

| Required Report / Study | Functional Submission | Detailed Design | Required Report / Study | Functional Submission | Detailed Design |
|---|-----------------------|-----------------|--|-----------------------|-----------------|
| Proposed Amendment Documents (OPA/ZBA) | X | | Top of Bank Demarcation Mapping | | |
| Planning Justification Report prepared by a qualified professional (inclusive of Provincial Plan Conformity including LSPP) | X | | Floodplain Analysis | | |
| Environmental Impact Study / Natural Heritage Evaluation | X | X | Geotechnical / Soils Report | X | X |
| Ecological Offsetting Strategy | | | Master Drainage Plan | | |
| Rare, Threatened and Endangered Species Analysis | | | Slope Stability / Erosion Assessment | X | X |
| Tree Inventory & Preservation Plan / Arborist Report | | | Topographic Survey prepared by an OLS | | |
| Watercourse / Shoreline Protection, Enhancement and Restoration Plans | X | X | Hydrogeological Analysis including a Water Balance | X | X |
| Coastal Engineering Study | | | Phosphorus Budget | X | X |
| Vegetation Protection, Enhancement and Restoration Plans | | X | Functional Servicing Report | | |
| Edge Management Plan | | | Stormwater Management Report | X | X |
| Landscape Plan | | | Erosion and Sediment Control Plan | X | X |
| Site Plan / Draft Plan/R Plan | X | X | Grading and Drainage Plan | X | X |
| | | | LSRCA Review Fee | X | X |

Comments:

These comments are subject to the Region of Durham being satisfied that the proposal meets the test set out in 12.1.3 of the Region's Official Plan.

The proposal includes the creation of 4 or more lots and as such meets the definition of "Major Development" per the Lake Simcoe Protection Plan (LSPP).

The Application is subject to the Lake Simcoe Phosphorus Offsetting Policy and also constitutes major development as defined by the Lake Simcoe Protection Plan, therefore the Applicant will be required to satisfy DP-4.8 and DP-6.40 (Site is within an SGRA) of the LSPP as well as LUP-12 and LUP-13 of the Source Protection Plan and the LSPOP.

The proponent will need to demonstrate that any proposal to develop these lands is consistent with the policies of the Provincial Policy Statement (PPS) and in conformity with the Lake Simcoe Protection Plan (LSPP), The Growth Plan for the Greater Golden Horseshoe, the Greenbelt Plan (GBP), the Durham Regional Official Plan, the Township of Uxbridge Official Plan, compliant with the Town's Zoning By-law and LSRCA Watershed Development Guidelines.

The proposed development includes an area that is regulated by the LSRCA under Ontario Regulation 179/06 of the *Conservation Authorities Act*. Accordingly, a permit from the LSRCA under Ontario Regulation 179/06 will be required prior to development or site alteration.

The Applicant is required to provide completed and signed technical checklists (attached) as part of their submissions to the LSRCA.

PLEASE NOTE:

Properly developed technical studies, prepared in accordance with applicable technical guidelines, will support timely review by the LSRCA. It is expected that technical submissions by the Applicant will meet good practice and industry standards to minimize resubmissions and avoid unnecessary delay.

LSRCA Hydrogeological Submission Acknowledgement

I, Name: _____, Credentials: _____ (i.e. P.Geo, or exempted P.Eng. as determined within the *Professional Geoscientists Act of Ontario*), confirm that I am a professional familiar with applicable documents, guidelines and criteria pertaining to groundwater management and that the submission entitled: Report Name: _____, with associated Drawings: _____ has been reviewed by me and addresses the key components in the check list included below.

I acknowledge that hydrogeological sign-off or sign-off from another discipline pertaining to this submission or a portion of this submission does not constitute a permit from LSRCA. A permit will be required for all works within an LSRCA Regulated Area in accordance with Ontario Regulation 179/06 and additional information may be required as part of the permit process.

I acknowledge that an incomplete submission will result in processing delays and may be returned and/or additional information may be requested.

Signature: _____ Printed Name: _____

Name of Consulting Firm: _____

Date: _____ (mm/dd/yy)

LSRCA Hydrogeological Submission Checklist

The following checklist refers to the requirements when submitting a detailed design submission. These same requirements apply to functional design submissions as well, with the exception of the detailed design drawings. The functional design needs to provide sufficient detail to demonstrate the proposed development concept will be capable of meeting the hydrogeological requirements at the detailed design stage.

For items that have been included, please fill in the report section and report page along with appendix location or drawings pertaining to each item. For items not included, check “No” or “N/A” (Not Applicable) for each item. If “No” or “N/A” are checked, please provide an explanation in the note section of why the criteria do not apply in a particular instance. Please note that the submission may be deemed incomplete and that additional consultation with LSRCA may be required prior to submission acceptance.

