

APPENDIX K
YSI Calibration Logs

**PH Calibration Report**

Device Serial Number 45247
Sensor Serial Number PP05310
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-09
Time 064901
Last Cal: 2/9/07 6:48:59 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -5.5579 mV
- Final Reading = 7.00 pH
- Temperature = 12.136 C
- Slope = -56.6075 mV/pH
- Offset = 390.694 mV

ORP Calibration Report

Device Serial Number 45247
Sensor Serial Number PP05310
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-09
Time 064901
Last Cal: 2/9/07 6:48:58 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 243.643 mV
- Response = 236.974 mV
- Final Reading = 243.643 mV
- Temperature = 12.136 C
- Offset = -6.66871 mV

Cond Calibration Report

Device Serial Number 45247
Sensor Serial Number CN01468
Sensor Type Conductivity
Sensor Mfg Date 2003-06-23
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-09

Time 064901

Last Cal: 2/9/07 6:49:00 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 61.0949 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 12.136 C
- Kcell = 0.364648

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TURB Calibration Report**Device Serial Number** 45247**Sensor Serial Number** TB03357**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-09**Time** 065420**Last Cal:** 2/9/07 6:54:19 AM**Cal Points:** 1**Point 1:**

-
- Stimulus = 100 NTU
- Response = 65.2178 NTU
- Final Reading = 100 NTU
- Temperature = 13.5172 C
- Slope = 1
- Offset = 34.7822

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RDO Calibration Report**Device Serial Number** 45247**Sensor Serial Number** OD00173**Sensor Mfg Date** 2006-08-15**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** STABLE**Date** 2007-02-09**Time** 070522**Last Cal:** 2/9/07 7:05:06 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

- NEW CALIBRATION VALUES
- Optical Phase = 28.73 degrees
- Temperature = 12.92 C
- Barometric Pressure = 30.04 "Hg

Zero Point:

- NEW CALIBRATION VALUES
- Optical Phase = 61.75 degrees
- Temperature = 12.71 C

Calibrated Phase Coefficients: (-4.91972e+000 , 1.08872e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (1.95657e+001 , -3.02257e-002 , 2.86536e-006 , -4.20992e-009)**Foil Batch #:** 804**Foil Change Date:** 8/15/06 2:39:39 PM**Foil Coefficients:****Coeff0** (3.75408e+003 , -1.28864e+002 , 2.72912e+000 , -2.52159e-002)**Coeff1** (-2.38230e+002 , 7.21519e+000 , -1.56902e-001 , 1.55838e-003)**Coeff2** (6.19594e+000 , -1.64747e-001 , 3.86740e-003 , -4.30770e-005)**Coeff3** (-7.57205e-002 , 1.78466e-003 , -4.78379e-005 , 6.07244e-007)**Coeff4** (3.55380e-004 , -7.52831e-006 , 2.41008e-007 , -3.44224e-009)

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PH Calibration Report ✓ my

Device Serial Number 45247
Sensor Serial Number PP05310
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-12
Time 065245
Last Cal: 2/12/07 6:52:43 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -0.81292 mV
- Final Reading = 7.00 pH
- Temperature = 19.7833 C
- Slope = -58.1249 mV/pH
- Offset = 406.061 mV

ORP Calibration Report

Device Serial Number 45247
Sensor Serial Number PP05310
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-12
Time 065245
Last Cal: 2/12/07 6:52:42 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 231.86 mV
- Response = 224.238 mV
- Final Reading = 231.86 mV
- Temperature = 19.7833 C
- Offset = -7.62272 mV

Cond Calibration Report

Device Serial Number 45247
Sensor Serial Number CN01468
Sensor Type Conductivity
Sensor Mfg Date 2003-06-23
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-12

Time 065245

Last Cal: 2/12/07 6:52:44 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 52.147 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 19.7833 C
- Kcell = 0.372258

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TURB Calibration Report**Device Serial Number** 45247**Sensor Serial Number** TB03357**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-12**Time** 065745**Last Cal:** 2/12/07 6:57:44 AM**Cal Points:** 1**Point 1:**

-
- Stimulus = 100 NTU
- Response = 54.7298 NTU
- Final Reading = 100 NTU
- Temperature = 20.0416 C
- Slope = 1
- Offset = 45.2702

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RDO Calibration Report**Device Serial Number** 45247**Sensor Serial Number** OD00173**Sensor Mfg Date** 2006-08-15**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-12**Time** 070835**Last Cal:** 2/12/07 7:08:19 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

- NOT RE-CALIBRATED (using previous values)
- Optical Phase = 28.73 degrees
- Temperature = 12.92 C
- Barometric Pressure = 30.04 "Hg

Zero Point:

