

Table 1: Staffing Breakdown

Task	SENG (hr)	ENG (hr)	EIT (hr)	TECH (hr)	Total Hours
Task 1.0 Site investigation	1.15	10.15	0	10.15	21.45
1.1 Site visit	15 minutes	15 minutes	0	15 minutes	45 minutes
1.2 Land survey (GIS)	0	0	0	0	0
1.3 Topographic Map	1	10	0	10	21
Task 2.0 Hydrologic analysis	5	7	0	24	36
2.1 Watershed delineation	1	1	0	2	4
2.1.1 Time of concentration delineation	1	1	0	1	3
2.1.2 Time of concentration calculation	1	2	0	6	9
2.2 HEC-HMS Modelling	2	3	0	15	20
Task 3.0 Hydraulic analysis	23	21	0	36	80
3.1 Existing and proposed design	6	4	0	10	20
3.1.1 CulvertMaster programming	2	2	0	6	10
3.1.2 FlowMaster modelling	3	5	0	7	15
3.2 Alternatives Storm Drain	6	5	0	8	19
3.3 Final Design	6	5	0	5	16
3.4 Proposed Outlet protection	0	0	0	0	0
Task 4.0 Impacts	5	7	0	11	23
4.1 Social	2	3	0	3	8
4.2 Environmental	1	2	0	5	8
4.3 Economic	2	2	0	3	7
Task 5.0: Plan Set	5	7.5	0	22	34.5

5.1 Cover sheet	1	1.5	0	3	5.5
5.1 Survey sheet	1	0	0	2	3
5.1.1 Topographic map	1	3	0	7	11
5.2 Notes/ Details	0	0	0	0	0
5.3 Demolition sheet	0	0	0	0	0
5.4 Plan sheet	1	1	0	3	5
5.5 Plan Profile of design	1	2	0	7	10
Task 6.0: Deliverables	253	266	0	276	795
6.1 30% Submission	6	7	0	7	20
6.2 60% Submission	7	10	0	10	27
6.3 90% Submission	5	9	0	11	25
6.4 Final Submission	9	11	0	15	35
6.5 Website	1	5	0	3	9
6.6 Memo Binder	10	9	0	15	34
6.7 Team Meeting	140	140	0	140	420
6.8 Technical Advisor	30	30	0	30	90
6.9 Grading Instructor	35	35	0	35	105
7.0 Client	10	10	0	10	30
Total	287.15	319.5	0	379.15	986.2