ADOPTED by Council at its meeting held February 21, 2012 [M102-2012]
/AA
Windsor, Ontario February 21, 2012

REPORT NO. 53 of the
ENVIRONMENT & TRANSPORTATION STANDING COMMITTEE
of its meeting held January 25, 2012

Present: **Councillor Hatfield, Chair**
Councillor Payne
Councillor Sleiman
Councillor Halberstadt
Councillor Valentinis

That the following recommendations of the Environment and Transportation Standing Committee **BE APPROVED:**

Moved by Councillor Sleiman, seconded by Councillor Payne,

THAT the presentation entitled "Source Protection Plan Process" **BE RECEIVED** for information, and

THAT Council **ENDORSE** and comment on draft policies; and

THAT the City of Windsor support ERCA's role in assisting with implementation of Source Protection Plan, including Risk Management Official services; and further

THAT Provincial funding **BE ENCOURAGED** to support ERCA's role in assisting with implementation of the Source Protection Plan.

Carried.

Councillor Valentinis was absent when the vote was taken on this matter.

Clerk's Note: The presentation by Stan Taylor, Project Manager, Source Water Protection, Essex Region Conservation Authority entitled "Source Protection Plan Process" is ***attached*** as background information.

CHAIRPERSON

DEPUTY CLERK

NOTIFICATION:				
Name	Address	Email Address	Telephone	FAX

SOURCE WATER PROTECTION

Essex Region Conservation Authority

Source Protection Plan Process

City of Windsor Standing Committee Meetings – Planning; Environment & Transportation

