

Attachment 1
Council Report Attachment
Toronto and Region Conservation Authority
York Region – ORMCP Subwatershed Planning
2005 Year End Status of Deliverables

Watershed Plan Component	Total York Region Budget	Actual York \$ Spent to date	Status of Deliverables as of December 31, 2005	Key 2005 Deliverables
Water Use Assessment	\$7,400	\$7,413	Rouge River Watershed • Water use database user interface developed which includes both TRCA and LSRCA water use datasets; preliminary GIS data layers available. • Analysis and effects assessment and policy development will be completed once HSPF model results for future scenarios are available. Humber River Watershed • Draft technical background report of current water use is complete. • Water use database user interface developed which includes both TRCA and LSRCA water use datasets; preliminary GIS data layers available. • Analysis and effects assessment and policy development will be completed once HSPF model results for future scenarios are available. Don River Watershed • Draft technical background report of current water use is complete. • Water use database user interface developed which includes both TRCA and LSRCA water use datasets; preliminary GIS data layers available.	Rouge River Watershed • Analysis of effects of future land use and management scenarios on water supply • input to development of a water allocation strategy and model policy regarding water use (e.g. minimum baseflow targets) Humber River Watershed • Phase 1 report on water use survey results addressing permitted and non-permitted water uses at a subwatershed scale; • Analysis of potential effects of future land and water use and management scenarios on water availability; • Input to development of a water allocation strategy and model policies regarding water use (e.g., minimum baseflow targets). Don River Watershed analysis of current water use and effects on baseflow
Water Budgets/ Base Flow Monitoring	\$18,100	\$28,651	Rouge River Watershed • HSP-F/MODFLOW modeling underway, after delays in confirming satisfactory calibration. • Water budget, analysis and effects assessment, policy development and criteria will be completed once HSPF and MODFLOW model results for future scenarios are available. • Field staff completed monthly summer baseflow monitoring at indicator stations. Humber River Watershed • Draft technical background report of current conditions (Phase 1) completed. • Field staff completed monthly summer baseflow monitoring at indicator stations • Water budget, analysis and effects assessment, policy development and criteria will be completed once HSPF and MODFLOW model results for future scenarios are available. Don River Watershed • Draft technical background report complete. • Field staff completed monthly summer baseflow monitoring at indicator stations.	Rouge River Watershed • Water budget input to Phase 1 report • Analysis of effects of future land use and management scenarios on natural systems • Input to development of water allocation strategy and model policy regarding water budget management • SWM criteria for infiltration • Monthly baseflow monitoring at indicator stations Humber River Watershed • Phase 1 report updating current surface water quantity conditions including baseflow monitoring results; • Updated monthly baseflow data; • Analysis of potential effects of future land and water use and management scenarios on water budget and low stream flows; • Input to development of a water allocation strategy and model policies regarding water use (e.g., minimum baseflow targets); • Input to development of stormwater management criteria for groundwater

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				infiltration. Don River Watershed •input to Phase 1 summary of current watershed conditions for water budget and low flow distribution components •updated monthly baseflow data
Aquatic Ecosystem & Habitat	\$70,000	\$68,049	Rouge River Watershed • Partner support to MNR LSAT (Landscape Stream Assessment Tool) model; first stage of model testing; continued model refinement; some analyses being run by MNR with TRCA current conditions data. • Awaiting further input data from HSP-F and MODFLOW to complete LSAT analysis of future scenarios on aquatic systems and provide watershed plan and policy input. • Establishment and ongoing meetings of Technical Team for ARMP; ARMP Terms of Reference and Workplan . • Temperature monitoring and analysis completed; update to habitat classification anticipated in new year with consult/review by MNR. • Fisheries sampling completed and database updated with 2005 data. • Approximately 110 potential barriers assessed (Little Rouge River, Berczy, Bruce and Morningside Creeks, and portions of mainstem and data entered)Gap analyses for fisheries completed and supplemental temperature, barrier and fisheries sampling underway. • Riparian analyses methods formalized, GIS analysis underway. Humber River Watershed • Draft background current conditions report completed • Partner support to MNR LSAT (Landscape Stream Assessment Tool) testing; first stage of model testing completed; continued model refinement; some analyses being run by MNR with TRCA current conditions data.. • Awaiting further input data from HSP-F and MODFLOW to complete LSAT analysis of future scenarios on aquatic systems and provide watershed plan and policy input. • Riparian analyses methods formalized and underway. • Temperature monitoring complete and used to verify MNR stream classifications. Don River Watershed • Draft Aquatic Systems – Current Conditions report complete. • Analysis of effects of future scenarios deferred to early 2007, as per revised project schedule. Update on Revised Don Fisheries Management Plan, as follows: • MOU and data sharing agreement with MNR in process to determine clear FMP roles and responsibilities. • Temperature data entered and analysed; comparison of habitat classification schemes; draft classification submitted to MNR for review / comment. • Fisheries data entered into fisheries database, GIS shapefile updating; Index of Biotic Integrity calculated • Barrier assessments completed (348 sites in Lower and Upper East Don and German	Rouge River Watershed Plan • Analysis of effects of future scenarios on aquatic systems •input to Watershed Plan recommendations and model policy •aquatic resource management plan (ARMP) Humber River Watershed •Phase 1 report updating current condition of the aquatic system including fish and benthic invertebrate communities and aquatic habitat; •Analysis of potential effects of future land and water use and management scenarios on aquatic system health; •Input to watershed plan recommendations and model policies Don River Watershed •input to Phase 1 summary report of existing and historical aquatic communities •analysis of effects of future land and water use scenarios on aquatic systems