- NEW CALIBRATION VALUES
- Optical Phase = 33.03 degrees
- Temperature = 15.96 C

Calibrated Phase Coefficients: (-2.13878e+002 , 8.36252e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (1.95657e+001 , -3.02257e-002 , 2.86536e-006 , -4.20992e-009)**Foil Batch #:** 804**Foil Change Date:** 8/15/06 2:39:39 PM**Foil Coefficients:****Coeff0** (3.75408e+003 , -1.28864e+002 , 2.72912e+000 , -2.52159e-002)**Coeff1** (-2.38230e+002 , 7.21519e+000 , -1.56902e-001 , 1.55838e-003)**Coeff2** (6.19594e+000 , -1.64747e-001 , 3.86740e-003 , -4.30770e-005)**Coeff3** (-7.57205e-002 , 1.78466e-003 , -4.78379e-005 , 6.07244e-007)**Coeff4** (3.55380e-004 , -7.52831e-006 , 2.41008e-007 , -3.44224e-009)

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PH Calibration Report ✓

Device Serial Number 45247
Sensor Serial Number PP05310
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-13
Time 064014
Last Cal: 2/13/07 6:40:12 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -1.65922 mV
- Final Reading = 7.00 pH
- Temperature = 19.9867 C
- Slope = -58.1652 mV/pH
- Offset = 405.498 mV

ORP Calibration Report

Device Serial Number 45247
Sensor Serial Number PP05310
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-13
Time 064014
Last Cal: 2/13/07 6:40:11 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 231.547 mV
- Response = 221.476 mV
- Final Reading = 231.547 mV
- Temperature = 19.9867 C
- Offset = -10.071 mV

Cond Calibration Report

Device Serial Number 45247
Sensor Serial Number CN01468
Sensor Type Conductivity
Sensor Mfg Date 2003-06-23
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-13

Time 064014

Last Cal: 2/13/07 6:40:13 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 52.0239 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 19.9867 C
- Kcell = 0.373056

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TURB Calibration Report**Device Serial Number** 45247**Sensor Serial Number** TB03357**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-13**Time** 064541**Last Cal:** 2/13/07 6:45:40 AM**Cal Points:** 1**Point 1:**

-
- Stimulus = 100 NTU
- Response = 59.0743 NTU
- Final Reading = 100 NTU
- Temperature = 19.6537 C
- Slope = 1
- Offset = 40.9257

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RDO Calibration Report**Device Serial Number** 45247**Sensor Serial Number** OD00173**Sensor Mfg Date** 2006-08-15**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** STABLE**Date** 2007-02-13**Time** 071134**Last Cal:** 2/13/07 7:11:18 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

- NEW CALIBRATION VALUES
- Optical Phase = 28.44 degrees
- Temperature = 17.02 C
- Barometric Pressure = 30.29 "Hg

Zero Point:

- NEW CALIBRATION VALUES
- Optical Phase = 51.90 degrees
- Temperature = 18.11 C

Calibrated Phase Coefficients: (-1.89698e+001 , 1.56167e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (1.95657e+001 , -3.02257e-002 , 2.86536e-006 , -4.20992e-009)**Foil Batch #:** 804**Foil Change Date:** 8/15/06 2:39:39 PM**Foil Coefficients:****Coeff0** (3.75408e+003 , -1.28864e+002 , 2.72912e+000 , -2.52159e-002)**Coeff1** (-2.38230e+002 , 7.21519e+000 , -1.56902e-001 , 1.55838e-003)**Coeff2** (6.19594e+000 , -1.64747e-001 , 3.86740e-003 , -4.30770e-005)**Coeff3** (-7.57205e-002 , 1.78466e-003 , -4.78379e-005 , 6.07244e-007)**Coeff4** (3.55380e-004 , -7.52831e-006 , 2.41008e-007 , -3.44224e-009)

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PH Calibration Report ✓

Device Serial Number 45247
Sensor Serial Number PP05310
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-14
Time 071033
Last Cal: 2/14/07 7:10:31 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -1.38893 mV
- Final Reading = 7.00 pH
- Temperature = 18.8521 C
- Slope = -57.9401 mV/pH
- Offset = 404.192 mV

ORP Calibration Report

Device Serial Number 45247
Sensor Serial Number PP05310
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-14
Time 071033
Last Cal: 2/14/07 7:10:30 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 233.295 mV
- Response = 223.045 mV
- Final Reading = 233.295 mV
- Temperature = 18.8521 C
- Offset = -10.2499 mV

Cond Calibration Report

Device Serial Number 45247
Sensor Serial Number CN01468
Sensor Type Conductivity
Sensor Mfg Date 2003-06-23
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-14

Time 071033

Last Cal: 2/14/07 7:10:32 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 53.2916 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 18.8521 C
- Kcell = 0.372598

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TURB Calibration Report**Device Serial Number** 45247**Sensor Serial Number** TB03357**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-14**Time** 071402**Last Cal:** 2/14/07 7:14:01 AM**Cal Points:** 1**Point 1:**

-
- Stimulus = 100 NTU
- Response = 68.8213 NTU
- Final Reading = 100 NTU
- Temperature = 19.2059 C
- Slope = 1
- Offset = 31.1787

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RDO Calibration Report**Device Serial Number** 45247**Sensor Serial Number** OD00173**Sensor Mfg Date** 2006-08-15**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-14**Time** 073606**Last Cal:** 2/14/07 7:35:51 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

