

A banner at the top of the slide showing the Union Jack flag waving over a landscape with mountains and water.

Metro Vancouver **Invasive Plant Early Detection Rapid Response 2025 Operational Update**

Presented by Becky Brown, P.Ag.
Invasive Plant Specialist – Provincial EDRR Coordinator
B.C. Ministry of Forests

May 28, 2025



OVERVIEW

- B.C. Invasive Species Early Detection Rapid Response -
 - Metro Vancouver EDRR Plants -
 - 2025 Operational Update -

INVASIVE SPECIES EARLY DETECTION RAPID RESPONSE

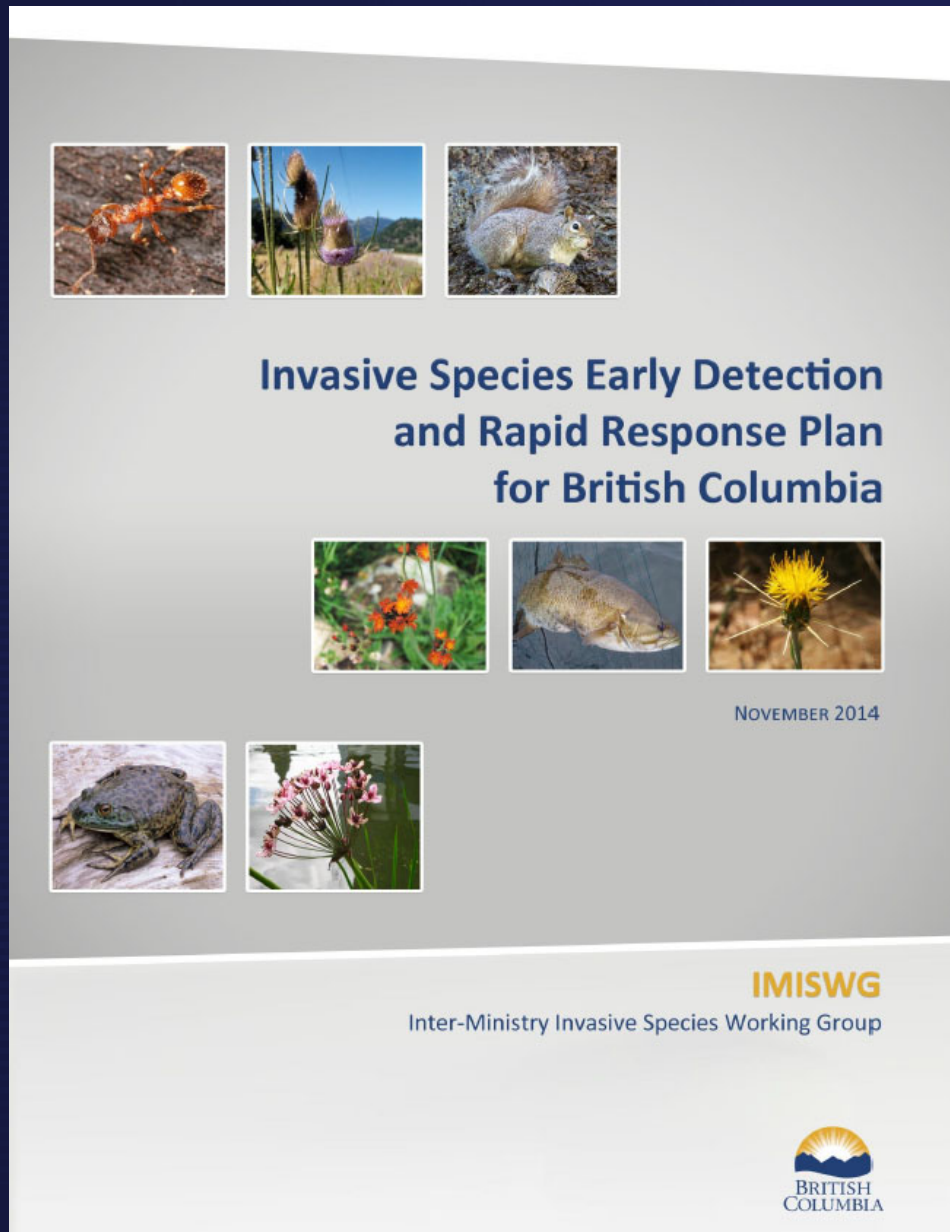


FIGURE 1: 6 STEPS OF THE BC EDRR PROCESS



INVASIVE SPECIES EARLY DETECTION RAPID RESPONSE

ERADICATION CANDIDATE SPECIES

**Terrestrial and aquatic species known to be invasive and
damaging and not known to occur in BC or present in
limited amounts.**



