



**TELEDYNE
RD INSTRUMENTS**

A Teledyne Technologies Company

Certificate of Conformance


Date: 8/8/2007
Part Number: WHSW600-I-UG57
System Serial Number: 6518

TRD Instruments hereby certifies that the system described above was fully calibrated, tested, and inspected according to TRD Instruments factory specifications. Standards established by TRD Instruments for calibrating the measuring and test equipment used in controlling product quality are traceable to TRD Instruments standards. To maintain specifications, regular maintenance intervals are essential. Factory Acceptance test results attached.

Title: Teledyne RD Instruments Test Technician 8/8/2007

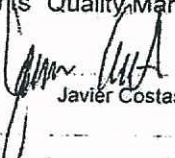
Signature: 

Title: Teledyne RD Instruments Production Manager 8/8/2007

Signature: 

Larry Houghton

Title: Teledyne RD Instruments Quality Manager 8/8/2007

Signature: 

Javier Costas

14020 Stowe Drive, Poway, CA 92064, USA
Tel: +1-858-842-2600 Fax: +1-858-842-2822
E-mail: sales@rdinstruments.com, rdifs@rdinstruments.com



**TELEDYNE
RD INSTRUMENTS**


A Teledyne Technologies Company

Certificate of Conformance

Date: 3/29/2006
Part Number: WHSZW1200-I-UG49
System Serial Number: 7478

TRD Instruments hereby certifies that the system described above was fully calibrated, tested, and inspected according to TRD Instruments factory specifications. Standards established by TRD Instruments for calibrating the measuring and test equipment used in controlling product quality are traceable to TRD Instruments standards. To maintain specifications, regular maintenance intervals are essential. Factory Acceptance test results attached.

Title: Teledyne RD Instruments Test Technician 3/29/2006

Signature: 

Title: Teledyne RD Instruments Manufacturing Manager 3/29/2006

Signature: 

Larry Houghton

Title: Teledyne RD Instruments Quality Manager 3/29/2006

Signature: 

Javier Costas

14020 Stowe Drive, Poway, CA 92064, USA

Tel: +1-858-842-2600 Fax: +1-858-842-2822

E-mail: sales@rdinstruments.com, rdifs@rdinstruments.com



**TELEDYNE
RD INSTRUMENTS**

A Teledyne Technologies Company

Certificate of Conformance

Date: 3/29/2006
Sales Order: 3017050
Part Number: WHSW600-I-UG80
System Serial Number: 7530

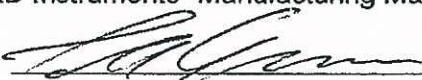
Customer: EGS
EGS (Asia) Limited
9th Floor South, Somerset House
Taikoo Place
979 King's Road
Quarry Bay, Hong Kong

TRD Instruments hereby certifies that the system described above was fully calibrated, tested, and inspected according to TRD Instruments factory specifications. Standards established by TRD Instruments for calibrating the measuring and test equipment used in controlling product quality are traceable to TRD Instruments standards. To maintain specifications, regular maintenance intervals are essential. Factory Acceptance test results attached.

Title: Teledyne RD Instruments Test Technician 3/29/2006

Signature: 

Title: Teledyne RD Instruments Manufacturing Manager 3/29/2006

Signature: 
Larry Houghton

Title: Teledyne RD Instruments Quality Manager 3/29/2006

Signature: 
Javier Costas

9855 Businesspark Avenue, San Diego, CA 92131, USA
Tel: +1-858-693-1178 Fax: +1-858-695-1456
E-mail: sales@rdinstruments.com, rdifs@rdinstruments.com



Form Name :
**Temperature/Salinity/Turbidity
 Calibration Record**

Procedure Type: **Calibration**
 Form No/Rev: **En10R / 2**
 Template Approval: **24-May-11**
 Approved by: **R E Hale**

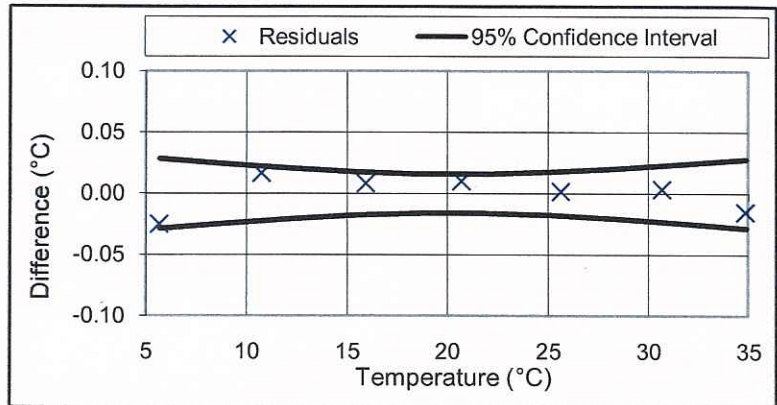
CALIBRATION RECORD FOR TEMPERATURE/SALINITY/TURBIDITY SENSOR

Instrument model: **YSI 6820** Calibration date **26 Jun 2012**
 Serial Number **02J0058-AA** EGS Instrument No **MPP15** Calibration Engineer **Ricky Wong**