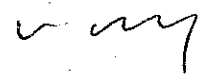
- NOT RE-CALIBRATED (using previous values)
- Optical Phase = 28.44 degrees
- Temperature = 17.02 C
- Barometric Pressure = 30.29 "Hg

Zero Point:

- NEW CALIBRATION VALUES
- Optical Phase = 53.98 degrees
- Temperature = 16.31 C

Calibrated Phase Coefficients: (-1.53680e+001 , 1.43502e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (1.95657e+001 , -3.02257e-002 , 2.86536e-006 , -4.20992e-009)**Foil Batch #:** 804**Foil Change Date:** 8/15/06 2:39:39 PM**Foil Coefficients:****Coeff0** (3.75408e+003 , -1.28864e+002 , 2.72912e+000 , -2.52159e-002)**Coeff1** (-2.38230e+002 , 7.21519e+000 , -1.56902e-001 , 1.55838e-003)**Coeff2** (6.19594e+000 , -1.64747e-001 , 3.86740e-003 , -4.30770e-005)**Coeff3** (-7.57205e-002 , 1.78466e-003 , -4.78379e-005 , 6.07244e-007)**Coeff4** (3.55380e-004 , -7.52831e-006 , 2.41008e-007 , -3.44224e-009)

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**ORP Calibration Report****Device Serial Number** 45359**Sensor Serial Number** PP05049**Sensor Mfg Date** 2006-10-02**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-06**Time** 093956**Last Cal:** 2/6/07 9:39:55 AM**Cal Points:** 1**Cal Type:** Custom Cal Solution**Point 1:**

- Custom Cal Solution
- Stimulus = 240 mV
- Response = 258.283 mV
- Final Reading = 240 mV
- Temperature = 22.3659 C
- Offset = 18.283 mV

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TURB Calibration Report**Device Serial Number** 45359**Sensor Serial Number** TB00160**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-06**Time** 092003**Last Cal:** 2/6/07 9:20:02 AM**Cal Points:** 1**Point 1:**

- Stimulus = 100 NTU
- Response = 89.5918 NTU
- Final Reading = 100 NTU
- Temperature = 11.2219 C
- Slope = 1
- Offset = 10.4082

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PH Calibration Report**Device Serial Number** 45359**Sensor Serial Number** PP05049**Sensor Mfg Date** 2006-10-02**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** STABLE**Date** 2007-02-06**Time** 124849**Last Cal:** 2/6/07 12:48:48 PM**Cal Points:** 2**Point 1:**

-
- Stimulus = 4.01 pH
- Response = 163.207 mV
- Final Reading = 4.01 pH
- Temperature = 9.32424 C

Point 2:

-
- Stimulus = 7.00 pH
- Response = -9.15404 mV
- Final Reading = 7.00 pH
- Temperature = 12.684 C
- Slope = -57.6459 mV/pH
- Offset = 394.367 mV

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Cond Calibration Report**Device Serial Number** 45359**Sensor Serial Number** LC03279**Sensor Type** Conductivity, Low Range**Sensor Mfg Date** 2004-04-05**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-06**Time** 094802**Last Cal:** 2/6/07 9:48:01 AM**Cal Points:**

- 1
- 1413 microSiemens/cm
- Stimulus = 1413 μ S/cm
- Response = 263.139 ohms
- Final Reading = 1413 μ S/cm
- Temperature = 21.4688 C
- Kcell = 0.346738

Sensor Type Conductivity, Low Range

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RDO Calibration Report**Device Serial Number** 45359**Sensor Serial Number** OD00400**Sensor Mfg Date** 2006-09-26**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** STABLE**Date** 2007-02-06**Time** 095652**Last Cal:** 2/6/07 9:56:37 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

• NEW CALIBRATION VALUES

• Optical Phase = 31.19 degrees

• Temperature = 9.01 C

• Barometric Pressure = 30.31 Hg

Zero Point:

• NEW CALIBRATION VALUES

• Optical Phase = 30.58 degrees

• Temperature = 9.08 C

Calibrated Phase Coefficients: (1.94814e+003 , -6.13355e+001 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (2.71841e+001 , -3.07643e-002 , 2.85986e-006 , -4.30048e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:24:09 AM**Foil Coefficients:****Coeff0** (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)**Coeff1** (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)**Coeff2** (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)**Coeff3** (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)**Coeff4** (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

Barometric Pressure: 30.31 Hg
<http://www.in-situ.com>

NEW CALIBRATION VALUES

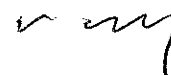
• NEW CALIBRATION VALUES

• Optical Phase = 30.58 degrees

• Temperature = 9.08 C

Calibrated Phase Coefficients: (1.94814e+003 , -6.13355e+001 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (2.71841e+001 , -3.07643e-002 , 2.85986e-006 , -4.30048e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:24:09 AM**Foil Coefficients:****Coeff0** (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)**Coeff1** (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)**Coeff2** (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)**Coeff3** (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)**Coeff4** (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

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**PH Calibration Report**

Device Serial Number 45359
Sensor Serial Number PP05049
Sensor Mfg Date 2006-10-02
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-07
Time 070744
Last Cal: 2/7/07 7:07:42 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -4.22624 mV
- Final Reading = 7.00 pH
- Temperature = 14.8137 C
- Slope = -57.1388 mV/pH
- Offset = 395.745 mV

