

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR 5
Calibrated by : P.F. Yeung
Date : 11/02/2017

Sampler

Model : TE-5170
Serial Number : S/N 0816

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 14 Mar 2016
Slope (m) : 2.10326
Intercept (b) : -0.06696
Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1023
Ta(K) : 287

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	11.2	3.427	1.661	55	56.32
2	13 holes	9	3.072	1.492	50	51.20
3	10 holes	6.7	2.651	1.292	43	44.03
4	7 holes	4.3	2.123	1.041	36	36.86
5	5 holes	2.7	1.683	0.832	29	29.70

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 32.008 Intercept(b): 3.172 Correlation Coefficient(r): 0.9995

Checked by: Magnum Fan

Date: 15/02/2017

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR10
Calibrated by : P.F.Yeung
Date : 11/02/2017

Sampler

Model : TE-5170
Serial Number : S/N 8162

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 14 Mar 2016
Slope (m) : 2.10326
Intercept (b) : -0.06696
Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1023
Ta(K) : 287

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.2	3.577	1.732	54	55.30
2	13 holes	9.8	3.206	1.556	48	49.15
3	10 holes	7.2	2.748	1.338	42	43.01
4	7 holes	4.6	2.196	1.076	34	34.82
5	5 holes	2.5	1.619	0.802	25	25.60

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 31.500 Intercept(b): 0.598 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan

Date: 15/02/17

High-Volume TSP Sampler
5-Point Calibration Record

Location : AQMS1
Calibrated by : P.F. Yeung
Date : 11/02/2017

Sampler

Model : TE-5170
Serial Number : S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 14 Mar 2016
Slope (m) : 2.10326
Intercept (b) : -0.06696
Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1023
Ta(K) : 287

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	11.6	3.488	1.690	57	58.37
2	13 holes	9.4	3.140	1.525	51	52.22
3	10 holes	6.7	2.651	1.292	44	45.06
4	7 holes	4.5	2.172	1.065	37	37.89
5	5 holes	2.8	1.713	0.847	29	29.70

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 33.356 Intercept(b): 1.832 Correlation Coefficient(r): 0.9993

Checked by: Magnum Fan

Date: 15/02/2017

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR 1
Calibrated by : P.F.Yeung
Date : 11/02/2017

Sampler

Model : TE-5170
Serial Number : S/N 0146

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 14 Mar 2016
Slope (m) : 2.10326
Intercept (b) : -0.06696
Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1023
Ta(K) : 287

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	11.5	3.473	1.683	56	57.34
2	13 holes	9.0	3.072	1.492	50	51.20
3	10 holes	7.0	2.709	1.320	44	45.06
4	7 holes	4.6	2.196	1.076	35	35.84
5	5 holes	2.8	1.713	0.847	28	28.67

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 34.810 Intercept(b): -1.058 correlation Coefficient(r): 0.9995

Checked by: Magnum Fan

Date: 15/02/2017

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR 6
Calibrated by : P.F.Yeung
Date : 11/02/2017

Sampler

Model : TE-5170
Serial Number : S/N 3957

Calibration Office and Standard Calibration Relationship

Serial Number : 2454
Service Date : 14 Mar 2016
Slope (m) : 2.10326
Intercept (b) : -0.06696
Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1023
Ta(K) : 287

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.0	3.547	1.718	54	55.30
2	13 holes	9.4	3.140	1.525	49	50.18
3	10 holes	6.8	2.670	1.301	43	44.03
4	7 holes	4.5	2.172	1.065	36	36.86
5	5 holes	2.6	1.651	0.817	30	30.72

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 27.603 Intercept(b): 7.943 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan

Date: 15/02/2017

ENVIROTECH SERVICES CO.

