

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	OK
2.	FIELD OFFICE	Marietta, Ardmore, Sulphur, Pauls Valley, Ada, Tishomingo, Madill, Coalgate, Atoka, Durant, Hugo, Idabel
3.	MLRA	85A - Grand Prairie
4.	COMMON RESOURCE AREA (CRA)	085A.40.001
5.	RESOURCE INTERPRETATIONS	
5.1	SOIL	
5.2	WATER	
5.3	AIR	
5.4	PLANT	
5.5	ANIMAL	
5.6	HUMAN	
6.	HYDROLOGIC UNIT	
7.	SYSTEM TEMPLATE LABEL	KALA0
8.	SYSTEM NAME	Grand Prairie Urban (Dense)
9.	PLANNING PHASE	Benchmark
10.	PLANNING LEVEL	N/A
11.	NRCS LANDUSE	Urban
12.	EXISTING CONSERVATION PRACTICES	
		1. 561 - Heavy Use Area Protection
13.	SYSTEM NARRATIVE	
		The system typically involves densely populated developments (2.5 acres/home or less), on nearly level to gently sloping soils with a few steep slopes. Soil texture varies considerably, as does depth and exposure. Developed areas are protected with bermudagrass with occasional cool-season species such as fescue, ryegrass or bluegrass in mixed stands or shaded areas. Application of nutrients and pesticides is generally performed without regard for production needs or pest infestation levels, and label directions are not always adhered to. Soil erosion is a major concern on construction sites in developing areas, causing safety hazards, decreasing flow capacity of drainage systems, affecting storage capacity and water quality in local water bodies, and transporting nutrients and pesticides downstream. As the flow capacity and storage capacity of the drainage systems and water bodies become restricted with sediment, flooding and additional streambank erosion become a concern. Air quality is a concern in and around construction sites as there is seldom any vegetative cover associated with these areas. As air quality degrades, health concerns of the population in and around the construction areas becomes a concern.
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS
	1. Soil Erosion - Streambank	1. 100 Tons/Year; Inadequate vegetative cover and poor management techniques used in riparian areas.
	2. Soil Erosion - Construction Sites	2. 50 Tons/Acre/Year; No vegetative cover.
	3. Soil Deposition - Damage Offsite	3. Sediment deposition covers vegetation, creates safety hazards in roads and streets, reduces the flow capacity of drainage systems, reduces storage capacity of water bodies, and degrades water quality downstream.
	4. Soil Deposition - Safety Offsite	4. Sediment deposition in roads and streets creates safety hazards, reduces flow capacity in drainage systems and storage capacity in water bodies, increases flooding hazards.
	5. Water Quantity - Excess Amounts Runoff/Flooding	5. Runoff and flooding problems increase as the percentage of the area covered with concrete and asphalt increases.
	6. Water Quantity - Inadequate Outlets	6. Problem increases as the density of the development increases or as the drainage systems become restricted with sediment.
	7. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Offsite)	7. Increased sediment deposition originating from construction sites restricts the natural flow in drainage channels.
	8. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Water Bodies)	8. Increased sediment deposition originating from construction sites restricts the flow and storage capabilities of downstream water bodies.

14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS
	<p>9. Water Quality - Surface Water Contaminates - Pesticides</p> <p>10. Water Quality - Surface Water Contaminates - Nutrients and Organics</p> <p>11. Water Quality - Surface Water Contaminates - Suspended Sediment and Turbidity</p> <p>12. Air Quality - Health</p> <p>13. Plants Management - Nutrient Management</p> <p>14. Plants Management - Pest (Brush, Weeds, Insects, Etc.)</p>	<p>9. Uneducated and inappropriate use of pesticides in densely populated areas degrades downstream water quality.</p> <p>10. Uneducated and inappropriate use of nutrients in densely populated areas degrades downstream water quality.</p> <p>11. As sediment loads from construction sites increases, water quality degrades due to suspended sediments and turbidity.</p> <p>12. In and around areas of new construction, health concerns increase due to dust particles in the air.</p> <p>13. Commercial nutrients are applied without regard for plant uptake. Uneducated and inappropriate amounts are applied for what is thought to be increased beautification.</p> <p>14. Pesticides are applied without regard to pest populations with uneducated and inappropriate application techniques.</p>

MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	OK
2.	FIELD OFFICE	Marietta, Ardmore, Sulphur, Pauls Valley, Ada, Tishomingo, Madill, Coalgate, Atoka, Durant, Hugo, Idabel
3.	MLRA	85A - Grand Prairie
4.	COMMON RESOURCE AREA (CRA)	085A.40.001
5.	RESOURCE INTERPRETATIONS	<i>for each resource enter available interp data</i>
5.1	SOIL	
5.2	WATER	
5.3	AIR	
5.4	PLANT	
5.5	ANIMAL	
5.6	HUMAN	
6.	HYDROLOGIC UNIT	
7.	SYSTEM TEMPLATE LABEL	KALA1
8.	SYSTEM NAME	Grand Prairie Urban (Dense)
9.	PLANNING PHASE	Benchmark, Alternative, Planned
10.	PLANNING LEVEL	Resource Management System
11.	NRCS LANDUSE	Urban
12.	PLANNED CONSERVATION PRACTICES	<i>list practices in the system</i>
		<ol style="list-style-type: none"> 1. 197 - Riparian Forest Buffer 2. 342 - Critical Area Planting 3. 350 - Sediment Basin 4. 410 - Grade Stabilization Structure 5. 460 - Land Clearing 6. 466 - Land Smoothing 7. 468 - Lined Waterway or Outlet 8. 484 - Mulching 9. 558 - Roof Runoff Management 10. 561 - Heavy Use Area Protection 11. 570 - Runoff Management System 12. 580 - Streambank and Shoreline Protection 13. 584 - Stream Channel Stabilization 14. 590 - Nutrient Management 15. 595 - Pest Management 16. 612 - Tree/Shrub Establishment 17. 638 - Water and Sediment Control Basin 18. 660 - Tree/Shrub Pruning
13.	SYSTEM NARRATIVE	<i>describe how the practices work together as a system</i>
		<p>The system involves highly managed bermudagrass and occasional cool-season grasses such as fescue, ryegrass or bluegrass, in densely populated developments (2.5 acres/home or less). Soil texture varies considerably, as does depth and exposure. Nutrient management activities are consistent with the needs of the vegetation. Pest management activities are consistent with recommended label directions. Critical area planting, mulching, tree/shrub establishment, sediment basin, grade stabilization structure, water and sediment control basin, and lined waterway or outlet are used to control soil erosion and reduce sediment loads in runoff water leaving construction areas. Roof runoff management, runoff management system, water and sediment control basin, stream channel stabilization, streambank and shoreline protection, riparian forest buffer, and critical area planting are used to control or manage the runoff water in a safe manner. Air quality is improved and health concerns of the population in and around construction areas is reduced with the appropriate vegetative cover practices.</p>

14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	<ol style="list-style-type: none"> 1. Soil Erosion - Streambank 2. Soil Erosion - Construction Sites 3. Soil Deposition - Damage Offsite 4. Soil Deposition - Safety Offsite 5. Water Quantity - Excess Amounts Runoff/Flooding 6. Water Quantity - Inadequate Outlets 7. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Offsite) 8. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Water Bodies) 9. Water Quality - Surface Water Contaminates - Pesticides 10. Water Quality - Surface Water Contaminates - Nutrients and Organics 11. Water Quality - Surface Water Contaminates - Suspended Sediment and Turbidity 12. Air Quality - Health 13. Plants Management - Nutrient Management 14. Plants Management - Pest (Brush, Weeds, Insects, Etc.) 	<ol style="list-style-type: none"> 1. 5 Tons/Year 2. 5 Tons/Acre/Year 3. Sediment deposition is reduced due to improved vegetative cover and reduced erosion rates. 4. Sediment deposition is reduced due to improved vegetative cover and reduced erosion rates. 5. Roof runoff management and runoff management system applied. 6. Sediment controlled from construction sites and a runoff management system applied. 7. Decreased sediment loads from construction sites. 8. Decreased sediment loads from construction sites. 9. Appropriate use of pesticides. 10. Appropriate use of nutrients. 11. Reduced sediment yields with the reduction in erosion rates. 12. Improvement in vegetative cover. 13. Appropriate and timely use of nutrients. 14. Appropriate and timely use of pesticides. 	<ol style="list-style-type: none"> 1. 95 Tons/Year; Improved management techniques and vegetative cover with a reduction in soil loss and an improvement in water quality. 2. 45 Tons/Acre/Year; Improvement in vegetative cover during construction with the aid of other structural practices; reduction in erosion rates, improved water quality due to less sediment. 3. Reduction in sedimentation reduces offsite damage to drainage systems and water bodies; improvement in downstream water quality. 4. Reduction in sedimentation reduces offsite safety hazards and decreases the potential for flooding. 5. Reduced flooding problems with management of the runoff. 6. Reduced outlet problems with the proper application of a runoff management system. 7. Flow capacity of drainage channels is maintained or improved. 8. Storage capacity of downstream water bodies is maintained or improved. 9. Improved downstream water quality. 10. Improved downstream water quality. 11. Improvement in water quality with less suspended sediment and turbidity. 12. Reduced amounts of dust particles in the air improves air quality. 13. Plant nutrient needs are met due to improved nutrient management practices. 14. Improved pest management activities.