The checklist below refers to requirements for every development type, therefore the **LSRCA Hydrogeological Submission Guidelines (2013)** should be referred to for specific study requirements for your type of Planning Act application. For example, the study scope may be reduced for single lot residential applications. Please contact LSRCA to scope study requirements prior to undertaking work.

| Yes | | | No | N/A | Item | Comment |
|----------------|-------------|-------------------|----|-----|---|---------|
| Report Section | Report Page | Drawing/ Appendix | | | | |
| | | | | | Pre-submission consultation with LSRCA has been completed as recommended in the Hydrogeological Assessment Submission Guidelines (2013). | |
| | | | | | The hydrogeological report has been prepared as a standalone document . (i.e., all references, calculations and drawings, Thornthwaite-Mather water balance assessment, are included within the document). | |
| | | | | | A Hard Copy of all reports and all drawings (folded individually to 8.5” x 11” size) has been submitted for LSRCA review. | |
| | | | | | Geological Characterization as per Section 3.1 | |
| | | | | | Test pits/Boreholes as per Section 3.1.6 (Required for detailed design) | |
| | | | | | Monitoring Wells as per Section 3.1.7 (Preliminary data required for functional design) | |
| | | | | | Private Well Survey as per Section 3.1.8 | |
| | | | | | Characterization of the local hydrostratigraphy/hydrogeology as | |

| Yes | | | No | N/A | Item | Comment |
|----------------|-------------|-------------------|----|-----|---|---------|
| Report Section | Report Page | Drawing/ Appendix | | | | |
| | | | | | per Section 3.1.9 | |
| | | | | | Description of Surface Water Features and Functions as per Section 3.1.10 | |
| | | | | | Water Quality as per Section 3.1.12 | |
| | | | | | D-5-5 Water Supply (private servicing only) as per Section 3.1.13 | |
| | | | | | Groundwater Levels as per Section 3.2.1 (Preliminary data required for functional design) | |
| | | | | | Pumping Tests as per Section 3.2.2 | |
| | | | | | Groundwater Discharge (Baseflow) as per Section 3.2.3 | |
| | | | | | Pre- and Post-Development Water Balance Assessment as per Section 3.2.4 | |
| | | | | | D-5-4 (Onsite Sewage Systems only) as per Section 3.2.6 | |
| | | | | | Infiltration/recharge mitigation plan as per Section 3.3 | |
| | | | | | In-situ infiltration testing as per Section 3.3 | |
| | | | | | Low impact development design calculations | |

Submission/Resubmission Requirements:

1. A completed response matrix which includes a detailed response outlining how each of the comments above have been addressed with reference to applicable reports/drawings (i.e. specific sections/pages/details or tab identifiers).
2. The response matrix is to also include a summary of any additional changes to the design (i.e. in addition to those not identified in the detailed response to comments, and includes changes to reports, drawings, details, facility design, etc.).
3. All drawings are to be folded (8.5 x 11).
4. Reports and engineering drawings/details are to be signed and sealed by a Professional Geoscientist of Professional Engineer as appropriate.
5. Reports are to include a digital copy of applicable models on a Data CD or USB Thumb Drive.
6. All submissions/reports are to include applicable technical components which achieve the minimum requirements outlined in the LSRCA Technical Guidelines for Stormwater Management Submissions, September 2016.

Important Notes and References:

1. Please contact the LSRCA to scope any required Environmental Impact Study or Natural Heritage Evaluation

2. The stormwater management submission is required to be prepared in accordance with “LSRCA Technical Guidelines for SWM Submissions”
https://www.lsrca.on.ca/Shared%20Documents/permits/swm_guidelines.pdf
3. Submissions are to be in accordance with the LSRCA Watershed Development Guidelines
<https://www.lsrca.on.ca/Shared%20Documents/permits/watershed-development-guidelines.pdf?pdf=Watershed-Development-Guidelines>
4. The hydrogeological analysis is required to be prepared in accordance with “Hydrogeological Assessment Submissions: Conservation Authority Guidelines for Development Applications”
https://www.lsrca.on.ca/Shared%20Documents/permits/hydrogeological%20_guidelines.pdf?pdf=Hydrogeological-Guidelines
5. Where the LSPOP applies, submissions are to be in accordance with the LSPOP found here:
<https://www.lsrca.on.ca/watershed-health/phosphorus>
6. Low Impact Development Treatment Train Tool can be found here:
<https://www.lsrca.on.ca/Pages/LIDTTTool.aspx>
7. LSPP Water Balance Offsetting Policy: applies to all new applications under the planning act received after 1 January 2019, details can be found here:
<https://www.lsrca.on.ca/Shared%20Documents/lspw-water-budget-policy.pdf>
8. LSRCA Review Fees can be found here:
<https://www.lsrca.on.ca/permits/permit-fees>