April 10, 2019

Linh Kieu
Bureau of Safe Drinking Water
Nevada Division of Environmental Protection
901 South Stewart, Suite 4001
Carson City, NV 89701

Dear Mr. Kieu,

Enclosed you will find the Water Treatment and Water Distribution Summary Reports for the certification examinations that took place on March 14, 2019 at various sites throughout the State.

The individual results have been sent in a separate email to you and Max Sosa. Should you have any questions or need further information, please contact me at 909.291.2100 or by email genriquez@ca-nv-awwa.org. You are also welcome to contact Steven Garner, Certification Manager at 916.889.8465 or by email sgarner@ca-nv-awwa.org.

Sincerely,

Gina Enriquez
Certification Specialist
CA-NV AWWA

cc: Max Sosa
Rachel Weingart
Yan Zhang
Will Raymond
Steven Garner
Examination Summary Reports
March 2019 Examinations

Prepared for
Bureau of Safe Drinking Water, Nevada Division of Environmental Protection

Prepared By
California – Nevada Section of the American Water Works Association
April 10, 2019
## Overall Exam Results
### Exam Analysis Pass/Failure Rate

<table>
<thead>
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<th>Water Distribution - Entire State:</th>
<th>Water Treatment - Entire State:</th>
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<tr>
<td></td>
<td>44       Passed the Exam</td>
<td>19     Passed the Exam</td>
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<tr>
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<td>29       Failed the Exam</td>
<td>15     Failed the Exam</td>
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**By Region:**

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<th>Northern NV: 53 Testers</th>
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<tr>
<td></td>
<td>Passing Rate of 56%</td>
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<td>Failure Rate of 44%</td>
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<th>Southern NV: 20 Testers</th>
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<tr>
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<td>Passing Rate of 58%</td>
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<tr>
<td></td>
<td>Failure Rate of 30%</td>
<td>Failure Rate of 42%</td>
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## Analysis Pass/Failure Rate
### by Grade Level/Discipline

### Water Distribution - Entire State:
- 44 Passed the Exam
- 29 Failed the Exam

### Water Treatment - Entire State:
- 19 Passed the Exam
- 15 Failed the Exam

### By Discipline Pass/Failure:

#### Distribution Grade 1 (D1)
- 32 Passed
- 10 Failed

#### Distribution Grade 2 (D2)
- 07 Passed
- 14 Failed

#### Distribution Grade 3 (D3)
- 04 Passed
- 02 Failed

#### Distribution Grade 4 (D4)
- 01 Passed
- 03 Failed

#### Treatment Grade 1 (T1)
- 11 Passed
- 08 Failed

#### Treatment Grade 2 (T2)
- 02 Passed
- 01 Failed

#### Treatment Grade 3 (T3)
- 05 Passed
- 02 Failed

#### Treatment Grade 4 (T4)
- 01 Passed
- 04 Failed
DISTRIBUTION OPERATOR CERTIFICATION
The Topics Identified Below Had a "Partial Mastering" Rate of More Than 20%

Grade I – Distribution

- Install Equipment
- Perform Maintenance
- Perform Security, Safety & Admin
- Operate Equipment
- System Information/Components

Grade II – Distribution

- Perform Security, Safety & Admin
- Monitor, Evaluate & Adjust Disinfection
- System Information / Components
- Install Equipment
- Perform Maintenance
- Operate Equipment
- Laboratory Analysis

Grade III – Distribution

- Install Equipment
- Perform Maintenance
- Perform Security, Safety & Admin
- System Information / Components

Grade IV – Distribution

- Install Equipment
- Perform Maintenance
- Laboratory Analysis
- Operate Equipment
- Monitor, Evaluate & Adjust Disinfection
Treatment Operator Certification
The Topics Identified Below Had a "Partial Mastering" Rate of More Than 20%

Grade I – Treatment
- Laboratory Analyses
- Perform Security, Safety, & Administration
- Monitor, Evaluate & Adjust Treatment
- Comply w/Drinking Water Regs
- Operate & Maintain Equipment
- Evaluate Characteristics of Source Water

Grade II – Treatment
- Laboratory Analyses
- Monitor, Evaluate & Adjust Treatment

Grade III – Treatment
- Evaluate Characteristics of Source Water
- Monitor, Evaluate & Adjust Treatment
- Laboratory Analyses
- Operate & Maintain Equipment