Cal Thermometers	0-15 °C	15-30 °C	30-45 °C	Cal Salinometer	Ref A	Ref B	Cal A	Cal B
Thermoschneider	878919	919402	916278	RTASAL 69470	0	0	0	0

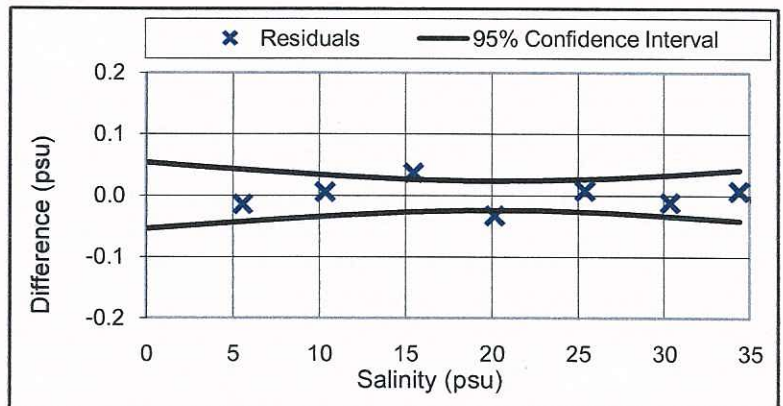
TEMPERATURE CALIBRATION

Reference YSI 6820	Calculated	Residual	
5.67	5.46	5.695	-0.025
10.74	10.49	10.723	0.017
15.94	15.70	15.932	0.008
20.71	20.47	20.700	0.010
25.65	25.42	25.648	0.002
30.71	30.48	30.707	0.003
34.87	34.66	34.885	-0.015



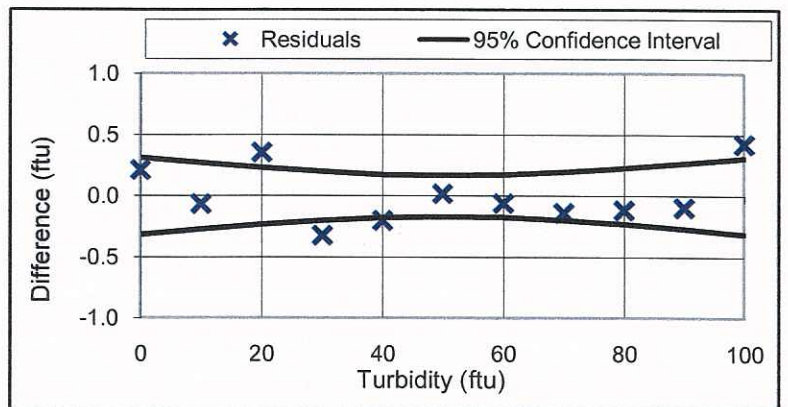
SALINITY CALIBRATION

Reference YSI 6820	Calculated	Residual	
5.56	5.58	5.574	-0.014
10.33	10.34	10.324	0.006
15.47	15.46	15.433	0.037
20.17	20.43	20.203	-0.033
25.4	25.44	25.392	0.008
30.37	30.44	30.381	-0.011
34.39	34.45	34.383	0.007



TURBIDITY CALIBRATION

Reference YSI 6820	Calculated	Residual	
0.0	0.0	-0.21	0.21
10.0	10.3	10.07	-0.07
20.0	19.9	19.65	0.35
30.0	30.6	30.32	-0.32
40.0	40.5	40.20	-0.20
50.0	50.3	49.98	0.02
60.0	60.4	60.06	-0.06
70.0	70.5	70.14	-0.14
80.0	80.5	80.12	-0.12
90.0	90.5	90.10	-0.10
100.0	100.0	99.58	0.42



CALIBRATION SUMMARY

	Temperature	Salinity	Turbidity
Calibration gradient, m	0.9997 ±0.0003	0.9979 ±0.0004	0.998 ±0.0008
Calibration intercept, c	0.24 ±0.00°C	0.01 ±0.00psu	-0.21 ±0.02ftu
95% Confidence interval	±0.028 °C	±0.054 psu	±0.32 ftu
PASS/FAIL CRITERION	0.1 PASS	0.2 PASS	1.0 PASS

Calibration Engineer	Ricky Wong	Geoscientist	R E Hale	Senior Engineer	Sunny Hu
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Form Name :
**Temperature/Salinity/Turbidity
 Calibration Record**

Procedure Type: **Calibration**
 Form No/Rev: **En10R / 2**
 Template Approval: **24-May-11**
 Approved by: **R E Hale**

