

Appendix B: Orange County Capability Assessment

Policies, Practices, Programs, Regulations and Activities (Existing and Potential)	Document Reference (Page number or other source)	Effectiveness for Mitigation (High/Med/Low/Not Effective) & Notes	Rationale for Effectiveness
Orange County Subdivision Regulations			
☐ Section IV-B-2.Land Suitability	Page 25	High	Protection of floodplains, wetlands, & steep slopes
☐ Section IV-B-3 Streets	Page27	Medium	Street interconnectivity & adequacy of design
☐ Section IV-B-5 Lot Layout	Page 33	Medium	Control lot layout related to streets & hazard/sensitive areas
☐ Section IV-B-8. Landscape & Buffer Requirements	Page 46	Medium	Protection from pollution & airborne hazards
☐ Section IV-B-9. Cluster Developments	Page 60-b	High	Encourages preservation & protection of hazard sensitive areas
☐ Section IV-B-11. Wetlands	Page 65-t	High	Permitting for land disturbance in/near water bodies & wetlands
☐ Appendix A. Private Road Standards	Page A-1	Low	Construction standards for private roads. Interconnectivity not required for private roads
Orange County Zoning Ordinance			
Article 4. Establishment of Permitted Use Table and Schedule			
☐ Section 4.2.27. Watershed Protection Overlay Districts	Page 4-10	High	Development standards to reduce pollution that enters drinking water supplies
☐ Sections 4.2.34 through 4.2.40. Special Flood Hazard Area Overlay District	Section 4.2.34 through 4.2.40	High Notes: Adopted April 2009; Establishes special flood hazard Overlay District on Official Zoning Atlas; incorporates previously adopted FDPO within Zoning Ordinance	Limits activities within SFHAs, thereby reducing loss and hazards
Article 6. Application of Dimensional Requirements	Page 6-1		
☐ Section 6.14.1 Electrical Disturbance or Interference	Page 6-15	High	Prohibits electrical disturbances that may interfere with emergency comm. equipment
☐ Section 6.14.9. Air Pollution	Page 6-18-a	Low	Air pollution standards for land uses.

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<input type="checkbox"/> Section 6.14.10 Disposal of Liquid Wastes	Page 6-18-a	High	Establishes Standards for disposal of liquids wastes
<input type="checkbox"/> Section 6.19 Federal Wetlands Permits	Page 6-25-b	High	Permit required if land disturbance in or near water.
<input type="checkbox"/> Section 6.23 Extra requirements for watershed protection overlay districts.	Page 6-26	High	Exceeds State requirements for water supply watershed
<input type="checkbox"/> Section 6.23.1 Land Use Restrictions	Page 6-26	High	Prevention of water supply contamination.
<input type="checkbox"/> Section 6.23.2 Residential Density	Page 6-27	High	Controls density in protected watersheds
<input type="checkbox"/> Section 6.23.3 Storm water Infiltration and Detention	Page 6-28	High	Prevention of water supply contamination.
<input type="checkbox"/> Section 6.23.4 Operation and Maintenance of Structure BMPs (Detention Ponds)	Page 6-28	High	Prevention of water supply contamination.
<input type="checkbox"/> Section 6.23.5 Placements of streets, Driveways and buildings	Page 6-39	Medium	Protection of stream buffers
<input type="checkbox"/> Section 6.23.7 Stream Buffers	Page 6-40	High	Protection of floodplains along USGS classified water bodies.
<input type="checkbox"/> Section 6.23.9 Clustering	Page 6-44	High	Protection of sensitive/flood plain areas.
<input type="checkbox"/> Section 6.32.1 through 6.32.9. Special Flood Hazard Areas	Sections 6.32.1 through 6.32.9	High Note: Adopted April 2009	Establishes specific development limits and criteria within special flood hazard areas
Article 8. Planned Development Districts	Page 7-1	High	Allows for flexibility in design to aid in protection of sensitive areas.
Article 10. Off-Street Parking and Loading	Page 10-1		
<input type="checkbox"/> Section 10.2. Prohibited within Special Flood Hazard Areas	Section 10-1	High	Prohibits off-street parking and loading facilities within special flood hazard areas
Article 11. Non-Conformities			
<input type="checkbox"/> Section 11.9 Non-Conforming Uses of Major Structures, or Structures and Premises in Combination	Page 11-5	High	Prohibits enlargement, replacement of remodeling of portion of structures below regulatory flood protection elevation in the floodway, non-encroachment area, or stream setback
Article 23. Enforcement			
<input type="checkbox"/> Section 23.5. Corrective Procedures – Special Flood Hazard Area Overlay District	Section 23.5	High	Establishes enforcement and corrective procedures for violations of Special Flood Hazard Area

