

Appendix E												
Clinton Main Subwatershed Planning Evaluation												
<i>Compiled Results</i>												
November, 2004												
		Auburn Hills	Keego Harbor	Orchard Lake Village	Pontiac	Rochester Hills	Sylvan Lake	Oakland County	Oakland University	Totals		
1. Snapshot												
Has your community adopted any of the following types of resource protection measures?										Yes	No	Other
Plans:												
Natural Areas/Open Space /Greenways		Yes	Yes	Yes	No	Yes	No	No /Yes for parks	Yes	6	2	-
Recreation		Yes	Yes	Yes	Yes	Yes	No	No /Yes for parks	No	6	2	
Watershed Management		Yes	No	Yes	Partially	Yes	No	Yes	No	4	3	1
Stormwater Management		Yes	Yes	Yes	Partially	Yes	No	Yes	No	5	2	1
Wastewater (Septic/Sewer) Infrastructure		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	-	-
Wellhead Protection		No	No	No	No	No	Yes	No	No	1	7	-
Public Education		Yes	No	Yes	Partially	Yes	No	Yes	Yes	5	2	1
Illicit Discharge Elimination		Yes	No	No	Partially	Yes	No	Yes	No	3	4	1
Other:			No									
Ordinances/Guidelines/Standards:												
Storm Water Management		Yes	No	Yes	No	Yes	Yes	Yes	No	5	3	-
Impervious Surface/Infiltration		Yes	No	Yes	No	Yes	Yes	N/A*	No	4	3	1
Natural Features Setback		Yes	No	Yes	No	Yes	No	N/A*	Yes	4	3	1
Resource Protection Overlay District		Yes	No	No	No	No	No	N/A*	No	1	6	1
Cluster Development		Yes	Yes	Yes	Yes	Yes	No	N/A*	N/A	5	1	2
Wetland Protection		Yes	No	Yes	No	Yes	No	N/A* /Yes for parks	Yes	5	3	-
Woodlands Protection		Yes	No	Yes	Yes	Yes	No	N/A* /Yes for parks	Yes	6	1	-
Native Vegetation		No	Yes	Yes	No	No	No	N/A* /Yes for parks	No	3	5	-
Flexible Parking Requirement Standards		Yes	Yes	No	Yes	Yes	Yes	N/A*	No	5	2	1
Flexible Private Road Standards		No	No	Yes	No	No	No	N/A*	No	1	6	1
Structural Best Management Practice Standards for Stormwater		Yes	Yes	No	Yes	Yes	No	Yes	No	5	3	-
Native Vegetation Practice Standards		No	No	Yes	No	No	No	N/A* /Yes for parks	No	2	6	-
Criteria for Site Plan Review		Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	7	1	-
Other Standards							Fertilizer Ordinance					

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2. Storm Water Management											
Plans and Policies:											
1. Does your Master Plan identify storm water management quality and/or quantity as an important community goal or policy relating to the protection of health, safety and welfare of your community's residents?	No	No	Yes	No	Yes	Yes	Yes	No	4	4	-
Development / Redevelopment Regulations and Standards:											
1. Does your community require or encourage the following :											
a. preservation of natural drainage pathways and existing vegetation to the greatest extent possible?	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	7	1	-
b. full detail of specific storm water design specifications in the site plan?	Yes	Yes	No	No	Yes	Yes	Yes	No	5	3	-
c. the use of BMP's to improve a site's infiltration potential (such as naturally vegetated open space or vegetated swales)?	No	No	No	No	Yes	No	Yes	No	2	6	-
d. discouragement or prohibition of direct discharge of storm water into wetlands, streams or other surface waters without pre-treatment?	Yes	No	Yes	Yes	Yes	Yes	Yes	No	6	2	-
e. maintenance agreements for all storm water management systems or other BMP ?	No	No	No	No	Yes	Yes	Yes	No	3	5	-
2. Does your community provide the following?											
a. specific design standards for stormwater BMP's relating to the specific "c" factors of areas to be developed?	Yes	No	Yes	Yes	Yes	Yes	No	No	5	3	-
b. performance standards for stormwater management (e.g. requiring maintenance of pre-development runoff rates or volumes, pollutant removal standards, etc.)?	Yes	Yes/No	Yes	No	No	Yes	Yes	No	4	4	-
c. guidelines to make drainage systems and retention ponds visually attractive while enhancing functionality? (for example, avoiding traditional turf grass, using native species and contoured ponds)	No	No	Yes	No	No	Yes	No	No	2	6	-