Calibration Report of Wind Meter

Date of Calibration : 1 November 2016

Brand of Test Meter: Davis

Model: Vantage Pro 2 (s/n: AS160104014)

Location : ASR5

Procedures :

1. Wind Still Test: The wind speed sensor was hold by hand until it keep still
2. Wind Speed Test: The wind meter was on-site calibrated against the Anemometer
3. Wind Direction Test : The wind meter was on-site calibrated against the marine compass at four directions

Results:

Wind Still Test

Wind Speed (m/s)
0.00

Wind Speed Test

Davis (m/s)	Anemomete (m/s)
1.2	1.3
2.5	2.8
3.3	3.6

Wind Direction Test

Davis (o)	Marine Compass (o)
271	270
1	0
91	90
179	180

Calibrated by:

Fai
Yeung Ping Fai
(Technical Officer)

Checked by :

Fat
Ho Kam Fat
(Senior Technical Officer)

Certificate of Calibration

校正證書

Certificate No. : C165934
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC16-2438) Date of Receipt / 收件日期 : 26 October 2016

Description / 儀器名稱 : Anemometer
Manufacturer / 製造商 : Lutron
Model No. / 型號 : AM-4201
Serial No. / 編號 : AF.27513
Supplied By / 委託者 : Envirotech Services Co.
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check


DATE OF TEST / 測試日期 : 27 October 2016

TEST RESULTS / 測試結果


The results apply to the particular unit-under-test only.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- Testo Industrial Services GmbH, Germany

Tested By
測試


T L Shek
Assistant Engineer

Certified By
核證


H C Chan
Engineer

Date of Issue : 28 October 2016
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C165934

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
2. The results presented are the mean of 10 measurements at each calibration point.
3. Test equipment :

Equipment ID
CL386

Description
Multi-function Measuring Instrument

Certificate No.
S12109

4. Test procedure : MA130N.
5. Results :

Air Velocity

Applied Value (m/s)	UUT Reading (m/s)	Measured Correction		
		Value (m/s)	Measurement Uncertainty	
			Expanded Uncertainty (m/s)	Coverage Factor
2.0	1.8	+0.2	0.2	2.0
4.0	3.8	+0.2	0.2	2.0
6.0	5.8	+0.2	0.3	2.0
8.1	8.0	+0.1	0.3	2.0
10.0	10.0	0.0	0.4	2.0

Remarks : - The Measured Corrections are defined as :
Value = Applied Value - UUT Reading

- The expanded uncertainties are for a level of confidence of 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

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E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW007/008 Manufacturer : HANNA
Model No. : HI9125 Serial No. : H0040409
Date of Calibration : 27/02/2017 Calibration Due Date : 26/03/2017

Liquid Junction Error

003/5.2/002/09 (20°C)

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/002/08 (25°C)
Temperature of Solution : 25.0 / 20.0 $\Delta\text{pH}_{1/2} =$ 0.080 / 0.080
pH value of diluted buffer : 6.97 / 6.97 pH (S) = 6.865 / 6.881
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} =$ 0.105 / 0.089 (Observed Deviation)
Liquid Junction Error (ΔpH_j) = $\Delta\text{pH} - \Delta\text{pH}_{1/2} =$ 0.02 / 0.01

Shift on Stirring

pH of buffer solution (with stirring), $\text{pH}_s =$ 6.90 / 6.90
Shift on stirring, $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j =$ 0.01 / 0.01

Noise

Noise, $\Delta\text{pH}_n =$ difference between max and min reading : 0.01 / 0.01

Verification of ATC

Ref. No. of reference thermometer used: ET/0521/018 / ET/0521/019
Temperature record from the reference thermometer (T_R): 25.0 / 20.0 °C
Temperature record from the ATC (T_{ATC}): 24.9 / 19.9 °C
Temperature Difference, $|T_R - T_{\text{ATC}}|$ 0.1 / 0.1 °C
Correction +0.1 / +0.1 °C

Acceptance Criteria

Performance Characteristic		Acceptable Range
Liquid Junction Error	ΔpH_j	≤ 0.05
Shift on Stirring	ΔpH_s	≤ 0.02
Noise	ΔpH_n	≤ 0.02
Verification of ATC	Temperature Difference	$\leq 0.5^\circ\text{C}$

The pH meter complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use. Measurements are traceable to national standards.

