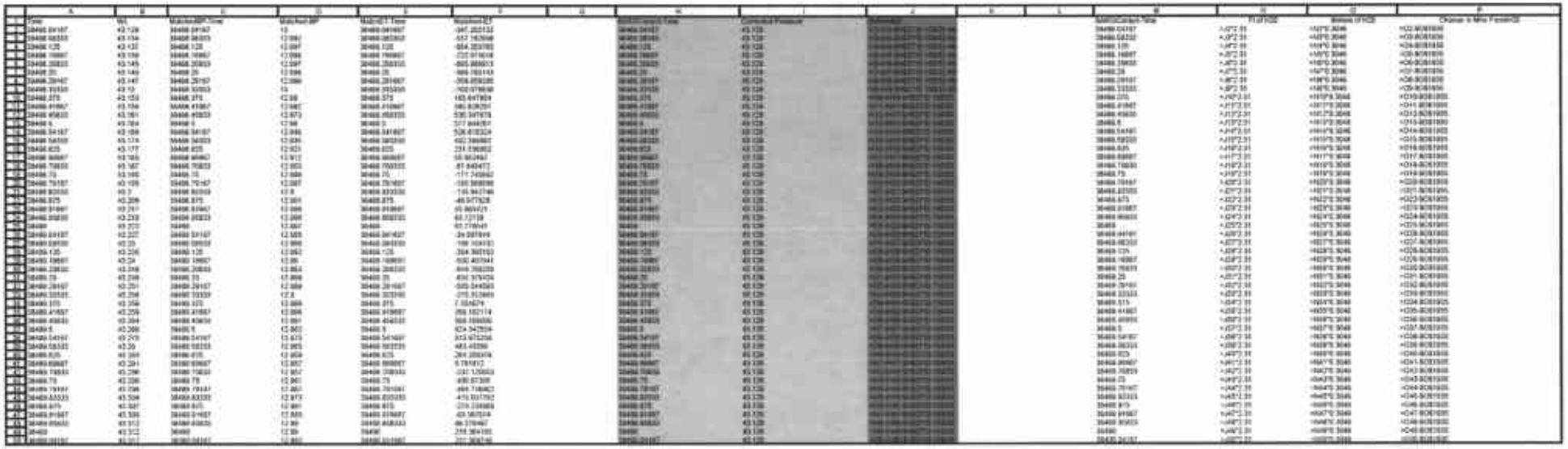
49	38372.651	39.664	38372.6525	13.055	38372.66667	604.49775		38372.651	39.60344519				1/20/2005 15:37	91.48395838	27.88431051	-0.234787977
50	38372.692	39.656	38372.69417	13.054	38372.70833	512.576019		38372.692	39.60084713				1/20/2005 16:36	91.47795686	27.88248125	-0.23661724

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	Wt	MotrHrsBP-Time	MotrHrs BP	MotrSCT-Time	MotrHrsSCT		BARODataset Time	Calculated Pressure				BARODataset Time	Pt of HS1	Motors of HS1	Chance to Wet Pred HS1
2	39370.995	39.536	39370.99617	13.141	39370.70809	169.969474		39370.995	39.536				39370.840	-1272.31	-1627E-3044	=G3.9C64752
3	39372.734	39.536	39372.73585	13.142	39370.25	228.952866		39370.734	39.536				39372.734	-1672.31	-1627E-3044	=G19.9C64752
4	39370.778	39.531	39370.7778	13.142	39370.791667	236.346466		39370.778	39.536				39370.778	-1672.31	-1649E-3044	=G4.9C64752
5	39370.817	39.525	39370.81817	13.144	39370.833333	341.119973		39370.817	39.536				39370.817	-1672.31	-1627E-3044	=G6.9C64752
6	39370.858	39.529	39370.86065	13.151	39371.075	430.648536		39370.858	39.536				39370.858	-1672.31	-1627E-3044	=G9.9C64752
7	39370.921	39.531	39370.9220	13.15	39370.916667	540.942813		39370.921	39.536				39370.921	-1672.31	-1627E-3044	=G7.9C64752
8	39370.940	39.536	39370.94417	13.15	39370.958333	582.364491		39370.940	39.536				39370.940	-1672.31	-1627E-3044	=G8.9C64752
9	39370.964	39.547	39370.96580	13.145	39371	479.653451		39370.964	39.536				39370.894	-1672.31	-1627E-3044	=G5.9C64752
10	39371.025	39.556	39371.0275	13.144	39371.041667	918.643899		39371.025	39.536				39371.025	-1672.31	-1613E-3044	=G10.9C64752
11	39371.067	39.556	39371.06917	13.141	39371.083333	91.80398		39371.067	39.536				39371.067	-1672.31	-1617E-3044	=G11.9C64752
12	39371.109	39.562	39371.11080	13.144	39371.125	252.903474		39371.109	39.536				39371.109	-1672.31	-1612E-3044	=G12.9C64752
13	39371.151	39.562	39371.1525	13.139	39371.166667	-327.030980		39371.151	39.536				39371.151	-1672.31	-1613E-3044	=G13.9C64752
14	39371.192	39.562	39371.19419	13.149	39371.208333	-800.599703		39371.192	39.531939467359				39371.192	-1672.31	-1614E-3044	=G14.9C64752
15	39371.234	39.595	39371.23583	13.147	39371.25	-1051.535545		39371.234	39.553219995704				39371.234	-1672.31	-1615E-3044	=G15.9C64752
16	39371.276	39.595	39371.2775	13.16	39371.291667	-1077.813416		39371.276	39.572161610407				39371.316	-1672.31	-1615E-3044	=G16.9C64752
17	39371.317	39.536	39371.31917	13.173	39371.333333	-866.619477		39371.317	39.594693160818				39371.317	-1672.31	-1614E-3044	=G17.9C64752
18	39371.359	39.529	39371.36083	13.172	39371.375	-715.423662		39371.359	39.594814731234				39371.359	-1672.31	-1615E-3044	=G18.9C64752
19	39371.401	39.529	39371.4025	13.161	39371.416667	-489.044178		39371.401	39.591606116516				39371.401	-1672.31	-1619E-3044	=G19.9C64752
20	39371.442	39.525	39371.44417	13.16	39371.458333	-127.853358		39371.442	39.58829984972				39371.442	-1672.31	-1620E-3044	=G20.9C64752
21	39371.484	39.562	39371.48583	13.17	39371.5	168.319975		39371.484	39.584788182291				39371.484	-1672.31	-1621E-3044	=G21.9C64752
22	39371.526	39.589	39371.5275	13.149	39371.541667	617.098636		39371.526	39.581166008				39371.526	-1672.31	-1622E-3044	=G22.9C64752
23	39371.567	39.594	39371.56917	13.139	39371.583333	698.708727		39371.567	39.581183233425				39371.567	-1672.31	-1623E-3044	=G23.9C64752
24	39371.609	39.594	39371.61083	13.139	39371.625	468.538234		39371.609	39.581565124695				39371.609	-1672.31	-1624E-3044	=G24.9C64752
25	39371.651	39.594	39371.6525	13.139	39371.666667	446.319134		39371.651	39.581859353444				39371.651	-1672.31	-1625E-3044	=G25.9C64752
26	39371.692	39.589	39371.69417	13.139	39371.708333	356.4237		39371.692	39.582068834094				39371.692	-1672.31	-1626E-3044	=G26.9C64752
27	39371.734	39.577	39371.73583	13.139	39371.75	284.433004		39371.734	39.582068857882				39371.734	-1672.31	-1627E-3044	=G27.9C64752
28	39371.776	39.566	39371.7775	13.134	39371.791667	259.989302		39371.776	39.581937807102				39371.776	-1672.31	-1628E-3044	=G28.9C64752
29	39371.817	39.562	39371.81917	13.139	39371.833333	271.96131		39371.817	39.584727854819				39371.817	-1672.31	-1629E-3044	=G29.9C64752
30	39371.859	39.555	39371.86083	13.142	39371.875	345.550405		39371.859	39.590080417856				39371.859	-1672.31	-1630E-3044	=G30.9C64752
31	39371.901	39.555	39371.9025	13.143	39371.916667	448.76599		39371.901	39.591581111502				39371.901	-1672.31	-1631E-3044	=G31.9C64752
32	39371.942	39.555	39371.94417	13.143	39371.958334	534.642344		39371.942	39.59838864033697				39371.942	-1672.31	-1632E-3044	=G32.9C64752
33	39371.984	39.57	39371.98583	13.133	39372	562.348693		39371.984	39.594985851671				39371.984	-1672.31	-1633E-3044	=G34.9C64752
34	39372.026	39.555	39372.0275	13.131	39372.041667	461.950937		39372.026	39.595135415544				39372.026	-1672.31	-1634E-3044	=G35.9C64752
35	39372.067	39.61	39372.06917	13.131	39372.083334	393.193345		39372.067	39.595083383697				39372.067	-1672.31	-1635E-3044	=G36.9C64752
36	39372.109	39.639	39372.11083	13.1	39372.125	1.709405		39372.109	39.592701981148				39372.109	-1672.31	-1636E-3044	=G89.9C64752
37	39372.151	39.633	39372.1525	13.084	39372.166667	-355.33850		39372.151	39.587973838719				39372.151	-1672.31	-1637E-3044	=G37.9C64752
38	39372.192	39.68	39372.19417	13.084	39372.208333	-724.919993		39372.192	39.591648215237				39372.192	-1672.31	-1638E-3044	=G38.9C64752
39	39372.234	39.643	39372.23583	13.091	39372.25	-1031.665153		39372.234	39.59999997 33241				39372.234	-1672.31	-1639E-3044	=G39.9C64752
40	39372.276	39.674	39372.2775	13.1	39372.291667	-1214.130334		39372.276	39.599819265855516				39372.276	-1672.31	-1640E-3044	=G40.9C64752
41	39372.317	39.674	39372.31917	13.106	39372.333333	-1239.392246		39372.317	39.600394523903				39372.317	-1672.31	-1641E-3044	=G41.9C64752
42	39372.359	39.605	39372.36089	13.107	39372.375	-1099.143849		39372.359	39.59827 5281585				39372.359	-1672.31	-1642E-3044	=G42.9C64752
43	39372.401	39.662	39372.4025	13.11	39372.416667	-806.501456		39372.401	39.598999701 91625				39372.401	-1672.31	-1643E-3044	=G43.9C64752
44	39372.442	39.599	39372.44417	13.111	39372.458333	-442.391208		39372.442	39.599323 0331 40				39372.442	-1672.31	-1644E-3044	=G44.9C64752
45	39372.484	39.634	39372.48583	13.099	39372.5	-39.424395		39372.484	39.599 1963810853				39372.484	-1672.31	-1645E-3044	=G45.9C64752
46	39372.526	39.642	39372.5275	13.078	39372.541667	273.997094		39372.526	39.59944998 8886				39372.526	-1672.31	-1646E-3044	=G46.9C64752
47	39372.567	39.59	39372.56917	13.063	39372.583333	504.290123		39372.567	39.599 1 9 0 9 5 9 5 7				39372.567	-1672.31	-1647E-3044	=G47.9C64752
48	39372.609	39.637	39372.61083	13.058	39372.625	612.836765		39372.609	39.59 4 2 9 0 0 4 9 4 7 9				39372.609	-1672.31	-1648E-3044	=G48.9C64752
49	39372.651	39.654	39372.6525	13.063	39372.666667	664.49779		39372.651	39.59 4 9 4 4 8 1 4 6 0 8 5				39372.651	-1672.31	-1649E-3044	=G49.9C64752
50	39372.692	39.696	39372.69417	13.064	39372.708333	643.310016		39372.692	39.59 4 0 4 0 1 1 0 5 8 4 2				39372.692	-1672.31	-1650E-3044	=G50.9C64752