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			Mills complete); data entered and GIS shapefile updating underway. • Riparian analyses draft results at subwatershed level being reviewed. • Analyses of collected MNR data sheets initiated and on-going. • Draft TOR for Don River Fisheries Management Plan complete. • Riparian analyses methods formalized, GIS analysis underway.	
Terrestrial Natural Heritage	\$33,500	\$22,374	Rouge River Watershed • Analysis of future scenarios completed, including landscape analysis of 2002 conditions, Official Plan Buildout and enhanced natural cover as per TRCA's refined targeted system for the Rouge. • Initial input to model policy was provided. • Will complete input to watershed plan and model policy, once modeling results other study components are available and final integrated analysis of targeted terrestrial natural system can be undertaken. Humber River Watershed • Landscape Analysis of 2002 and target system refinement is complete. • Background technical report is complete. • Analysis of potential effects of future land and water use and management scenarios is underway. • Will complete input to watershed plan and model policy, once modeling results other study components are available and final integrated analysis of targeted terrestrial natural system can be undertaken. Don River Watershed • Landscape Analysis of 2002 conditions and patch score analysis is complete. • Refinements to regional targets have been deferred to 2007, as per delay in overall study. • Phase 1 report of current conditions to be completed by March 2006. •	Rouge River Watershed Plan • Analysis of effects of future scenarios on terrestrial scores. • input to watershed plan recommendations and model policy • integration of terrestrial target system with other natural heritage components (aquatics, groundwater) Humber River Watershed • Landscape analysis on updated natural land cover data to assess terrestrial system quality/function at habitat patch and watershed scales; • Refine regional terrestrial natural heritage system target for the Humber watershed; • Analysis of potential effects of future land and water use and management scenarios on terrestrial system health; • Input to watershed plan recommendations and model policies Don River Watershed • Landscape analysis of existing conditions to determine patch scores; • Refinement of regional targets for quantity and quality to watershed scale; • Input to Phase 1 summary report of current watershed conditions for terrestrial component; Analysis of effects of future land use and management scenarios on the terrestrial system
Water Quality	\$93,500	\$70,328	Rouge River Watershed • Update of surface water quality assessment , based on additional data provided by MOE, is complete. • HSP-F model calibration for water quality has been reviewed and is undergoing further revisions. Eight future scenarios, including stormwater retrofits, will be modeled and analyzed early in 2006. Humber River Watershed • Final draft of the Phase 1 report on updated surface water quality is complete. • The HSP-F model has been set-up and calibrated. Interim report is complete. • Modeling and analysis of future scenarios, including a stormwater retrofit scenario, is underway.	Rouge River Watershed Plan • update of surface water quality assessment and input to Phase 1 Report • Water quality/ contaminant modelling and analysis of future scenarios and their effects on water quality • Assessment of effectiveness of SW Retrofits through 416/905 HSP-F model integration Humber River Watershed • Update of surface water quality assessment and input to Phase 1 report • Water quality and contaminant modelling and analysis of potential effects of future land and water use and management scenarios on surface water quality;

