7/21/2021

Mc Shane Jack

LYIT

Experiment Portfolio – Craignahorna 2

RIVERS Project

Contents

[1. Procedure 3](#_Toc76405791)

[2. Experiment Apparatus (Insert Pictures When Carried out) 4](#_Toc76405792)

[3. Time 1 – 11.00am 5](#_Toc76405793)

[3.1. Experiment 1 5](#_Toc76405794)

[3.1.1. Plastic Bottle 5](#_Toc76405795)

[3.1.2. Plastic Bottle 6](#_Toc76405796)

[3.1.3. Plastic Bottle 7](#_Toc76405797)

[3.1.4. Plastic Coloured Bottle 8](#_Toc76405798)

[3.1.5. Plastic Coloured Bottle 9](#_Toc76405799)

[3.1.6. Plastic Coloured Bottle 10](#_Toc76405800)

[3.1.7. Plastic Clear Bag 11](#_Toc76405801)

[3.1.8. Plastic Clear Bag 12](#_Toc76405802)

[3.1.9. Plastic Clear Bag 13](#_Toc76405803)

[3.1.10. Plastic Coloured Bag 14](#_Toc76405804)

[3.1.11. Plastic Coloured Bag 15](#_Toc76405805)

[3.1.12. Plastic Coloured Bag 16](#_Toc76405806)

[4. Time 2 – 4.30 pm 17](#_Toc76405807)

[4.1. Experiment 2 17](#_Toc76405808)

[4.1.1. Plastic Bottle 17](#_Toc76405809)

[4.1.2. Plastic Bottle 18](#_Toc76405810)

[4.1.3. Plastic Bottle 19](#_Toc76405811)

[4.1.4. Plastic Coloured Bottle 20](#_Toc76405812)

[4.1.5. Plastic Coloured Bottle 21](#_Toc76405813)

[4.1.6. Plastic Coloured Bottle 22](#_Toc76405814)

[4.1.7. Plastic Clear Bag 23](#_Toc76405815)

[4.1.8. Plastic Clear Bag 24](#_Toc76405816)

[4.1.9. Plastic Clear Bag 25](#_Toc76405817)

[4.1.10. Plastic Coloured Bag 26](#_Toc76405818)

[4.1.11. Plastic Coloured Bag 27](#_Toc76405819)

[4.1.12. Plastic Coloured Bag 28](#_Toc76405820)

[5. Time 3 – 9.00pm 29](#_Toc76405821)

[5.1. Experiment 3 29](#_Toc76405822)

[5.1.1. Plastic Bottle 29](#_Toc76405823)

[5.1.2. Plastic Bottle 30](#_Toc76405824)

[5.1.3. Plastic Bottle 31](#_Toc76405825)

[5.1.4. Plastic Coloured Bottle 32](#_Toc76405826)

[5.1.5. Plastic Coloured Bottle 33](#_Toc76405827)

[5.1.6. Plastic Coloured Bottle 34](#_Toc76405828)

[5.1.7. Plastic Clear Bag 35](#_Toc76405829)

[5.1.8. Plastic Clear Bag 36](#_Toc76405830)

[5.1.9. Plastic Clear Bag 37](#_Toc76405831)

[5.1.10. Plastic Coloured Bag 38](#_Toc76405832)

[5.1.11. Plastic Coloured Bag 39](#_Toc76405833)

[5.1.12. Plastic Coloured Bag 40](#_Toc76405834)

# Procedure

* Identify rivers and streams for testing.
* Create test waste objects.
  + Plastic Clear Bottle
  + Plastic Labelled Bottle
  + Clear Plastic Bag
  + Coloured Plastic Bag
  + Tin Can
* When on location, document test information.
* Mark camera area for testing.
* Start camera recording, taking a snapshot of each piece of waste.
* Release waste and collect once it has passed.
* Repeat three times at each location
* Estimated Times\*
  + 10.00 am
  + 3.00 pm
  + 7.30 pm