* Delete as appropriate

Calibrated by:

Beno

Checked by :

AL



Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW007/007 Manufacturer : HANNA
Model No. : HI 8314 Serial No. : 08500489
Date of Calibration : 07/03/2017 Calibration Due Date : 06/04/2017

Liquid Junction Error

003/5.2/002/09 (20°C)

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/002/09 (25°C)
Temperature of Solution : 25.0 / 20.0 $\Delta pH_{1/2} =$ 0.080 / 0.080
pH value of diluted buffer : 6.99 / 7.00 $pH(S) =$ 6.865 / 6.881
 $\Delta pH = pH(S) - pH \text{ of diluted buffer} =$ 0.125 / 0.119 (Observed Deviation)
Liquid Junction Error (ΔpH_j) = $\Delta pH - \Delta pH_{1/2} =$ 0.045 / 0.039

Shift on Stirring

pH of buffer solution (with stirring), $pH_s =$ 6.92 / 6.92
Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_j =$ 0.010 / 0.000

Noise

Noise, ΔpH_n = difference between max and min reading : 0.01 / 0.01

Verification of ATC

Ref. No. of reference thermometer used: ET/0521/018 / ET/0521/019
Temperature record from the reference thermometer (T_R): 25.0 / 20.0 °C
Temperature record from the ATC (T_{ATC}): 24.8 / 19.8 °C
Temperature Difference, $|T_R - T_{ATC}|$: 0.2 / 0.2 °C
Correction : +0.2 / +0.2 °C

Acceptance Criteria

Performance Characteristic		Acceptable Range
Liquid Junction Error	ΔpH_j	≤ 0.05
Shift on Stirring	ΔpH_s	≤ 0.02
Noise	ΔpH_n	≤ 0.02
Verification of ATC	Temperature Difference	$\leq 0.5^\circ\text{C}$

The pH meter complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use. Measurements are traceable to national standards.

* Delete as appropriate

Calibrated by:

Checked by:



Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW007/008 Manufacturer : HANNA
Model No. : HI9125 Serial No. : H0040409
Date of Calibration : 30/03/2017 Calibration Due Date : 29/04/2017

Liquid Junction Error

003/5.2/002/09 (20°C)

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/002/10 (25°C)
Temperature of Solution : 25.0 / 20.0 $\Delta pH_{1/2} =$ 0.080 / 0.080
pH value of diluted buffer : 6.98 / 6.99 $pH(S) =$ 6.865 / 6.881
 $\Delta pH = pH(S) - pH \text{ of diluted buffer} =$ 0.115 / 0.109 (Observed Deviation)
Liquid Junction Error (ΔpH_j) = $\Delta pH - \Delta pH_{1/2} =$ 0.04 / 0.03

Shift on Stirring

pH of buffer solution (with stirring), $pH_s =$ 6.91 / 6.92
Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_j =$ 0.01 / 0.01

Noise

Noise, $\Delta pH_n =$ difference between max and min reading : 0.01 / 0.01

Verification of ATC

Ref. No. of reference thermometer used: ET/0521/018 / ET/0521/019
Temperature record from the reference thermometer (T_R): 25.0 / 20.0 °C
Temperature record from the ATC (T_{ATC}): 24.9 / 19.9 °C
Temperature Difference, $|T_R - T_{ATC}|$ 0.1 / 0.1 °C
Correction +0.1 / +0.1 °C

Acceptance Criteria

Performance Characteristic		Acceptable Range
Liquid Junction Error	ΔpH_j	≤ 0.05
Shift on Stirring	ΔpH_s	≤ 0.02
Noise	ΔpH_n	≤ 0.02
Verification of ATC	Temperature Difference	$\leq 0.5^\circ C$

The pH meter complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use. Measurements are traceable to national standards.