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			Don River Watershed - Wet weather monitoring at two stations on the Don is complete and data processing has been initiated. - HSP-F modeling of a stormwater retrofit scenario deferred to 2006, once the City of Vaughan's stormwater retrofit study is complete and additional retrofit sites identified.	- Assessment of effectiveness of planned stormwater retrofits through 416/ 905 area HSP-F model integration; - Input to watershed plan recommendations and model policies Don River Watershed - Limited updated water quality assessment and input to Phase 1 summary report on current conditions modelling of (905) SW retrofit scenario
Groundwater Studies	\$31,500	\$11,235	Rouge River Watershed - Comparison of HSPF /MODFLOW recharge values in progress, as critical step in linking surface and groundwater models. - Consultant awaiting final HSPF / MODFLOW scenario modeling results to interpret and write report. - Will complete input to model policy and water allocation strategy, once modeling results are available. Humber River Watershed - Westward extension (to include full Humber watershed) and refinement of the YPDT/EarthFx regional groundwater flow model is complete. - Comparison of HSPF /MODFLOW recharge values in progress, as critical step in linking surface and groundwater models. - Consultant awaiting final HSPF / MODFLOW scenario modeling results to interpret and write report. - Will complete input to model policy and water allocation strategy, once modeling results are available. Don River Watershed - Current conditions report will be completed by March 2006.	Rouge River Watershed Plan - Analysis of effects of future scenarios on groundwater system - Input to final watershed plan recommendations, model policy and water allocation strategy Humber River Watershed - Phase 1 report on current condition of the groundwater system; - Analysis of potential effects of future land and water use and management scenarios on groundwater quantity and quality; - Input to watershed plan recommendations and model policies. - Input to development of a water allocation strategy and model policies regarding water use. Don River Watershed - Interpretation of groundwater system and input to Phase 1 summary report on current watershed conditions
Project Management Policy Development Legal Review & Communications	\$246,000	\$131,378	Rouge River Watershed - Ongoing project coordination, administration and task force support; - Convened six Task Force meetings (Feb. 3, March 10, April 21, June 2, Sept. 15, Nov. 10) and a one day workshop (Dec. 3) to discuss key issues, input into modeling assumptions, and direct the plan's development. - Draft report of future scenario definitions and assumptions completed. - Terrestrial natural heritage modeling and analysis of scenarios 1, 2 and 4 completed. - Remaining modeling is underway, but was delayed due to complications with calibrating and linking surface (HSP-F) and groundwater (MODFLOW) models; expect completion in February 2006. - Writer/facilitator awaiting modeling results, before Phase 2 summary report can be completed and preferred management strategy developed. Report format is established. "Management summit" workshops were held jointly with stakeholders from the Humber watershed and other experts to discuss way to advance key management issues, including enhanced natural cover, agriculture, aggregate resource extraction/rehabilitation, and implementation of sustainability practices. A "water	Rouge River Watershed - Project coordination and administrative support to Task Force - Written summary of the results of modeling and analysis of future land use scenarios and management strategies (Phase 2 report) - Preliminary Watershed Plan (Draft Phase 3 Report), including summary of background conditions, preferred management strategy and implementation plan - Min. of one set of community open houses and two sets of focus group meetings (seek input on Phase 2 and draft Phase 3) - Regular task force meetings (minimum of seven) and implementation subcommittee meetings and administration of their workplans - Draft model policy - Legal input to policy/plan as required Humber River Watershed - Project coordination and administrative support; - Draft Phase 1 reports updating current conditions pertaining to groundwater

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			balance/water issues” management summit is planned, pending availability of modeling results. • Full draft set of management strategies and implementation actions has been developed. • Outline for watershed plan completed. • State of the Watershed (Phase 1 Report) presently being edited. • Draft recommended Rouge policy for natural heritage and water issues is underway, based on “Generic Model Policy” report. Plan for municipal consultation underway. Humber River Watershed • Ongoing project coordination and administration; • Full first drafts of all but one of the background reports are complete; including current conditions and report card ratings; remaining report (groundwater) is anticipated by end January 2006. • Full first drafts of detailed definitions and mapping of future land and resource use scenarios are complete and under review; second round of consultation with municipal partners is complete. • Scenario modeling and analysis is underway, but delayed due to complications with calibrating and linking surface (HSP-F) and groundwater (MODFLOW) models; expect completion of modeling and associated Phase 2 summary report by end April 2006. • Held workshops to discuss key management issues (e.g. natural cover, agriculture) jointly with Rouge watershed stakeholders. • Anticipate completion of draft Watershed Plan (Phase 3 report) in September 2006. • Development of draft model policies is underway. Don River Watershed • Ongoing project coordination and administration • Workplan was finalized, including a revised approach and schedule. Study focus is on filling data gaps, fulfilling York’s ORMCP requirements and regeneration priority setting using an integrated approach. • Three of six current conditions reports are complete (aquatic systems, water use, low flow); remaining reports expected by March 2006. • Revised objectives and indicators; confirmation of targets is underway. • Proposed workplan for Phase 2 (analysis) is complete and detailed draft terms of reference for developing a regeneration priorities assessment methodology is underway. • Consultation plan complete. Community open houses and focus group meetings deferred to spring 2006 in conjunction with completion of current conditions assessment and need for input to management strategy development and regeneration priority setting approach. • Regular reports to Don Watershed Regeneration Council	quality and quantity, surface water quality and quantity, fluvial geomorphology, aquatic system, and terrestrial system complete; • Summary of results of the analysis and evaluation of future land use scenarios and management strategies and the draft preferred management strategy (Phase 2 report); • Preliminary watershed plan including summary of current conditions, preferred management strategy and implementation plan (Phase 3 report); • Minimum of one set of community open houses and focus group meetings (seek input on Phase 2 and draft Phase 3 reports); regular Humber Alliance meetings; • Draft model policies; Don River Watershed • Project coordination and administration. • Written summary report of watershed conditions, based on updated and new data current conditions reports (Phase 1 “state of the watershed”) received by year end; • Confirmation of goals, objectives, indicators, targets • Detailed workplan for Phase 2 analysis (regeneration priorities identification); • Min. one set of community open houses and focus group meetings • Regular Don Council meetings