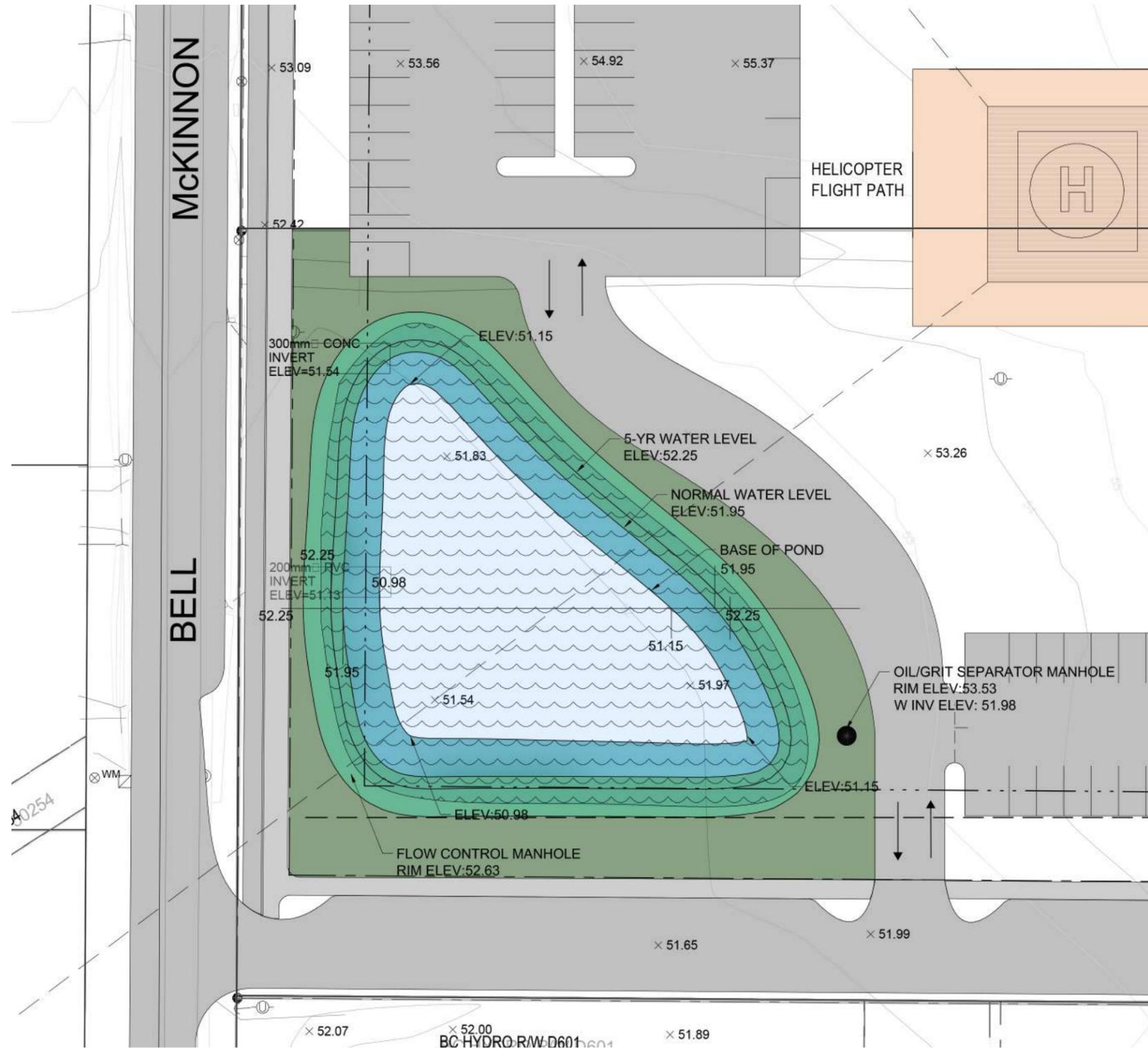


**Cowichan District Hospital Replacement Project  
SCHEDULE 2: ALLIANCE WORKS AND PROJECT DESCRIPTION  
PROJECT ALLIANCE AGREEMENT  
September 9, 2022**