* Delete as appropriate

Calibrated by: 

Checked by : 



Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/016 Manufacturer : HACH

Model No. : 2100Q Serial No. : 16030C048473

Date of Calibration : 26/01/17 Due Date : 25/04/2017

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.8	4.0
100	99.1	-0.9
800	779	-2.6

(*) Difference = (Measured Value – Theoretical Value) / Theoretical Value x 100

Acceptance Criteria

Difference : -5 % to 5 %

The turbidity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Prepared by : Brian

Checked by : [Signature]



Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : ET/EW/008/008
Model No. : Pro 2030
Date of Calibration : 19/01/2017

Manufacturer : YSI
Serial No. : 14M101489
Calibration Due Date : 18/04/2017

Temperature Verification

Ref. No. of Reference Thermometer : ET/0521/017
Ref. No. of Water Bath : ---

Reference Thermometer reading	Temperature (°C)			
	Measured	20.3	Corrected	19.8
DO Meter reading	Measured	19.8	Difference	0.0

Standardization of sodium thiosulphate ($\text{Na}_2\text{S}_2\text{O}_3$) solution

Reagent No. of $\text{Na}_2\text{S}_2\text{O}_3$ titrant	CPE/012/4.5/001/15	Reagent No. of 0.025N $\text{K}_2\text{Cr}_2\text{O}_7$	CPE/012/4.4/002/16
	Trial 1		Trial 2
Initial Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml)	0.00		10.35
Final Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml)	10.35		20.70
Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ used (ml)	10.35		10.35
Normality of $\text{Na}_2\text{S}_2\text{O}_3$ solution (N)	0.02415		0.02415
Average Normality (N) of $\text{Na}_2\text{S}_2\text{O}_3$ solution (N)	0.02415		
Acceptance criteria, Deviation	Less than $\pm 0.001\text{N}$		

Calculation: Normality of $\text{Na}_2\text{S}_2\text{O}_3$, $N = 0.25 / \text{ml } \text{Na}_2\text{S}_2\text{O}_3 \text{ used}$

Linearity Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)	2		5		10	
Trial	1	2	1	2	1	2
Initial Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml)	0.00	11.40	23.00	0.00	6.10	9.90
Final Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml)	11.40	23.00	29.60	6.10	9.90	13.80
Vol. (V) of $\text{Na}_2\text{S}_2\text{O}_3$ used (ml)	11.40	11.60	6.60	6.10	3.80	3.90
Dissolved Oxygen (DO), mg/L	7.39	7.52	4.28	3.95	2.46	2.53
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: $\text{DO (mg/L)} = V \times N \times 8000/298$

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.39	7.48	7.44	7.39	7.52	7.46	0.27
5	4.19	4.14	4.17	4.28	3.95	4.12	1.21
10	2.39	2.42	2.41	2.46	2.53	2.50	3.67
Linear regression coefficient				0.9993			



Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

DO meter reading, mg/L	0.00
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Salinity Checking

Reagent No. of NaCl (10ppt)	CPE/012/4.7/003/33	Reagent No. of NaCl (30ppt)	CPE/012/4.8/003/33
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Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30	
Trial	1	2	1	2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	10.90	21.80	31.20
Final Vol. of Na ₂ S ₂ O ₃ (ml)	10.90	21.80	31.20	40.60
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	10.90	10.90	9.40	9.40
Dissolved Oxygen (DO), mg/L	7.07	7.07	6.09	6.09
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 8000/298

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result**, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	7.12	7.07	7.1	7.07	7.07	7.07	0.42
30	6.14	6.17	6.16	6.09	6.09	6.09	1.14

Acceptance Criteria

- (1) Differenc between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °C
- (2) Linear regression coefficient : >0.99
- (3) Zero checking: 0.0mg/L
- (4) Difference (%) of DO content from the meter reading and by winkler titration : within ± 5%

The equipment complies # / ~~does not comply~~ # with the specified requirements and is deemed acceptable #
/ ~~unacceptable~~ # for use.

Delete as appropriate

Calibrated by

: Bauer

Approved by :

AL



Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/008 Manufacturer : YSI
Model No. : Pro 2030 Serial No. : 14M101489
Date of Calibration : 19/01/2017 Due Date : 18/04/2017

Ref. No. of Salinity Standard used (30ppt)

S/001/9

Salinity Standard Value (ppt)	Measured Salinity (ppt)	Difference * (%)
30.0	30.3	1.00

(*) Difference (%) = (Measured Salinity – Salinity Standard value) / Salinity Standard value x 100

Acceptance Criteria

Difference : -10 % to 10 %

The salinity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Checked by : Brian Approved by : 126