



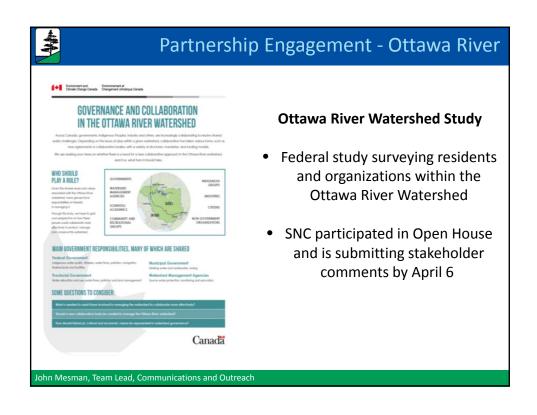






Stakeholder Engagement - Forest Conservation New: Forest Conservation Working Group

First Meeting: March 21 at 10:00 am







Engaging with Agricultural Producers



Dundas Federation of Agriculture AGM

March 12, 2018

Enhancing Flood and Drought Forecasting Tools in the South Nation River Watershed

Ronda Boutz, Team Lead, Special Projects



Sharing Knowledge







Drainage Day

Chesterville Legion Hall, 167 Queen St. Chesterville ON

Friday March 23 at 9:45 am

Geoff Owens – Regulations Officer



Strengthening Partnerships SNC will pick up 8 surface water baseline sites from City of Ottawa Public Works and Environmental Services Locations in Bear Brook and Castor River Subwatersheds Michelle Cavanagh, Team Lead, Stewardship



Informed Environmental Planning



McKinnon's Creek Catchment Report - available March 31, 2018

Brent Harbers, Stewardship Technician

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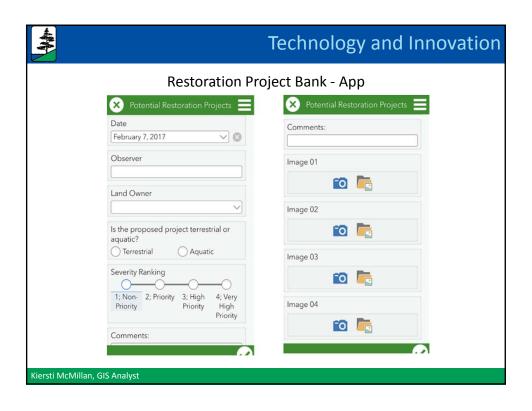
Informed Environmental Planning



Staff deploying sensors in Findlay Creek

- Staff planning 2018 field season to collect baseline data on North Castor
- Monitoring will include:
 - Water quantity (base flow, deployable sensors)
 - Water Quality (grab samples, deployable sensors)
 - Fisheries
 - Benthic invertebrates

Brent Harbers, Stewardship Technician







Keeping the Public Informed

Unseasonably above normal temperatures



Payne River County Rd 13 - April 6, 2014

Payne River Union St - February 22, 2018

Omar Kana'n, Water Resources Analyst

Keeping the Public Safe

Chesterville Dam Ice Buildup



Chesterville Feb 26, 2018



Chesterville Feb 27, 2018

Sandra Mancini, Team Lead, Engineering



Partnerships: Municipal Education

2018 Municipal Information Day



Thursday March 22, 2018 - 65 confirmed attendees

Laura Crites, Planning Assistant

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Community Outreach: Ottawa Valley Farm Show



- March 13 15, 2018
 EY Centre, Ottawa
- Promotion of Clean Water Grants Program

Holly Nyenkamp, Communications and Outreach Assistant



Community Outreach: Maple Weekend



- April 7 8, 2018
- SNC will be on-site at maple farms across the jurisdiction!