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Standards			Overlay District
Economic Development District Design Manual			
<input type="checkbox"/> Section 2.2 Permitted Uses	Page 2.1.1	Low	Protection of adjoining properties from incompatible uses.
<input type="checkbox"/> Section 2.3. Impervious Surface Ratio (ISR)	Page 2.3.3	High	Water supply protection. Storm water runoff control.
<input type="checkbox"/> Section 2.3. Building Volume Ratio (BVR)	Page 2.3.5	Low	Regulation of height/bulk of buildings.
<input type="checkbox"/> Section 2.3 Landscape Volume Ratio (LVR)	Page 2.3.7	Low	Pollution reduction protection; erosion control
<input type="checkbox"/> Section 2.3. Site Volume Ratio (SVR)	Page 2.3.10	Low	Limits bulk of structures on zoning lots.
<input type="checkbox"/> Section 2.4. Noise	Page 2.4.2	Low	Reduction in noise pollution.
<input type="checkbox"/> Section 2.4. Vibration	Page 2.4.5	Low	Standards based on dated tech.
<input type="checkbox"/> Section 2.4. Air Pollution	Page 2.4.6	High	Reduction in air pollution.
<input type="checkbox"/> Section 2.4. Electromagnetic Interference	Page 2.4.9	High	Prohibits electromagnetic interference, which can impact emergency communications equipment.
<input type="checkbox"/> Section 2.4. Hazardous Materials	Page 2.4.9	High	Allows for comprehensive management of risk from hazardous materials
<input type="checkbox"/> Section 2.4. Solid Waste	Page 2.4.12	Low	Solid waste management
<input type="checkbox"/> Section 2.4. Grading & Erosion Control	Page 2.4.17	High	Supports floodplain/water supply protection and erosion control
<input type="checkbox"/> Section 2.4. Storm water Management	Page 2.4.18	High	Supports floodplain/water supply protection and erosion control.
<input type="checkbox"/> Section 3.3. Parking Lot Design	Page 3.3.1	High	Provides adequate drive lanes and emergency vehicle access.
<input type="checkbox"/> Section 3.3. Thoroughfare Planning	Page 3.3.8	Medium	Supports coordinated street parking systems.
<input type="checkbox"/> Section 3.3. Transit Access	Page 3.3.14	Medium	Planning in process for transit
<input type="checkbox"/> Section 3.5 Signs	Page 3.5.2	Low	Limits size, height & placement of signs
Soil Erosion and Sedimentation Control Ordinance			
<input type="checkbox"/> Section 2.2 Objective of Regulations Applicable to University Lake, Cane Creek, and Upper Eno Watersheds	Page 2	Medium	Articulates the intent of the regulations with regard to University Lake, Cane Creek, and the Upper Eno watersheds
<input type="checkbox"/> Section 4 Jurisdiction and Effect	Page 9	Medium	Clearly states the applicability of the regulations contained within the ordinance
<input type="checkbox"/> Section 5 Scope and Exclusions (County Wide)	Page 9	Medium	Clearly articulates the activities which are not subject to the ordinance
<input type="checkbox"/> Section 6 General Requirements for Areas Other Than University Lake, Cane Creek, and Upper Eno	Page 10	High	Provides the requirements for approval of land-disturbing activities in all portions of the County except

