

DRINKING WATER AND WATERSHED PROTECTION TECHNICAL ADVISORY COMMITTEE MEETING



WATER BUDGET PROJECT

2 Projects/Study Areas

- Vancouver Island (RDN)
- **Gabriola, Mudge, & DeCourcy**
 - Partnership with Islands Trust
 - Slightly different deliverables



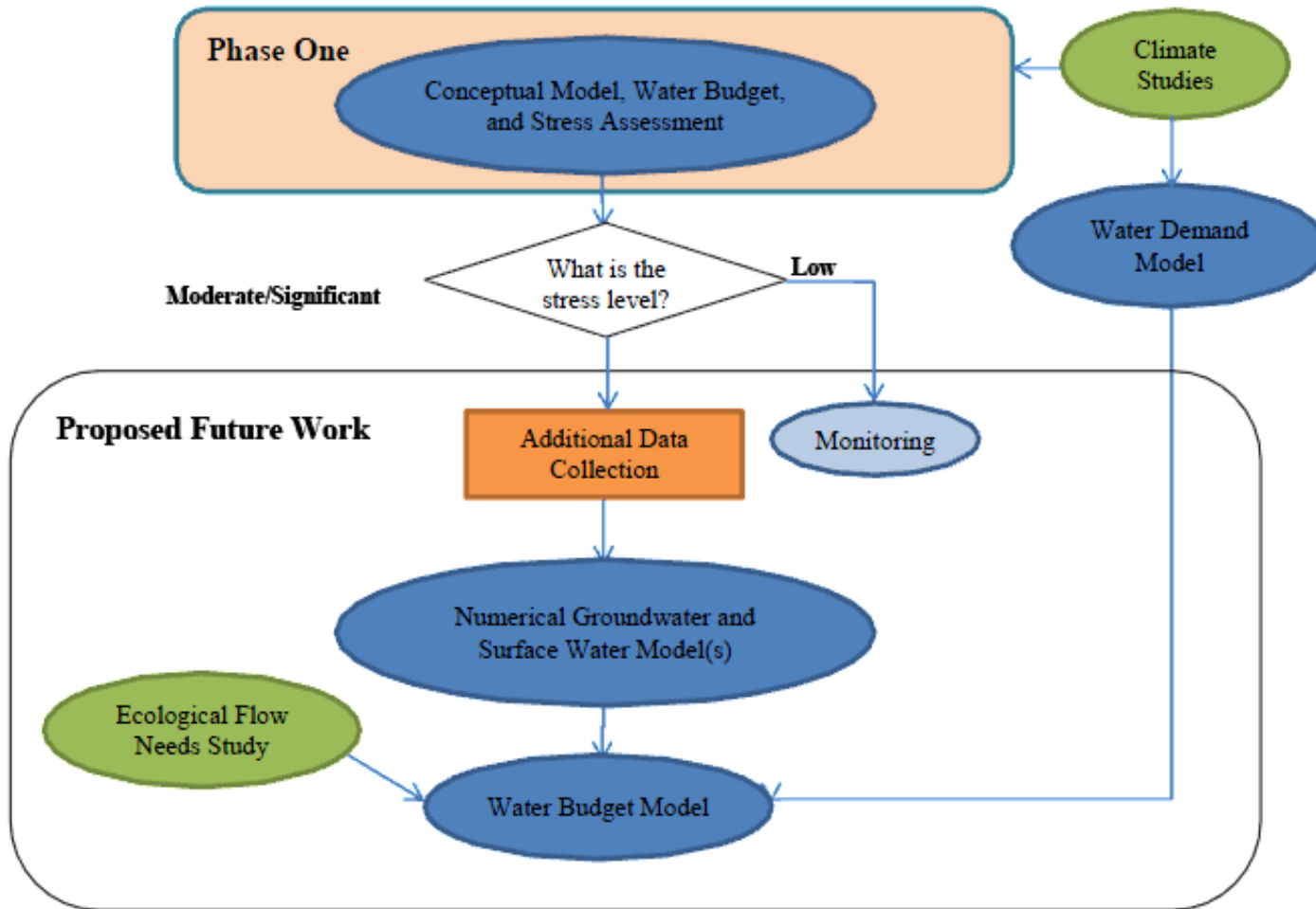
WATER BUDGET PROJECT

Four Main Components:

- 3 Dimensional Conceptual Model
- Water Budget
- Identification and Prioritization of Data Gaps
- Stress Assessment

WATER BUDGET PROJECT

Understanding Water Supply and Demand



WATER BUDGET PROJECT CONTRACTS

- Vancouver Island (RDN)
 - Waterline Resources
- Gabriola, Mudge, & DeCourcy
 - SRK



WATER BUDGET PROJECT VI UPDATE



February 14, 2012 Drinking Water and Watershed Protection Technical Advisory Committee meeting

OBSERVATION WELL EXPANSION UPDATE

Phase 1:

- Drilled 4 new wells
- Added 2 to unused network (Benson Meadows, TQB)
- In process of adding 3-4 unused RDN to network

Phase 2:

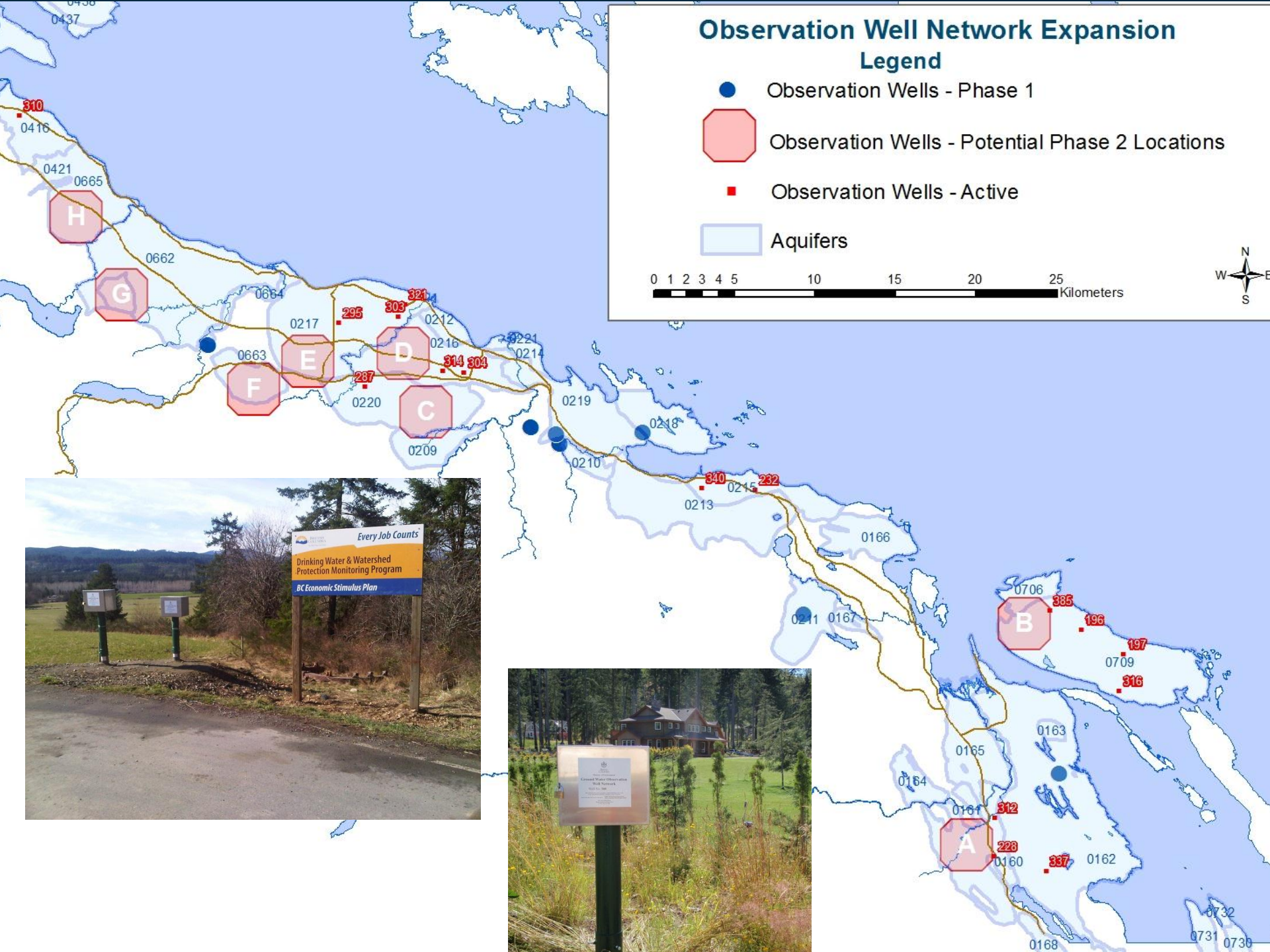
- Partnership between MFLNRO, GSC, RDN
- Plan: Drill 6 new wells
- Potential partnership w GSC - \$50,000 for coring
- Next Steps:
- Final Site Selection:
 - Working with GSC to align with seismic info, contacting property owners
- Finalize Invite to Quote
- Coring - summer