EDRR INVASIVE PLANTS – METRO VANCOUVER

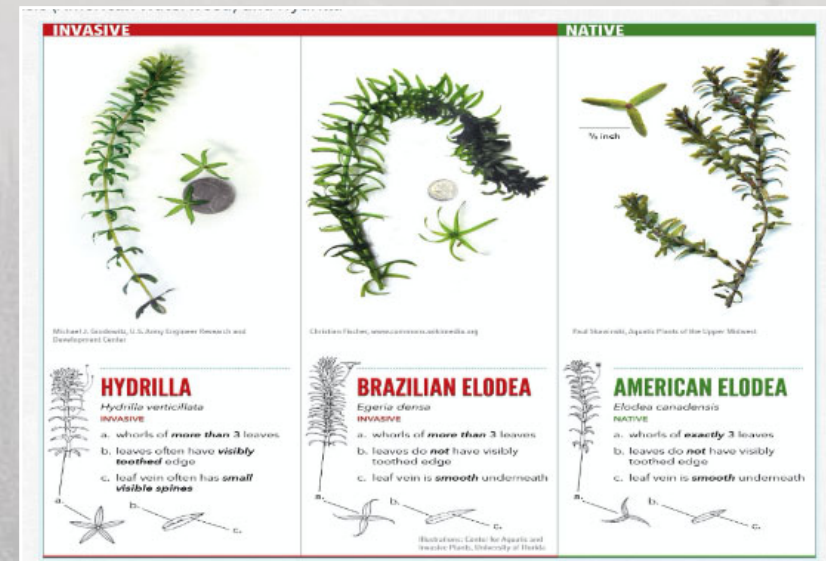
- 14 EDRR plant species confirmed present
 - Brazilian elodea (2)
 - Dyer's woad (1)
 - Eggleaf spurge (7)
 - Flowering rush (1)
 - Goat's rue (7)
 - Mouse-ear hawkweed
 - Paterson's curse (1)
 - Perennial pepperweed
 - *Phragmites* (11)
 - *Spartina anglica*
 - *Spartina patens*
 - Water hyacinth (2)
 - Water lettuce (1)
 - Yellow floating heart (13)

BRAZILIAN ELODEA (*Egeria densa*)

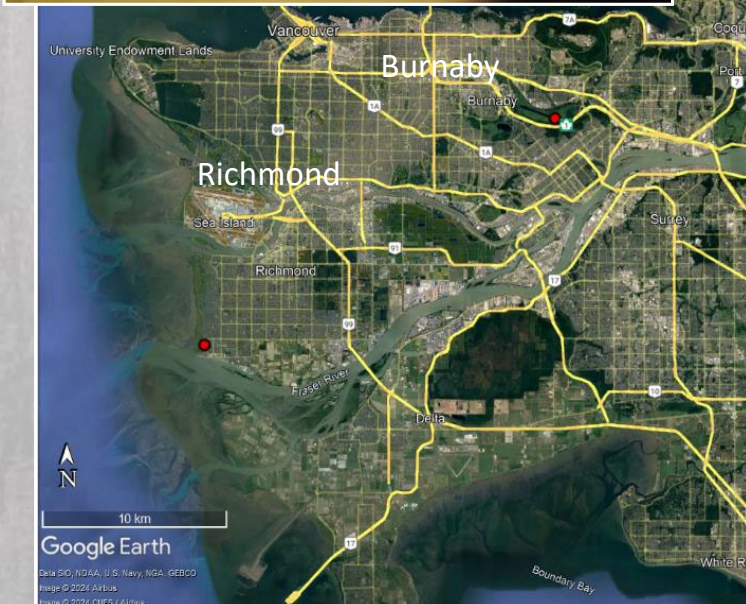


- 1 – Richmond
 - Mech. trmts 2016-2019
 - No Weed Found since 2020= monitoring

- 1 – Burnaby
 - Extent confirmed in 2024



- Effective small-scale mechanical treatments
= Micro-suction dredging + over-winter dewatering
- Large-scale treatment methods TBD



Species Alert: https://www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/alerts/brazilian_elodea_alert.pdf

DYER'S WOAD (*Isatis tinctoria*)