ORP Calibration Report

Device Serial Number 45359
Sensor Serial Number PP05049
Sensor Mfg Date 2006-10-02
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-07
Time 070744
Last Cal: 2/7/07 7:07:41 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 239.517 mV
- Response = 234.295 mV
- Final Reading = 239.517 mV
- Temperature = 14.8137 C
- Offset = -5.22251 mV

Cond Calibration Report

Device Serial Number 45359
Sensor Serial Number LC03279
Sensor Type Conductivity, Low Range
Sensor Mfg Date 2004-04-05
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-07

Time 070744

Last Cal: 2/7/07 7:07:43 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 55.297 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 14.8137 C
- Kcell = 0.35214

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**PH Calibration Report****Device Serial Number** 45359**Sensor Serial Number** PP05049**Sensor Mfg Date** 2006-10-02**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** STABLE**Date** 2007-02-08**Time** 070457**Last Cal:** 2/8/07 7:04:56 AM**Cal Points:** 2**Point 1:**

-
- Stimulus = 4.01 pH
- Response = 165.711 mV
- Final Reading = 4.01 pH
- Temperature = 11.4544 C

Point 2:

-
- Stimulus = 7.00 pH
- Response = -5.67058 mV
- Final Reading = 7.00 pH
- Temperature = 12.3247 C
- Slope = -57.3183 mV/pH
- Offset = 395.557 mV

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TURB Calibration Report**Device Serial Number** 45359**Sensor Serial Number** TB00160**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-08**Time** 070800**Last Cal:** 2/8/07 7:07:59 AM**Cal Points:** 1**Point 1:**

-
- Stimulus = 100 NTU
- Response = 69.9067 NTU
- Final Reading = 100 NTU
- Temperature = 12.428 C
- Slope = 1
- Offset = 30.0933

<http://www.in-situ.com>

Cond Calibration Report**Device Serial Number** 45359**Sensor Serial Number** LC03279**Sensor Type** Conductivity, Low Range**Sensor Mfg Date** 2004-04-05**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-08**Time** 071234**Last Cal:** 2/8/07 7:12:33 AM**Cal Points:**

- 1
- 1413 microSiemens/cm
- Stimulus = 1413 μ S/cm
- Response = 323.646 ohms
- Final Reading = 1413 μ S/cm
- Temperature = 12.7893 C
- Kcell = 0.350656

<http://www.in-situ.com>

ORP Calibration Report

Device Serial Number 45359
Sensor Serial Number PP05049
Sensor Mfg Date 2006-10-02
Method Traditional
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-08
Time 071619
Last Cal: 2/8/07 7:16:18 AM
Cal Points: 1
Cal Type: Custom Cal Solution
Point 1:

- Custom Cal Solution
- Stimulus = 240 mV
- Response = 274.238 mV
- Final Reading = 240 mV
- Temperature = 12.9485 C
- Offset = 34.2383 mV

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RDO Calibration Report**Device Serial Number** 45359**Sensor Serial Number** OD00400**Sensor Mfg Date** 2006-09-26**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** USER SET: NOMINAL**Date** 2007-02-08**Time** 073433**Last Cal:** 2/8/07 7:34:18 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

- NEW CALIBRATION VALUES
- Optical Phase = 30.62 degrees
- Temperature = 11.85 C
- Barometric Pressure = 29.99 "Hg

Zero Point:

- NOT RE-CALIBRATED (using previous values)
- Optical Phase = 59.28 degrees
- Temperature = 12.84 C

Calibrated Phase Coefficients: (-5.91865e+000 , 1.32250e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (2.71841e+001 , -3.07643e-002 , 2.85986e-006 , -4.30048e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:24:09 AM**Foil Coefficients:****Coeff0** (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)**Coeff1** (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)**Coeff2** (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)**Coeff3** (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)**Coeff4** (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

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PH Calibration Report

Device Serial Number 45359
Sensor Serial Number PP05049
Sensor Mfg Date 2006-10-02
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-09
Time 064716
Last Cal: 2/9/07 6:47:13 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -2.75462 mV
- Final Reading = 7.00 pH
- Temperature = 13.3805 C
- Slope = -56.8544 mV/pH
- Offset = 395.226 mV

ORP Calibration Report

Device Serial Number 45359
Sensor Serial Number PP05049
Sensor Mfg Date 2006-10-02
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-09
Time 064716
Last Cal: 2/9/07 6:47:12 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 241.725 mV
- Response = 235.606 mV
- Final Reading = 241.725 mV
- Temperature = 13.3805 C
- Offset = -6.119 mV

Cond Calibration Report

Device Serial Number 45359
Sensor Serial Number LC03279
Sensor Type Conductivity, Low Range
Sensor Mfg Date 2004-04-05
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-09

Time 064716

Last Cal: 2/9/07 6:47:14 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 56.6432 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 13.3805 C
- Kcell = 0.348513