Grade IV – Treatment
- Operate & Maintain Equipment
- Monitor, Evaluate & Adjust Treatment
- Laboratory Analyses
- Perform Security, Safety, & Administration
- Comply w/Drinking Water Regs
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<th># PM</th>
<th># NM</th>
<th>% M</th>
<th>% PM</th>
<th>% NM</th>
<th>PTS</th>
<th>HIGH</th>
<th>LOW</th>
<th>AVG</th>
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TEST STATISTICS REPORT
ABC Water Distribution Class I Exam
ABC1264D

Test Name: ABC1264D
Test Date: 10/12/2012
Number of Examinees: 42
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 94.00 (94.00)
Lowest Score: 49.00 (49.00)
Median: 79.00 (79.00)
Mean: 77.26 (77.26)
Standard Deviation: 11.18
Test Reliability: 0.88
Standard Error of Measurement: 3.82
## MASTERY SUMMARY REPORT
for ABC Water Distribution Class II

**Test Name:** ABC1017D  
**Scoring Date:** 3/22/2019  
**Test version:** 0  
**# of Students:** 21

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<th>% Not Mastering</th>
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<th>Possible Points</th>
<th>HIGH</th>
<th>Lowest Points</th>
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TEST STATISTICS REPORT
ABC Water Distribution Class II Exam
ABC1017D

Test Name: ABC1017D
Test Date: 10/12/2012
Number of Examinees: 21
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 88.00 (88.00)
Lowest Score: 56.00 (56.00)
Median: 66.00 (66.00)
Mean: 69.90 (69.90)
Standard Deviation: 9.62
Test Reliability: 0.81
Standard Error of Measurement: 4.14
### MASTERY SUMMARY REPORT
for ABC Water Distribution Class III

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ABC Water Distribution Class III Exam
ABC1018D

Test Name: ABC1018D
Test Date: 10/12/2012
Number of Examinees: 6
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 86.00 (86.00)
Lowest Score: 55.00 (55.00)
Median: 81.00 (81.00)
Mean: 73.83 (73.83)
Standard Deviation: 14.01
Test Reliability: 0.92
Standard Error of Measurement: 4.01
MASTERY SUMMARY REPORT
for ABC Water Distribution Class IV

Test Name: ABC1019D  Test version: 0
Scoring Date: 3/22/2019  # of Students: 4

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## MASTERY SUMMARY REPORT
for ABC Water Treatment Class I

**Test Name:** ABC1266W  
**Scoring Date:** 3/22/2019  
**Test version:** 0  
**# of Students:** 19

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TEST STATISTICS REPORT
ABC Water Treatment Class I Exam
ABC1266W

Test Name: ABC1266W
Test Date: 10/12/2012
Number of Examinees: 19
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 88.00 (88.00)
Lowest Score: 52.00 (52.00)
Median: 70.00 (70.00)
Mean: 71.00 (71.00)
Standard Deviation: 11.18
Test Reliability: 0.87
Standard Error of Measurement: 4.08
# M Number Mastering | % M % Mastering | PTS Possible Points
# PM Number Partial Mastering | % PM % Partial Mastering | HIGH Highest Points
# NM Number Not Mastering | % NM % Not Mastering | LOW Lowest Points

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Test Date: 4/14/2011
Number of Examinees: 3
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 85.00 (85.00)
Lowest Score: 66.00 (66.00)
Median: 80.00 (80.00)
Mean: 77.00 (77.00)
Standard Deviation: 9.85
Test Reliability: 0.85
Standard Error of Measurement: 3.76
# M Number Mastering % M % Mastering
# PM Number Partial Mastering % PM % Partial Mastering
# NM Number Not Mastering % NM % Not Mastering

PTS Possible Points
HIGH Highest Points
LOW Lowest Points
AVG Average Points

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TEST STATISTICS REPORT
ABC Water Treatment Class III Exam
ABC1043W

Test Name: ABC1043W
Test Date: 10/12/2012
Number of Examinees: 7
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 84.00 (84.00)
Lowest Score: 61.00 (61.00)
Median: 71.00 (71.00)
Mean: 72.14 (72.14)
Standard Deviation: 7.17
Test Reliability: 0.71
Standard Error of Measurement: 3.89
### MASTERY SUMMARY REPORT
for ABC Water Treatment Class IV

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TEST STATISTICS REPORT
ABC Water Treatment Class IV Exam
ABC1044W

Raw Score

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Test Name: ABC1044W
Test Date: 10/12/2012
Number of Examinees: 5
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 82.00 (82.00)
Lowest Score: 47.00 (47.00)
Median: 64.00 (64.00)
Mean: 63.60 (63.60)
Standard Deviation: 13.01
Test Reliability: 0.89
Standard Error of Measurement: 4.22