Holly Nyenkamp, Communications and Outreach Assistant

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Community Outreach: Annual Clean-Up



Cache-In-Trash-Out – Geocaching Community Clean-Up

- April 28, 2018
 - Clarence Creek
- Partnership with the Geocachers of Eastern Ontario

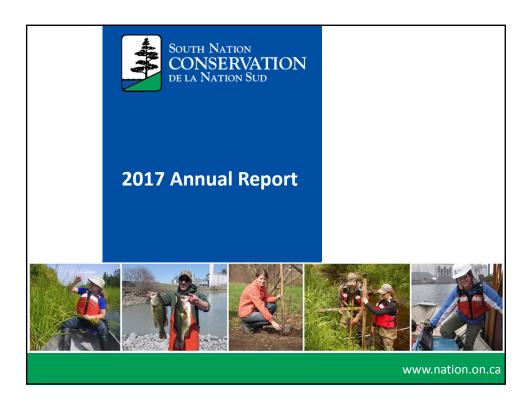
Kelsey Smith, Communications and Outreach Assistant

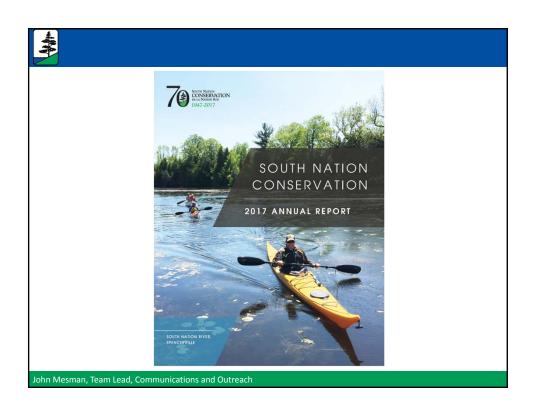


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Forecasting Watershed Conditions



St. Lawrence River - 2017 Edwardsburgh Cardinal

Services:

- Flood Forecasting and Warning
- Low Water Response

• SNC's role:

- Collect data and monitor local conditions
- Assess local conditions and weather forecast
- Provide advance notice to municipalities and residents

Sandra Mancini, Team Lead, Engineering



Enhanced Forecasting Project – aka AgriRisk

- Real-time forecasting model that will be able to predict soil moisture, groundwater levels, surface water levels and evaporation 14 days into the future
- The 14 day forecast will be accessed through an online portal
- Proof of concept model/dashboards for March 31st, 2018

Partners:











Sandra Mancini, Team Lead, Engineering

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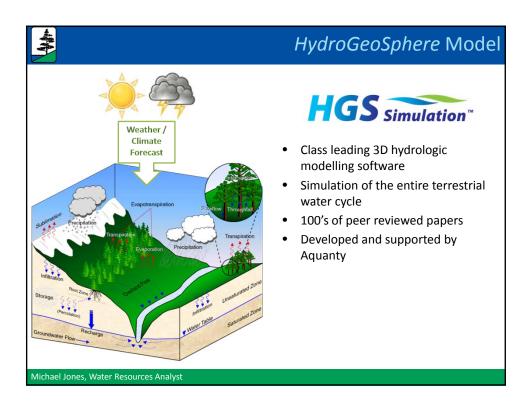
Improved Field Data

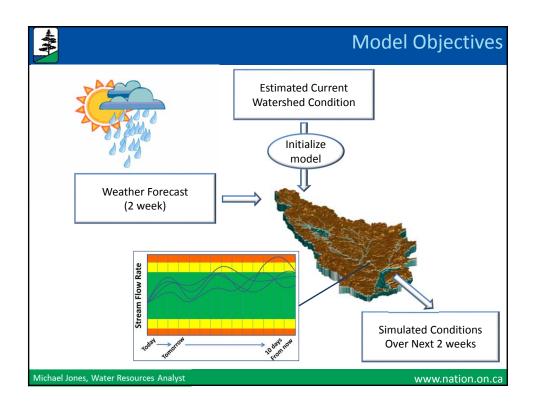


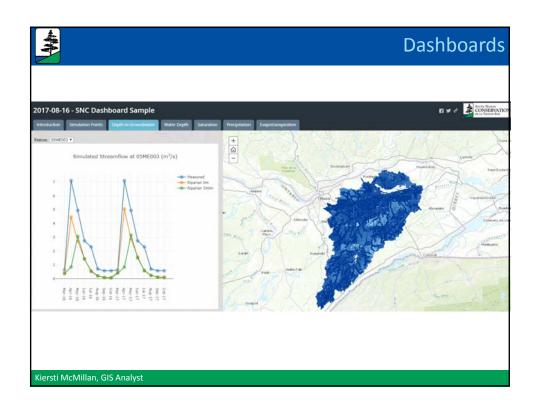
Installation of new real-time monitoring equipment, Winchester site