- 1 – Metro Vancouver
 - Mech. trmts 2019-2020
 - No Weed Found since 2021 = monitoring
- Occasionally cultivated as a source for indigo dye
- Non-palatable, allelopathic, capable of spreading aggressively across rangelands
- Small, yellow cross-shaped flowers in terminal clusters on branch tips
- Up to 1.2 m tall
- Stem leaves lance-shaped, alternating, stalkless



EGGLEAF SPURGE (*Euphorbia oblongata*)



- 6-City Vancouver
- 1-North Vancouver

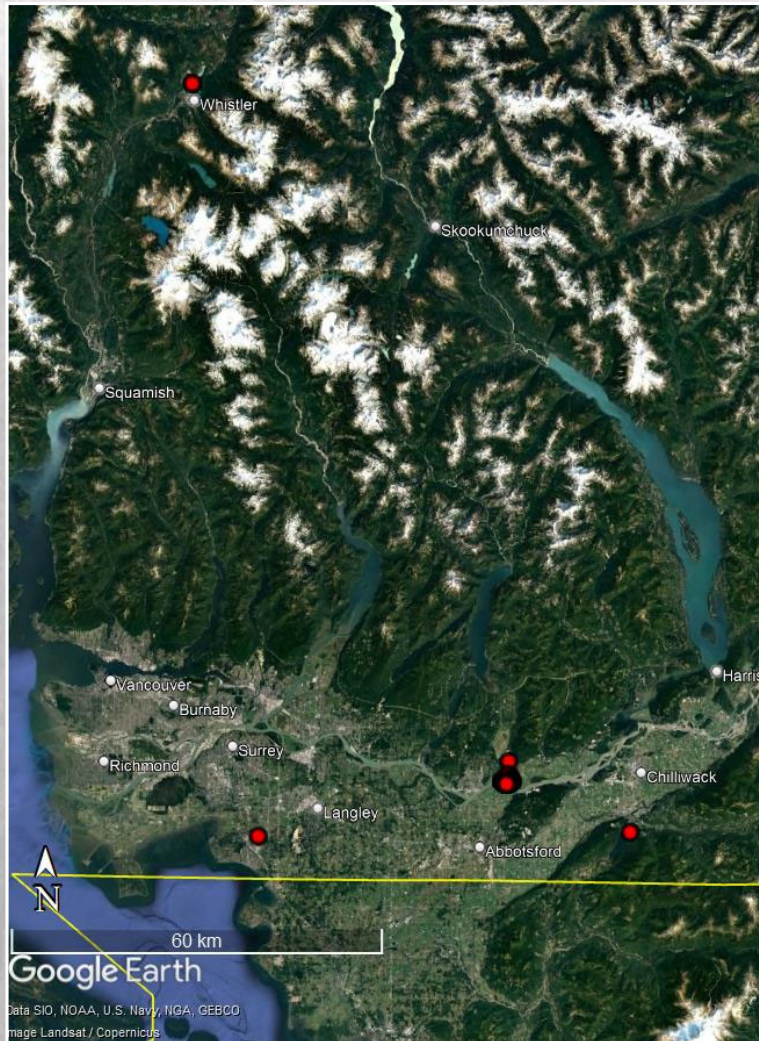


- Look-alikes field key

Species Alert:

https://www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/alerts/euphorbia_oblongata_alertsheet.pdf

FLOWERING RUSH (*Butomus umbellatus*)



- 1 population Hatzic Lk (east of Mission)
- 1 pop. Mission pond
- 1 pop. Chilliwack golf course
- 1 pop. South Surrey golf course
- 1 pop. Whistler golf course
- All populations contained and under management



Species Alert: www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/alerts/flowering_rush_alert_2019_dec_17.pdf

GOAT'S RUE (*Galega officinalis*)

- Seeds federally regulated
- 6-Vancouver, 1-Coquitlam
- All confirmed sites treated and contained
- Perennial
- Toxic to livestock and wildlife
- Look-alike: Vetches are not upright and have tendrils on the leaf tips
- Check seed certificates prior to purchase!