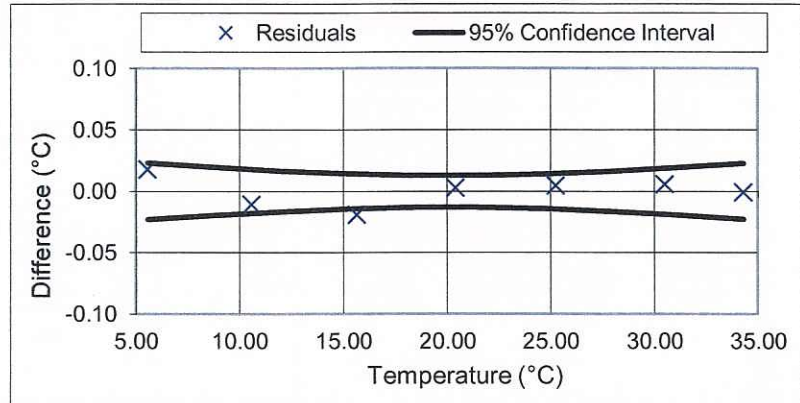
CALIBRATION RECORD FOR TEMPERATURE/SALINITY/TURBIDITY SENSOR

Instrument model: **YSI 6920** Calibration date: **04 Jul 2012**
 Serial Number: **07H100241** EGS Instrument No: **MPP22** Calibration Engineer: **Even Mak**

Cal Thermometers	0-15 °C	15-30 °C	30-45 °C	Cal Salinometer	Ref A	Ref B	Cal A	Cal B
Thermoschneider	878919	919402	916278	PORTASAL 69470	0	0	0	0

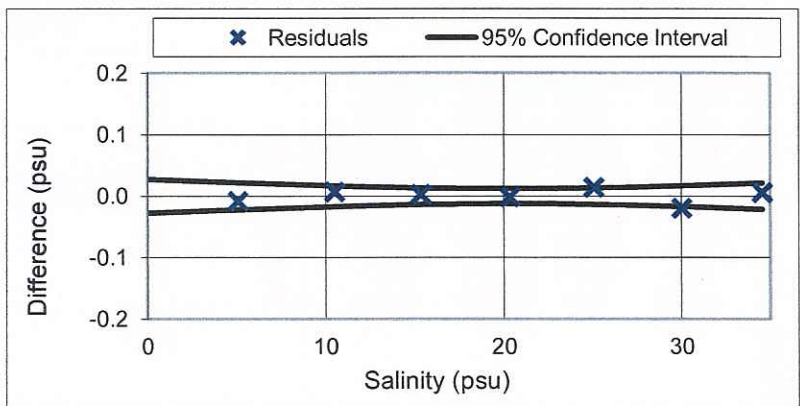
TEMPERATURE CALIBRATION

Reference YSI 6920	Calculate	Residual	
5.55	5.30	5.532	0.018
10.58	10.35	10.591	-0.011
15.65	15.42	15.669	-0.019
20.40	20.14	20.397	0.003
25.26	24.99	25.255	0.005
30.50	30.22	30.494	0.006
34.30	34.02	34.301	-0.001



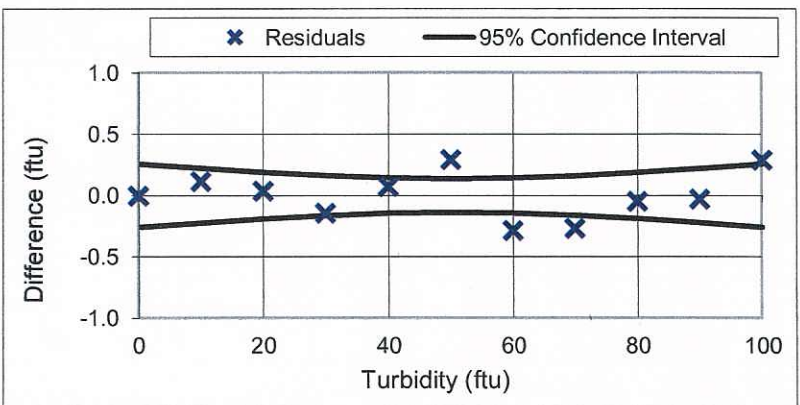
SALINITY CALIBRATION

Reference YSI 6920	Calculate	Residual	
5.11	5.11	5.118	-0.008
10.52	10.5	10.513	0.007
15.35	15.33	15.347	0.003
20.36	20.34	20.362	-0.002
25.11	25.07	25.096	0.014
30.04	30.03	30.060	-0.020
34.55	34.51	34.544	0.006



TURBIDITY CALIBRATION

Reference YSI 6920	Calculate	Residual	
0.0	0.0	0.01	-0.01
10.0	9.9	9.89	0.11
20.0	20.0	19.97	0.03
30.0	30.2	30.15	-0.15
40.0	40.0	39.93	0.07
50.0	49.8	49.71	0.29
60.0	60.4	60.29	-0.29
70.0	70.4	70.27	-0.27
80.0	80.2	80.05	-0.05
90.0	90.2	90.03	-0.03
100.0	99.9	99.71	0.29