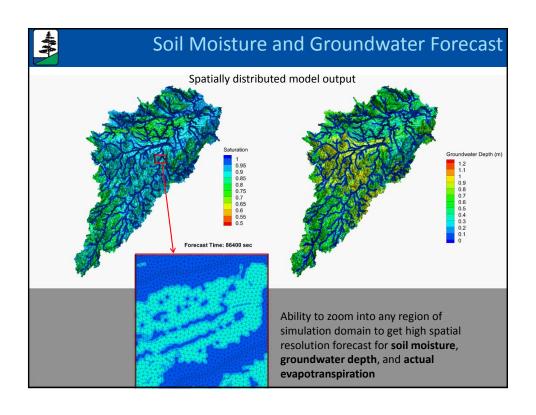
- 10 existing real-time stream flow gauges
- 11 upgraded monitoring stations to real-time
 - Temperature
 - Rain and snow equivalent
 - Groundwater levels
 - Soil moisture
- All water management database - WISKI

Sandra Mancini, Team Lead, Engineering











Communications and Outreach



Official announcement, August 23, 2017 Winchester Monitoring Site

- Official Announcement
- Article in Saskatchewan Business Magazine
- Presentations:
 - AgriRisk Forum
 - A.D. Latornell Conservation Symposium
 - Eastern Ontario Crop Conference
 - Geoscience Conference
 - Dundas Federation of Agriculture AGM
 - Municipal Information Day
 - Flood Forecasting and Warning
 Provincial Workshop (September 2019)

Ronda Boutz, Team Lead, Special Projects

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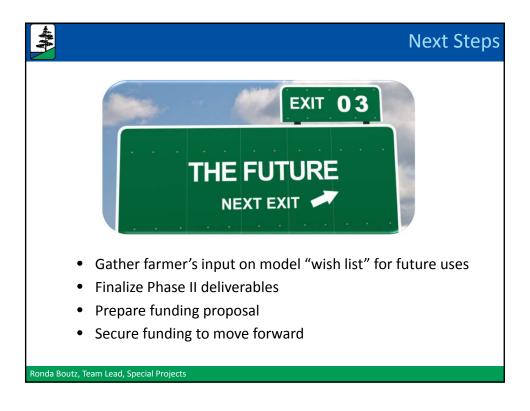


Future Development of the Model

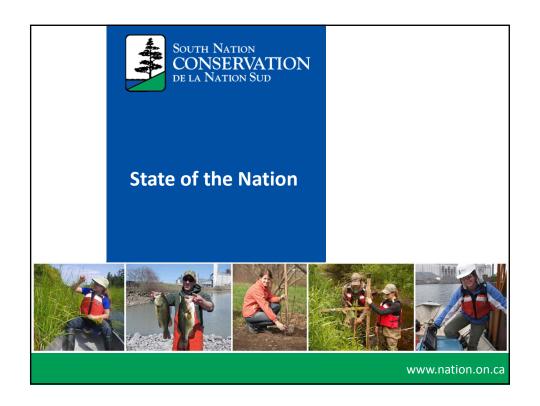


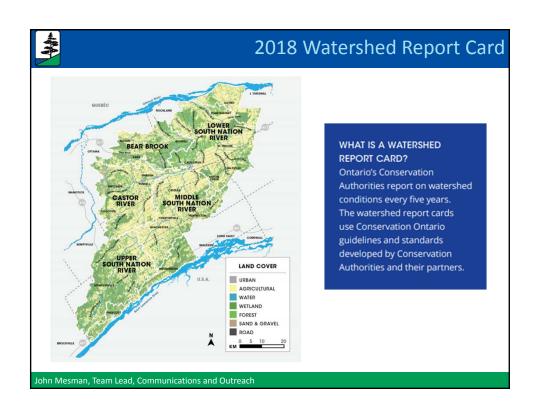
- Make model more robust to provide field level forecast data
- Deploy additional soil moisture probes to enhance spatial data
- Public dashboard portal to view forecast data