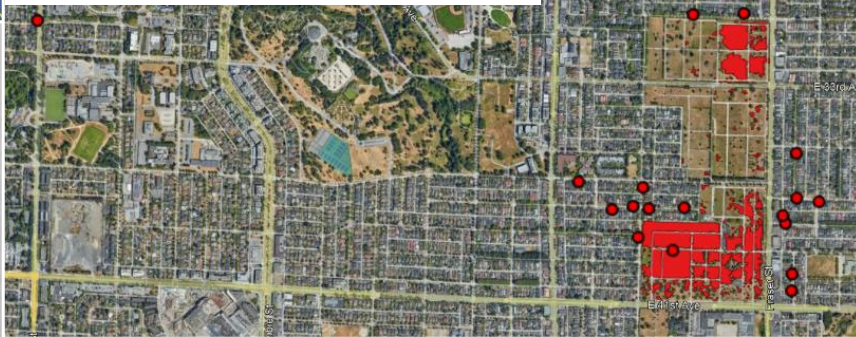
CFIA Species Bulletin:

<https://inspection.canada.ca/plant-health/seeds/seed-testing-and-grading/seeds-identification/galega-officinalis/eng/1405080573911/1405080574833>

MOUSE-EAR HAWKWEED (*Hieracium pilosella*)



Map insert: Vancouver Mouse-ear
Hawkweed Distribution



- 94% of Mouse-ear present in BC is in Metro Van
- 21-Vancouver
- 2-Skagit Valley
- 1-Chilliwack

Species Alert: https://www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/alerts/mouse_ear_hawkweed_alert_june_2020.pdf

PATERSON'S CURSE (*Echium plantagineum*)

- Federally regulated plant pest
- 1-Delta, only occurrence in western CAN
- Look-alike: Blueweed
- Degrades pastures, reduces crop yield, contaminates honey, toxic to animals and humans if consumed

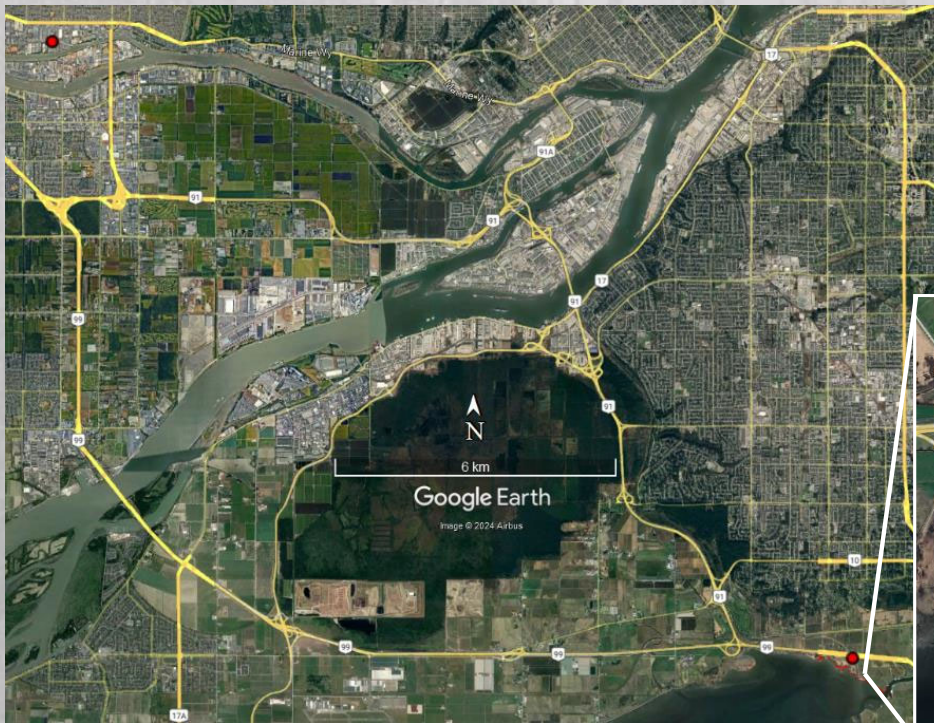


CFIA Species Bulletin:

<https://inspection.canada.ca/en/plant-health/invasive-species/invasive-plants/invasive-plants/paterson-s-curse>

PERENNIAL PEPPERWEED (*Lepidium latifolium*)