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TURB Calibration Report**Device Serial Number** 45359**Sensor Serial Number** TB00160**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-09**Time** 065256**Last Cal:** 2/9/07 6:52:55 AM**Cal Points:** 1**Point 1:**

-
- Stimulus = 100 NTU
- Response = 1068.25 NTU
- Final Reading = 100 NTU
- Temperature = 12.8767 C
- Slope = 1
- Offset = -968.252

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RDO Calibration Report**Device Serial Number** 45359**Sensor Serial Number** OD00400**Sensor Mfg Date** 2006-09-26**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** STABLE**Date** 2007-02-09**Time** 071936**Last Cal:** 2/9/07 7:19:20 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

- NEW CALIBRATION VALUES

- Optical Phase = 30.81 degrees

- Temperature = 11.89 C

- Barometric Pressure = 30.01 "Hg

Zero Point:

- NEW CALIBRATION VALUES

- Optical Phase = 58.18 degrees

- Temperature = 11.84 C

Calibrated Phase Coefficients: (-8.13042e+000 , 1.38548e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (2.71841e+001 , -3.07643e-002 , 2.85986e-006 , -4.30048e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:24:09 AM**Foil Coefficients:****Coeff0** (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)**Coeff1** (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)**Coeff2** (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)**Coeff3** (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)**Coeff4** (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

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PH Calibration Report

Device Serial Number 45359
Sensor Serial Number PP05049
Sensor Mfg Date 2006-10-02
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-13
Time 122340
Last Cal: 2/13/07 12:23:38 PM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = 2.67348 mV
- Final Reading = 7.00 pH
- Temperature = 19.7134 C
- Slope = -58.111 mV/pH
- Offset = 409.451 mV

ORP Calibration Report

Device Serial Number 45359
Sensor Serial Number PP05049
Sensor Mfg Date 2006-10-02
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-13
Time 122340
Last Cal: 2/13/07 12:23:37 PM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 231.968 mV
- Response = 226.265 mV
- Final Reading = 231.968 mV
- Temperature = 19.7134 C
- Offset = -5.70279 mV

Cond Calibration Report

Device Serial Number 45359
Sensor Serial Number LC03279
Sensor Type Conductivity, Low Range
Sensor Mfg Date 2004-04-05
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-13

Time 122340

Last Cal: 2/13/07 12:23:39 PM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 48.9168 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 19.7134 C
- Kcell = 0.348657

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TURB Calibration Report

Device Serial Number 45359
Sensor Serial Number TB00160

Method Traditional

Action COMPLETED

Status Point 1 STABLE

Date 2007-02-13

Time 122905

Last Cal: 2/13/07 12:29:04 PM

Cal Points: 1

Point 1:

-
- Stimulus = 100 NTU
- Response = 106.445 NTU
- Final Reading = 100 NTU
- Temperature = 19.4773 C
- Slope = 1
- Offset = -6.44515

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RDO Calibration Report**Device Serial Number** 45359**Sensor Serial Number** OD00400**Sensor Mfg Date** 2006-09-26**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** USER SET: NOMINAL**Date** 2007-02-13**Time** 123958**Last Cal:** 2/13/07 12:39:43 PM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

- NEW CALIBRATION VALUES
- Optical Phase = 29.54 degrees
- Temperature = 17.61 C
- Barometric Pressure = 30.30 "Hg

Zero Point:

- NOT RE-CALIBRATED (using previous values)
- Optical Phase = 58.18 degrees
- Temperature = 11.84 C

Calibrated Phase Coefficients: (-7.16933e+000 , 1.36197e+000 , 0.00000e+000 , 0.00000e+000)
Temperature Coefficients: (2.71841e+001 , -3.07643e-002 , 2.85986e-006 , -4.30048e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:24:09 AM**Foil Coefficients:**

Coeff0 (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)
Coeff1 (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)
Coeff2 (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)
Coeff3 (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)
Coeff4 (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

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RDO Calibration Report**Device Serial Number** 45359**Sensor Serial Number** OD00400**Sensor Mfg Date** 2006-09-26**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** USER SET: NOMINAL**Date** 2007-02-13**Time** 123958**Last Cal:** 2/13/07 12:39:43 PM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

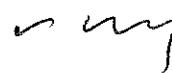
- NEW CALIBRATION VALUES
- Optical Phase = 29.54 degrees
- Temperature = 17.61 C
- Barometric Pressure = 30.30 "Hg

Zero Point:

- NOT RE-CALIBRATED (using previous values)
- Optical Phase = 58.18 degrees
- Temperature = 11.84 C

Calibrated Phase Coefficients: (-7.16933e+000 , 1.36197e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (2.71841e+001 , -3.07643e-002 , 2.85986e-006 , -4.30048e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:24:09 AM**Foil Coefficients:****Coeff0** (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)**Coeff1** (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)**Coeff2** (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)**Coeff3** (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)**Coeff4** (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

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**PH Calibration Report**

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-07
Time 070738
Last Cal: 2/7/07 7:07:36 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -2.51599 mV
- Final Reading = 7.00 pH
- Temperature = 14.5359 C
- Slope = -57.0837 mV/pH
- Offset = 397.07 mV