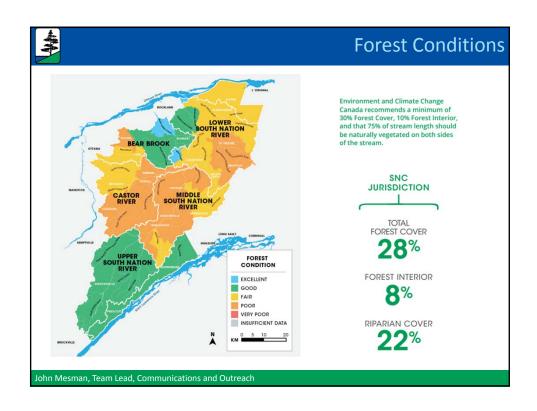
Ronda Boutz, Team Lead, Special Projects

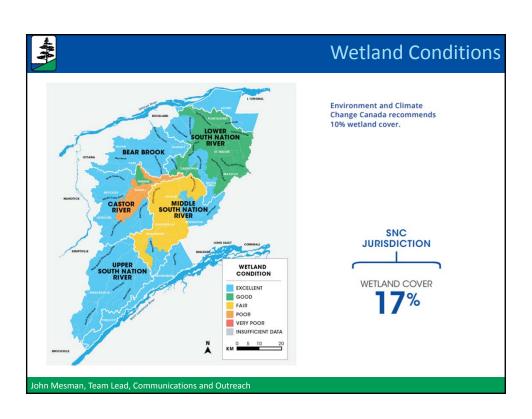


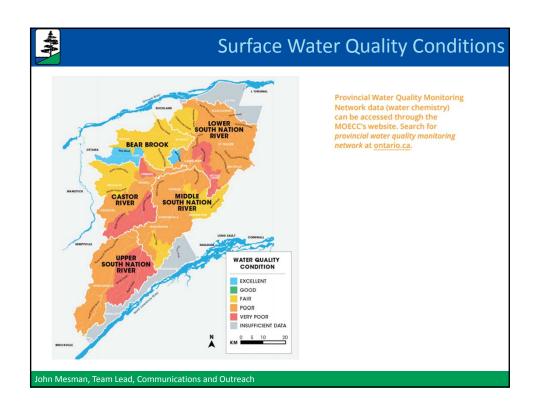
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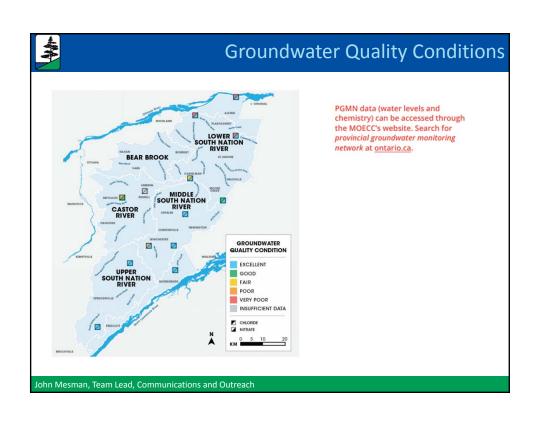


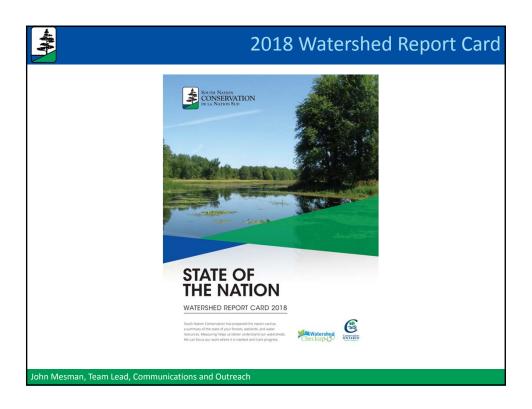












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