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure				BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	38548.625	35.493	38548.625	12.978	38548.625	-510.43644		38548.625	35.493				7/15/2005 15:00	81.98883	24.99019538	-0.097356097
3	38548.66667	35.493	38548.66667	12.97	38548.66667	-778.964		38548.66667	35.493				7/15/2005 16:00	81.98883	24.99019538	-0.097356097
4	38548.70833	35.491	38548.70833	12.968	38548.70833	-952.046408		38548.70833	35.493				7/15/2005 17:00	81.98883	24.99019538	-0.097356097
5	38548.75	35.488	38548.75	12.967	38548.75	-1001.25612		38548.75	35.493				7/15/2005 18:00	81.98883	24.99019538	-0.097356097
6	38548.79167	35.485	38548.79167	12.97	38548.79167	-920.354861		38548.79167	35.493				7/15/2005 19:00	81.98883	24.99019538	-0.097356097
7	38548.83333	35.483	38548.83333	12.982	38548.83333	-726.888401		38548.83333	35.493				7/15/2005 20:00	81.98883	24.99019538	-0.097356097
8	38548.875	35.472	38548.875	12.999	38548.875	-459.040315		38548.875	35.493				7/15/2005 21:00	81.98883	24.99019538	-0.097356097
9	38548.91667	35.469	38548.91667	13.005	38548.91667	-167.920034		38548.91667	35.493				7/15/2005 22:00	81.98883	24.99019538	-0.097356097
10	38548.95833	35.472	38548.95833	13.008	38548.95833	93.494776		38548.95833	35.493				7/15/2005 23:00	81.98883	24.99019538	-0.097356097
11	38549	35.477	38549	13.01	38549	282.476731		38549	35.493				7/16/2005 0:00	81.98883	24.99019538	-0.097356097
12	38549.04167	35.48	38549.04167	13.008	38549.04167	376.720662		38549.04167	35.493				7/16/2005 1:00	81.98883	24.99019538	-0.097356097
13	38549.08333	35.483	38549.08333	13	38549.08333	379.591537		38549.08333	35.493				7/16/2005 2:00	81.98883	24.99019538	-0.097356097
14	38549.125	35.48	38549.125	13.002	38549.125	318.506424		38549.125	35.493				7/16/2005 3:00	81.98883	24.99019538	-0.097356097
15	38549.16667	35.472	38549.16667	13.004	38549.16667	236.425751		38549.16667	35.493				7/16/2005 4:00	81.98883	24.99019538	-0.097356097
16	38549.20833	35.461	38549.20833	13.011	38549.20833	178.652922		38549.20833	35.493				7/16/2005 5:00	81.98883	24.99019538	-0.097356097
17	38549.25	35.453	38549.25	13.015	38549.25	178.823526		38549.25	35.493				7/16/2005 6:00	81.98883	24.99019538	-0.097356097
18	38549.29167	35.445	38549.29167	13.018	38549.29167	248.37213		38549.29167	35.493				7/16/2005 7:00	81.98883	24.99019538	-0.097356097
19	38549.33333	35.442	38549.33333	13.023	38549.33333	372.666744		38549.33333	35.493				7/16/2005 8:00	81.98883	24.99019538	-0.097356097
20	38549.375	35.45	38549.375	13.023	38549.375	514.821186		38549.375	35.493				7/16/2005 9:00	81.98883	24.99019538	-0.097356097
21	38549.41667	35.461	38549.41667	13.021	38549.41667	625.805368		38549.41667	35.4547482				7/16/2005 10:00	81.90046835	24.96326275	-0.124288728
22	38549.45833	35.48	38549.45833	13.014	38549.45833	657.755787		38549.45833	35.46159787				7/16/2005 11:00	81.91629107	24.96808552	-0.119465962
23	38549.5	35.501	38549.5	13.005	38549.5	576.830215		38549.5	35.46736928				7/16/2005 12:00	81.92962303	24.9721491	-0.115402381
24	38549.54167	35.523	38549.54167	12.994	38549.54167	372.496524		38549.54167	35.47318803				7/16/2005 13:00	81.94306435	24.97624601	-0.111305466
25	38549.58333	35.544	38549.58333	12.978	38549.58333	61.357092		38549.58333	35.47673618				7/16/2005 14:00	81.95126057	24.97874422	-0.10880726
26	38549.625	35.56	38549.625	12.968	38549.625	-315.024568		38549.625	35.48111625				7/16/2005 15:00	81.96137853	24.98182818	-0.105723306
27	38549.66667	35.571	38549.66667	12.964	38549.66667	-697.647837		38549.66667	35.48786927				7/16/2005 16:00	81.97697803	24.9865829	-0.100968579
28	38549.70833	35.576	38549.70833	12.959	38549.70833	-1021.415422		38549.70833	35.49141416				7/16/2005 17:00	81.98516671	24.98907881	-0.098472669
29	38549.75	35.573	38549.75	12.961	38549.75	-1228.143086		38549.75	35.49246242				7/16/2005 18:00	81.9875882	24.98981688	-0.097734598
30	38549.79167	35.571	38549.79167	12.961	38549.79167	-1278.743014		38549.79167	35.49439656				7/16/2005 19:00	81.99205606	24.99117869	-0.096372792
31	38549.83333	35.571	38549.83333	12.966	38549.83333	-1162.063028		38549.83333	35.49998177				7/16/2005 20:00	82.0049579	24.99511117	-0.092440313
32	38549.875	35.568	38549.875	12.976	38549.875	-898.271912		38549.875	35.50427994				7/16/2005 21:00	82.01486667	24.99813746	-0.089414024
33	38549.91667	35.565	38549.91667	12.983	38549.91667	-535.5855		38549.91667	35.50515758				7/16/2005 22:00	82.01691397	24.99875538	-0.088796102
34	38549.95833	35.568	38549.95833	12.988	38549.95833	-140.482746		38549.95833	35.50872551				7/16/2005 23:00	82.02515592	25.00126753	-0.086283955
35	38550	35.573	38550	12.984	38550	216.84047		38550	35.50824574				7/17/2005 0:00	82.02404767	25.00092973	-0.086621751
36	38550.04167	35.584	38550.04167	12.979	38550.04167	478.563422		38550.04167	35.51293786				7/17/2005 1:00	82.03488646	25.00423339	-0.083318088
37	38550.08333	35.589	38550.08333	12.976	38550.08333	612.809174		38550.08333	35.51506425				7/17/2005 2:00	82.03979841	25.00573055	-0.081820927
38	38550.125	35.587	38550.125	12.973	38550.125	620.830575		38550.125	35.51381135				7/17/2005 3:00	82.03690423	25.00484841	-0.082703073
39	38550.16667	35.579	38550.16667	12.974	38550.16667	535.414212		38550.16667	35.51241998				7/17/2005 4:00	82.03369016	25.00386876	-0.083682718
40	38550.20833	35.571	38550.20833	12.979	38550.20833	410.546468		38550.20833	35.51692476				7/17/2005 5:00	82.04409619	25.00704052	-0.080510963
41	38550.25	35.555	38550.25	12.983	38550.25	305.078224		38550.25	35.51457546				7/17/2005 6:00	82.03866932	25.00538641	-0.082165071
42	38550.29167	35.547	38550.29167	12.985	38550.29167	265.100835		38550.29167	35.51818054				7/17/2005 7:00	82.04699704	25.0079247	-0.079626783
43	38550.33333	35.536	38550.33333	12.987	38550.33333	310.22716		38550.33333	35.51600679				7/17/2005 8:00	82.04197568	25.00639419	-0.081157293
44	38550.375	35.539	38550.375	12.987	38550.375	427.744227		38550.375	35.52220708				7/17/2005 9:00	82.05629836	25.01075974	-0.076791741
45	38550.41667	35.541	38550.41667	12.986	38550.41667	576.136446		38550.41667	35.52163757				7/17/2005 10:00	82.05498278	25.01035875	-0.077192729
46	38550.45833	35.555	38550.45833	12.983	38550.45833	696.694494		38550.45833	35.52700689				7/17/2005 11:00	82.06738592	25.01413923	-0.073412252
47	38550.5	35.571	38550.5	12.976	38550.5	729.770884		38550.5	35.52817969				7/17/2005 12:00	82.07009508	25.01496498	-0.072586499
48	38550.54167	35.592	38550.54167	12.963	38550.54167	631.292276		38550.54167	35.52878732				7/17/2005 13:00	82.07149872	25.01539281	-0.072158672
49	38550.58333	35.616	38550.58333	12.95	38550.58333	385.443274		38550.58333	35.53220378				7/17/2005 14:00	82.07939072	25.01779829	-0.069753188
50	38550.625	35.635	38550.625	12.942	38550.625	10.653389		38550.625	35.53611676				7/17/2005 15:00	82.08842972	25.02055338	-0.066998101



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure	Detrended			BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	5/16/2005	43.129	38488.04167	13	38488.04167	-347.202132		38488.04167	43.129	43.129			5/16/2005 1:00	99.62799	30.36661135	-0.57081477