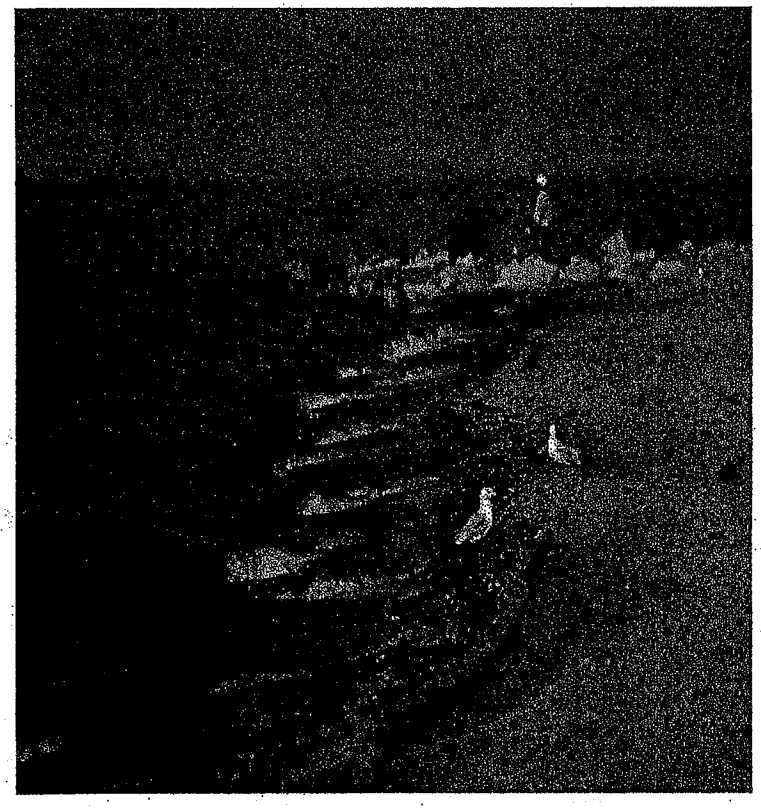
January 2012

SOURCE WATER PROTECTION

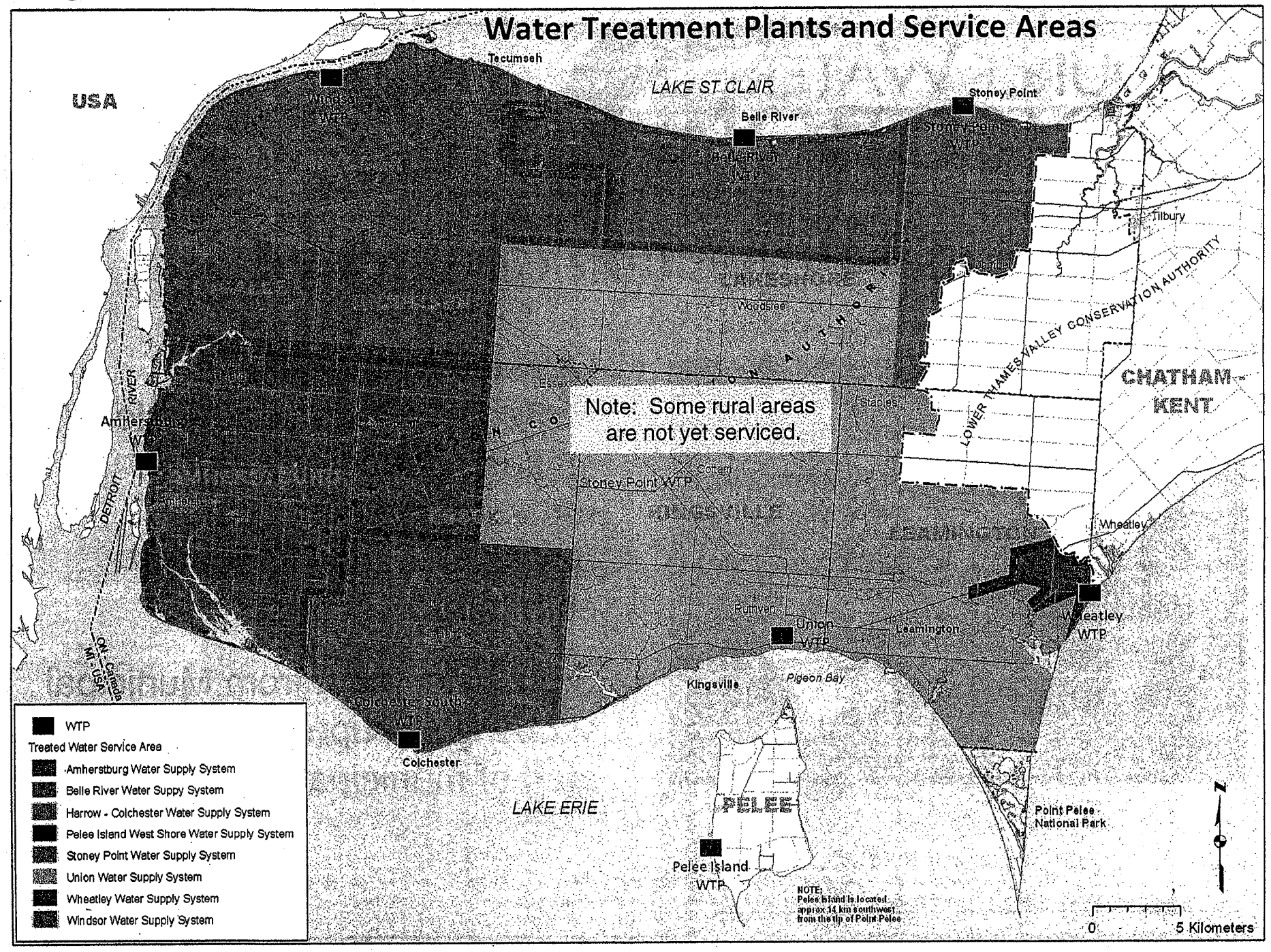
Essex Region Conservation Authority

What is Source Water Protection?

- Protecting the water in local watersheds and the near-shore waters of the Great Lakes as sources of drinking water.
- Clean Water Act – Source Water Protection program is required by, and funded by, the Provincial Ministry of the Environment
- Studies and Plans to address threats to drinking water sources



Water Treatment Plants and Service Areas



SOURCE WATER PROTECTION

Essex Region Conservation Authority

Source Water Protection Committee

- Directed by the Source Protection Committee - a local stakeholder committee representing municipal, business, agriculture, and community sectors.
- Significant input from Municipal Working Group(s) – primarily staff of municipalities

SOURCE WATER PROTECTION

Essex Region Conservation Authority

Source Protection Timeline

	2008	2009	2010	2011	2012
Terms of Reference					
Technical Studies First Assessment Report					
Technical Studies Second Assessment Report					
Source Protection Plans					

Intake Protection Zones

- IPZ-1 = 1 km radius in water, plus setback from shore
- IPZ-2 = flow can reach intake within 2 hours
- IPZ-3 = areas along waterways where studies demonstrate a substantial spill of a contaminant could reach a municipal water intake during runoff event
- IPZ-3s include **all** tributary waterways draining to the Detroit River and Lake St. Clair in Essex Region
- Windsor IPZs extend into other municipalities, and Amherstburg IPZ-3s extend into Windsor, etc.