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**APPENDIX 20 PLANT LIST  
EXECUTION VERSION  
SEPTEMBER 9, 2022**

# CONCEPTUAL DESIGN - PLANTING ZONES



## LEGEND



### Emergent Vegetation

- Common Rush - *Juncus effusus*
- Cattail - *Typha latifolia*
- Slough sedge - *Carex obnupta*



### Moist Riparian

- Red-osier dogwood - *Cornus stolonifera*
- Salal - *Gaultheria shallon*
- Salmonberry - *Rubus spectabilis*
- Hooker's willow - *Salix hookeriana*
- Sword fern - *Polystichum munitum*



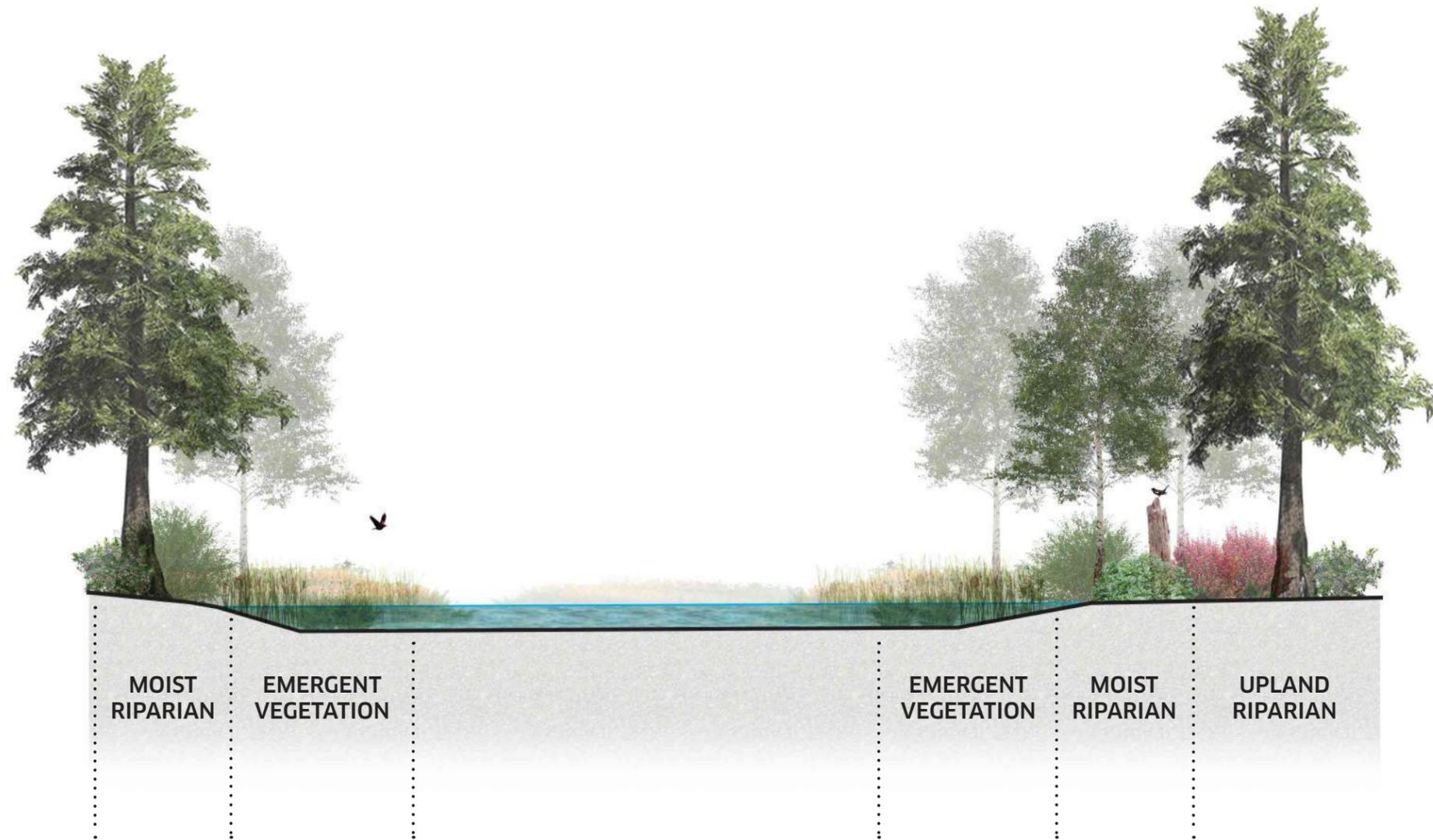
### Upland Riparian

- Saskatoon - *Amelanchier alnifolia*
- Mock orange - *Philadelphus lewisii*
- Red-flowering currant - *Ribes sanguineum*
- Nootka rose - *Rosa nutkana*
- Evergreen huckleberry - *Vaccinium ovatum*

### Riparian Trees

- Western red cedar - *Thuja plicata*
- Red alder - *Alnus rubra*
- Black hawthorn - *Crataegus douglasii*
- Douglas maple - *Acer glabrum*

# CONCEPTUAL DESIGN - WETLAND SECTION



## LEGEND

### Emergent Vegetation

- Common Rush - *Juncus effusus*
- Cattail - *Typha latifolia*
- Slough sedge - *Carex obnupta*

### Moist Riparian

- Red-osier dogwood - *Cornus stolonifera*
- Salal - *Gaultheria shallon*
- Salmonberry - *Rubus spectabilis*
- Hooker's willow - *Salix hookeriana*
- Sword fern - *Polystichum munitum*

### Upland Riparian

- Saskatoon - *Amelanchier alnifolia*
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### Riparian Trees

- Western red cedar - *Thuja plicata*
- Red alder - *Alnus rubra*
- Black hawthorn - *Crataegus douglasii*
- Douglas maple - *Acer glabrum*

# CONCEPTUAL DESIGN PLANT PALETTE

## Emergent Vegetation



Common Rush



Cattail



Slough sedge

## Moist Riparian



Red-osier dogwood



Salal



Salmonberry



Hooker's willow



Sword fern

## Upland Riparian



Saskatoon



