**CE3105 Mech of Fluids Lab** Dept of Civil Engineering Texas Tech University

Experiment: Open Channel Hydraulics – Manning’s n Data Sheet EXP #8

Date of Experiment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Temperature of water, T= \_\_\_\_\_\_\_\_ ◦Celsius Water density, ρ = \_\_\_\_\_\_\_(lb/ft3) Gravity, g= 32.2 (ft/s2

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| **TRIAL – TEAMS** | **H1** | **H2** | **Manual Depth** | **Digital Depth** |
| **Team #1** |  |  |  |  |
| **Team #2** |  |  |  |  |
| **Team #3** |  |  |  |  |
| **Team #4** |  |  |  |  |
| **Team #5** |  |  |  |  |

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| **PART 2: Slope =** | | | |
| **TRIAL** | **H1** | **H2** | **Depth** |
| **#1** |  |  |  |
| **#2** |  |  |  |
| **#3** |  |  |  |

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| **PART 2: Slope =** | | | |
| **TRIAL** | **H1** | **H2** | **Depth** |
| **#1** |  |  |  |
| **#2** |  |  |  |
| **#3** |  |  |  |

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| **PART 2: Slope =** | | | |
| **TRIAL** | **H1** | **H2** | **Depth** |
| **#1** |  |  |  |
| **#2** |  |  |  |
| **#3** |  |  |  |

**Instructor’s Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Don Bundock**

**CE3105 Mech of Fluids Lab** Dept of Civil Engineering Texas Tech University

Experiment: Open Channel Hydraulics – Manning’s n Data Sheet

Teammate Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**CALCULATIONS PART 1:**

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| --- | --- | --- | --- |
| **TRIAL – TEAMS** | **Depth** | **H** | **Manual Depth** |
| **Team #1** |  |  |  |
| **Team #2** |  |  |  |
| **Team #3** |  |  |  |
| **Team #4** |  |  |  |
| **Team #5** |  |  |  |

**CALCULATIONS PART 2:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TRIAL** | **WP** | **R** | **Δ H** | ***Q*** | **n** |
| **#1** |  |  |  |  |  |
| **#2** |  |  |  |  |  |
| **#3** |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TRIAL** | **WP** | **R** | **Δ H** | ***Q*** | **n** |
| **#1** |  |  |  |  |  |
| **#2** |  |  |  |  |  |
| **#3** |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TRIAL** | **WP** | **R** | **Δ H** | ***Q*** | **n** |
| **#1** |  |  |  |  |  |
| **#2** |  |  |  |  |  |
| **#3** |  |  |  |  |  |