A. H. Weeks (Windsor) Water Treatment Plant West Intake IPZ 1, 2 and 3

1:90,000

0 — 3 Kilometers

Made possible by the Government of Ontario

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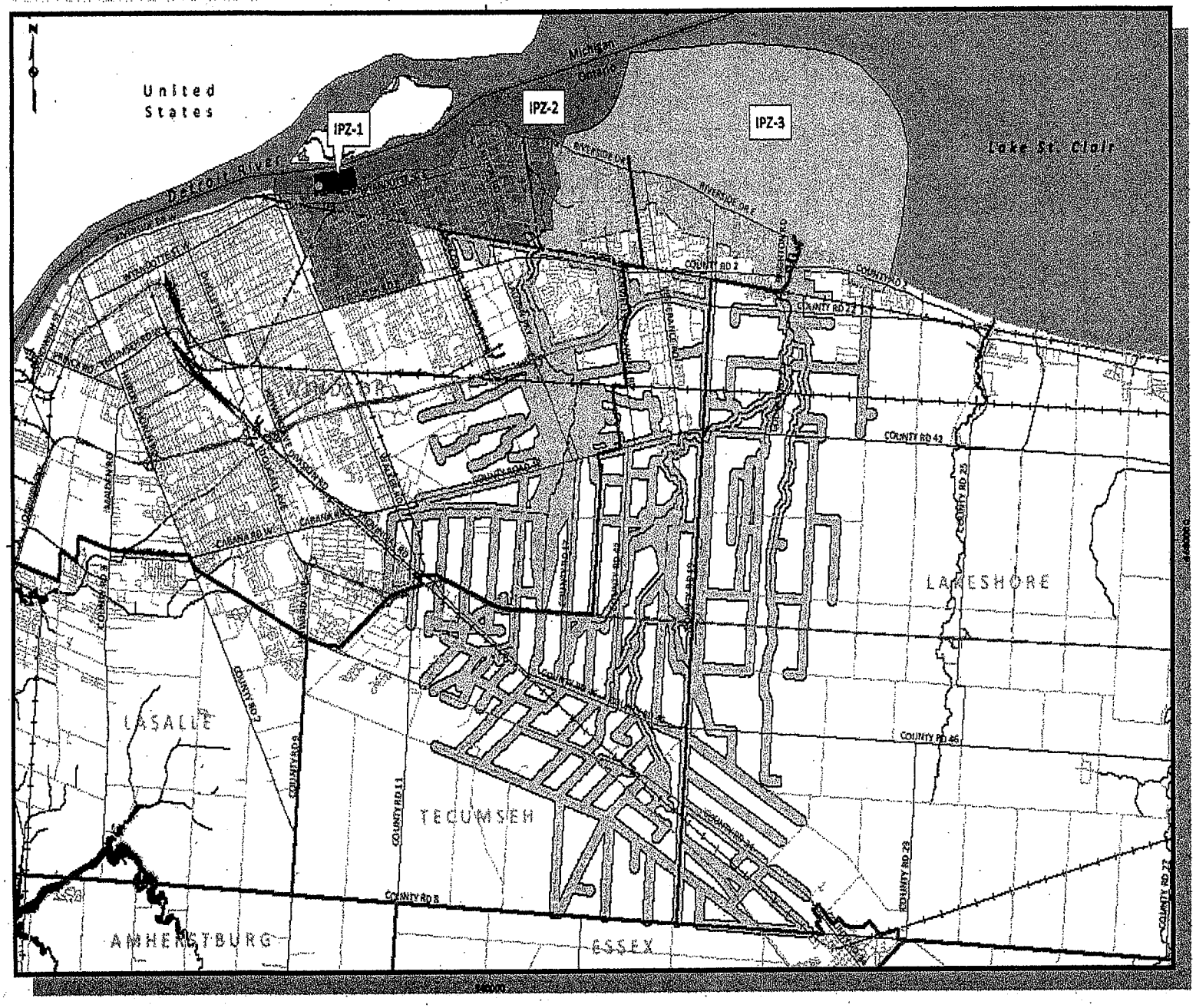

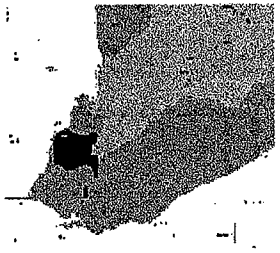

Essex Region Source Protection Area Assessment Report Map 4.25b

Legend

- Intake - Type B
- Drinking Water System
- Municipal, Lower Tier
- International Boundary
- Road
- Railway
- Water and Drainage
- Water Body