# Experiment Apparatus (Insert Pictures When Carried out)





# Time 1 – 11.00am

## Experiment 1

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 5685 |
| Date | 21/07/2021 |
| Vegetation | Stoney, Mossy |
| Season | Summer |
| Humidity | 73% |
| Time of Day | Noon |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1.5 Knot, 1.5 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 Metres |
| Temperature | 21 Degrees |

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6080 |
| Date | 21/07/2021 |
| Vegetation | Stoney, Mossy |
| Season | Summer |
| Humidity | 73% |
| Time of Day | Noon |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1.5 Knot, 1.5 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 Metres |
| Temperature | 21 Degrees |

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6380 |
| Date | 21/07/2021 |
| Vegetation | Stoney, Mossy |
| Season | Summer |
| Humidity | 71% |
| Time of Day | 11.55 |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1.5 Knot, 1.5 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 Metres |
| Temperature | 21 Degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6419 |
| Date | 21/07/2021 |
| Vegetation | Stoney, mossy |
| Season | Summer |
| Humidity | 71% |
| Time of Day | 12.00am |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1.5ft 1 knot |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 21 degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6850 |
| Date | 21/07/2021 |
| Vegetation | Stoney, mossy |
| Season | Summer |
| Humidity | 71% |
| Time of Day | 12.07 am |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1.5ft 1 knot |
| Waste Type | Rubbish |
| River Location and Name | Bog Stream |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR |
| Duration | 1 hour |
| River/Stream Width | 2 metres |
| Temperature | 21 degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6959 |
| Date | 21/07/2021 |
| Vegetation | Stoney, mossy |
| Season | Summer |
| Humidity | 71% |
| Time of Day | 12.09 am |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1.5ft 1 knot |
| Waste Type | Rubbish |
| River Location and Name | Bog Stream |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR |
| Duration | 1 hour |
| River/Stream Width | 2 metres |
| Temperature | 21 degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6506 |
| Date | 21/07/2021 |
| Vegetation | Mossy/stoney |
| Season | Summer |
| Humidity | 71% |
| Time of Day | 12.15pm |
| Wind Speed | 13 kmh |
| Water Speed and Depth | 2 knots/1.5 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 21 degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6705 |
| Date | 21/07/2021 |
| Vegetation | Mossy/stoney |
| Season | Summer |
| Humidity | 71% |
| Time of Day | 12.17 pm |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 2 knots/1.5 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 21 degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6767 |
| Date | 21/07/2021 |
| Vegetation | Mossy/stoney |
| Season | Summer |
| Humidity | 70% |
| Time of Day | 12.19 pm |
| Wind Speed | 14 km/h |
| Water Speed and Depth | 2 knots/1.5 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 21 degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6647 |
| Date | 21/07/2021 |
| Vegetation | Mossy, stoney |
| Season | Summer |
| Humidity | 70% |
| Time of Day | 12.25pm |
| Wind Speed | 14 km/h |
| Water Speed and Depth | 1.5 knt, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR, 30 degrees |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 21 degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6950.2 |
| Date | 21/07/2021 |
| Vegetation | Mossy, stoney |
| Season | Summer |
| Humidity | 69% |
| Time of Day | 12.27pm |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1.5 knt, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR, 30 degrees |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 6847 |
| Date | 21/07/2021 |
| Vegetation | Mossy, stoney |
| Season | Summer |
| Humidity | 69% |
| Time of Day | 12.33pm |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1.5 knt, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 120 Degrees SE |
| Capture Mode | DSLR, 30 degrees |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