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3. Impervious Surface Minimization												
Plans and Policies:										Yes	No	Other
1. Does the Master Plan identify impervious surface minimization in new construction and redevelopment as an important community goal or policy relating to the protection of health, safety and welfare of your community's residents?		No	No	No	No	No	No	N/A*	No	-	7	1
Development / Redevelopment Regulations and Standards:												
1. Does your community <u>require or encourage</u> the following :												
a. some portion of a parking facilities be dedicated to enhancing infiltration (such as planting trees / vegetation within the parking lot paving, allowing pervious spill over areas, using porous pavement, and using islands as detention areas)?		Yes	No	No	No	No	No	N/A*	No	1	6	1
b. streets to have the minimum required pavement width (specify minimum) needed to support travel lanes, emergency, maintenance and service vehicles?		Yes	No	Yes	Yes	No	Yes	N/A*	No	4	3	1
2. Does your community <u>provide</u> the following?												
a. flexibility in the parking ordinance (such as shared parking) to reduce the number of spaces constructed if warranted by the proposed development?		Yes	Yes	No	Yes	No	Yes	N/A*	No	4	3	1
c. relaxation of side yard setbacks and narrower frontages to reduce total road length, driveway length, and overall site imperviousness?		Yes	Yes	Yes	No	No	No	N/A*	N/A	3	3	2

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4. Erosion and Sedimentation Control																					
Plans and Policies:																			Yes	No	Other
1. Is erosion and sedimentation control identified in the Master Plan as an important mechanism to protect the health, safety and welfare of residents through protection of water and soil resources?										No	No	No	No	Yes	No	Yes	No		2	6	-
Development / Redevelopment Regulations and Standards:																					
1. Does your community <i>require or encourage</i> the following :																					
a. soil erosion control measures to be in place before construction begins?										Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	-	-
b. maintenance and monitoring of soil erosion and sedimentation controls ?										Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	-	-	
5. Wastewater Planning																					
Plans and Policies:																					
1. Does the Master Plan (or other plan) address wastewater planning and relate adequate wastewater treatment to the protection of the health, safety and welfare of residents?										Yes	No	100% Sewered	Yes	No	Yes	N/A*	No	3	3	2	
2. If yes, does the Master Plan (or other plan) include the following:																					
a. Mapping and discussion of current and planned sewered and unsewered areas?										Yes	N/A	N/A	Yes		Yes	N/A*		3	-	5	
b. Mapping and discussion of soils and their capabilities for handling septic systems?										No	N/A	N/A	No		No	N/A*		-	3	5	
c. Guidelines on how maps and discussion relating to wastewater infrastructure and soil capability are to be used in land use, zoning and site plan decisions?										Yes	N/A	N/A	No		Yes	N/A*		2	1	5	
Development / Redevelopment Regulations and Standards:																					
1. Does your community <i>require or encourage</i> the following :																					
a. a minimum isolation distance for septic system location of at least 100 feet from a lake, wetland, stream, or other water feature?										Yes?	N/A	N/A	Yes	Unknown	N/A	N/A*	N/A	2	-	6	
b. prohibition on connecting downspouts to the storm water system?										Yes	No	N/A	No	Yes	Yes	N/A*	?	3	2	3	
c. regular maintenance and inspection of septic facilities?										Yes	N/A	N/A	No	No	N/A	N/A*	Yes	2	2	4	

