

**GOALS:**

1. Protect our watersheds
2. Protect our parks, natural areas and open spaces
3. Reduce and prevent pollution
4. Reduce regional green house gas emissions by 15% by 2020 and 25% by 2030.

**CONTEXT**

The North Okanagan is home to many diverse ecosystems, including wetlands, forests, lakes, rivers and grasslands. These ecosystems and the features they contain are valuable in their own right, but they also provide important benefits; including filtering pollutants, preventing erosion and controlling crop pests, and making possible the many recreational activities and opportunities our citizens enjoy. As our population and economy grow, these ecosystems come under increasing strain from development, pollution and other impacts.

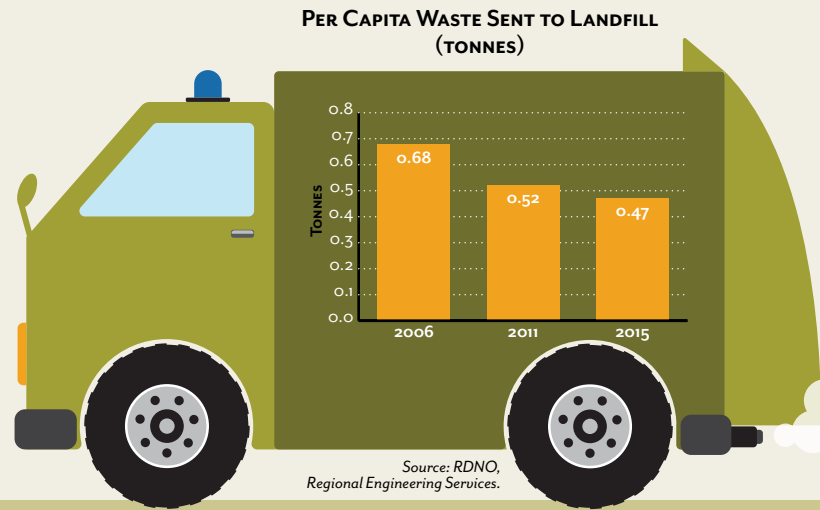
**HOW ARE WE DOING?**



Doing great!

**WASTE SENT TO LANDFILLS:**

OVERALL, THE AMOUNT OF WASTE SENT TO LANDFILL HAS DECREASED FROM 2006 TO 2015 FROM 0.68 TO 0.47 TONNES PER CAPITA (A 30.9% DECREASE). WHILE OUR PROGRESS HAS SLOWED SINCE 2011, SINCE 2013 WE HAVE ACHIEVED THE TARGET OUTLINED IN OUR SOLID WASTE MANAGEMENT PLAN (SWMP) OF 0.55 TONNES PER CAPITA.

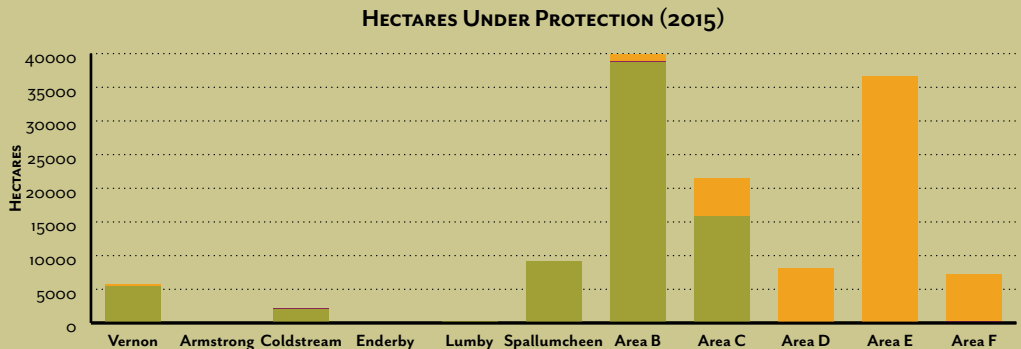


**PROTECTION OF NATURAL, OPEN SPACE AND ENVIRONMENTALLY SENSITIVE LANDS:**

IN 2015, OVER 120,000 HECTARES OF NATURAL LAND, OPEN SPACE, AND ENVIRONMENTALLY SENSITIVE AREAS (ESA) WERE UNDER PROTECTION THROUGH PARK DESIGNATION OR THROUGH DESIGNATION AS AN ESA DEVELOPMENT PERMIT AREA (DPA).

**BASELINE DATA ONLY**

- ESA Lands Protected by DPA\*
- Provincial Parkland
- Local Parkland



\*ESA - Lands categorized as 'High' and 'Very High' Conservation Value or other terrestrial Development Permit Area. Source: RDNO Sensitive Ecosystems Inventory.





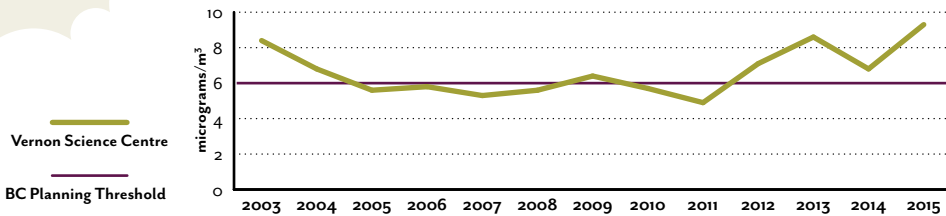
Not too well

### AIR QUALITY:

PM<sub>2.5</sub> — OR PARTICULATE MATTER MEASURING 2.5 MICRONS OR SMALLER IN DIAMETER — IS ONE OF THE MOST IMPORTANT OUTDOOR AIR POLLUTANTS IN B.C. FROM A HUMAN HEALTH PERSPECTIVE. THE PROVINCIAL AIR QUALITY THRESHOLD OF 6 MICROGRAMS/M<sup>3</sup> IS “INTENDED AS A VOLUNTARY TARGET TO GUIDE AIRSHED PLANNING EFFORTS AND ENCOURAGE COMMUNITIES TO MAINTAIN GOOD AIR QUALITY IN THE FACE OF ECONOMIC GROWTH AND DEVELOPMENT.”<sup>11</sup>