CALIBRATION SUMMARY

	Temperature	Salinity	Turbidity
Calibration gradient, m	1.0017 ±0.0002	1.0009 ±0.0002	0.998 ±0.0006
Calibration intercept, c	0.22 ±0.00°C	0.00 ±0.00psu	0.01 ±0.02ftu
95% Confidence interval	±0.023 °C	±0.028 psu	±0.26 ftu
PASS/FAIL CRITERION	0.1 PASS	0.2 PASS	1.0 PASS

Calibration Engineer	Even Mak	Geoscientist	R E Hale	Senior Engineer	Sunny Hu
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**Temperature/Salinity/Turbidity
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Procedure Type: **Calibration**
 Form No/Rev: **En10R / 2**
 Template Approval: **24-May-11**
 Approved by: **R E Hale**

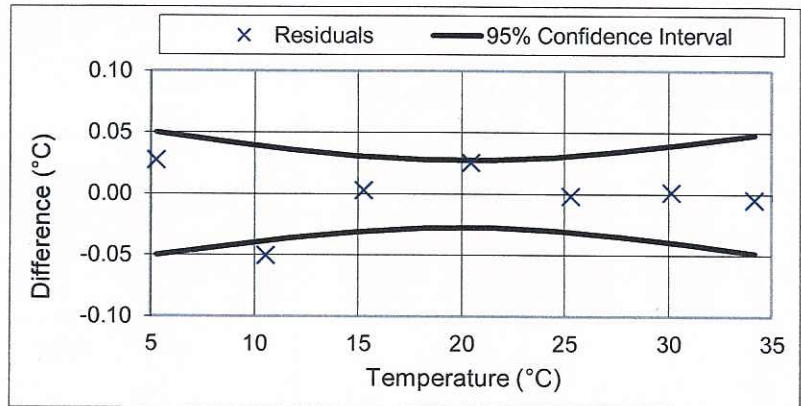
CALIBRATION RECORD FOR TEMPERATURE/SALINITY/TURBIDITY SENSOR

Instrument model: **YSI 6920** Calibration date: **09 Jul 2012**
 Serial Number: **07K101951** EGS Instrument No: **MPP23** Calibration Engineer: **Even Mak**

Cal Thermometers	0-15 °C	15-30 °C	30-45 °C	Cal Salinometer	Ref A	Ref B	Cal A	Cal B
Thermoschneider	878919	919402	916278	PORTASAL 69470	0	0	0	0

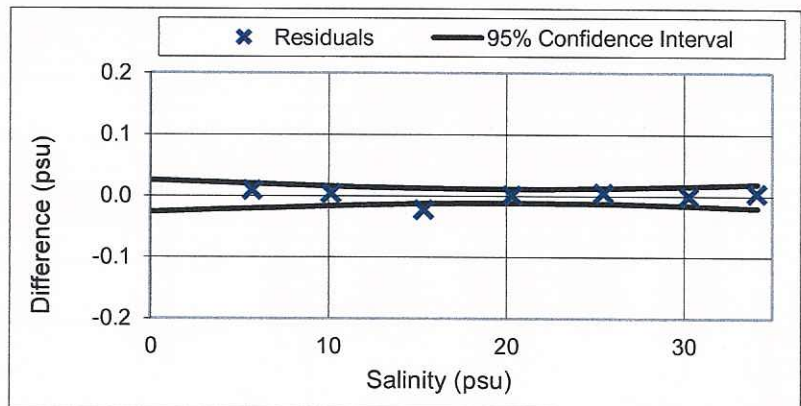
TEMPERATURE CALIBRATION

Reference YSI 6920	Calculate	Residual	
5.26	5.21	5.233	0.027
10.55	10.57	10.600	-0.050
15.28	15.24	15.277	0.003
20.44	20.37	20.415	0.025
25.30	25.25	25.302	-0.002
30.15	30.09	30.149	0.001
34.18	34.12	34.185	-0.005