3	38488.08333	43.134	38488.08333	12.992	38488.08333	-517.162958		38488.08333	43.129	43.12880328			5/16/2005 2:00	99.62753557	30.36647284	-0.570953279
4	38488.125	43.137	38488.125	12.997	38488.125	-654.203765		38488.125	43.129	43.12850651			5/16/2005 3:00	99.62708104	30.3663343	-0.571091821
5	38488.16667	43.139	38488.16667	12.998	38488.16667	-722.074018		38488.16667	43.129	43.12840974			5/16/2005 4:00	99.62662651	30.36619576	-0.571230363
6	38488.20833	43.145	38488.20833	12.997	38488.20833	-695.886913		38488.20833	43.129	43.12821302			5/16/2005 5:00	99.62617208	30.36605725	-0.571368872
7	38488.25	43.145	38488.25	12.998	38488.25	-569.783143		38488.25	43.129	43.12801635			5/16/2005 6:00	99.62571755	30.36591871	-0.571507414
8	38488.29167	43.147	38488.29167	12.999	38488.29167	-359.659295		38488.29167	43.129	43.12781949			5/16/2005 7:00	99.62526301	30.36578017	-0.571645956
9	38488.33333	43.15	38488.33333	13	38488.33333	-100.078939		38488.33333	43.129	43.12762277			5/16/2005 8:00	99.62480859	30.36564166	-0.571784465
10	38488.375	43.153	38488.375	12.99	38488.375	163.647954		38488.375	43.129	43.127426			5/16/2005 9:00	99.62435405	30.36550312	-0.571923007
11	38488.41667	43.156	38488.41667	12.982	38488.41667	385.829231		38488.41667	43.129	43.12722923			5/16/2005 10:00	99.62389952	30.36536457	-0.572061549
12	38488.45833	43.161	38488.45833	12.973	38488.45833	530.347678		38488.45833	43.129	43.12703251			5/16/2005 11:00	99.62344509	30.36522606	-0.572200058
13	38488.5	43.164	38488.5	12.96	38488.5	577.844261		38488.5	43.129	43.12683574			5/16/2005 12:00	99.62299056	30.36508752	-0.5723386
14	38488.54167	43.169	38488.54167	12.948	38488.54167	528.810324		38488.54167	43.129	43.12663897			5/16/2005 13:00	99.62253603	30.36494898	-0.572477142
15	38488.58333	43.174	38488.58333	12.935	38488.58333	402.389892		38488.58333	43.129	43.12644225			5/16/2005 14:00	99.6220816	30.36481047	-0.572615651
16	38488.625	43.177	38488.625	12.921	38488.625	231.536952		38488.625	43.129	43.12624548			5/16/2005 15:00	99.62162707	30.36467193	-0.572754193
17	38488.66667	43.185	38488.66667	12.912	38488.66667	55.662482		38488.66667	43.129	43.12604871			5/16/2005 16:00	99.62117253	30.36453339	-0.572892735
18	38488.70833	43.187	38488.70833	12.903	38488.70833	-87.849472		38488.70833	43.129	43.12585199			5/16/2005 17:00	99.62071811	30.36439488	-0.573031244
19	38488.75	43.195	38488.75	12.899	38488.75	-171.745902		38488.75	43.129	43.12565523			5/16/2005 18:00	99.62026357	30.36425634	-0.573169786
20	38488.79167	43.195	38488.79167	12.897	38488.79167	-185.068999		38488.79167	43.129	43.12545846			5/16/2005 19:00	99.61980904	30.36411779	-0.573308328
21	38488.83333	43.2	38488.83333	12.9	38488.83333	-135.942746		38488.83333	43.129	43.12526174			5/16/2005 20:00	99.61935461	30.36397929	-0.573446836
22	38488.875	43.206	38488.875	12.901	38488.875	-49.977628		38488.875	43.129	43.12506497			5/16/2005 21:00	99.61890008	30.36384074	-0.573585379
23	38488.91667	43.211	38488.91667	12.898	38488.91667	35.885421		38488.91667	43.129	43.1248682			5/16/2005 22:00	99.61844554	30.3637022	-0.573723921
24	38488.95833	43.216	38488.95833	12.899	38488.95833	83.12138		38488.95833	43.129	43.12467148			5/16/2005 23:00	99.61799112	30.36356369	-0.573862429
25	38489	43.222	38489	12.897	38489	62.776541		38489	43.129	43.12447471			5/17/2005 0:00	99.61753658	30.36342515	-0.574000971
26	38489.04167	43.227	38489.04167	12.895	38489.04167	-34.997819		38489.04167	43.129	43.12427794			5/17/2005 1:00	99.61708205	30.36328661	-0.574139513
27	38489.08333	43.23	38489.08333	12.896	38489.08333	-196.104132		38489.08333	43.129	43.12408122			5/17/2005 2:00	99.61662763	30.3631481	-0.574278022
28	38489.125	43.235	38489.125	12.892	38489.125	-384.395103		38489.125	43.129	43.12388445			5/17/2005 3:00	99.61617309	30.36300956	-0.574416564
29	38489.16667	43.24	38489.16667	12.89	38489.16667	-550.407941		38489.16667	43.129	43.12368769			5/17/2005 4:00	99.61571856	30.36287102	-0.574555106
30	38489.20833	43.246	38489.20833	12.893	38489.20833	-644.769209		38489.20833	43.129	43.12349097			5/17/2005 5:00	99.61526413	30.36273251	-0.574693615
31	38489.25	43.249	38489.25	12.898	38489.25	-632.379104		38489.25	43.129	43.1232942			5/17/2005 6:00	99.6148096	30.36259397	-0.574832157
32	38489.29167	43.251	38489.29167	12.899	38489.29167	-503.044593		38489.29167	43.129	43.12309743			5/17/2005 7:00	99.61435506	30.36245542	-0.574970699
33	38489.33333	43.256	38489.33333	12.9	38489.33333	-275.312863		38489.33333	43.129	43.12290071			5/17/2005 8:00	99.61390064	30.36231691	-0.575109208
34	38489.375	43.259	38489.375	12.899	38489.375	7.554674		38489.375	43.129	43.12270394			5/17/2005 9:00	99.6134461	30.36217837	-0.57524775
35	38489.41667	43.259	38489.41667	12.896	38489.41667	288.102174		38489.41667	43.129	43.12250717			5/17/2005 10:00	99.61299157	30.36203983	-0.575386292
36	38489.45833	43.264	38489.45833	12.891	38489.45833	508.559006		38489.45833	43.129	43.12231046			5/17/2005 11:00	99.61253714	30.36190132	-0.575524801
37	38489.5	43.269	38489.5	12.882	38489.5	624.342554		38489.5	43.129	43.12211368			5/17/2005 12:00	99.61208261	30.36176278	-0.575663343
38	38489.54167	43.275	38489.54167	12.875	38489.54167	613.975256		38489.54167	43.129	43.12191692			5/17/2005 13:00	99.61162808	30.36162424	-0.575801885
39	38489.58333	43.28	38489.58333	12.865	38489.58333	483.43396		38489.58333	43.129	43.12172015			5/17/2005 14:00	99.61117365	30.36148573	-0.575940394
40	38489.625	43.283	38489.625	12.859	38489.625	264.356378		38489.625	43.129	43.12152343			5/17/2005 15:00	99.61071912	30.36134719	-0.576078936
41	38489.66667	43.291	38489.66667	12.857	38489.66667	6.761812		38489.66667	43.129	43.12132666			5/17/2005 16:00	99.61026458	30.36120864	-0.576217478
42	38489.70833	43.296	38489.70833	12.857	38489.70833	-232.120653		38489.70833	43.129	43.12112994			5/17/2005 17:00	99.60981016	30.36107014	-0.576355987
43	38489.75	43.299	38489.75	12.861	38489.75	-400.67305		38489.75	43.129	43.12093317			5/17/2005 18:00	99.60935562	30.36093159	-0.576494529
44	38489.79167	43.299	38489.79167	12.867	38489.79167	-464.748902		38489.79167	43.129	43.1207364			5/17/2005 19:00	99.60890109	30.36079305	-0.576633071
45	38489.83333	43.304	38489.83333	12.873	38489.83333	-415.957792		38489.83333	43.129	43.12053968			5/17/2005 20:00	99.60844666	30.36065454	-0.57677158
46	38489.875	43.307	38489.875	12.881	38489.875	-274.234906		38489.875	43.129	43.12034291			5/17/2005 21:00	99.60799213	30.360516	-0.576910122
47	38489.91667	43.309	38489.91667	12.885	38489.91667	-83.587074		38489.91667	43.129	43.12014614			5/17/2005 22:00	99.60753759	30.36037746	-0.577048664
48	38489.95833	43.312	38489.95833	12.89	38489.95833	98.576487		38489.95833	43.129	43.11994942			5/17/2005 23:00	99.60708317	30.36023895	-0.577187172
49	38490	43.312	38490	12.89	38490	216.384165		38490	43.129	43.11975266			5/18/2005 0:00	99.60662863	30.36010041	-0.577325715
50	38490.04167	43.317	38490.04167	12.892	38490.04167	231.069749		38490.04167	43.129	43.11955589			5/18/2005 1:00	99.6061741	30.35996187	-0.577464257