Observation Well Network Expansion

Legend

- Observation Wells - Phase 1
- ⬡ Observation Wells - Potential Phase 2 Locations
- Observation Wells - Active
- Aquifers

0 1 2 3 4 5 10 15 20 25 Kilometers



COMMUNITY WATERSHED MONITORING NETWORK



Collect high quality data on water quality to help understand impacts of land use on water quality and prioritize watersheds for future study

COMMUNITY WATERSHED MONITORING NETWORK



Collect Data on:

Turbidity

Temperature

Dissolved oxygen

Conductance

'5 in 30' in low & high flow

PARTNERSHIPS



Partnership between MOE,
RDN, stewardship groups, IT

MOE: Training, technical
direction, data analysis,
reporting

RDN: Equipment, stipend, data
entry, mapping

Community Groups:
monitoring, calibration, training

IT: Radios, safety equipment,
access

COMMUNITY PARTNERS

Nanaimo River: Nanaimo & Area Land Trust

Englishman River: Mid Vancouver Island
Habitat Enhancement Society

French Creek: Friends of French Creek

Grandon Creek, Beach Creek:
Qualicum Beach Streamkeepers

Little Qualicum River, Whiskey Creek:
Parksville-Qualicum Fish and Game (fall),
Qualicum Beach Streamkeepers (summer)

Thames Creek, Nile Creek: Nile Creek Enhancement Society

Departure Creek, Millstone, Chase River: Harbour City Stewards?



RESULTS

- Very consistent data collection
- Dates missed only due to fire closure
- Excellent field notes
- Quality Control
- 25 sites in 9 different watersheds
- Excellent cooperation between all partners
- Lots of feedback
- Awareness in community

Report available on RDN website within month



Team WaterSmart Update

WORKSHOPS



- 6 different workshops in 8 different areas across the RDN
- Cedar, Errington, Gabriola, Lighthouse, Nanoose Bay, Parksville, Qualicum Beach, Nanaimo
 - FREE for the public
 - Hands-on focus
 - Local experts presenting

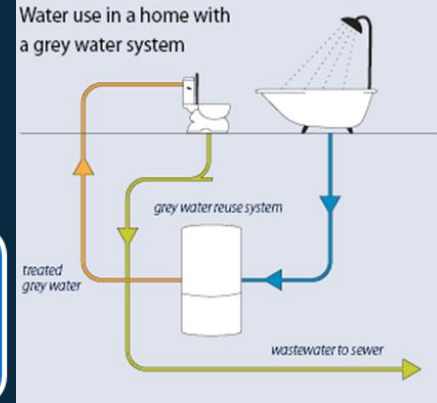
WORKSHOP TOPICS



Soil is a
Sponge!