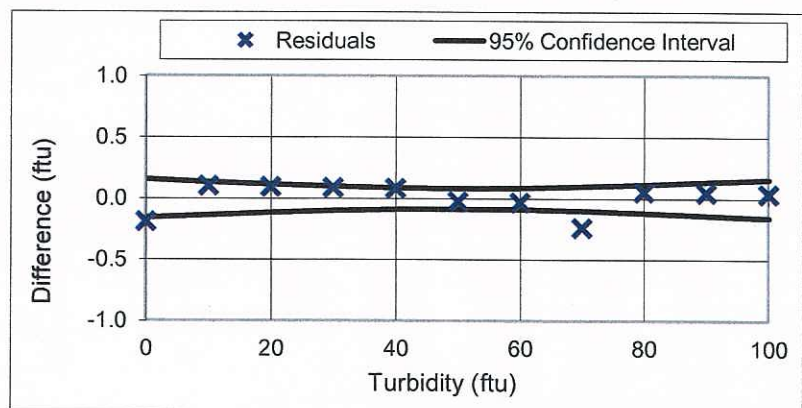
SALINITY CALIBRATION

Reference YSI 6920	Calculate	Residual	
5.71	5.71	5.700	0.010
10.15	10.15	10.146	0.004
15.34	15.36	15.363	-0.023
20.33	20.32	20.329	0.001
25.51	25.49	25.505	0.005
30.3	30.28	30.301	-0.001
34.13	34.1	34.126	0.004



TURBIDITY CALIBRATION

Reference YSI 6920	Calculate	Residual	
0.0	0.0	0.19	-0.19
10.0	9.7	9.90	0.10
20.0	19.7	19.91	0.09
30.0	29.7	29.91	0.09
40.0	39.7	39.92	0.08
50.0	49.8	50.03	-0.03
60.0	59.8	60.03	-0.03
70.0	70.0	70.24	-0.24
80.0	79.7	79.95	0.05
90.0	89.7	89.96	0.04
100.0	99.7	99.96	0.04



CALIBRATION SUMMARY

	Temperature	Salinity	Turbidity
Calibration gradient, m	1.0015 ±0.0005	1.0013 ±0.0002	1.001 ±0.0004
Calibration intercept, c	0.01 ±0.00°C	-0.02 ±0.00psu	0.19 ±0.01ftu
95% Confidence interval	±0.050 °C	±0.026 psu	±0.16 ftu
PASS/FAIL CRITERION	0.1 PASS	0.2 PASS	1.0 PASS

Calibration Engineer	Even Mak	Geoscientist	R E Hale	Senior Engineer	Sunny Hu
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**Temperature/Salinity/Turbidity
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 Form No/Rev: **En10R / 2**
 Template Approval **24-May-11**
 Approved by: **R E Hale**

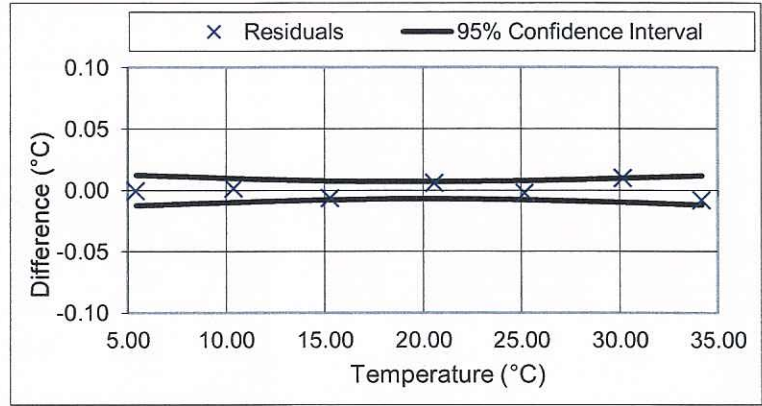
CALIBRATION RECORD FOR TEMPERATURE/SALINITY/TURBIDITY SENSOR

Instrument model: **YSI 6920** Calibration date **22 Jun 2012**
 Serial Number **08C100240** EGS Instrument No **MPP30** Calibration Engineer **Ricky Wong**

Cal Thermometers	0-15 °C	15-30 °C	30-45 °C	Cal Salinometer	Ref A	Ref B	Cal A	Cal B
Thermoschneider	878919	919402	916278	DRTASAL 69470	0	0	0	0

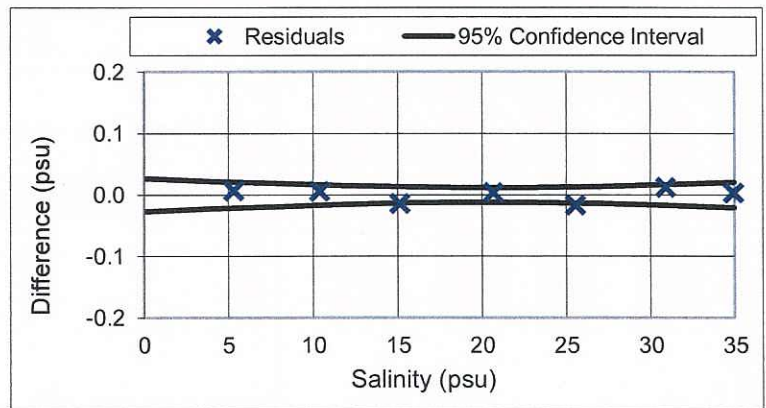
TEMPERATURE CALIBRATION

Reference YSI 6920	Calculated	Residual	
5.40	5.40	5.401	-0.001
10.38	10.38	10.378	0.002
15.28	15.29	15.286	-0.006
20.57	20.57	20.564	0.006
25.18	25.19	25.182	-0.002
30.17	30.17	30.160	0.010
34.17	34.19	34.178	-0.008