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure				BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	38551.41667	52.148	38551.41667	12.988	38551.41667	471.229417		38551.41667	52.148				7/18/2005 10:00	120.46188	36.71678102	0.659662934
3	38551.45833	51.778	38551.45833	12.992	38551.45833	651.836518		38551.45833	52.148				7/18/2005 11:00	120.46188	36.71678102	0.659662934
4	38551.5	51.576	38551.5	12.984	38551.5	798.519374		38551.5	52.148				7/18/2005 12:00	120.46188	36.71678102	0.659662934
5	38551.54167	51.453	38551.54167	12.972	38551.54167	837.403383		38551.54167	52.148				7/18/2005 13:00	120.46188	36.71678102	0.659662934
6	38551.58333	51.379	38551.58333	12.964	38551.58333	715.292555		38551.58333	52.148				7/18/2005 14:00	120.46188	36.71678102	0.659662934
7	38551.625	51.333	38551.625	12.956	38551.625	415.31526		38551.625	52.148				7/18/2005 15:00	120.46188	36.71678102	0.659662934
8	38551.66667	51.308	38551.66667	12.949	38551.66667	-36.284451		38551.66667	52.148				7/18/2005 16:00	120.46188	36.71678102	0.659662934
9	38551.70833	51.293	38551.70833	12.944	38551.70833	-573.702143		38551.70833	52.148				7/18/2005 17:00	120.46188	36.71678102	0.659662934
10	38551.75	51.278	38551.75	12.948	38551.75	-1104.604216		38551.75	52.148				7/18/2005 18:00	120.46188	36.71678102	0.659662934
11	38551.79167	51.266	38551.79167	12.958	38551.79167	-1529.722359		38551.79167	52.148				7/18/2005 19:00	120.46188	36.71678102	0.659662934
12	38551.83333	51.251	38551.83333	12.968	38551.83333	-1764.697957		38551.83333	52.148				7/18/2005 20:00	120.46188	36.71678102	0.659662934
13	38551.875	51.234	38551.875	12.977	38551.875	-1759.320341		38551.875	52.148				7/18/2005 21:00	120.46188	36.71678102	0.659662934
14	38551.91667	51.219	38551.91667	12.986	38551.91667	-1509.730555		38551.91667	52.148				7/18/2005 22:00	120.46188	36.71678102	0.659662934
15	38551.95833	51.204	38551.95833	12.988	38551.95833	-1060.537153		38551.95833	51.20928159				7/18/2005 23:00	118.2934405	36.05584065	-0.001277436
16	38552	51.194	38552	12.989	38552	-495.917504		38552	51.20272834				7/19/2005 0:00	118.2783025	36.05122659	-0.005891495
17	38552.04167	51.189	38552.04167	12.99	38552.04167	78.715762		38552.04167	51.19854228				7/19/2005 1:00	118.2686327	36.04827924	-0.008838852
18	38552.08333	51.187	38552.08333	12.994	38552.08333	560.534112		38552.08333	51.19499639				7/19/2005 2:00	118.2604417	36.04578262	-0.011335474
19	38552.125	51.187	38552.125	12.99	38552.125	872.99985		38552.125	51.19375624				7/19/2005 3:00	118.2575769	36.04490945	-0.012208643
20	38552.16667	51.187	38552.16667	12.991	38552.16667	983.4628		38552.16667	51.1922275				7/19/2005 4:00	118.2540455	36.04383308	-0.013285011
21	38552.20833	51.185	38552.20833	12.995	38552.20833	909.812389		38552.20833	51.19053946				7/19/2005 5:00	118.2501461	36.04264455	-0.014473544
22	38552.25	51.177	38552.25	13	38552.25	713.991381		38552.25	51.18686195				7/19/2005 6:00	118.2416511	36.04005526	-0.017062834
23	38552.29167	51.165	38552.29167	13.004	38552.29167	483.716293		38552.29167	51.18405157				7/19/2005 7:00	118.2351591	36.0380765	-0.019041588
24	38552.33333	51.158	38552.33333	13.006	38552.33333	307.187217		38552.33333	51.19001331				7/19/2005 8:00	118.2489307	36.04227409	-0.014843999
25	38552.375	51.14	38552.375	13.004	38552.375	247.783555		38552.375	51.18618991				7/19/2005 9:00	118.2400987	36.03958208	-0.017536005
26	38552.41667	51.13	38552.41667	12.999	38552.41667	325.913222		38552.41667	51.19006907				7/19/2005 10:00	118.2491058	36.04232743	-0.014790656
27	38552.45833	51.118	38552.45833	12.992	38552.45833	513.163116		38552.45833	51.18893948				7/19/2005 11:00	118.2464502	36.04151802	-0.015600067
28	38552.5	51.116	38552.5	12.986	38552.5	740.316578		38552.5	51.19210174				7/19/2005 12:00	118.253755	36.04374453	-0.013373558
29	38552.54167	51.12	38552.54167	12.978	38552.54167	916.832337		38552.54167	51.19465646				7/19/2005 13:00	118.2596564	36.04554328	-0.011574812
30	38552.58333	51.13	38552.58333	12.968	38552.58333	956.271543		38552.58333	51.19659035				7/19/2005 14:00	118.2641237	36.04690491	-0.010213181
31	38552.625	51.148	38552.625	12.959	38552.625	800.779192		38552.625	51.20082336				7/19/2005 15:00	118.273902	36.04988531	-0.007232776
32	38552.66667	51.165	38552.66667	12.954	38552.66667	438.294758		38552.66667	51.20086163				7/19/2005 16:00	118.2739904	36.04991226	-0.00720583
33	38552.70833	51.182	38552.70833	12.954	38552.70833	-91.697356		38552.70833	51.20126617				7/19/2005 17:00	118.2749249	36.0501971	-0.006920995
34	38552.75	51.194	38552.75	12.958	38552.75	-705.096786		38552.75	51.2000863				7/19/2005 18:00	118.2721994	36.04936637	-0.007751725
35	38552.79167	51.202	38552.79167	12.965	38552.79167	-1290.99918		38552.79167	51.19951134				7/19/2005 19:00	118.2708712	36.04896154	-0.008156551
36	38552.83333	51.202	38552.83333	12.975	38552.83333	-1736.174565		38552.83333	51.19595331				7/19/2005 20:00	118.2626521	36.04645637	-0.010661716
37	38552.875	51.197	38552.875	12.984	38552.875	-1950.588688		38552.875	51.1925482				7/19/2005 21:00	118.2547863	36.04405888	-0.013059215
38	38552.91667	51.189	38552.91667	12.991	38552.91667	-1888.150627		38552.91667	51.18977774				7/19/2005 22:00	118.2483866	36.04210823	-0.015009859
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40	38553	51.177	38553	12.995	38553	-1022.825363		38553	51.1893024				7/20/2005 0:00	118.2472885	36.04177355	-0.015344544
41	38553.04167	51.175	38553.04167	12.997	38553.04167	-386.442026		38553.04167	51.1893468				7/20/2005 1:00	118.2473911	36.04180481	-0.015313283
42	38553.08333	51.172	38553.08333	12.998	38553.08333	230.386698		38553.08333	51.1858029				7/20/2005 2:00	118.2392047	36.03930959	-0.0178085
43	38553.125	51.177	38553.125	13.005	38553.125	716.93107		38553.125	51.18784634				7/20/2005 3:00	118.2439251	36.04074836	-0.016369733
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45	38553.20833	51.182	38553.20833	13.004	38553.20833	1051.222267		38553.20833	51.1891785				7/20/2005 5:00	118.2470023	36.04168631	-0.015431781
46	38553.25	51.177	38553.25	13.014	38553.25	910.388104		38553.25	51.18471187				7/20/2005 6:00	118.2366844	36.03854141	-0.018576681
47	38553.29167	51.17	38553.29167	13.021	38553.29167	655.347716		38553.29167	51.1843349				7/20/2005 7:00	118.2358136	36.03827599	-0.018842098
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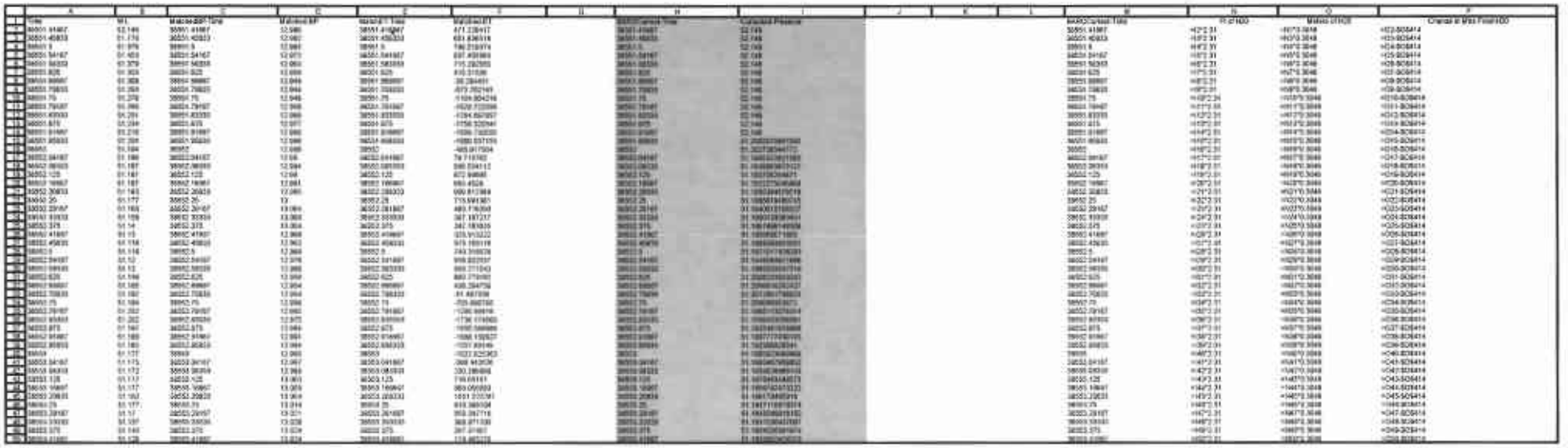
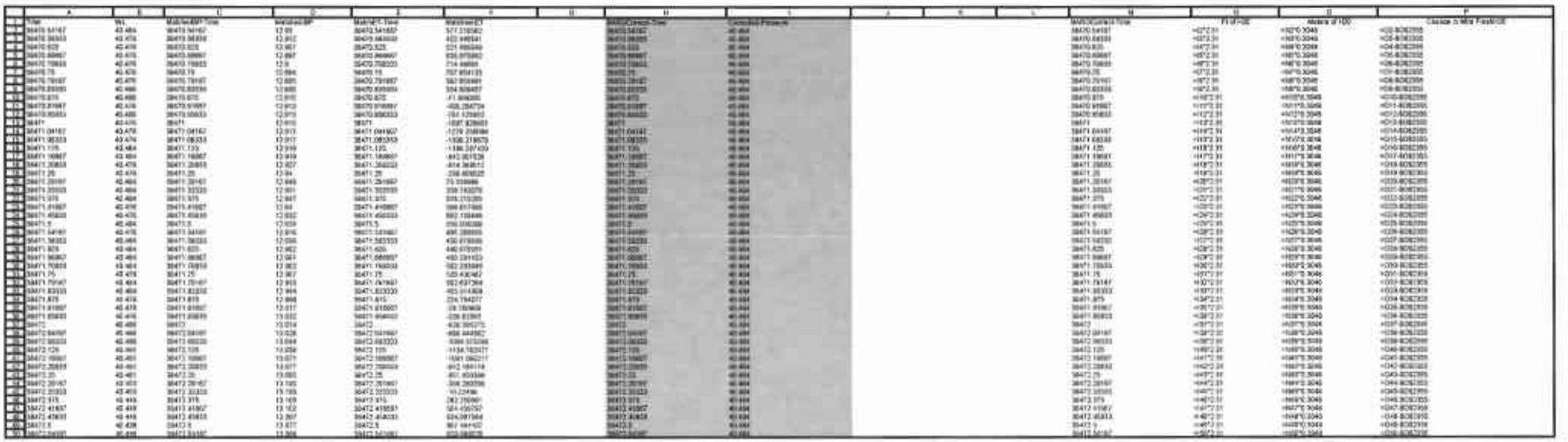
50	38553.41667	51.128	38553.41667	13.024	38553.41667	174.485278		38553.41667	51.18556524				7/20/2005 10:00	118.2386557	36.03914226	-0.01797583



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure				BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	38470.54167	40.484	38470.54167	12.93	38470.54167	377.210582		38470.54167	40.484				4/28/2005 13:00	93.51804	28.50429859	-0.204409705
3	38470.58333	40.476	38470.58333	12.912	38470.58333	422.445541		38470.58333	40.484				4/28/2005 14:00	93.51804	28.50429859	-0.204409705
4	38470.625	40.476	38470.625	12.901	38470.625	521.485049		38470.625	40.484				4/28/2005 15:00	93.51804	28.50429859	-0.204409705
5	38470.66667	40.476	38470.66667	12.897	38470.66667	635.975992		38470.66667	40.484				4/28/2005 16:00	93.51804	28.50429859	-0.204409705