ORP Calibration Report

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-07
Time 070738
Last Cal: 2/7/07 7:07:35 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 239.945 mV
- Response = 232.028 mV
- Final Reading = 239.945 mV
- Temperature = 14.5359 C
- Offset = -7.91706 mV

Cond Calibration Report

Device Serial Number 45711
Sensor Serial Number LC04679
Sensor Type Conductivity, Low Range
Sensor Mfg Date 2006-10-05
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-07

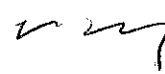
Time 070738

Last Cal: 2/7/07 7:07:37 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 56.6192 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 14.5359 C
- Kcell = 0.358182

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**PH Calibration Report****Device Serial Number** 45711**Sensor Serial Number** PP05272**Sensor Mfg Date** 2006-12-19**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** STABLE**Date** 2007-02-08**Time** 065637**Last Cal:** 2/8/07 6:56:35 AM**Cal Points:** 2**Point 1:**

-
- Stimulus = 4.01 pH
- Response = 166.895 mV
- Final Reading = 4.01 pH
- Temperature = 12.3849 C

Point 2:

-
- Stimulus = 7.00 pH
- Response = -3.44325 mV
- Final Reading = 7.00 pH
- Temperature = 12.2291 C
- Slope = -56.9693 mV/pH
- Offset = 395.342 mV

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TURB Calibration Report**Device Serial Number** 45711**Sensor Serial Number** TB03362**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-08**Time** 070150**Last Cal:** 2/8/07 7:01:49 AM**Cal Points:** 1**Point 1:**

-
- Stimulus = 100 NTU
- Response = 109.224 NTU
- Final Reading = 100 NTU
- Temperature = 12.8688 C
- Slope = 1
- Offset = -9.22449

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Cond Calibration Report**Device Serial Number** 45711**Sensor Serial Number** LC04679**Sensor Type** Conductivity, Low Range**Sensor Mfg Date** 2006-10-05**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-08**Time** 070452**Last Cal:** 2/8/07 7:04:50 AM**Cal Points:**

- 1
- 1413 microSiemens/cm
- Stimulus = 1413 μ S/cm
- Response = 327.318 ohms
- Final Reading = 1413 μ S/cm
- Temperature = 12.6746 C
- Kcell = 0.353621

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ORP Calibration Report**Device Serial Number** 45711**Sensor Serial Number** PP05272**Sensor Mfg Date** 2006-12-19**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-08**Time** 071357**Last Cal:** 2/8/07 7:13:56 AM**Cal Points:** 1**Cal Type:** Custom Cal Solution**Point 1:**

- Custom Cal Solution
- Stimulus = 240 mV
- Response = 263.759 mV
- Final Reading = 240 mV
- Temperature = 13.1131 C
- Offset = 23.7589 mV

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RDO Calibration Report**Device Serial Number** 45711**Sensor Serial Number** OD00386**Sensor Mfg Date** 2006-09-26**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** USER SET: NOMINAL**Date** 2007-02-08**Time** 073605**Last Cal:** 2/8/07 7:35:49 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

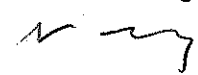
- NEW CALIBRATION VALUES
- Optical Phase = 28.24 degrees
- Temperature = 13.10 C
- Barometric Pressure = 31.24 "Hg

Zero Point:

- NOT RE-CALIBRATED (using previous values)
- Optical Phase = 59.90 degrees
- Temperature = 10.86 C

Calibrated Phase Coefficients: (-8.30459e-001 , 1.22248e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (2.27704e+001 , -3.10005e-002 , 2.92373e-006 , -4.16957e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:01:46 AM**Foil Coefficients:****Coeff0** (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)**Coeff1** (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)**Coeff2** (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)**Coeff3** (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)**Coeff4** (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

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**PH Calibration Report**

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-09
Time 064854
Last Cal: 2/9/07 6:48:52 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -2.3094 mV
- Final Reading = 7.00 pH
- Temperature = 13.4098 C
- Slope = -56.8602 mV/pH
- Offset = 395.712 mV

ORP Calibration Report

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-09
Time 064854
Last Cal: 2/9/07 6:48:51 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 241.68 mV
- Response = 21.3545 mV
- Final Reading = 241.68 mV
- Temperature = 13.4098 C
- Offset = -220.326 mV

Cond Calibration Report

Device Serial Number 45711
Sensor Serial Number LC04679
Sensor Type Conductivity, Low Range
Sensor Mfg Date 2006-10-05
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-09

Time 064854

Last Cal: 2/9/07 6:48:53 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 56.8551 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 13.4098 C
- Kcell = 0.350067

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RDO Calibration Report**Device Serial Number** 45711**Sensor Serial Number** OD00386**Sensor Mfg Date** 2006-09-26**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** USER SET: NOMINAL**Date** 2007-02-09**Time** 071151**Last Cal:** 2/9/07 7:11:35 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

- NEW CALIBRATION VALUES
- Optical Phase = 29.11 degrees
- Temperature = 11.44 C
- Barometric Pressure = 31.02 "Hg

Zero Point:

- NOT RE-CALIBRATED (using previous values)
- Optical Phase = 59.90 degrees
- Temperature = 10.86 C

Calibrated Phase Coefficients: (-2.02831e+000 , 1.24437e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (2.27704e+001 , -3.10005e-002 , 2.92373e-006 , -4.16957e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:01:46 AM**Foil Coefficients:****Coeff0** (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)**Coeff1** (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)**Coeff2** (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)**Coeff3** (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)**Coeff4** (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

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TURB Calibration Report**Device Serial Number** 45711**Sensor Serial Number** TB03362**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-09**Time** 071609**Last Cal:** 2/9/07 7:16:08 AM**Cal Points:** 1**Point 1:**

-
- Stimulus = 100 NTU
- Response = 93.8576 NTU
- Final Reading = 100 NTU
- Temperature = 13.3897 C
- Slope = 1
- Offset = 6.14239

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PH Calibration Report

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-12
Time 065429
Last Cal: 2/12/07 6:54:27 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = 2.23139 mV
- Final Reading = 7.00 pH
- Temperature = 19.6285 C
- Slope = -58.0942 mV/pH
- Offset = 408.891 mV

ORP Calibration Report

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-12
Time 065429
Last Cal: 2/12/07 6:54:26 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 232.099 mV
- Response = 216.283 mV
- Final Reading = 232.099 mV
- Temperature = 19.6285 C
- Offset = -15.8158 mV

Cond Calibration Report

Device Serial Number 45711
Sensor Serial Number LC04679
Sensor Type Conductivity, Low Range
Sensor Mfg Date 2006-10-05
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-12

Time 065429

Last Cal: 2/12/07 6:54:28 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 48.8375 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 19.6285 C
- Kcell = 0.347436

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TURB Calibration Report ✓ m**Device Serial Number** 45711**Sensor Serial Number** TB03362**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-12**Time** 070121**Last Cal:** 2/12/07 7:01:20 AM**Cal Points:** 1**Point 1:**

-
- Stimulus = 100 NTU
- Response = 81.5159 NTU
- Final Reading = 100 NTU
- Temperature = 20.1092 C
- Slope = 1
- Offset = 18.4841

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RDO Calibration Report **Device Serial Number** 45711**Sensor Serial Number** OD00386**Sensor Mfg Date** 2006-09-26**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** USER SET: NOMINAL**Date** 2007-02-12**Time** 071544**Last Cal:** 2/12/07 7:15:28 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

- NEW CALIBRATION VALUES
- Optical Phase = 28.46 degrees
- Temperature = 13.48 C
- Barometric Pressure = 30.68 "Hg

Zero Point:

- NOT RE-CALIBRATED (using previous values)
- Optical Phase = 59.90 degrees
- Temperature = 10.86 C

Calibrated Phase Coefficients: (-9.95895e-001 , 1.22479e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (2.27704e+001 , -3.10005e-002 , 2.92373e-006 , -4.16957e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:01:46 AM**Foil Coefficients:****Coeff0** (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)**Coeff1** (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)**Coeff2** (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)**Coeff3** (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)**Coeff4** (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

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PH Calibration Report

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-13
Time 064450
Last Cal: 2/13/07 6:44:48 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -0.841519 mV
- Final Reading = 7.00 pH
- Temperature = 19.337 C
- Slope = -58.0363 mV/pH
- Offset = 405.413 mV

ORP Calibration Report

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-13
Time 064450
Last Cal: 2/13/07 6:44:47 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 232.548 mV
- Response = 28.0888 mV
- Final Reading = 232.548 mV
- Temperature = 19.337 C
- Offset = -204.459 mV

Cond Calibration Report

Device Serial Number 45711
Sensor Serial Number LC04679
Sensor Type Conductivity, Low Range
Sensor Mfg Date 2006-10-05
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-13

Time 064450

Last Cal: 2/13/07 6:44:49 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 48.9048 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 19.337 C
- Kcell = 0.345662

<http://www.in-situ.com>

TURB Calibration Report

Device Serial Number 45711
Sensor Serial Number TB03362

Method Traditional

Action COMPLETED

Status Point 1 STABLE

Date 2007-02-13

Time 064911

Last Cal: 2/13/07 6:49:10 AM

Cal Points: 1

Point 1:

-
- Stimulus = 100 NTU
- Response = 86.6073 NTU
- Final Reading = 100 NTU
- Temperature = 19.7281 C
- Slope = 1
- Offset = 13.3927

<http://www.in-situ.com>

RDO Calibration Report**Device Serial Number** 45711**Sensor Serial Number** OD00386**Sensor Mfg Date** 2006-09-26**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** USER SET: NOMINAL**Date** 2007-02-13**Time** 070911**Last Cal:** 2/13/07 7:08:55 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

- NEW CALIBRATION VALUES
- Optical Phase = 29.09 degrees
- Temperature = 17.11 C
- Barometric Pressure = 31.01 "Hg

Zero Point:

- NOT RE-CALIBRATED (using previous values)
- Optical Phase = 59.90 degrees
- Temperature = 10.86 C