Mock orange



Red-flowering currant



Nootka rose



Evergreen huckleberry

## Riparian Trees



Western red cedar



Red alder



Black hawthorn



Douglas maple

# CDH - RECOMMENDED PLANT LIST

Cowichan Hospital Recommended Trees	Native Tree	Riparian	Toxicity/ Known Hazards
<i>Acer glabrum</i> – Douglas maple	✓	✓	none known
<i>Acer macrophyllum</i> – Bigleaf maple Cowichan: Ts' alhulhp	✓	✓	none known
<i>Alnus rubra</i> – Red alder Saanich: kwlóle7 Cowichan: Kwulala-ulhp	✓	✓	The freshly harvested inner bark is emetic but is alright once it has been dried.
<i>Arbutus menziesii</i> – Arbutus Saanich: k'exwílhts Cowichan: Qaanlhp	✓		none known
<i>Crataegus douglasii</i> – Black hawthorn Saanich: máts'inilhts Cowichan: Metth'unuhlp	✓	✓	none known
<i>Juniperus communis</i> – Common juniper Saanich: p'ep'th'ená7ilhts Cowichan: Shelhuq'tsus p-tth'une'yulhp	✓		Although the fruit of this plant is quite often used medicinally and as a flavouring in various foods and drinks, large doses of the fruit can cause renal damage. Juniper should not be used internally in any quantities by pregnant women. Diarrhea with repeated use. Avoid in kidney disease.
<i>Pinus contorta</i> var. <i>contorta</i> – Shore pine Cowichan: Qw'iyulushulhp	✓		The wood, sawdust and resins from various species of pine can cause dermatitis in sensitive people.
<i>Pinus monticola</i> – Western white pine Cowichan: Ts'qe'ulhp	✓		The wood, sawdust and resins from various species of pine can cause dermatitis in sensitive people.
<i>Pseudotsuga menziesii</i> ssp. <i>mensiesii</i> – Douglas fir Saanich: ts'sáyilhts Cowichan: Ts'sey'	✓	✓	none known
<i>Quercus garryana</i> – Garry oak Cowichan: P'hwulhp	✓		none known
<i>Thuja plicata</i> – Western red cedar Saanich: xpaý(ilhts) Cowichan: Xpey'	✓	✓	none known