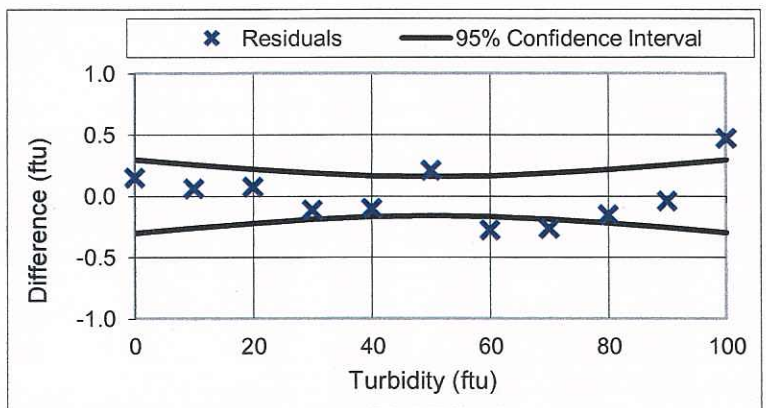
SALINITY CALIBRATION

Reference YSI 6920	Calculated	Residual	
5.32	5.31	5.313	0.007
10.4	10.38	10.394	0.006
15.13	15.12	15.144	-0.014
20.7	20.66	20.696	0.004
25.56	25.53	25.577	-0.017
30.9	30.83	30.888	0.012
34.92	34.85	34.917	0.003



TURBIDITY CALIBRATION

Reference YSI 6920	Calculated	Residual	
0.0	0.0	-0.15	0.15
10.0	10.1	9.94	0.06
20.0	20.1	19.93	0.07
30.0	30.3	30.12	-0.12
40.0	40.3	40.10	-0.10
50.0	50.0	49.79	0.21
60.0	60.5	60.28	-0.28
70.0	70.5	70.27	-0.27
80.0	80.4	80.15	-0.15
90.0	90.3	90.04	-0.04
100.0	99.8	99.53	0.47



CALIBRATION SUMMARY

	Temperature	Salinity	Turbidity
Calibration gradient, m	0.9996 ±0.0001	1.0022 ±0.0002	0.999 ±0.0007
Calibration intercept, c	0.00 ±0.00°C	-0.01 ±0.00psu	-0.15 ±0.02ftu
95% Confidence interval	±0.013 °C	±0.027 psu	±0.30 ftu
PASS/FAIL CRITERION	0.1 PASS	0.2 PASS	1.0 PASS

Calibration Engineer	Ricky Wong	Geoscientist	R E Hale	Senior Engineer	Sunny Hu
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Form Name :
**Temperature/Salinity/Turbidity
 Calibration Record**

Procedure Type: **Calibration**
 Form No/Rev: **En10R / 2**
 Template Approval: **24-May-11**
 Approved by: **R E Hale**

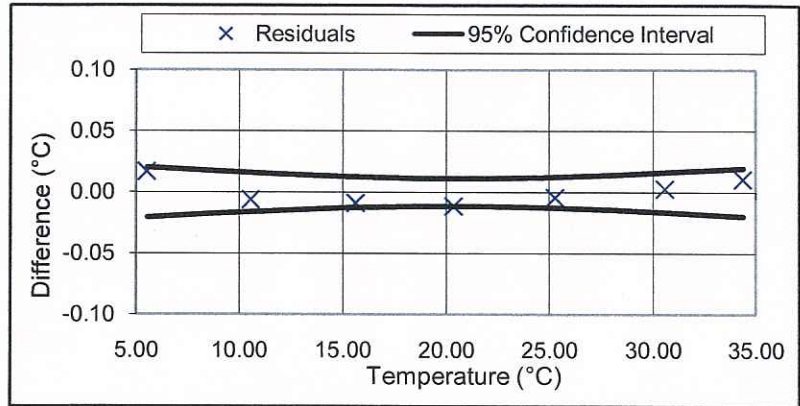
CALIBRATION RECORD FOR TEMPERATURE/SALINITY/TURBIDITY SENSOR

Instrument model: **YSI 6920** Calibration date: **04 Jul 2012**
 Serial Number: **08C100241** EGS Instrument No: **MPP31** Calibration Engineer: **Even Mak**

Cal Thermometers	0-15 °C	15-30 °C	30-45 °C	Cal Salinometer	Ref A	Ref B	Cal A	Cal B
Thermoschneider	878919	919402	916278	PORTASAL 69470	0	0	0	0