Intake Protection Zones

- IPZ-1
- IPZ-2
- IPZ-3

This publication was produced by:

Essex Region Conservation Authority
360 Fairview Avenue West
Essex, ON N8M 1Y6

Sources: ERCA, County of Essex, City of Windsor, MNR, MOE, Stantec Consultants, StatsCanada

Map Produced in Co-Operation with the Province of Ontario and Conservation Ontario

Map Projection & Datum: UTM NAD83 Zone 17N

Amherstburg Water Treatment Plant
Intake Protection Zones 1, 2 and 3

1:150,000

0 5 Kilometers

Made possible by the Government of Ontario

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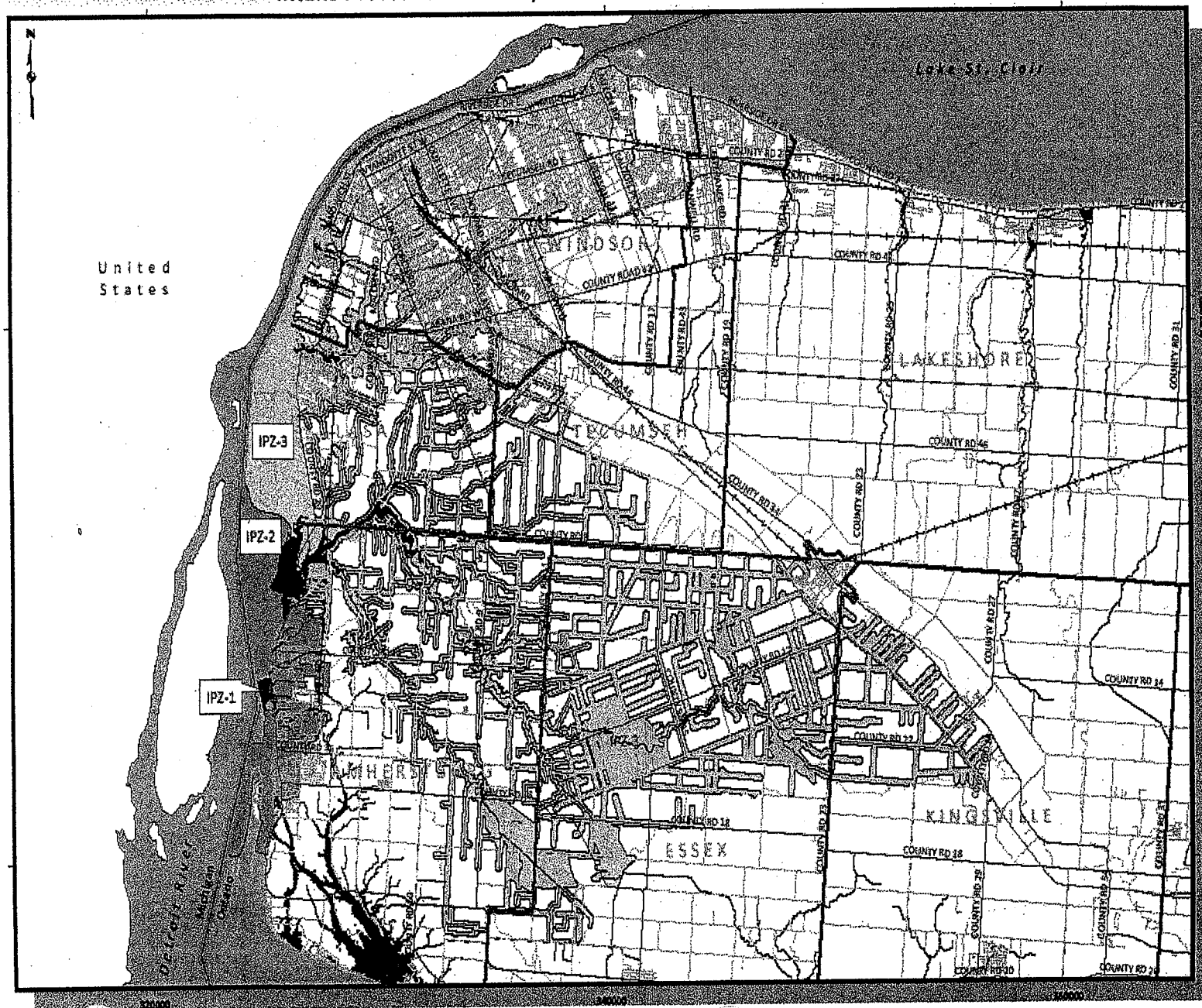