Calibrated Phase Coefficients: (-4.19582e+000 , 1.27384e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (2.27704e+001 , -3.10005e-002 , 2.92373e-006 , -4.16957e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:01:46 AM**Foil Coefficients:****Coeff0** (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)**Coeff1** (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)**Coeff2** (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)**Coeff3** (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)**Coeff4** (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

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PH Calibration Report ✓

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-14
Time 071541
Last Cal: 2/14/07 7:15:39 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -0.015293 mV
- Final Reading = 7.00 pH
- Temperature = 18.766 C
- Slope = -57.923 mV/pH
- Offset = 405.446 mV

ORP Calibration Report

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-14
Time 071541
Last Cal: 2/14/07 7:15:38 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 233.428 mV
- Response = 22.5798 mV
- Final Reading = 233.428 mV
- Temperature = 18.766 C
- Offset = -210.848 mV

Cond Calibration Report

Device Serial Number 45711
Sensor Serial Number LC04679
Sensor Type Conductivity, Low Range
Sensor Mfg Date 2006-10-05
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-14

Time 071541

Last Cal: 2/14/07 7:15:40 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 49.5553 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 18.766 C
- Kcell = 0.345804

<http://www.in-situ.com>

TURB Calibration Report**Device Serial Number** 45711**Sensor Serial Number** TB03362**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Date** 2007-02-14**Time** 072019**Last Cal:** 2/14/07 7:20:17 AM**Cal Points:** 1**Point 1:**

-
- Stimulus = 100 NTU
- Response = 77.196 NTU
- Final Reading = 100 NTU
- Temperature = 19.1896 C
- Slope = 1
- Offset = 22.804

<http://www.in-situ.com>

RDO Calibration Report**Device Serial Number** 45711**Sensor Serial Number** OD00386**Sensor Mfg Date** 2006-09-26**Method** Traditional**Action** COMPLETED**Status Point 1** STABLE**Status Point 2** USER SET: NOMINAL**Date** 2007-02-14**Time** 073647**Last Cal:** 2/14/07 7:36:31 AM**Sensor Model #:** 4007**Sensor Firmware Ver #:** 2.71**Adapter Firmware Ver #:** 1.07**Saturation Point:**

- NEW CALIBRATION VALUES
- Optical Phase = 30.30 degrees
- Temperature = 9.71 C
- Barometric Pressure = 31.46 "Hg

Zero Point:

- NOT RE-CALIBRATED (using previous values)
- Optical Phase = 59.90 degrees
- Temperature = 10.86 C

Calibrated Phase Coefficients: (-4.71338e+000 , 1.29115e+000 , 0.00000e+000 , 0.00000e+000)**Temperature Coefficients:** (2.27704e+001 , -3.10005e-002 , 2.92373e-006 , -4.16957e-009)**Foil Batch #:** 5005**Foil Change Date:** 9/26/06 7:01:46 AM**Foil Coefficients:****Coeff0** (4.94529e+003 , -1.67764e+002 , 3.41751e+000 , -3.07691e-002)**Coeff1** (-2.69898e+002 , 8.31507e+000 , -1.74439e-001 , 1.62807e-003)**Coeff2** (5.97638e+000 , -1.67971e-001 , 3.75244e-003 , -3.67960e-005)**Coeff3** (-6.18186e-002 , 1.60203e-003 , -3.91116e-005 , 4.02796e-007)**Coeff4** (2.45034e-004 , -5.90217e-006 , 1.59999e-007 , -1.71557e-009)

<http://www.in-situ.com>

PH Calibration Report

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-14
Time 071541
Last Cal: 2/14/07 7:15:39 AM
Cal Points: 1
Point 1:

-
- Stimulus = 7.00 pH
- Response = -0.015293 mV
- Final Reading = 7.00 pH
- Temperature = 18.766 C
- Slope = -57.923 mV/pH
- Offset = 405.446 mV

ORP Calibration Report

Device Serial Number 45711
Sensor Serial Number PP05272
Sensor Mfg Date 2006-12-19
Method Quick Cal
Action COMPLETED
Status Point 1 STABLE
Date 2007-02-14
Time 071541
Last Cal: 2/14/07 7:15:38 AM
Cal Points: 1
Cal Type: Quick Cal Solution pH7
Point 1:

- Quick Cal Solution pH7
- Stimulus = 233.428 mV
- Response = 22.5798 mV
- Final Reading = 233.428 mV
- Temperature = 18.766 C
- Offset = -210.848 mV

Cond Calibration Report

Device Serial Number 45711
Sensor Serial Number LC04679
Sensor Type Conductivity, Low Range
Sensor Mfg Date 2006-10-05
Method Quick Cal
Action COMPLETED

Status Point 1 STABLE

Date 2007-02-14

Time 071541

Last Cal: 2/14/07 7:15:40 AM

Cal Points:

- 1
- Custom Cal Solution
- Stimulus = 7980 $\mu\text{S}/\text{cm}$
- Response = 49.5553 ohms
- Final Reading = 7980 $\mu\text{S}/\text{cm}$
- Temperature = 18.766 C
- Kcell = 0.345804

<http://www.in-situ.com>