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6. Open Space, Natural Areas, Native Vegetation and Community Greenways												
Plans and Policies:										Yes	No	Other
1. Does the Master Plan include goals and policies which recognize the importance of natural areas and open space preservation?		No	Yes & No	Yes	Yes	Yes	Yes	N/A* /Yes for parks	Yes	6	2	-
2. Does the Master Plan identify the watershed(s) in which the community is located?		No	No	Yes	No	In Process	No	N/A*	Yes	3	4	1
3. Does the Master Plan include goals and policies which recognize the importance of native vegetation?		No	No	Yes	No	In Process	No	N/A* /Yes for parks	No	3	5	1
4. Has your community adopted a plan which does the following:												
a. Inventories and maps potential corridors in your community to create an interrelated network of open space??		Yes	Yes	No	Yes	In Process	No	N/A* /Yes for parks	Yes	6	2	-
b. Coordinates community greenways/open space with adjacent community, County or regional greenway plans?		Yes	Yes & No	No	Yes	Yes	No	N/A*	No	3	4	1
c. Prioritizes areas for preservation?		Yes	No	No	No	Yes	No	N/A* /Yes for parks	Yes	4	4	-
d. Includes a mix of public access and natural area habitat?		Yes	No	Yes	No	Yes	No	N/A* /Yes for parks	Yes	5	3	-
e. Identifies tools and timetable for implementation?		Yes	No	No	No	No	No	N/A*	No	1	6	1
f. Proposes location-specific recommendation of tools and techniques?		Yes	No	No	No	In Process	No	N/A*	No	2	5	1
g. Identifies roles and responsibilities for implementation?		Yes	Yes & No	No	No	No	No	N/A*	No	1	6	1
h. Proposes a mechanism to track the success of the plan?		Yes	No	No	No	No	No	N/A*	No	1	6	1
5. Has your community incorporated the Oakland County MNFI Potential Natural Areas GIS Coverage (or an equivalent inventory) into the Master Plan ?		No	No	No	No	In Process	No	N/A* /Yes for parks	No	2	6	-
6. Do plans, policies, or regulations recognize the importance of long-term stewardship and management of preserved open space and natural areas?		Yes	No	Yes	No	Yes	No	N/A* /Yes for parks	Yes	5	3	-
7. Does your community have a working relationship with a local land conservancy?		Yes	No	Yes	No	Yes	Yes	N/A* /Yes for parks	No	5	3	-
Development / Redevelopment Regulations and Standards:												
1. Does your community <u>require or encourage</u> the following :												
a. linking of open space with adjacent open spaces in site planning?		Yes	Yes	Yes	Yes	Yes	No	N/A* /Yes for OCPEDS	No	6	2	-
b. protection of the open space in new developments through a conservation easement or other similar mechanism?		Yes	Yes	Yes	Yes	Yes	No	N/A* /Yes for OCPEDS	No	6	2	-

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2. Does your community provide the following?											
									Yes	No	Other
a. flexible site design criteria available for developers that use open space or cluster design options?	Yes	Yes	Yes	Yes	Yes	Yes	N/A*	No	6	1	1
b. a natural features or greenways plan map to guide the placement of open space in site planning of new developments?	Yes	No	No	No	Yes	No	N/A*	Yes	3	4	1
7. Wetlands & Woodlands Preservation											
Plans and Policies:											
1. Does the Master Plan recognize the importance of wetlands and woodlands and the functions they play in protecting residents' health, safety and welfare from problems such as flooding and poor water quality?	Yes	No	Yes	Yes	Yes	Yes/No	N/A*	N/A	4	2	2
2. Does the Master Plan call for the protection of wetlands and woodlands within an ecosystem context (protecting adjacent uplands, waterways, and vegetated buffers as well)?	Yes	No	Yes	Yes	Yes	Yes	N/A*	No	5	2	1
3. Has your community compiled and mapped a wetland and woodland inventory?	Yes	No	Yes	No	In Process	No	N/A*	No	3	4	1
4. Has your community identified the functional values of wetlands and woodlands?	Yes	No	Yes	No	Yes	No	N/A*	Yes	4	3	1
Development / Redevelopment Regulations and Standards:											
1. Does your community require or encourage the following :											
a. protection of wetlands below state protection criteria (less than five acres in size)?	Yes	No	Yes	No	Yes	No	N/A*	No	3	4	1
b. protection of local woodlands or trees?	Yes	No	Yes	Yes	Yes	No	Yes	Yes	6	2	-
c. replacement of trees that are removed during construction?	Yes	Yes	Yes	Yes	Yes	Yes	N/A*	No	6	1	1
d. the inclusion of woodlands, wetlands, and landmark trees on site plans											
2. Does your community provide the following?											
a. Site plan review criteria relative to woodlands, wetlands, and landmark trees?	Yes	No	Yes	Yes	Yes	Yes	Yes	No	6	2	-