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Watersheds			the University Lake, Cane Creek, and Upper Eno Watersheds
<input type="checkbox"/> Section 7 Basic Control Objectives	Page 12	Medium	Clearly articulates the objectives that must be addressed in and erosion and sedimentation control plan
<input type="checkbox"/> Section 8 Mandatory Design and Performance Standards for Land-Disturbing Activity	Page 13	High	Provides mandatory standards for approval of land-disturbing activities
<input type="checkbox"/> Section 9 Stormwater Outlet Protection	Page 19	High	Reduces runoff and limits damage to properties and water quality
<input type="checkbox"/> Section 15 Existing Uncovered Areas	Page 23	Medium	Intended to reduce erosion and sedimentation by providing mechanism for restoration of uncovered areas and enforcement
<input type="checkbox"/> Section 17 Permits	Page 24	High	Provides standards for submittal application for land-disturbing activities
<input type="checkbox"/> Section 18 Erosion and Sedimentation Control Plans	Page 26	High	Provides standards for approval of land-disturbing activities
<input type="checkbox"/> Section 21 Inspection and Investigations	Page 32	High	Provides mechanism for enforcement of ordinance
<input type="checkbox"/> Section 22 Penalties	Page 34	High	Provides mechanism for enforcement of ordinance
<input type="checkbox"/> Section 23 Injunctive Relief	Page 36	High	Provides mechanism for enforcement of ordinance
<input type="checkbox"/> Section 24 Restoration of Areas Affected by Failure to Comply	Page 25	High	Provides mechanism for enforcement of ordinance
Stormwater Ordinance for Lands Within Neuse River Basin			
<input type="checkbox"/> Section 3 Riparian Area Protection Within the Neuse River Basin	Page 6	High	Limits erosion, sedimentation and flood damage within Neuse River Basin
<input type="checkbox"/> Section 4 Table of Uses	Page 8	Low	Limits erosion, sedimentation and flood damage within Neuse River Basin
<input type="checkbox"/> Section 5 New Development Review	Page 22	Low	Provides standards for new development
<input type="checkbox"/> Section 6 Nutrient Load Calculations	Page 22	Medium	Provides standards for new development
<input type="checkbox"/> Section 7 Stormwater Management Plan	Page 25	Low	Provides standards for stormwater management plan submittal and processing
<input type="checkbox"/> Section 8 Permanent Nitrogen Export Reduction Best Management Practices	Page 26	Medium	Provides BMP options for reducing nitrogen from new developments tithing Neuse Basin
<input type="checkbox"/> Section 9 BMP Construction	Page 27	Medium	Clearly articulates nitrogen removal rates associated with specific BMPs
<input type="checkbox"/> Section 10 Annual Maintenance	Page 28	Medium	Ensures required maintenance of BMPs

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<input type="checkbox"/> Section 11 Land Use Planning Provisions	Page 28	Medium	Provides design options for reducing impervious surface in new developments
<input type="checkbox"/> Section 12 Jurisdiction-wide and Inter-local Approaches	Page 29	Medium	Allows Orange County option of implementing jurisdiction-wide and/or inter-local approaches to achieve nitrogen reductions
<input type="checkbox"/> Section 13 Jurisdiction-wide Collection of Illegal Discharge Information	Page 29	Medium	Orange County shall collect information related to illegal discharges within the Neuse River Basin
<input type="checkbox"/> Section 14 Illegal Discharges	Page 29	Medium	Establishes methods for controlling the introduction of pollutants into stormwater collection system
<input type="checkbox"/> Section 15 Inspections and Investigations	Page 32	Medium	Provides mechanism for enforcement of ordinance
<input type="checkbox"/> Section 16 Penalties	Page 34	Medium	Provides mechanism for enforcement of ordinance
<input type="checkbox"/> Section 17 Injunctive Relief	Page 35	Medium	Provides mechanism for enforcement of ordinance
<input type="checkbox"/> Section 18 Compliance with Requirements	Page 35	Medium	Provides mechanism for enforcement of ordinance