6	38470.70833	40.476	38470.70833	12.9	38470.70833	714.49064		38470.70833	40.484				4/28/2005 17:00	93.51804	28.50429859	-0.204409705
7	38470.75	40.476	38470.75	12.894	38470.75	707.654125		38470.75	40.484				4/28/2005 18:00	93.51804	28.50429859	-0.204409705
8	38470.79167	40.476	38470.79167	12.895	38470.79167	582.950491		38470.79167	40.484				4/28/2005 19:00	93.51804	28.50429859	-0.204409705
9	38470.83333	40.468	38470.83333	12.905	38470.83333	334.939457		38470.83333	40.484				4/28/2005 20:00	93.51804	28.50429859	-0.204409705
10	38470.875	40.468	38470.875	12.915	38470.875	-11.908305		38470.875	40.484				4/28/2005 21:00	93.51804	28.50429859	-0.204409705
11	38470.91667	40.476	38470.91667	12.913	38470.91667	-408.264734		38470.91667	40.484				4/28/2005 22:00	93.51804	28.50429859	-0.204409705
12	38470.95833	40.468	38470.95833	12.913	38470.95833	-791.123932		38470.95833	40.484				4/28/2005 23:00	93.51804	28.50429859	-0.204409705
13	38471	40.476	38471	12.915	38471	-1097.826801		38471	40.484				4/29/2005 0:00	93.51804	28.50429859	-0.204409705
14	38471.04167	40.476	38471.04167	12.913	38471.04167	-1279.259098		38471.04167	40.484				4/29/2005 1:00	93.51804	28.50429859	-0.204409705
15	38471.08333	40.476	38471.08333	12.917	38471.08333	-1309.219678		38471.08333	40.484				4/29/2005 2:00	93.51804	28.50429859	-0.204409705
16	38471.125	40.484	38471.125	12.919	38471.125	-1188.287429		38471.125	40.484				4/29/2005 3:00	93.51804	28.50429859	-0.204409705
17	38471.16667	40.484	38471.16667	12.919	38471.16667	-942.001526		38471.16667	40.484				4/29/2005 4:00	93.51804	28.50429859	-0.204409705
18	38471.20833	40.476	38471.20833	12.927	38471.20833	-614.389012		38471.20833	40.484				4/29/2005 5:00	93.51804	28.50429859	-0.204409705
19	38471.25	40.476	38471.25	12.94	38471.25	-258.605025		38471.25	40.484				4/29/2005 6:00	93.51804	28.50429859	-0.204409705
20	38471.29167	40.484	38471.29167	12.949	38471.29167	73.316988		38471.29167	40.484				4/29/2005 7:00	93.51804	28.50429859	-0.204409705
21	38471.33333	40.484	38471.33333	12.951	38471.33333	339.743076		38471.33333	40.484				4/29/2005 8:00	93.51804	28.50429859	-0.204409705
22	38471.375	40.484	38471.375	12.947	38471.375	516.215205		38471.375	40.484				4/29/2005 9:00	93.51804	28.50429859	-0.204409705
23	38471.41667	40.476	38471.41667	12.94	38471.41667	598.617466		38471.41667	40.484				4/29/2005 10:00	93.51804	28.50429859	-0.204409705
24	38471.45833	40.476	38471.45833	12.932	38471.45833	602.130446		38471.45833	40.484				4/29/2005 11:00	93.51804	28.50429859	-0.204409705
25	38471.5	40.484	38471.5	12.924	38471.5	556.036368		38471.5	40.484				4/29/2005 12:00	93.51804	28.50429859	-0.204409705
26	38471.54167	40.476	38471.54167	12.916	38471.54167	495.289555		38471.54167	40.484				4/29/2005 13:00	93.51804	28.50429859	-0.204409705
27	38471.58333	40.484	38471.58333	12.908	38471.58333	450.679936		38471.58333	40.484				4/29/2005 14:00	93.51804	28.50429859	-0.204409705
28	38471.625	40.484	38471.625	12.902	38471.625	440.079351		38471.625	40.484				4/29/2005 15:00	93.51804	28.50429859	-0.204409705
29	38471.66667	40.484	38471.66667	12.901	38471.66667	463.291433		38471.66667	40.484				4/29/2005 16:00	93.51804	28.50429859	-0.204409705
30	38471.70833	40.484	38471.70833	12.902	38471.70833	502.203946		38471.70833	40.484				4/29/2005 17:00	93.51804	28.50429859	-0.204409705
31	38471.75	40.476	38471.75	12.907	38471.75	526.400487		38471.75	40.484				4/29/2005 18:00	93.51804	28.50429859	-0.204409705
32	38471.79167	40.484	38471.79167	12.915	38471.79167	502.637264		38471.79167	40.484				4/29/2005 19:00	93.51804	28.50429859	-0.204409705
33	38471.83333	40.484	38471.83333	12.944	38471.83333	405.314309		38471.83333	40.484				4/29/2005 20:00	93.51804	28.50429859	-0.204409705
34	38471.875	40.476	38471.875	12.998	38471.875	224.794077		38471.875	40.484				4/29/2005 21:00	93.51804	28.50429859	-0.204409705
35	38471.91667	40.476	38471.91667	13.017	38471.91667	-28.760909		38471.91667	40.484				4/29/2005 22:00	93.51804	28.50429859	-0.204409705
36	38471.95833	40.476	38471.95833	13.032	38471.95833	-326.82363		38471.95833	40.484				4/29/2005 23:00	93.51804	28.50429859	-0.204409705
37	38472	40.468	38472	13.014	38472	-628.395275		38472	40.484				4/30/2005 0:00	93.51804	28.50429859	-0.204409705
38	38472.04167	40.468	38472.04167	13.028	38472.04167	-888.444582		38472.04167	40.484				4/30/2005 1:00	93.51804	28.50429859	-0.204409705
39	38472.08333	40.468	38472.08333	13.044	38472.08333	-1066.675266		38472.08333	40.484				4/30/2005 2:00	93.51804	28.50429859	-0.204409705
40	38472.125	40.461	38472.125	13.059	38472.125	-1134.782477		38472.125	40.484				4/30/2005 3:00	93.51804	28.50429859	-0.204409705
41	38472.16667	40.461	38472.16667	13.071	38472.16667	-1081.090217		38472.16667	40.484				4/30/2005 4:00	93.51804	28.50429859	-0.204409705
42	38472.20833	40.461	38472.20833	13.077	38472.20833	-912.184114		38472.20833	40.484				4/30/2005 5:00	93.51804	28.50429859	-0.204409705
43	38472.25	40.461	38472.25	13.093	38472.25	-651.650388		38472.25	40.484				4/30/2005 6:00	93.51804	28.50429859	-0.204409705
44	38472.29167	40.453	38472.29167	13.105	38472.29167	-336.280399		38472.29167	40.484				4/30/2005 7:00	93.51804	28.50429859	-0.204409705
45	38472.33333	40.453	38472.33333	13.108	38472.33333	-10.22498		38472.33333	40.484				4/30/2005 8:00	93.51804	28.50429859	-0.204409705
46	38472.375	40.446	38472.375	13.105	38472.375	282.250981		38472.375	40.484				4/30/2005 9:00	93.51804	28.50429859	-0.204409705
47	38472.41667	40.446	38472.41667	13.102	38472.41667	504.459797		38472.41667	40.484				4/30/2005 10:00	93.51804	28.50429859	-0.204409705
48	38472.45833	40.446	38472.45833	13.097	38472.45833	634.087064		38472.45833	40.484				4/30/2005 11:00	93.51804	28.50429859	-0.204409705
49	38472.5	40.438	38472.5	13.077	38472.5	667.494107		38472.5	40.484				4/30/2005 12:00	93.51804	28.50429859	-0.204409705
50	38472.54167	40.446	38472.54167	13.066	38472.54167	620.088029		38472.54167	40.484				4/30/2005 13:00	93.51804	28.50429859	-0.204409705



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	WL'		BAROCorrect-Time	Corrected-Pressure	Shifted Corrected PSI	Detrended	BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	38551.5	47.286	38551.5	12.984	38551.5	798.519374	34.302		38551.5	34.302	34.302	34.302	7/18/2005 12:00	79.23762	24.15162658	-0.073888126
3	38551.54167	47.278	38551.54167	12.972	38551.54167	837.403383	34.306		38551.54167	34.302	34.302	34.30173831	7/18/2005 13:00	79.23701549	24.15144232	-0.07407238
4	38551.58333	47.294	38551.58333	12.964	38551.58333	715.292555	34.33		38551.58333	34.302	34.302	34.30147988	7/18/2005 14:00	79.23641113	24.15125811	-0.07425659
5	38551.625	47.294	38551.625	12.956	38551.625	415.31526	34.338		38551.625	34.302	34.302	34.30121459	7/18/2005 15:00	79.23580662	24.15107386	-0.074440844
6	38551.66667	47.31	38551.66667	12.949	38551.66667	-36.284451	34.361		38551.66667	34.302	34.302	34.30095329	7/18/2005 16:00	79.23520211	24.1508896	-0.074625098
7	38551.70833	47.327	38551.70833	12.944	38551.70833	-573.702143	34.383		38661.70833	34.302	34.302	34.30069167	7/18/2005 17:00	79.23459775	24.15070539	-0.074809308