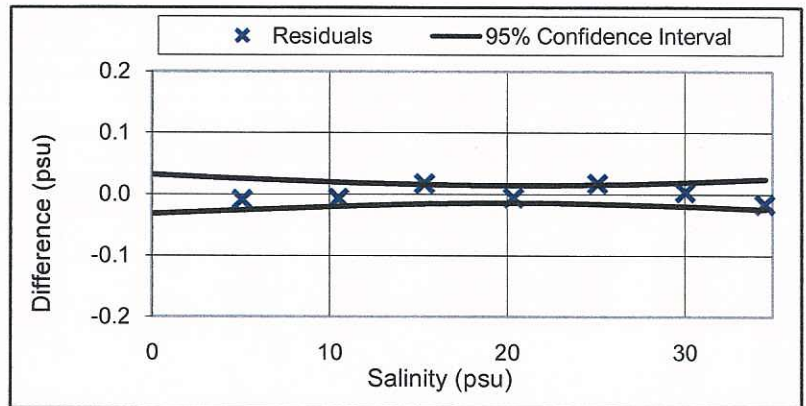
TEMPERATURE CALIBRATION

Reference YSI 6920	Calculate	Residual	
5.52	5.51	5.503	0.017
10.57	10.58	10.576	-0.006
15.62	15.63	15.629	-0.009
20.37	20.38	20.381	-0.011
25.28	25.28	25.284	-0.004
30.57	30.56	30.567	0.003
34.38	34.36	34.369	0.011



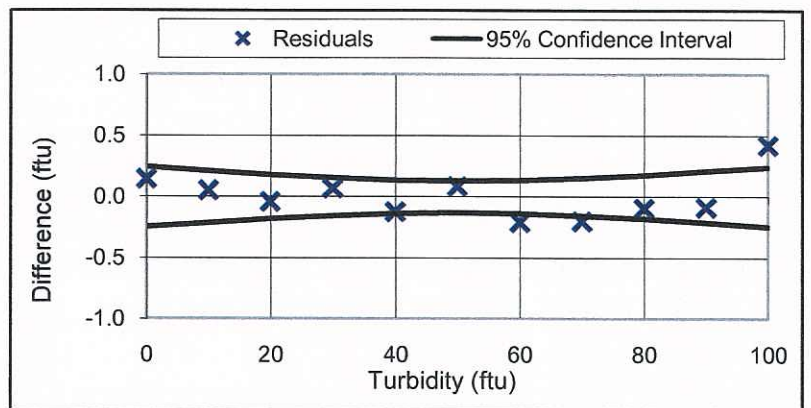
SALINITY CALIBRATION

Reference YSI 6920	Calculate	Residual	
5.11	5.12	5.119	-0.009
10.52	10.6	10.527	-0.007
15.35	15.47	15.333	0.017
20.36	20.57	20.366	-0.006
25.11	25.36	25.093	0.017
30.04	30.37	30.037	0.003
34.55	34.96	34.566	-0.016



TURBIDITY CALIBRATION

Reference YSI 6920	Calculate	Residual	
0.0	0.0	-0.14	0.14
10.0	10.1	9.95	0.05
20.0	20.2	20.04	-0.04
30.0	30.1	29.93	0.07
40.0	40.3	40.13	-0.13
50.0	50.1	49.92	0.08
60.0	60.4	60.21	-0.21
70.0	70.4	70.20	-0.20
80.0	80.3	80.10	-0.10
90.0	90.3	90.09	-0.09
100.0	99.8	99.58	0.42



CALIBRATION SUMMARY

	Temperature	Salinity	Turbidity
Calibration gradient, m	1.0006 ±0.0002	0.9868 ±0.0002	0.999 ±0.0006
Calibration intercept, c	-0.01 ±0.00°C	0.07 ±0.00psu	-0.14 ±0.02ftu
95% Confidence interval	±0.020 °C	±0.032 psu	±0.24 ftu
PASS/FAIL CRITERION	0.1 PASS	0.2 PASS	1.0 PASS

Calibration Engineer	Even Mak	Geoscientist	R E Hale	Senior Engineer	Sunny Hu
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Form Name :
**Temperature/Salinity/Turbidity
Calibration Record**

Procedure Type: **Calibration**
Form No/Rev: **En10R / 2**
Template Approval: **24-May-11**
Approved by: **R E Hale**

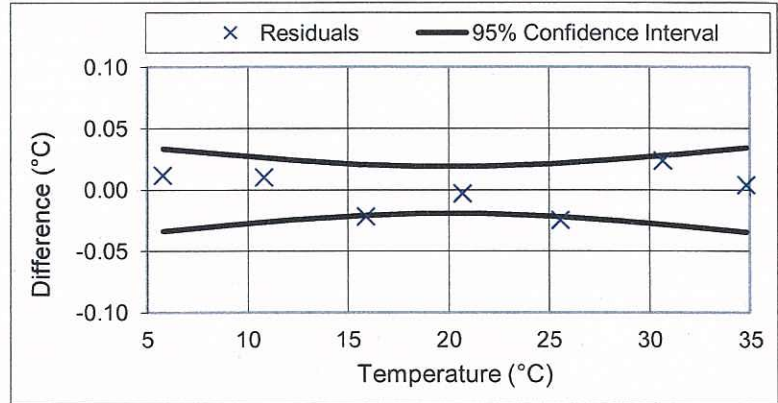
CALIBRATION RECORD FOR TEMPERATURE/SALINITY/TURBIDITY SENSOR

Instrument model: **YSI 6820** Calibration date **26 Jun 2012**
Serial Number **09H101347** EGS Instrument No **MPP37** Calibration Engineer **Ricky Wong**