# Time 2 – 4.30 pm

## Experiment 2

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 5059 |
| Date | 31/07/2021 |
| Vegetation | Stoney, mossy |
| Season | Summer |
| Humidity | 67% |
| Time of Day | 5pm |
| Wind Speed | 18 km/h |
| Water Speed and Depth | 1.5 knots, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees West |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 4920 |
| Date | 21/07/2021 |
| Vegetation | Stoney, mossy |
| Season | Summer |
| Humidity | 67% |
| Time of Day | 5.06pm |
| Wind Speed | 18km/h |
| Water Speed and Depth | 1.5 knts, 1 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees West |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 5090 |
| Date | 21/07/2021 |
| Vegetation | Stoney and Mossy |
| Season | Summer |
| Humidity | 67% |
| Time of Day | 5.11pm |
| Wind Speed | 18 km/h |
| Water Speed and Depth | 1ft, 1.5 knots |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal |  |
| Angle of Sun | 250 degrees W |
| Capture Mode | DSLR/ 30 degree tilt |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 4806.1 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 67% |
| Time of Day | 5.13pm |
| Wind Speed | 18 km/h |
| Water Speed and Depth | 1.5 knts, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees w |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright FC = 4731.4 |
| Date | 21/07/2021 |
| Vegetation | Stoney and Mossy |
| Season | Summer |
| Humidity | 66% |
| Time of Day | 5.17pm |
| Wind Speed | 18km/h |
| Water Speed and Depth | 1.5knts, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees west |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 4583 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 66% |
| Time of Day | 5.22pm |
| Wind Speed | 18km/h |
| Water Speed and Depth | 1.5 knts, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees w |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 4710 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 66% |
| Time of Day | 5.26pm |
| Wind Speed | 16 km/h |
| Water Speed and Depth | 1.5knts, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees w |
| Capture Mode | DSLR/ 30 degree tilt |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 4558 |
| Date | 21/07/2021 |
| Vegetation | Stoney and Mossy |
| Season | Summer |
| Humidity | 66% |
| Time of Day | 5.29pm |
| Wind Speed | 16 km/h |
| Water Speed and Depth | 1.5knts, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees west |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 4572.1 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 66% |
| Time of Day | 5.32pm |
| Wind Speed | 16 km/h |
| Water Speed and Depth | 1.5 knts, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees west |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 4753 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 66% |
| Time of Day | 5.34pm |
| Wind Speed | 16km/h |
| Water Speed and Depth | 1.5knts, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees west |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC = 4578 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 66% |
| Time of Day | 5.37pm |
| Wind Speed | 16 km/h |
| Water Speed and Depth | 1.5knts, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees west |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Bright, FC/Fc = 4592 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 66% |
| Time of Day | 5.40pm |
| Wind Speed | 16km/h |
| Water Speed and Depth | 1.5 knts, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 250 degrees west |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 22 degrees |

# Time 3 – 9.30pm

## Experiment 3

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC = 34.9 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 9.50pm |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1knt, 1 foot deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 Metres |
| Temperature | 17 degrees |

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC = 33.5 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 9.52pm |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1knt, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC = 31 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 9.52pm |
| Wind Speed | 13km/h |
| Water Speed and Depth | 1 knt, 1ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Overcast, cloudy |
| Light Conditions | Dull, FC = 28.1 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 9.54 pm |
| Wind Speed | 8 km/h |
| Water Speed and Depth | 1knt, 1ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC = 27.6 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 9.55pm |
| Wind Speed | 13km/h |
| Water Speed and Depth | 1knt, 1ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC = 26.2 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 9.56 pm |
| Wind Speed | 13km/h |
| Water Speed and Depth | 1knt, 1ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC= 23.4 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 9.58pm |
| Wind Speed | 13km/h |
| Water Speed and Depth | 1knt, 1ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC = 22.7 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 9.59 pm |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1knt, 1ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC = 22.1 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 10.00pm |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1knt, 1 ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC = 19.6 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 10.01 pm |
| Wind Speed | 13km/h |
| Water Speed and Depth | 1knt, 1ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC = 18.2 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 10.02pm |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1knt, 1ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Clear Blue Sky |
| Light Conditions | Dull, FC = 16.9 |
| Date | 21/07/2021 |
| Vegetation | Stoney and mossy |
| Season | Summer |
| Humidity | 77% |
| Time of Day | 10.05pm |
| Wind Speed | 13 km/h |
| Water Speed and Depth | 1knt, 1ft |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Clear |
| Tidal | Bog Stream |
| Angle of Sun | 315 degrees nw |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 2 metres |
| Temperature | 17 degrees |