8	38551.75	47.335	38551.75	12.948	38551.75	-1104.604216	34.387		38551.75	34.302	34.302	34.30042997	7/18/2005 18:00	79.23399324	24.15052114	-0.074993563
9	38551.79167	47.351	38551.79167	12.958	38551.79167	-1529.722359	34.393		38551.79167	34.302	34.302	34.30016828	7/18/2005 19:00	79.23338873	24.15033688	-0.075177817
10	38551.83333	47.351	38551.83333	12.968	38551.83333	-1764.697957	34.383		38551.83333	34.302	34.302	34.29990656	7/18/2005 20:00	79.23278437	24.15015267	-0.075362027
11	38551.875	47.359	38551.875	12.977	38551.875	-1759.320341	34.382		38551.875	34.302	34.302	34.29964496	7/18/2005 21:00	79.23217986	24.14996842	-0.075546281
12	38551.91667	47.368	38551.91667	12.986	38551.91667	-1509.730555	34.382		38551.91667	34.302	34.302	34.29938327	7/18/2005 22:00	79.23157535	24.14978417	-0.075730535
13	38551.95833	47.351	38551.95833	12.988	38551.95833	-1060.537153	34.363		38551.95833	34.302	34.302	34.29912164	7/18/2005 23:00	79.23097099	24.14959996	-0.075914745
14	38552	47.343	38552	12.989	38552	-495.917504	34.354		38552	34.302	34.302	34.29886995	7/19/2005 0:00	79.23036648	24.1494157	-0.076099
15	38552.04167	47.351	38552.04167	12.99	38552.04167	78.715762	34.361		38552.04167	34.302	34.302	34.29859826	7/19/2005 1:00	79.22976197	24.14923145	-0.076283254
16	38552.08333	47.359	38552.08333	12.994	38552.08333	560.534112	34.365		38552.08333	34.302	34.302	34.29833663	7/19/2005 2:00	79.2291576	24.14904724	-0.076467464
17	38552.125	47.359	38552.125	12.99	38552.125	872.99985	34.369		38552.125	34.36721416	34.36721416	34.36329509	7/19/2005 3:00	79.37919781	24.19477949	-0.030735211
18	38552.16667	47.368	38552.16667	12.991	38552.16667	983.4628	34.377		38552.16667	34.37349474	34.37349474	34.36930736	7/19/2005 4:00	79.39310144	24.19901732	-0.026497383
19	38552.20833	47.376	38552.20833	12.995	38552.20833	909.812389	34.381		38552.20833	34.37862913	34.37862913	34.37418074	7/19/2005 5:00	79.4043575	24.20244817	-0.023066534
20	38552.25	47.375	38552.25	13	38552.25	713.991381	34.375		38552.25	34.37696816	34.37698816	34.37227900	7/19/2005 6:00	79.39996236	24.20110853	-0.024406174
21	38552.29167	47.376	38552.29167	13.004	38552.29167	483.716293	34.372		38552.29167	34.38229055	34.38229055	34.37731876	7/19/2005 7:00	79.41160639	24.20465763	-0.020857075
22	38552.33333	47.368	38552.33333	13.006	38552.33333	307.187217	34.362		38552.33333	34.38344416	34.38344416	34.37821078	7/19/2005 8:00	79.41366686	24.20528566	-0.020229043
23	38552.375	47.351	38552.375	13.004	38552.375	247.783555	34.347		38552.375	34.38024634	34.38024634	34.37475126	7/19/2005 9:00	79.40567539	24.20284986	-0.022664843
24	38552.41667	47.335	38552.41667	12.999	38552.41667	325.913222	34.336		38552.41667	34.37966175	34.37966175	34.37390497	7/19/2005 10:00	79.40372048	24.202254	-0.0232607
25	38552.45833	47.327	38552.45833	12.992	38552.45833	513.163116	34.335		38552.45833	34.38560483	34.38560483	34.37968642	7/19/2005 11:00	79.41684463	24.20625424	-0.01926046
26	38552.5	47.319	38552.5	12.986	38552.5	740.316578	34.333		38552.5	34.38530656	34.38530656	34.37900845	7/19/2005 12:00	79.4155511	24.20585997	-0.019654727
27	38552.54167	47.302	38552.54167	12.978	38552.54167	916.832337	34.324		38552.54167	34.37226411	34.37226411	34.36572231	7/19/2005 13:00	79.38481853	24.19649269	-0.029022014
28	38552.58333	47.319	38552.58333	12.968	38552.58333	956.271543	34.351		38552.58333	34.38835586	34.38835586	34.38155243	7/19/2005 14:00	79.42138611	24.20763849	-0.017876216
29	38552.625	47.327	38552.625	12.959	38552.625	800.779192	34.368		38552.625	34.39072964	34.39072964	34.38366452	7/19/2005 15:00	79.42626504	24.20912558	-0.016389117
30	38552.66667	47.343	38552.66667	12.954	38552.66667	438.294758	34.389		38552.66667	34.39506747	34.39506747	34.38774068	7/19/2005 16:00	79.43568092	24.21199555	-0.013519156
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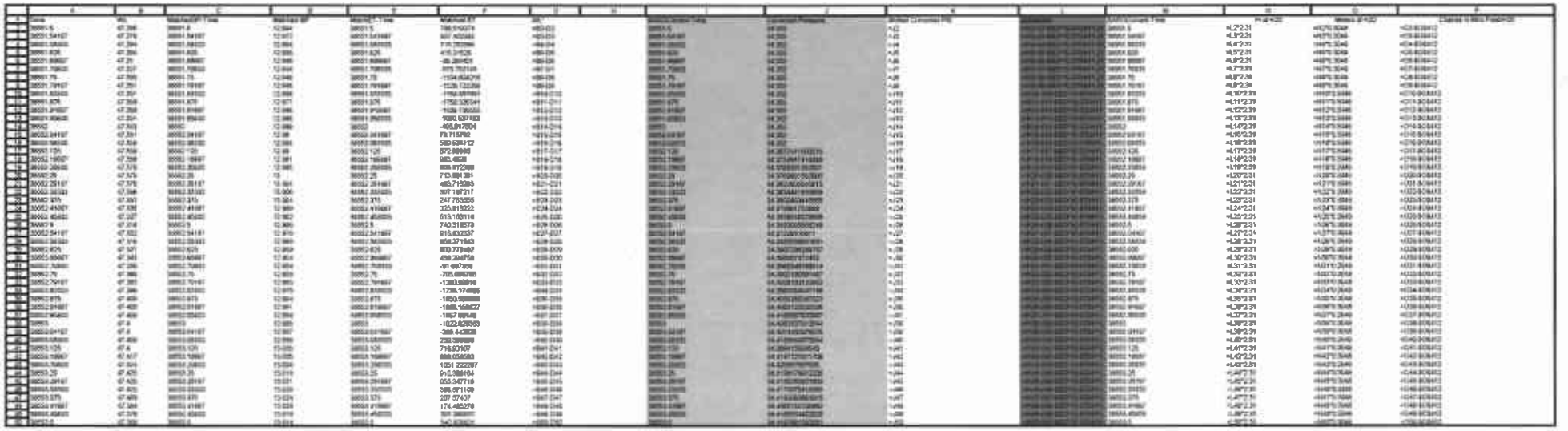
32	38552.75	47.368	38552.75	12.958	38552.75	-705.096786	34.41		38552.75	34.3902181	34.3902181	34.38236797	7/19/2005 18:00	79.42327	24.2082127	-0.017302006
33	38552.79167	47.383	38552.79167	12.965	38552.79167	-1290.99918	34.418		38552.79167	34.39281021	34.39281021	34.38669839	7/19/2005 19:00	79.42865327	24.20985352	-0.015661184
34	38552.83333	47.399	38552.83333	12.975	38552.83333	-1736.174565	34.424		38552.83333	34.39934546	34.39934546	34.39097201	7/19/2005 20:00	79.44314534	24.2142707	-0.011244001
35	38552.875	47.409	38552.875	12.984	38552.875	-1950.568688	34.425		38552.875	34.40563693	34.40563693	34.39700178	7/19/2005 21:00	79.45707413	24.21851619	-0.006998507
36	38552.91667	47.409	38552.91667	12.991	38552.91667	-1888.150627	34.418		38552.91667	34.40631235	34.40631235	34.39741551	7/19/2005 22:00	79.45802984	24.21880749	-0.006707207
37	38552.95833	47.409	38552.95833	12.994	38552.95833	-1557.89149	34.415		38552.95833	34.41095676	34.41095676	34.40178829	7/19/2005 23:00	79.46815406	24.22189336	-0.003621344
38	38553	47.4	38553	12.995	38553	-1022.825363	34.405		38553	34.4063537	34.4063537	34.39893554	7/20/2005 0:00	79.45691648	24.21846814	-0.007046559
39	38553.04167	47.4	38553.04167	12.997	38553.04167	-386.442026	34.403		38553.04167	34.40744334	34.40744334	34.39775148	7/20/2005 1:00	79.45882903	24.21905109	-0.006463613
40	38553.08333	47.409	38553.08333	12.998	38553.08333	230.386698	34.411		38553.08333	34.4158945	34.4158945	34.40695102	7/20/2005 2:00	79.47774685	24.22481724	-0.000697463
41	38553.125	47.4	38553.125	13.005	38553.125	716.93107	34.395		38553.125	34.39941558	34.39941558	34.39921041	7/20/2005 3:00	79.43907605	24.21303038	-0.012484322
42	38553.16667	47.417	38553.16667	13.005	38553.16667	998.056593	34.412		38553.16667	34.41471218	34.41471218	34.40424532	7/20/2005 4:00	79.47380668	24.22361628	-0.001898426
43	38553.20833	47.424	38553.20833	13.004	38553.20833	1051.222267	34.42		38553.20833	34.4205679	34.4205679	34.4068394	7/20/2005 5:00	79.48672902	24.227555	0.002040303
44	38553.25	47.425	38553.25	13.014	38553.25	910.388104	34.411		38553.25	34.41391796	34.41391796	34.40292777	7/20/2005 6:00	79.47076316	24.22268861	-0.002826091
45	38553.29167	47.425	38553.29167	13.021	38553.29167	655.347716	34.404		38553.29167	34.41352836	34.41352836	34.40227849	7/20/2005 7:00	79.46925868	24.22223004	-0.003284657
46	38553.33333	47.425	38553.33333	13.028	38553.33333	388.871109	34.397		38553.33333	34.41730794	34.41730794	34.40579443	7/20/2005 8:00	79.47738514	24.22470699	-0.000807711
47	38553.375	47.409	38553.375	13.024	38553.375	207.57407	34.385		38553.375	34.41830839	34.41830839	34.40653319	7/20/2005 9:00	79.47909166	24.22522714	-0.000287564
48	38553.41667	47.384	38553.41667	13.024	38553.41667	174.485278	34.36		38553.41667	34.40631541	34.40631541	34.39427652	7/20/2005 10:00	79.45078337	24.21659877	-0.008915929
49	38553.45833	47.376	38553.45833	13.018	38553.45833	301.060637	34.358		38553.45833	34.41605344	34.41605344	34.40375492	7/20/2005 11:00	79.47267386	24.22327099	-0.002243709
50	38553.5	47.368	38553.5	13.014	38553.5	543.809631	34.354		38553.5	34.41978916	34.41978916	34.40722594	7/20/2005 12:00	79.48069886	24.22571701	0.000202311



