Oil Spill Response Challenge Point Breakdown

Team Name: Challenge Objectives and Scoring (100 points total): **TOTAL SCORE:** /100 *Drive ROV back and forth 20 feet out and back (5 points)* Task 2: Take a sample from a pool of oil in the ice **Task 2 Points:** /5 *Surface ROV inside a large floating ring and hold position for 5 seconds* (**5 points: 1 point/second**) Task 3 Points: /10 Task 3: Return sample and have it analyzed *Position ROV in front of a stationary underwater square and hold position for 5 sec.* (10 points: 2 pts/sec) Task 4: Deliver a piece of equipment inside an underwater work station **Task 4 Points:** /20 *Fly ROV back and forth through a large stationary underwater ring* (**5 points**) *Pick up an underwater small ring* (**5 points**) *Deposit the small ring on a piece of anchored PVC pipe* (**10 points**) Task 5 Points: /10 Task 5: Transport floating equipment Throw beach ball onto surface of pool and return it using ROV (10 points: 5 points for engaging ball, 5 points for returning to side of pool) Task 6: Respond to an open water surface oil patch in a polyana Task 6 Points: /25 *Throw popcorn onto surface of pool and gather it using ROV* (**25 points**) **Teamwork Teamwork Points:** / 25 All team members participate in design, build, and break down ROV (10 points: 2 pts/student) All team members drive ROV during challenge (5 points: 1 point/student) Team members give each other positive encouragement (**5 points: 1 point/student**) Team members observe and obey all safety rules (5 points: 1 point/student) Total Demerits:_____ **Demerits**

Participation:

Pool-side modification (-5 points)

Use of pool "seal" (-5 points)

Team pulls tether to move ROV (-5 points)

Each team member must drive the ROV for a minimum of 2 minutes or complete one task. Teams are expected to help breakdown their machines after the pool competition.

Team member bickers, argues, or acts with disrespect (-5 points)