WHILE LEVELS OF PM<sub>2.5</sub> MEASURED AT THE AIR QUALITY MONITORING STATION AT VERNON SCIENCE CENTRE (THE REGION'S ONLY MONITORING STATION) HAVE BEEN WITHIN RANGE OF THE PROVINCIAL THRESHOLD IN THE PAST, SINCE 2012, THEY HAVE EXCEEDED THE THRESHOLD BY BETWEEN 0.8 AND 3.3 MICROGRAMS/M<sup>3</sup>.

**PARTICULATE MATTER 2.5 LEVELS (micrograms/m<sup>3</sup>), ANNUAL AVERAGE**



Source: BC Air Quality Monitoring Network.

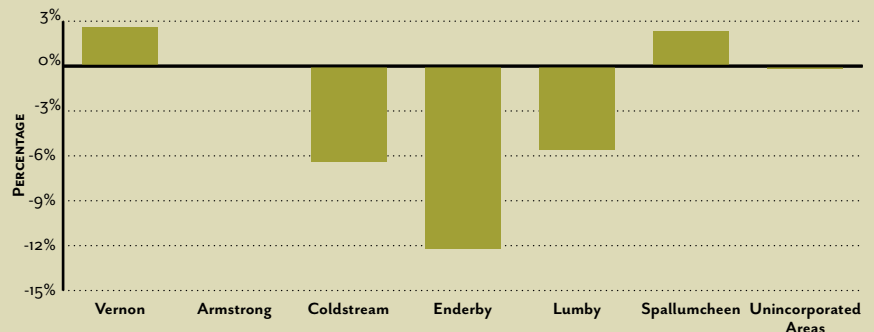


Doing OK

### GREENHOUSE GAS EMISSIONS:

WHILE 2010 LEVELS OF GHGS SHOW A VERY MINOR DECREASE OVER THE 2007 BASELINE (-0.1%), AGAINST A 5% POPULATION GROWTH, THAT IS A SUCCESS. HOWEVER, WITH A GOAL OF 15% REDUCTION BY 2020 OUR GHGS WILL NEED TO DECREASE SIGNIFICANTLY MORE IN ABSOLUTE TERMS. FURTHERMORE, SOME AREAS HAVE BEEN MORE SUCCESSFUL THAN OTHERS. COLDSTREAM, ENDERBY, AND LUMBY HAVE ALL SEEN SIGNIFICANT DECREASES IN TOTAL GHG EMISSIONS SINCE 2007.

**TONNES OF GHGs - PERCENTAGE CHANGE OVER 2007 BASELINE**



Source: BC Community Energy and Emissions Inventory, 2007 and 2010. The CE EI is being updated and is expected to have a release of 2012 data by the end of 2016, and 2014 data early in 2017. Biennial releases are expected thereafter.

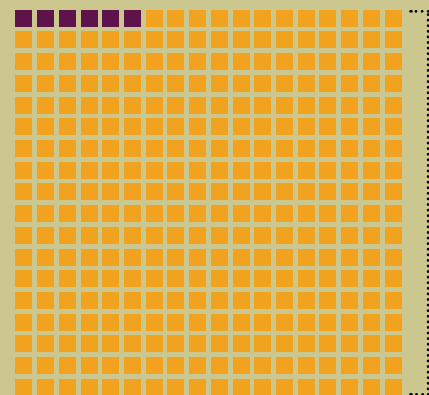
### SENSITIVE ECOSYSTEMS INVENTORY (SEI):

OUR SENSITIVE ECOSYSTEMS INVENTORY (SEI) USES A SET OF PROVINCIAL STANDARDS AND DEFINITIONS TO IDENTIFY AND MAP AT RISK AND ECOLOGICALLY FRAGILE ECOSYSTEMS IN OUR REGION. CURRENTLY, WE HAVE ENTERED AROUND 32,865 HECTARES OF LAND INTO THE (SEI), COMPRISING AROUND 4.1% OF THE TOTAL RDNO LAND BASE (APPROXIMATELY 750,000 HECTARES). WHILE A SMALL AMOUNT, THE MAPPING HAS FIRST BEEN DONE IN AREAS WHERE DEVELOPMENT PRESSURE IS THE HIGHEST.

CURRENTLY, ABOUT 1.8% OF SEI LANDS, OR 591 HECTARES, ARE CLASSIFIED AS “NON-SENSITIVE”, INDICATING THAT FORMERLY ECOLOGICALLY SENSITIVE LANDS HAVE BEEN DEVELOPED AND LOST THEIR ECOLOGICAL VALUE. WE WILL TRACK THIS NUMBER OVER TIME TO IDENTIFY THE AMOUNT OF ECOLOGICALLY SENSITIVE LAND BEING LOST TO DEVELOPMENT.

BASELINE DATA ONLY

1.8% of SEI is classified 'non-sensitive'



Total hectares of land entered in the SEI

Source: RDNO Sensitive Ecosystems Inventory

1. New Ambient Air Quality Criteria for PM<sub>2.5</sub>: <http://www.bcairquality.ca/regulatory/pm25-objective.html>