15.	QUALITY CRITERIA DOCUMENTATION <i>list resource concerns then indicate yes/no</i>																													
	<ol style="list-style-type: none"> 1. Soil Erosion - Streambank 2. Soil Erosion - Construction Sites 3. Soil Deposition - Damage Offsite 4. Soil Deposition - Safety Offsite 5. Water Quantity - Excess Amounts Runoff/Flooding 6. Water Quantity - Inadequate Outlets 7. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Offsite) 8. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Water Bodies) 9. Water Quality - Surface Water Contaminates - Pesticides 10. Water Quality - Surface Water Contaminates - Nutrients and Organics 11. Water Quality - Surface Water Contaminates - Suspended Sediment and Turbidity 12. Air Quality - Health 13. Plants Management - Nutrient Management 14. Plants Management - Pest (Brush, Weeds, Insects, Etc.) 	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> </table>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																													

**Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List**

State Oklahoma Field Office MLRA 085A.40.001
Soil Interpretations Template Label KALA

Resource Concerns	Soil Erosion Streambank	Soil Erosion Construction Sites	Soil Deposition Damage Offsite	Soil Deposition Safety Offsite	Water Quantity Excess Amounts Runoff/Flooding	Water Quantity Inadequate Outlets	Water Quantity Restricted Flow Capacity from Sediment Deposition (Offsite)	Water Quantity Restricted Flow Capacity from Sediment Deposition (Water Bodies)	Water Quality Surface Water Contaminates Pesticides	Water Quality Surface Water Contaminates Nutrients and Organics	Water Quality Surface Water Contaminates Suspended Sediment and Turbidity	Air Quality Health	Plants Mgmt. Nutrient Management	Plants Mgmt. Pest (Brush, Woods, Insects, Etc.)
197	+	+	+	+	+	+	+	+	+	+	+	+	0	0
342	+	+	+	+	+	0	+	+	+	+	+	+	N/A	+
350	+	N/A	+	+	+	+	+	+	N/A	N/A	+	+	N/A	0
410	+	N/A	+	+	+	+	+	+	N/A	N/A	+	+	N/A	0
460	-	0	+	+	+	0	+	+	0	0	0	N/A	N/A	+
466	-	0	+	+	+	0	+	+	0	0	0	N/A	N/A	+
468	+	N/A	+	+	+	+	+	+	N/A	N/A	+	+	N/A	0
484	0	+	+	+	+	+	+	+	+	+	+	+	+	+
558	0	+	+	+	+	+	+	+	0	0	+	N/A	N/A	N/A
561	+	+	+	+	+	0	+	+	0	0	+	N/A	N/A	N/A
570	0	+	+	+	+	+	+	+	0	0	+	N/A	N/A	N/A
580	+	N/A	+	+	+	-	+	+	0	N/A	+	N/A	N/A	+
584	+	N/A	+	+	+	-	+	+	0	N/A	+	N/A	N/A	+
590	0	0	+	+	+	0	0	0	+	0	0	+	N/A	+
595	N/A	N/A	0	0	N/A	N/A	0	0	0	0	0	+	N/A	0
612	+	+	+	+	+	+	+	+	+	+	+	+	0	0
638	+	N/A	+	+	+	+	+	+	N/A	N/A	+	+	N/A	0
660	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

+ = Positive Effect - = Negative Effect 0 = Negligible Effect N/A = Not Applicable