Cal Thermometers	0-15 °C	15-30 °C	30-45 °C	Cal Salinometer	Ref A	Ref B	Cal A	Cal B
Thermoschneider	878919	919402	916278	ORTASAL 69470	0	0	0	0

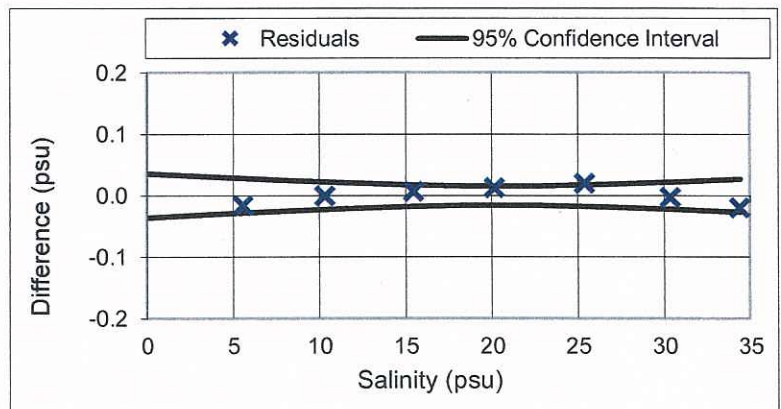
TEMPERATURE CALIBRATION

Reference YSI 6820	Calculated	Residual	
5.77	5.21	5.758	0.012
10.81	10.24	10.800	0.010
15.90	15.35	15.922	-0.022
20.70	20.12	20.703	-0.003
25.60	25.03	25.625	-0.025
30.68	30.05	30.656	0.024
34.82	34.20	34.816	0.004



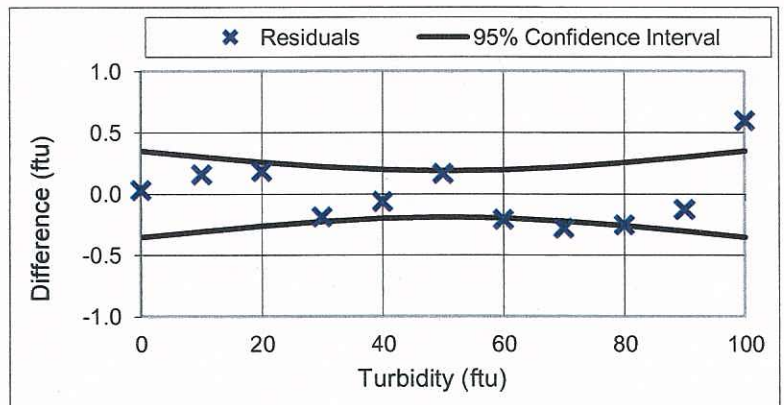
SALINITY CALIBRATION

Reference YSI 6820	Calculated	Residual	
5.56	5.59	5.576	-0.016
10.33	10.36	10.330	0.000
15.47	15.51	15.463	0.007
20.17	20.22	20.157	0.013
25.4	25.46	25.380	0.020
30.37	30.47	30.373	-0.003
34.39	34.52	34.410	-0.020



TURBIDITY CALIBRATION

Reference YSI 6820	Calculated	Residual	
0.0	0.0	-0.03	0.03
10.0	9.9	9.84	0.16
20.0	19.9	19.82	0.18
30.0	30.3	30.19	-0.19
40.0	40.2	40.06	-0.06
50.0	50.0	49.84	0.16
60.0	60.4	60.21	-0.21
70.0	70.5	70.28	-0.28
80.0	80.5	80.25	-0.25
90.0	90.4	90.13	-0.13
100.0	99.7	99.40	0.60



CALIBRATION SUMMARY

	Temperature	Salinity	Turbidity
Calibration gradient, m	1.0023 ±0.0003	0.9967 ±0.0003	0.997 ±0.0009
Calibration intercept, c	0.54 ±0.00°C	0.00 ±0.00psu	-0.03 ±0.03ftu
95% Confidence interval	±0.035 °C	±0.036 psu	±0.35 ftu
PASS/FAIL CRITERION	0.1 PASS	0.2 PASS	1.0 PASS

Calibration Engineer	Ricky Wong	Geoscientist	R E Hale	Senior Engineer	Sunny Hu
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