- 3-Delta
- 1-Vancouver
- All occurrences confirmed and treated in 2023 and 2024



Map insert: Mud Bay Perennial
Pepperweed Distribution

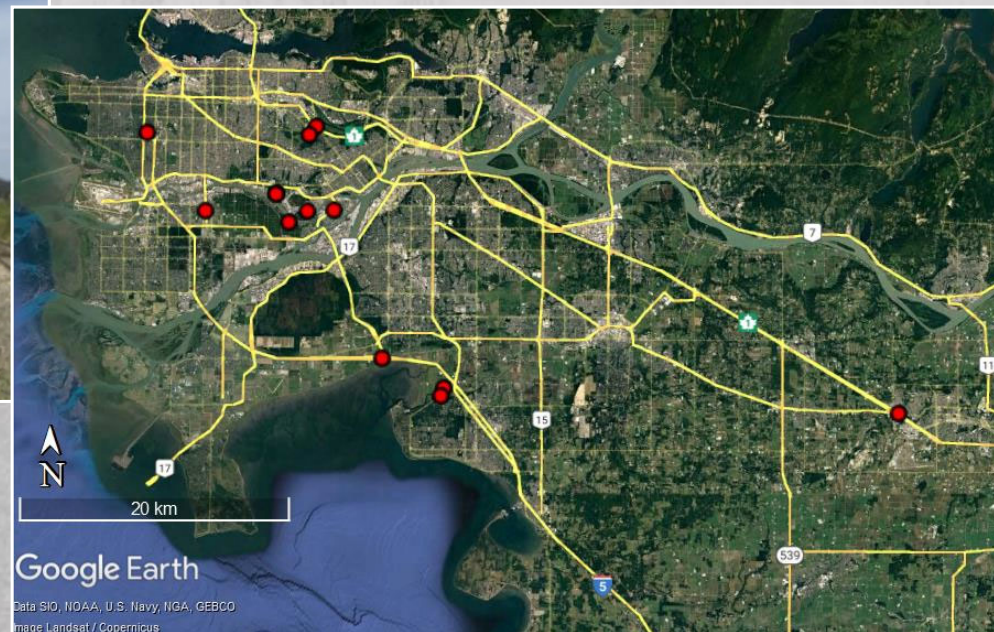


Species Alert: www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/alerts/perennial_pepperweed_alert.pdf

EUROPEAN COMMON REED (*Phragmites australis ssp. australis*)



- 1-Abbotsford
- 2-Burnaby
- 2-Delta
- 1-New Westminster
- 3-Surrey
- 2-Richmond



Species Alert: www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/alerts/phragmites_weed_alert.pdf

INVASIVE INTERTIDAL CORDGRASS (*Spartina spp.*)



Spartina anglica

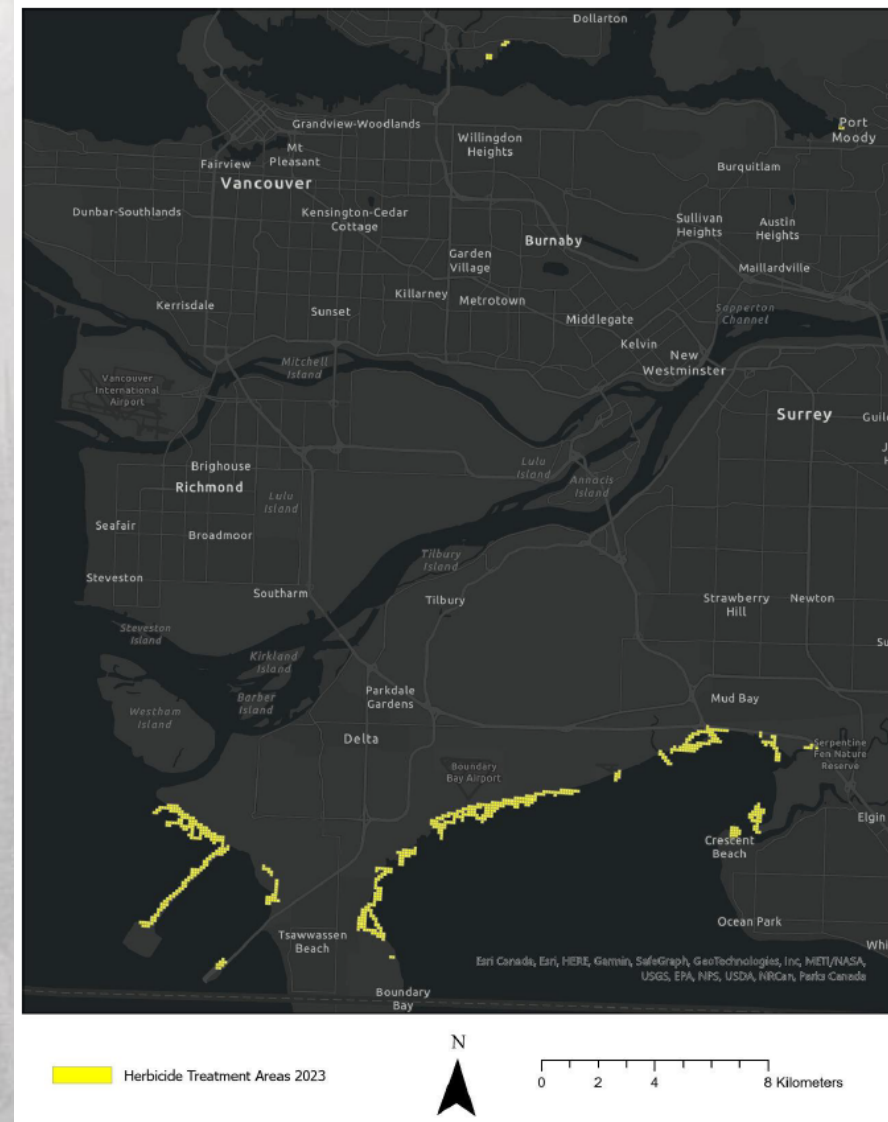
- *Spartina anglica*
 - 0.05 ha dispersed across 248 ha
- *Spartina patens*
 - 0.01 ha dispersed across 13 ha