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure				BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	38383.49738	103.285	38383.49625	13.108	38383.5	-313.473851		38383.49738	103.285				1/31/2005 11:56	238.58835	72.72172908	0.106466317
3	38383.53905	103.191	38383.53792	13.094	38383.54167	-409.790103		38383.53905	103.285				1/31/2005 12:56	238.58835	72.72172908	0.106466317
4	38383.58072	103.181	38383.57958	13.089	38383.58333	-399.74851		38383.58072	103.285				1/31/2005 13:56	238.58835	72.72172908	0.106466317
5	38383.62238	103.191	38383.62125	13.091	38383.625	-273.314109		38383.62238	103.285				1/31/2005 14:56	238.58835	72.72172908	0.106466317
6	38383.66405	103.181	38383.66292	13.094	38383.66667	-52.385095		38383.66405	103.285				1/31/2005 15:56	238.58835	72.72172908	0.106466317
7	38383.70572	103.181	38383.70458	13.097	38383.70833	213.949384		38383.70572	103.285				1/31/2005 16:56	238.58835	72.72172908	0.106466317
8	38383.74738	103.172	38383.74625	13.109	38383.75	461.982163		38383.74738	103.285				1/31/2005 17:56	238.58835	72.72172908	0.106466317
9	38383.78905	103.181	38383.78792	13.111	38383.79167	630.206343		38383.78905	103.285				1/31/2005 18:56	238.58835	72.72172908	0.106466317
10	38383.83072	103.191	38383.82958	13.103	38383.83333	675.408368		38383.83072	103.285				1/31/2005 19:56	238.58835	72.72172908	0.106466317
11	38383.87238	103.181	38383.87125	13.116	38383.875	583.403976		38383.87238	103.285				1/31/2005 20:56	238.58835	72.72172908	0.106466317
12	38383.91405	103.191	38383.91292	13.117	38383.91667	371.668229		38383.91405	103.285				1/31/2005 21:56	238.58835	72.72172908	0.106466317
13	38383.95572	103.191	38383.95458	13.117	38383.95833	83.735011		38383.95572	103.285				1/31/2005 22:56	238.58835	72.72172908	0.106466317
14	38383.99738	103.181	38383.99625	13.116	38384	-222.400946		38383.99738	103.285				1/31/2005 23:56	238.58835	72.72172908	0.106466317
15	38384.03905	103.181	38384.03792	13.11	38384.04167	-488.303104		38384.03905	103.285				2/1/2005 0:56	238.58835	72.72172908	0.106466317
16	38384.08072	103.191	38384.07958	13.097	38384.08333	-667.859127		38384.08072	103.285				2/1/2005 1:56	238.58835	72.72172908	0.106466317
17	38384.12238	103.2	38384.12125	13.087	38384.125	-736.017625		38384.12238	103.285				2/1/2005 2:56	238.58835	72.72172908	0.106466317
18	38384.16405	103.209	38384.16292	13.075	38384.16667	-692.112119		38384.16405	103.285				2/1/2005 3:56	238.58835	72.72172908	0.106466317
19	38384.20572	103.209	38384.20458	13.075	38384.20833	-557.78017		38384.20572	103.285				2/1/2005 4:56	238.58835	72.72172908	0.106466317
20	38384.24738	103.209	38384.24625	13.084	38384.25	-370.544542		38384.24738	103.2004619				2/1/2005 5:56	238.393067	72.66220683	0.046944072
21	38384.28905	103.209	38384.28792	13.091	38384.29167	-174.728159		38384.28905	103.1903212				2/1/2005 6:56	238.3696419	72.65506685	0.039804085
22	38384.33072	103.2	38384.32958	13.102	38384.33333	-11.576907		38384.33072	103.174924				2/1/2005 7:56	238.3340744	72.64422587	0.028963107
23	38384.37238	103.209	38384.37125	13.103	38384.375	89.593656		38384.37238	103.1783507				2/1/2005 8:56	238.34199	72.64663856	0.0313758
24	38384.41405	103.2	38384.41292	13.105	38384.41667	117.603217		38384.41405	103.1679171				2/1/2005 9:56	238.3178886	72.63929245	0.024029687
25	38384.45572	103.2	38384.45458	13.103	38384.45833	81.646357		38384.45572	103.1684001				2/1/2005 10:56	238.3190042	72.63963247	0.02436971
26	38384.49738	103.2	38384.49625	13.096	38384.5	8.782626		38384.49738	103.1714429				2/1/2005 11:56	238.326033	72.64177487	0.026512106
27	38384.53905	103.2	38384.53792	13.087	38384.54167	-63.217806		38384.53905	103.1750234				2/1/2005 12:56	238.334304	72.64429587	0.029033103
28	38384.58072	103.2	38384.57958	13.081	38384.58333	-96.349647		38384.58072	103.1815845				2/1/2005 13:56	238.3494603	72.6489155	0.033652732
29	38384.62238	103.2	38384.62125	13.084	38384.625	-63.619017		38384.62238	103.1904766				2/1/2005 14:56	238.3700009	72.65517628	0.039913513
30	38384.66405	103.181	38384.66292	13.089	38384.66667	42.176241		38384.66405	103.1782635				2/1/2005 15:56	238.3417886	72.64657717	0.03131441
31	38384.70572	103.172	38384.70458	13.1	38384.70833	205.019067		38384.70572	103.175519				2/1/2005 16:56	238.335449	72.64464485	0.029382086
32	38384.74738	103.172	38384.74625	13.111	38384.75	388.991764		38384.74738	103.1799229				2/1/2005 17:56	238.3456218	72.64774553	0.032482765
33	38384.78905	103.172	38384.78792	13.119	38384.79167	547.555271		38384.78905	103.1847787				2/1/2005 18:56	238.3568388	72.65116447	0.035901707
34	38384.83072	103.162	38384.82958	13.128	38384.83333	635.998923		38384.83072	103.1807417				2/1/2005 19:56	238.3475134	72.64832209	0.033059325
35	38384.87238	103.163	38384.87125	13.135	38384.875	623.276737		38384.87238	103.1888697				2/1/2005 20:56	238.3662891	72.6540449	0.038782142
36	38384.91405	103.172	38384.91292	13.139	38384.91667	499.842324		38384.91405	103.2048532				2/1/2005 21:56	238.4032108	72.66529866	0.050035899
37	38384.95572	103.171	38384.95458	13.133	38384.95833	279.62291		38384.95572	103.2080599				2/1/2005 22:56	238.4106183	72.66755646	0.052293698
38	38384.99738	103.172	38384.99625	13.137	38385	-3.78358		38384.99738	103.2163283				2/1/2005 23:56	238.4297183	72.67337813	0.058115362
39	38385.03905	103.172	38385.03792	13.136	38385.04167	-305.023088		38385.03905	103.219871				2/2/2005 0:56	238.4379019	72.67587251	0.060609746
40	38385.08072	103.172	38385.07958	13.136	38385.08333	-576.597837		38385.08072	103.2219444				2/2/2005 1:56	238.4426916	72.6773324	0.062069638
41	38385.12238	103.172	38385.12125	13.14	38385.125	-777.873897		38385.12238	103.2216604				2/2/2005 2:56	238.4420356	72.67713244	0.06186968
42	38385.16405	103.163	38385.16292	13.144	38385.16667	-881.846944		38385.16405	103.2121615				2/2/2005 3:56	238.420093	72.67044434	0.055181578
43	38385.20572	103.163	38385.20458	13.149	38385.20833	-878.848067		38385.20572	103.2102291				2/2/2005 4:56	238.4156291	72.66908375	0.05382099
44	38385.24738	103.163	38385.24625	13.158	38385.25	-777.04545		38385.24738	103.2093478				2/2/2005 5:56	238.4135934	72.66846326	0.053200493
45	38385.28905	103.153	38385.28792	13.163	38385.29167	-600.01729		38385.28905	103.1973122				2/2/2005 6:56	238.3857912	72.65998916	0.044726394
46	38385.33072	103.153	38385.32958	13.168	38385.33333	-381.893694		38385.33072	103.1955882				2/2/2005 7:56	238.3818041	72.6587739	0.043511141
47	38385.37238	103.144	38385.37125	13.172	38385.375	-160.736081		38385.37238	103.1856084				2/2/2005 8:56	238.3587554	72.65174865	0.036485883
48	38385.41405	103.144	38385.41292	13.174	38385.41667	28.926139		38385.41405	103.1845391				2/2/2005 9:56	238.3562831	72.65099508	0.035732316
49	38385.45572	103.153	38385.45458	13.173	38385.45833	163.130663		38385.45572	103.1932386				2/2/2005 10:56	238.3763811	72.65712095	0.041858183
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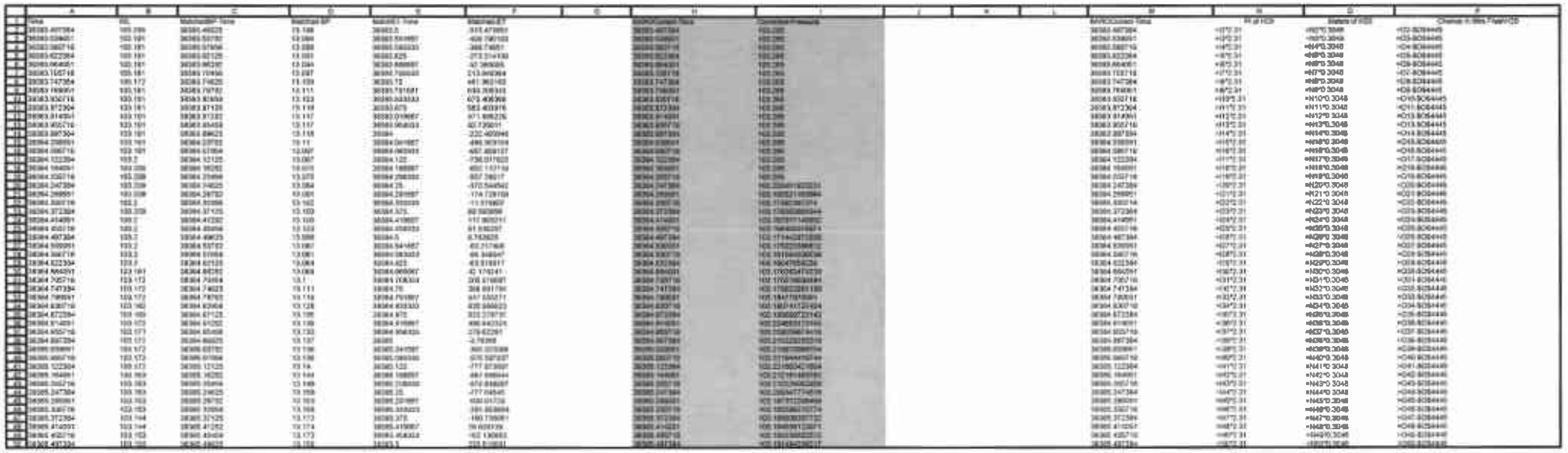

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure	Offset corrected	Detrended		BAROCorrect-Time	Ft of H20	Meters of H20	Change in Mtrs FreshH20
