

TABLE OF CONTENTS

CHAPTER 1: INTRODUCTION	1
1.1 HIGHWAY CONSTRUCTION AND STORMWATER QUALITY.....	1
1.2 PURPOSE OF MANUAL.....	1
1.3 ORGANIZATION OF THE MANUAL	2
1.4 HOW TO USE THIS MANUAL.....	2
1.5 WATER QUALITY REGULATIONS AND PERMITS.....	2
United States Clean Water Act	4
Section 401.....	4
Section 402.....	4
Section 404.....	5
Other AZPDES Permits	5
Aquifer Protection Program Permit.....	6
Additional Federal Land Requirements	6
Local Government Requirements.....	6
CHAPTER 2: PROJECT PLANNING AND DESIGN GUIDE	9
2.1 INTRODUCTION.....	9
2.2 PROJECT PLANNING AND DESIGN	9
Low Impact Development.....	9
2.3 BEST MANAGEMENT PRACTICES	10
2.4 EROSION AND SEDIMENT CONTROL AND GOOD HOUSEKEEPING PRINCIPLES	10
Erosion Control Principles (1st Line of Defense).....	12
Sediment Control Principles (2nd Line of Defense).....	12
Good Housekeeping Principles	12
2.5 APPLYING THE PRINCIPLES.....	12
Erosion Control Principles	13
Erosion Control Principle #1:	13
Erosion Control Principle #2:	14
Erosion Control Principle #3:	14
Erosion Control Principle #4:	16
Erosion Control Principle #5:	16
Sediment Control Principles	17
Sediment Control Principle #6:	17
Sediment Control Principle #7:	18
Sediment Control Principle #8:	19
Sediment Control Principle #9:	19
Sediment Control Principle #10:	20
Good Housekeeping Principles	20
Good Housekeeping Principle #1:	20
Good Housekeeping Principle #2:	20
Good Housekeeping Principle #3:	21

TABLE OF CONTENTS

Good Housekeeping Principle #4:	21
Good Housekeeping Principle #5:	21
Good Housekeeping Principle #6:	22
2.6 CONSTRUCTION BMP SELECTION GUIDE	22
CHAPTER 3: INSTRUCTIONS FOR OBTAINING STORMWATER DISCHARGE PERMIT AUTHORIZATION FOR ADOT CONSTRUCTION PROJECTS	23
3.1 INTRODUCTION	23
3.2 STEP 1: PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	23
3.2.1 Project Document BMPs.....	25
3.3 STEP 2: CERTIFY THE SWPPP	25
3.4 STEP 3: SUBMIT NOTICE OF INTENT (NOI)	26
3.5 STEP 4: RETAIN DOCUMENTS AT THE JOB SITE	27
3.6 STEP 5: IMPLEMENT THE SWPPP	29
3.7 STEP 6: INSPECT BMPS REGULARLY	29
3.8 STEP 7: ADJUST THE SWPPP TO FIT SITE CONDITIONS.....	31
3.9 STEP 8: MAINTAIN AN UPDATED SWPPP.....	32
3.10 STEP 9: MAINTAIN THE BMPS	32
3.11 STEP 10: EVALUATE JOB SITE TO DETERMINE FINAL STABILIZATION	32
3.12 STEP 11: SUBMIT NOTICE OF TERMINATION (NOT).....	33
3.13 STEP 12: RETENTION OF RECORDS	34
3.14 SPECIAL CONDITIONS, REQUIREMENTS AND EXCEPTIONS	34
3.14.1 Permit Requirements for Indian Country	34
3.14.2 Post-Construction Discharges	36
3.14.3 Discharges Mixed with Non-Stormwater.....	36
3.14.4 Discharges Covered by Another AZPDES Permit	36
3.14.5 Permit Requirements for projects located within ¼ mile of Impaired or Outstanding Waters	36
3.14.6 Permit Requirements for Batch Plants, Borrow Pits and Material Pits	37
3.14.7 Waivers for Small Construction Activities	37
CHAPTER 4: STORMWATER POLLUTION PREVENTION PLANS	39
4.1 INTRODUCTION	39
4.2 ADOT CONSTRUCTION SWPPP TEMPLATE TABLE OF CONTENTS	39
4.3 PERMIT RELATED DOCUMENTS.....	41

TABLE OF CONTENTS

CHAPTER 5: BEST MANAGEMENT PRACTICES	43
5.1 INTRODUCTION	43
5.2 IMPLEMENTING CONSTRUCTION SITE BMPs	43
5.3 CONSTRUCTION BEST MANAGEMENT PRACTICES	45
BMP Categories and Sheets	45
References and Resources	45
Construction Site Planning & Management (CP) BMPs	47
Erosion Control (EC) BMPs	53
Runoff Control (RC) BMPs	75
Sediment Control (SC) BMPs	89
Good Housekeeping (GH) BMPs	119
Non-Stormwater (NS) BMPs	143
Waste Management (WM) BMPs	165
APPENDIX A: ABBREVIATIONS AND ACRONYMS.....	183
APPENDIX B: DEFINITIONS OF TERMS	185
APPENDIX C: REFERENCE FORMS AND CHECKLISTS	191
AZPDES SWPPP Index Sheet	191
NPDES SWPPP Index Sheet	193
ADOT Encroachment Permits AZPDES SWPPP Index Sheet	195
Notice of Intent (NOI).....	197
Grading and Stabilization Record.....	201
ADOT Methodology for Determining Final Stabilization	203
Notice of Termination (NOT).....	207
Environmental Memorandum	209
APPENDIX D: 2-YEAR, 24-HOUR PRECIPITATION ISOPLUVIALS	211
APPENDIX E: REFERENCES AND RESOURCES	213
APPENDIX F: ADDITIONAL PHOTOS.....	215
APPENDIX G: DOCUMENT REVISION HISTORY	217
FIGURES	
Figure 1.1: Water Quality Regulations and Permits	3
Figure 3.1: Average Annual Precipitation	30
TABLES	
Table 2.1: Construction BMPs	11
Table 3.1: Steps for Obtaining Construction General Permit Authorization	24
Table 3.2: Documents to be Retained on the Job Site with the SWPPP.....	28

TABLE OF CONTENTS

Table 3.3: Special Conditions, Requirements and Exceptions for Obtaining Construction General Permit Authorization	35
Table 5.1: Construction BMPs	44