# CDH - RECOMMENDED PLANT LIST

Cowichan Hospital Recommended Shrubs	Native Plant	Wetland/ Riparian	Toxicity/ Known Hazards
<i>Amelanchier alnifolia</i> – Saskatoon Cowichan: Tushnets	✓	✓	none known
<i>Cornus canadensis</i> – Bunchberry	✓		none known
<i>Cornus sericea</i> – Red-osier dogwood Cowichan: Qw'si'unlhp Kwimkwim-mu-utth' (when branches are red)	✓	✓	none known
<i>Cornus sericea</i> 'Kelseyi' – Dwarf red-twig dogwood	✓	✓	none known
<i>Gaultheria shallon</i> – Salal Saanich: t'aka (7) Cowichan: T'eqe'	✓	✓	none known
<i>Holodiscus discolor</i> – Oceanspray Saanich: káthelhp Cowichan: Qethulhp	✓	✓	none known
<i>Ledum groenlandicum</i> – Labrador tea Saanich: mókwem ti7 Cowichan: Me'uhwulhp	✓	✓	Plants contain a narcotic toxin called Ledel. This toxin only causes problems if the leaves are cooked for a long period in a closed container.
<i>Mahonia nervosa</i> – Dull Oregon-grape Saanich: séni7ilhts Cowichan: Suniiulhp	✓		none known
<i>Philadelphus lewisii</i> – Mock-orange Cowichan: S-tth'ulhp	✓	✓	none known
<i>Ribes laxiflorum</i> – Trailing black currant Cowichan: T'em'hw	✓		none known
<i>Ribes sanguineum</i> – Red-flowering currant Cowichan: Sqwuliius	✓	✓	none known
<i>Rosa gymnocarpa</i> – Baldhip rose Cowichan: Xwiinlhp	✓	✓	There is a layer of hairs around the seeds just beneath the flesh of the fruit. These hairs can cause irritation to the mouth and digestive tract if ingested.

<i>Rosa nutkana</i> – Nootka rose Cowichan: Qel'qulhp	✓	✓	There is a layer of hairs around the seeds just beneath the flesh of the fruit. These hairs can cause irritation to the mouth and digestive tract if ingested.
<i>Rubus chamaemorus</i> - Cloudberry	✓		none known
<i>Rubus spectabilis</i> – Salmonberry Saanich: elile7ilhts Cowichan: Lila'	✓	✓	none known
<i>Salix hookeriana</i> – Hooker's willow Saanich: sxwelí7ilhts Cowichan: S-hwele'ulhp	✓	✓	none known
<i>Salix lucida</i> ssp. <i>lasiandra</i> – Pacific willow Saanich: sxwelí7ilhts Cowichan: S-hwele'ulhp	✓	✓	none known
<i>Salix sitchensis</i> – Sitka willow Saanich: sxwelí7ilhts Cowichan: S-hwele'ulhp	✓	✓	none known
<i>Spirea douglasii</i> ssp. <i>douglasii</i> – Hardhack Cowichan: Stth'ulhp	✓		none known
<i>Vaccinium ovalifolium</i> – Oval-leaved blueberry Cowichan: Yey'xum	✓		none known
<i>Vaccinium ovatum</i> – Evergreen huckleberry	✓	✓	none known
<i>Vaccinium ovatum</i> 'Thunderbird' – Thunderbird huckleberry	✓	✓	none known
<i>Vaccinium parvifolium</i> – Red huckleberry Cowichan: Sqw'uqwtsus	✓		none known