Essex Region Source Protection Area Assessment Report Map 4.38b

Legend

- Intake - Type B
- Drinking Water System
- Municipal, Lower Tier
- International Boundary
- Road
- Railway
- Water and Drainage
- Water Body

Intake Protection Zones

- IPZ-1
- IPZ-2
- IPZ-3

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Source Water Threats – City of Windsor

- Existing 'significant threats' associated with **sewage discharges in Windsor IPZ -1 and IPZ-2** – several other types of potential 'significant threats', although less likely to occur – some precluded by existing/permitted land uses
- Studies have shown that **large above grade fuel tanks** may be 'significant threats' in all IPZs for Windsor, Amherstburg Lakeshore, and Stoney Point water intakes (several existing fuel facilities, also potential future)
- Transportation corridor threats – fuel, solvents, pesticides, fertilizers (only fuel is 'Significant' based on studies to date)

Source Water Protection Plan Policies

- The SP Plan is **required to have policies for significant threats** and *may* include policies for moderate and low threats
- Includes policies for spills on transportation corridors
- Very important to SPC/MWG that local costs be reasonable
- Policy approaches – where possible, use existing 'Provincial Instruments' (most common approach)
- For some threats (e.g. Fuel, Storage of Pesticides, others) the CW Act does not allow Policies which place requirements on Provincial organizations – need special CW Act Policies

Policies Involving City of Windsor

- Several policies which rely on existing Land Use Planning measures (where significant threats currently precluded) and one policy regarding Planning Department's intent to include information in Official Plan - no changes to OP Policies, ZBL
- Several policies for existing sewage threats – reflecting City's intent to complete sewer management plan in next few years; continue with sewer separation programs, education/outreach
- Continue MOE's existing requirements in the C of A, for Little River Pollution Control Plant – very minor additional sampling
- Monitoring policies and annual reporting on implementation

Policies - City of Windsor – Cont'd

- Update emergency plans, etc. (encouraged - ERCA working with County Emergency Mgmt. Coordinator for 'template')
- Assist Essex Region Conservation Authority in developing a regional inventory of large fuel storage sites
- Installation of signage in IPZs - if provided by MTO (may involve main Roads, Provincial Highways – TBC)
- Approximately 5 person weeks/year for all of above, including monitoring policies on previous slide (excludes OP update)

Policies - City of Windsor – Cont'd

- Municipalities to designate '**Risk Management Official**' (RMO)
- Clean Water Act Policy – for Significant Threat - Storage and handling of **fuel** (large quantities above ground). Applies to extensive IPZs of all intakes in Detroit River and Lake St. Clair
- Several other CW Act policies – either 'manage' threat activities or 'prohibit' where very unlikely to occur in Windsor IPZs
- RMO mainly to obtain documentation demonstrating compliance with requirements of TSSA, Pesticides Act, etc.
- Approximately 3 person weeks/yr. (plus 3-4 weeks training)

Policies to be Implemented by ERCA

- Regional inventory of large fuel storage sites
- Encourage/assist with updating emergency/spills response plans – municipalities, others (e.g. fuel suppliers, dispatchers)
- Education & Outreach – broad based Regional initiatives regarding potential threats, etc., as well as contacting and informing affected owners and others regarding specific significant threat policies
- Stewardship programs – seek Provincial funding to assist landowners, municipalities (e.g. downspout disconnections)

Risk Management Official Services

- ERCA Board Resolution – offer of ERCA to provide this service for municipalities, and request Provincial funding
- Cost-effectiveness, economies of scale, consistency
- ERCA staff will already be contacting affected owners, fuel suppliers, TSSA, Ministries; compiling inventories of sites, etc.
- At the same time, can readily ask for documentation of compliance with existing requirements – TSSA, Pesticides Act, etc. (familiarity with SP Plan requirements)
- Annual reporting required to SPC, SPA (ERCA Board)
- 3-4 weeks of special training required

SOURCE WATER PROTECTION

Essex Region Conservation Authority

Consultation Process – Draft Policies and Source Protection Plan

- Current 'Pre-consultation' on draft policies through end January
- Public meetings – March
- Formal Consultation on Draft SP Plan in May
- Formal Consultation on final proposed Plan in July
- Deadline for submission of Plan to MOE - August

SOURCE WATER PROTECTION

Essex Region Conservation Authority

Requested Council Response

- Endorse and comment on draft policies as described in December 23 Notice
- Municipality's support for ERCA's role in assisting with implementation of Source Protection Plan, including RMO services
- Encourage Provincial funding to support ERCA's role in assisting with implementation of the SP Plan

Questions?