Rainwater
Harvesting

Greywater
Re-Use



De-Tox Your
Home

Inspect Your
Irrigation
System



Water Wise
Veggie
Gardening

EFFICIENT IRRIGATION ROUND-TABLE

Workshop with representatives of
the ground crews from:

City of Parksville
City of Nanaimo
Town of Qualicum Beach
School Dist. 68
School Dist. 69

Discuss efficient irrigation
techniques & hardware, share
ideas, network, devise a list of
best practices



SCHOOL EDUCATION PROGRAM

Partnership with the Nanaimo
Recycle Exchange's Education
department

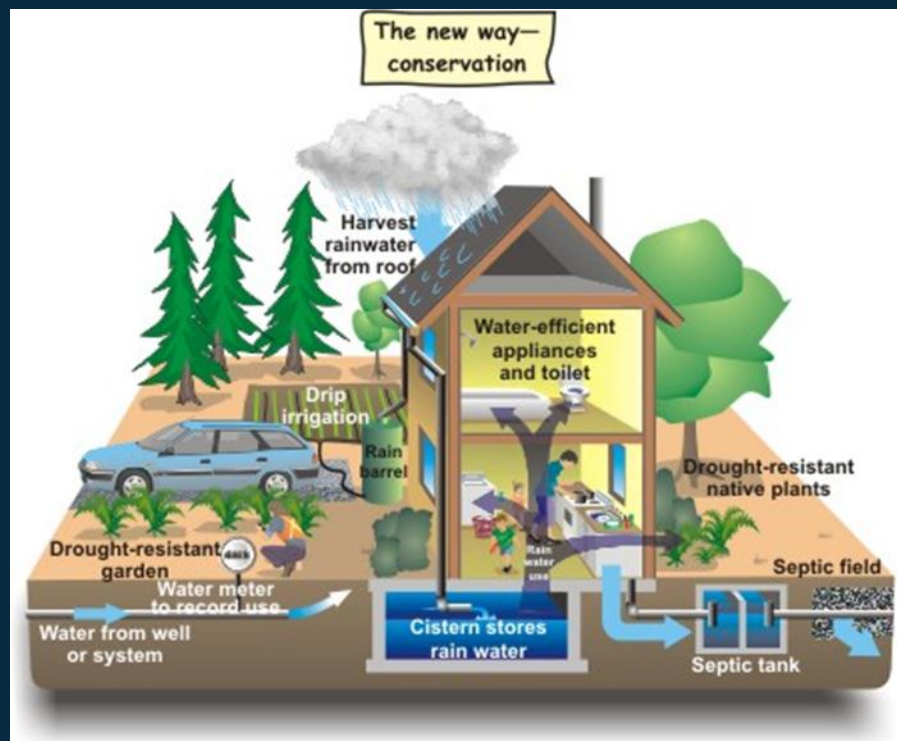


Expanding out from the
classroom to incorporate stream
walks as part of Watershed
Education.



UPDATED EVENT DISPLAY

- WaterSmart Garden
- WaterSmart Home
- What is a Watershed?



REBATE PROGRAMS

Toilet Rebate

- ✓ **1,122 low flow, dual flush or high efficiency toilets** have been installed in Electoral Area homes under our program
- ✓ The program has **saved over 39 million litres of water** since it was introduced in Oct 2009.

Rainwater Harvesting Incentive

- ✓ Successful in its pilot stage in 2011 (Gabriola Island & Yellow Point)
- ✓ Plan to continue & expand the program this year (\$30,000 in the budget)