# CDH - RECOMMENDED PLANT LIST

## Cowichan Hospital Perennials and Grasses

	Native Plant	Wetland/ Riparian	Toxicity/ Known Hazards
<i>Achillea millefolium</i> - Yarrow Saanich: tliihlhwep Cowichan: T'uliqw'ulhp	✓		Extended use of this plant, either medicinally or in the diet, can cause allergic skin rashes or lead to photosensitivity in some people. Theoretically yarrow can enhance the sedative effects of other herbs (e.g. valerian, kava, German chamomile, hops) and sedative drugs. Possible sedative and diuretic effects from ingesting large amounts
<i>Anaphalis margaritacea</i> – Pearly everlasting	✓		none known
<i>Aquilegia formosa</i> – Western columbine Cowichan: T'umasa'	✓		Although no records of toxicity have been seen for this species, it belongs to a family that contains a number of mildly toxic species. It is therefore wise to exercise some caution. The flowers are probably perfectly safe to eat.
<i>Aster subspicatus</i> – Douglas aster	✓		none known
<i>Athyrium filix-femina</i> – Lady fern Cowichan: lék'lek'ay	✓	✓	Although there are no known reports of toxicity for this species, a number of ferns contain carcinogens so some caution is advisable. The fresh shoots contain thiaminase, an enzyme that robs the body of its vitamin B complex. In small quantities this enzyme will do no harm to people eating an adequate diet that is rich in vitamin B, though large quantities can cause severe health problems. The enzyme is destroyed by heat or thorough drying, so cooking the plant will remove the thiaminase.
<i>Blechnum spicant</i> – Deer fern Saanich: sthxálem Cowichan: sthxálem	✓		Although there are no known reports of toxicity for this species, a number of ferns contain carcinogens so some caution is advisable. Many ferns also contain thiaminase, an enzyme that robs the body of its vitamin B complex. In small quantities this enzyme will do no harm to people eating an adequate diet that is rich in vitamin B, though large quantities can cause severe health problems. The enzyme is destroyed by heat or thorough drying, so cooking the plant will remove the thiaminase.
<i>Carex obnupta</i> – Slough sedge	✓	✓	none known
<i>Dodecatheon hendersonii</i> – Henderson's shooting star	✓		none known
<i>Epilobium angustifolium</i> – Willow herb	✓		An infusion of the leaves is said to stupefy a person.
<i>Juncus effusus</i> – Common rush (Scouring) Cowichan: Hwkw'ul'a	✓	✓	Possibly toxic to mammals. The pith of the stem is antiphlogistic, depurative, discutient, diuretic, febrifuge, lenitive, lithontripic, pectoral and sedative. It is used in the treatment of sore throats, jaundice, oedema, acute urinary tract infection and morbid crying of babies. Exercise caution.

<i>Lupinus polyphyllus</i> – Large-leaved lupine	✓		The seed of many lupin species contain bitter-tasting toxic alkaloids, though
			there are often sweet varieties within that species that are completely wholesome. Taste is a very clear indicator. These toxic alkaloids can be leached out of the seed by soaking it overnight and discarding the soak water. It may also be necessary to change the water once during cooking. Fungal toxins also readily invade the crushed seed and can cause chronic illness
<i>Maianthemum dilatatum</i> – False lily-of-the-valley	✓	✓	none known
<i>Maianthemum stellatum</i> – Star-flowered false Solomon's seal	✓		none known
<i>Mimulus lewisii</i> – Pink monkeyflower	✓	✓	none known
<i>Polystichum munitum</i> – Sword fern Saanich: sthxálem Cowichan: S-thxelum	✓	✓	Although there are no known reports of toxicity for this species, a number of ferns contain carcinogens so some caution is advisable. Many ferns also contain thiaminase, an enzyme that robs the body of its vitamin B complex. In small quantities this enzyme will do no harm to people eating an adequate diet that is rich in vitamin B, though large quantities can cause severe health problems. The enzyme is destroyed by heat or thorough drying, so cooking the plant will remove the thiaminase.
<i>Sedum oreganum</i> – Oregon stonecrop	✓		Although not poisonous, if large quantities of this plant are eaten it can cause a stomach upset.
<i>Typha latifolia</i> – Cattail Cowichan: Stth'e'qun	✓	✓	none known
<i>Tellima grandiflora</i> – Tall fringecup	✓	✓	none known
<i>Tiarella cordifolia</i> – Foam flower	✓	✓	none known