Ducks Unlimited Canada

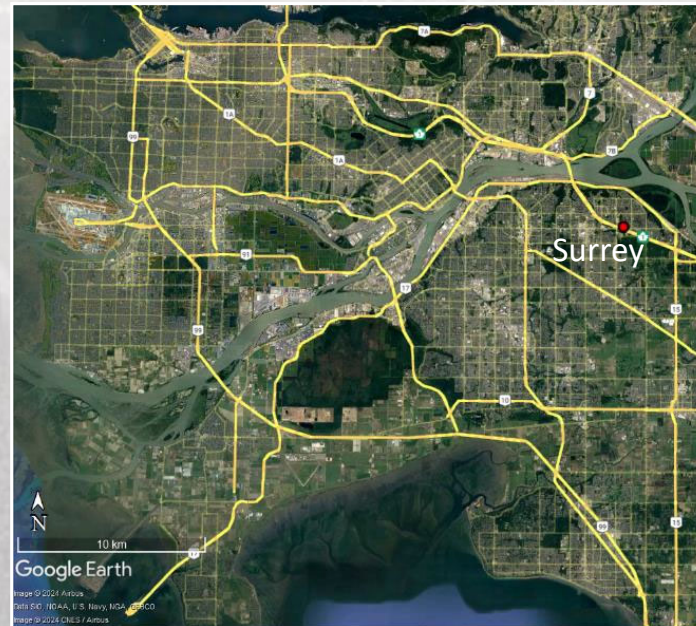
Spartina patens

- Boundary Bay
- Robert's Bank
- Burrard Inlet



Species Alert: www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/alerts/english_cordgrass_alert.pdf

WATER LETTUCE (*Pistia stratiotes*)



- No plants detected since 2019
=> monitoring
- Surrey - 1 occurrence of each species in confined pond
- Abbotsford - 1 occurrence of each species in confined ponds

WATER HYACINTH (*Eichhornia crassipes*)

