

Runoff Footprint

#FLOODED

Grades 3 - 12

Learner Worksheet



Part A: Surface Areas Table

Surface	Area (L x W = m ²)	Non-Permeable (NP)	Semi-Permeable (SP)	Permeable (P)
Parking Lot				
Running Track				
Playing Field				
Road 1				
Road 2				
Road 3				
Play Area 1				
Play Area 2				
Playground Rubber Mats				
Wood Chip Area				

Surface	Area (L x W = m ²)	Non-Permeable (NP)	Semi-Permeable (SP)	Permeable (P)
Artificial Turf				
Roof 1				
Roof 2				
Garden				
Sidewalk 1				
Sidewalk 2				
Paved Area 1				
Paved Area 2				
Sports Courts				
Semi-Permeable Pavement				
Paths				
Grass				
Naturalized Area				
Wetlands				
Ravines				

Surface	Area (L x W = m ²)	Non-Permeable (NP)	Semi-Permeable (SP)	Permeable (P)
Ditches				
Swales and French Drains				
Other				
TOTALS				

Part B: Permeability Percentage Table

Non-Permeable Total Area (in m ²) (Total of NP surfaces in Part A)	
Semi-Permeable (SP) total area (in m ²) (Total of SP surfaces in Part A)	
Permeable (P) total area (in m ²) (Total of P surfaces in Part A)	
Total Area of Study Area (SA) = NP + SP + P	
Percentage Non-Permeable (NP total area/SA total area) x 100 equals %	
Percentage Semi-permeable (SP total area/ SA total area) x 100 equals %	
Percentage Permeable (P total area/SA total area) x 100 equals %	

Part C: Rainfall Chart

Rainfall Event	Amount of Rain (mm)
Sample Storm 1	
Sample Storm 2	
Sample Storm 3	
1 year storm	
100-year storm	
Real Time Storm	

Part D: Runoff Footprint Chart

Rainfall Event	Amount of Rain (mm) from Part C R	Total Non-Permeable Surface Area (m ²) from Part B TNP	Total Semi-Permeable Surface Area (m ²) from Part B TSP	Runoff Footprint (volume of runoff water in litres) This equals (R*TNP) + ((R*TSP)/2))
Example	50 mm	100 m ²	200 m ²	10,000 litres
Sample Storm 1				
Sample Storm 2				
Sample Storm 3				
1 year storm				
100-year storm				
Real Time Storm				