2	38518.625	50.594	38518.625	12.971	38518.625	-159.815366		6/15/05 15:00	50.594	50.594	50.594		6/15/2005 15:00	116.87214	35.62262827	-0.108052713
3	38518.66667	50.602	38518.66667	12.962	38518.66667	-393.68819		6/16/05 16:00	50.594	50.594	50.59294444		6/15/2005 16:00	116.8720117	35.62258915	-0.108091832
4	38518.70833	50.587	38518.70833	12.956	38518.70833	-551.329044		6/16/05 17:00	50.594	50.594	50.59088889		6/15/2005 17:00	116.8718833	35.62255004	-0.108130942
5	38518.75	50.572	38518.75	12.957	38518.75	-605.803804		6/15/05 18:00	50.594	50.594	50.59383333		6/15/2005 18:00	116.871755	35.62251092	-0.108170061
6	38518.79167	50.564	38518.79167	12.961	38518.79167	-552.667915		6/15/05 19:00	50.594	50.594	50.59377777		6/15/2005 19:00	116.8716267	35.6224718	-0.10820918
7	38518.83333	50.557	38518.83333	12.966	38518.83333	-411.062713		6/15/05 20:00	50.594	50.594	50.59372223		6/15/2005 20:00	116.8714983	35.6224327	-0.10824829
8	38518.875	50.549	38518.875	12.973	38518.875	-219.676202		6/15/05 21:00	50.594	50.594	50.59366667		6/15/2005 21:00	116.87137	35.62239358	-0.108287409
9	38518.91667	50.534	38518.91667	12.973	38518.91667	-27.948144		6/15/05 22:00	50.594	50.594	50.59361111		6/15/2005 22:00	116.8712417	35.62235446	-0.108326528
10	38518.95833	50.534	38518.95833	12.971	38518.95833	115.930913		6/15/05 23:00	50.594	50.594	50.59355556		6/15/2005 23:00	116.8711133	35.62231535	-0.108365638
11	38519	50.542	38519	12.966	38519	177.555258		6/16/05 0:00	50.594	50.594	50.5935		6/16/2005 0:00	116.870985	35.62227623	-0.108404757
12	38519.04167	50.534	38519.04167	12.966	38519.04167	146.042094		6/16/05 1:00	50.594	50.594	50.59344444		6/16/2005 1:00	116.8708567	35.62223711	-0.108443876
13	38519.08333	50.534	38519.08333	12.962	38519.08333	37.871486		6/16/05 2:00	50.594	50.594	50.59338889		6/16/2005 2:00	116.8707283	35.622198	-0.108482986
14	38519.125	50.542	38519.125	12.959	38519.125	-106.930927		6/16/05 3:00	50.594	50.594	50.59333333		6/16/2005 3:00	116.8706	35.62215888	-0.108522105
15	38519.16667	50.542	38519.16667	12.962	38519.16667	-235.796363		6/16/05 4:00	50.594	50.594	50.59327777		6/16/2005 4:00	116.8704717	35.62211976	-0.108561224
16	38519.20833	50.542	38519.20833	12.968	38519.20833	-298.910717		6/16/05 5:00	50.594	50.594	50.59322223		6/16/2005 5:00	116.8703433	35.62208065	-0.108600334
17	38519.25	50.534	38519.25	12.974	38519.25	-264.266136		6/16/05 6:00	50.594	50.594	50.59316667		6/16/2005 6:00	116.870215	35.62204153	-0.108639453
18	38519.29167	50.534	38519.29167	12.978	38519.29167	-127.794824		6/16/05 7:00	50.594	50.594	50.59311111		6/16/2005 7:00	116.8700867	35.62200241	-0.108678572
19	38519.33333	50.527	38519.33333	12.985	38519.33333	84.5489		6/16/05 8:00	50.594	50.594	50.59305556		6/16/2005 8:00	116.8699583	35.6219633	-0.108717682
20	38519.375	50.534	38519.375	12.98	38519.375	323.271927		6/16/05 9:00	50.594	50.594	50.593		6/16/2005 9:00	116.86983	35.62192418	-0.108756801
21	38519.41667	50.534	38519.41667	12.975	38519.41667	528.241272		6/16/05 10:00	50.594	50.594	50.59294444		6/16/2005 10:00	116.8697017	35.62188506	-0.10879592
22	38519.45833	50.527	38519.45833	12.968	38519.45833	644.12281		6/16/05 11:00	50.594	50.594	50.59288889		6/16/2005 11:00	116.8695733	35.62184596	-0.10883503
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25	38519.58333	50.557	38519.58333	12.93	38519.58333	229.352552		6/16/05 14:00	50.594	50.594	50.59272223		6/16/2005 14:00	116.8691883	35.62172861	-0.108952378
26	38519.625	50.564	38519.625	12.918	38519.625	-99.134782		6/16/05 15:00	50.594	50.594	50.59266667		6/16/2005 15:00	116.86906	35.62168949	-0.108991497
27	38519.66667	50.572	38519.66667	12.902	38519.66667	-434.699279		6/16/05 16:00	50.594	50.594	50.59261111		6/16/2005 16:00	116.8689317	35.62165037	-0.109030615
28	38519.70833	50.579	38519.70833	12.946	38519.70833	-712.835128		6/16/05 17:00	50.594	50.594	50.59255556		6/16/2005 17:00	116.8688033	35.62161126	-0.109069726
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31	38519.83333	50.594	38519.83333	12.904	38519.83333	-785.255549		6/16/05 20:00	50.594	50.594	50.59238889		6/16/2005 20:00	116.8684183	35.62149391	-0.109187074
32	38519.875	50.594	38519.875	12.911	38519.875	-551.169205		6/16/05 21:00	50.594	50.594	50.59233333		6/16/2005 21:00	116.86829	35.62145479	-0.109226193
33	38519.91667	50.594	38519.91667	12.912	38519.91667	-255.896595		6/16/05 22:00	50.594	50.594	50.59227777		6/16/2005 22:00	116.8681617	35.62141567	-0.109265312
34	38519.95833	50.602	38519.95833	12.908	38519.95833	34.510435		6/16/05 23:00	50.594	50.594	50.59222223		6/16/2005 23:00	116.8680333	35.62137656	-0.109304422
35	38520	50.602	38520	12.903	38520	257.504438		6/17/05 0:00	50.594	50.594	50.59216667		6/17/2005 0:00	116.867905	35.62133744	-0.109343541
36	38520.04167	50.609	38520.04167	12.901	38520.04167	369.875963		6/17/05 1:00	50.594	50.594	50.59211111		6/17/2005 1:00	116.8677767	35.62129832	-0.10938266
37	38520.08333	50.617	38520.08333	12.895	38520.08333	359.207246		6/17/05 2:00	50.594	50.594	50.59205556		6/17/2005 2:00	116.8676483	35.62125922	-0.10942177
38	38520.125	50.617	38520.125	12.895	38520.125	247.342713		6/17/05 3:00	50.594	50.594	50.592		6/17/2005 3:00	116.86752	35.6212201	-0.109460889
39	38520.16667	50.624	38520.16667	12.899	38520.16667	84.279498		6/17/05 4:00	50.594	50.594	50.59194444		6/17/2005 4:00	116.8673917	35.62118098	-0.109500008
40	38520.20833	50.624	38520.20833	12.908	38520.20833	-66.27455		6/17/05 5:00	50.594	50.594	50.59188889		6/17/2005 5:00	116.8672633	35.62114187	-0.109539118
41	38520.25	50.625	38520.25	12.913	38520.25	-145.681862		6/17/05 6:00	50.594	50.594	50.59183333		6/17/2005 6:00	116.867135	35.62110275	-0.109578237
42	38520.29167	50.624	38520.29167	12.918	38520.29167	-117.918303		6/17/05 7:00	50.594	50.594	50.59177777		6/17/2005 7:00	116.8670067	35.62106363	-0.109617356
43	38520.33333	50.617	38520.33333	12.92	38520.33333	19.424294		6/17/05 8:00	50.594	50.594	50.59172223		6/17/2005 8:00	116.8668783	35.62102452	-0.109656466
44	38520.375	50.617	38520.375	12.919	38520.375	233.896651		6/17/05 9:00	50.594	50.594	50.59166667		6/17/2005 9:00	116.86675	35.6209854	-0.109695585
45	38520.41667	50.609	38520.41667	12.922	38520.41667	466.842075		6/17/05 10:00	50.61348543	50.61348543	50.61109634		6/17/2005 10:00	116.911633	35.63466574	-0.096015248
46	38520.45833	50.609	38520.45833	12.915	38520.45833	649.140237		6/17/05 11:00	50.61414446	50.61414446	50.61170002		6/17/2005 11:00	116.9130271	35.63509065	-0.095590339
47	38520.5	50.617	38520.5	12.912	38520.5	719.465033		6/17/05 12:00	50.62097145	50.62097145	50.61847145		6/17/2005 12:00	116.9286691	35.63985833	-0.090822657
48	38520.54167	50.617	38520.54167	12.902	38520.54167	640.239615		6/17/05 13:00	50.61749783	50.61749783	50.61494227		6/17/2005 13:00	116.9205166	35.63737347	-0.093307513
49	38520.58333	50.624	38520.58333	12.894	38520.58333	407.543607		6/17/05 14:00	50.61969734	50.61969734	50.61706529		6/17/2005 14:00	116.9254692	35.63888301	-0.091797976
50	38520.625	50.631	38520.625	12.882	38520.625	53.009084		6/17/05 15:00	50.62027895	50.62027895	50.61761229		6/17/2005 15:00	116.9268844	35.6392534	-0.091427587