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8. Riparian Lands: Stream Corridors and Floodplains																							
Plans and Policies:																			Yes	No	Other		
1. Does the Master Plan state that protection of riparian areas (including stream corridors and floodplains) is important in promoting the health, safety and welfare of residents through flood control, water quality and riparian corridor preservation?										Yes	No	Yes	No	Soon	No	N/A*	No				3	4	1
2. Does the community participate in any watershed/water quality monitoring activities?										Yes	No	Yes	Yes	Yes	No	Yes	No				5	3	-
Development / Redevelopment Regulations and Standards:																							
1. Does your community <u>require</u> or <u>encourage</u> the following :																							
a. restriction of clearing and/or construction within floodplains?										Yes	Yes	Yes	Yes	Yes	Yes	N/A*	No				6	1	1
b. protection of adjacent sensitive upland riparian features, such as steep slopes?										Yes	No	Yes	No	Yes	Yes	N/A*	No				4	3	1
c. a minimum building envelope setback from designated water features (Specify setback)?										Yes	Yes	Yes	No	Yes, 25'	Yes	N/A*	No				5	2	1
d. a naturally vegetated buffer along riparian corridors?										Yes	No	Yes	No	No	No	N/A*	No				2	5	1
2. Does your community <u>provide</u> the following?																							
a. flexibility in standards to allow your community to determine stream setback width based on the sensitivity of the natural features?										Yes	No	Yes	No	No	No	N/A*	No				2	5	1
b. an overlay district designed to protect riparian areas?										Yes	No	No	No	Soon	No	N/A*	No				2	5	1
9. The Development Review Process																							
Development / Redevelopment Regulations and Standards:																							
1. Does your community <u>require</u> or <u>encourage</u> the following :																							
a. a "pre-application" meeting or site analysis before engineered drawings are submitted?										Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A				7	-	1
b. mapping of all natural features on site plan proposals, such as surface water, floodplains, wetlands, woodlands, steep slopes, and natural drainage patterns?										Yes	Yes	Yes	Yes	Yes	Yes	N/A*	No				6	1	1
c. Sufficient detail of stormwater Best Management Practices (BMP's) on site plan proposals so that they can be reviewed for effectiveness during the site plan review process?										Yes	No	Yes	Yes	Yes	Yes	Yes	No				6	2	-
2. Does your community <u>provide</u> the following?																							
a. Site plan review criteria/standards, including information requirements and performance standards, designed to protect natural features and resources.										Yes	No	Yes	No	Yes	No	N/A*	No				3	4	1

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10. Groundwater and Wellhead Protection (Optional for Applicable Communities)																					
Plans and Policies:																			Yes	No	Other
1. Does the Master Plan recognize the importance of groundwater as a natural resource important to the health, safety and welfare of its residents?										No	No	No	No	Not Yet	Yes	N/A*	No		1	6	1
2. Is the importance of groundwater recharge to maintaining the integrity of aquatic resources such as streams and wetlands described in the master plan?										No	No	No	No	No	No	N/A*	No		-	7	1
3. If your community has municipal well fields, have you established a Wellhead Protection Program approved by the State?										N/A	N/A	N/A	N/A	N/A	Yes	N/A*	N/A		1	-	7
4. If not, has your community done the following:																					
a. Identified the groundwater recharge area that contributes to your community's groundwater supply?										No	N/A	N/A	N/A	N/A	N/A	N/A*	N/A		-	1	7
b. Identified sources of contamination within these groundwater recharge areas?										Yes	N/A	N/A	N/A	N/A	N/A	N/A*	N/A		1	-	7
c. Developed methods to cooperatively manage the groundwater recharge area and minimize any threats to the groundwater supply?										Yes	N/A	N/A	N/A	N/A	N/A	N/A*	N/A		1	-	7
11. Public Education																					
Plans and Policies:																					
1. Does your community deliver public education services to residents regarding environmental protection (please provide examples)?										Yes	No	Yes	Yes	Yes	No	N/A* /Yes for OCPEDS	No		5	3	-
2. Does your community coordinate public education efforts with other organizations, such as watershed, county, or regional agencies?										Yes	No	Yes	Yes	Yes	No	Yes	No		5	3	-
N/A* = Oakland County relies on standards from Waterford Township or the City of Pontiac, if any.																					