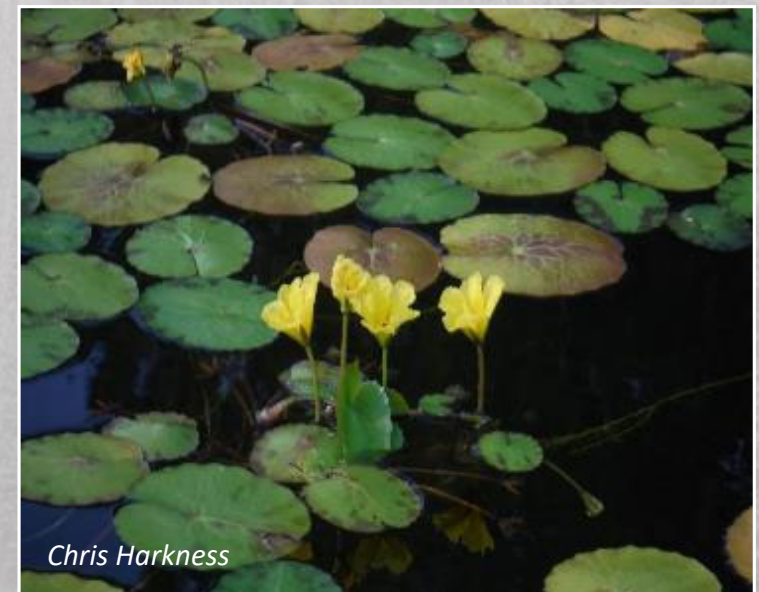
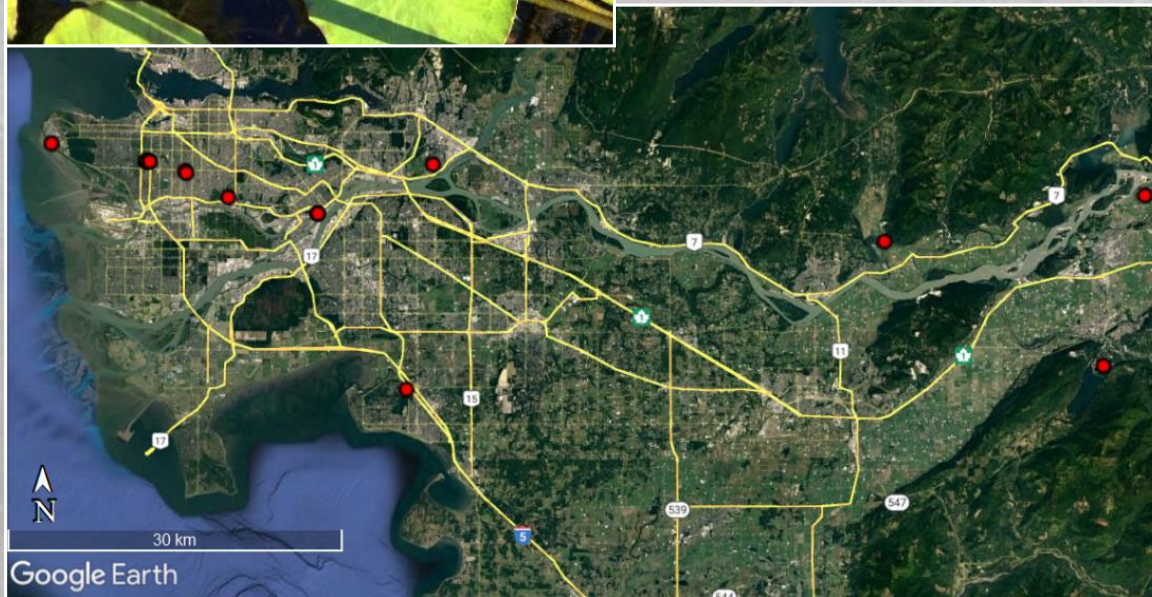


- No plants detected since 2020
=> monitoring

YELLOW FLOATING HEART (*Nymphoides peltata*)



- ProcellaCOR FX confined aquatic herbicide treatments starting in 2025!
 - 1-Mission
 - 1-Chilliwack
 - 1-South Surrey
 - 9-City Vancouver
 - 2-New Westminster
 - 1-Coquitlam



Species Alert: www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/invasive-species/alerts/yellowfloatingheart_alertsheet.pdf

IF FOUND...REPORT!

GIANT REED (*Arundo donax*)

- Federally prohibited
- No known active sites in B.C.
- Previously sold in wholesale nursery
- Previously grown in public gardens on South Coast
- Please report new sites!



CFIA Species Bulletin:

<https://inspection.canada.ca/plant-health/invasive-species/invasive-plants/invasive-plants/giant-reed/eng/1557939393747/1557939394042>

Report Invasive Species

- Invasive Species Reports:
www.gov.bc.ca/invasive-species
 - Smartphone app
 - Online form
- Phone
 - Toll free: **1-877-855-3222** to access a prov. govt. invasive species specialist



A decorative banner at the top of the slide featuring the British Columbia flag (a red saltire on a white field with blue and red horizontal stripes) and a stylized landscape with mountains and a body of water.

Conclusion

- B.C. Invasive Species Early Detection Rapid Response -
 - Metro Vancouver EDRR Plants -
 - 2025 Update -



THANK YOU!

Becky Brown, P.Ag.

Invasive Plant Specialist – Provincial EDRR Coordinator
B.C. Ministry of Forests

Becky.N.Brown@gov.bc.ca

250-739-8206