

HIGH PLAINS INDUSTRIAL PARK

by Highfield Investment Group

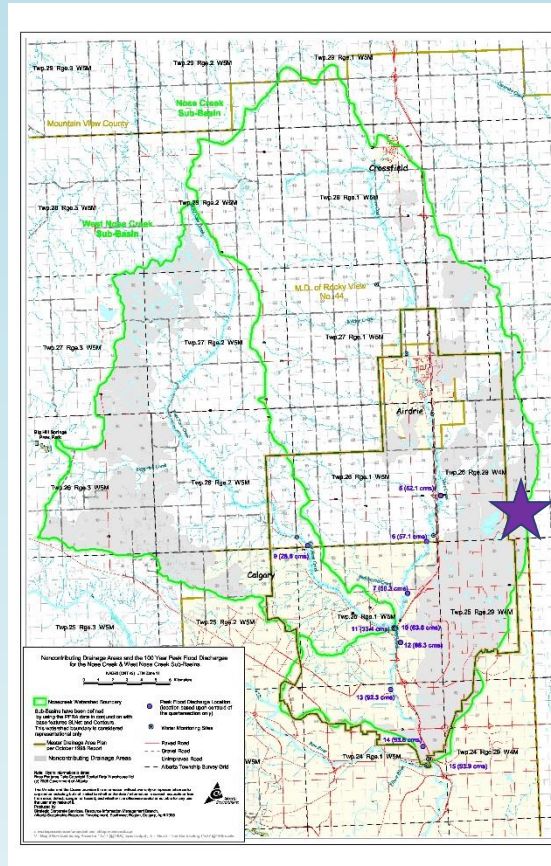
From Lemon to Lemonade

WITH ADDITIVES AND ATTITUDE

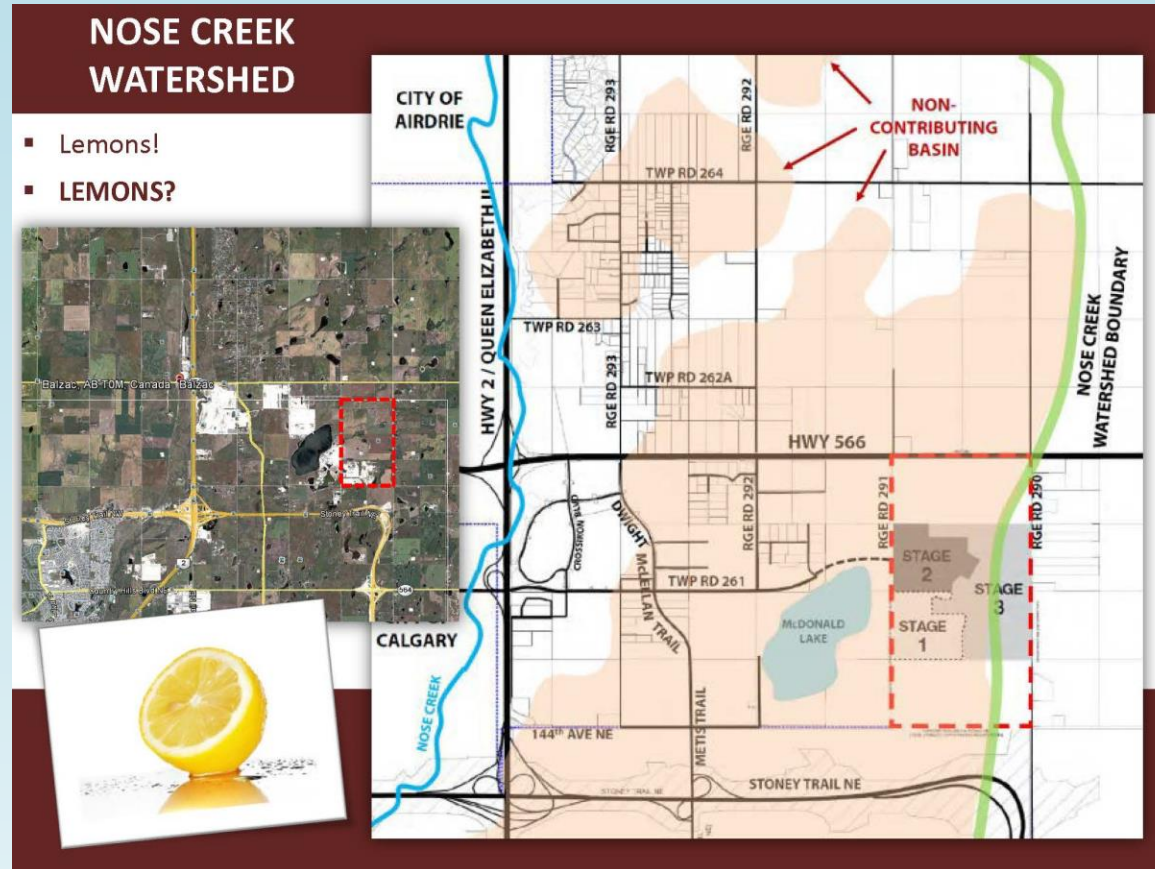
High Plains Industrial Park (HPIP)

- Location
- Watershed unique characteristics
- Nose Creek Watershed Water Management Plan

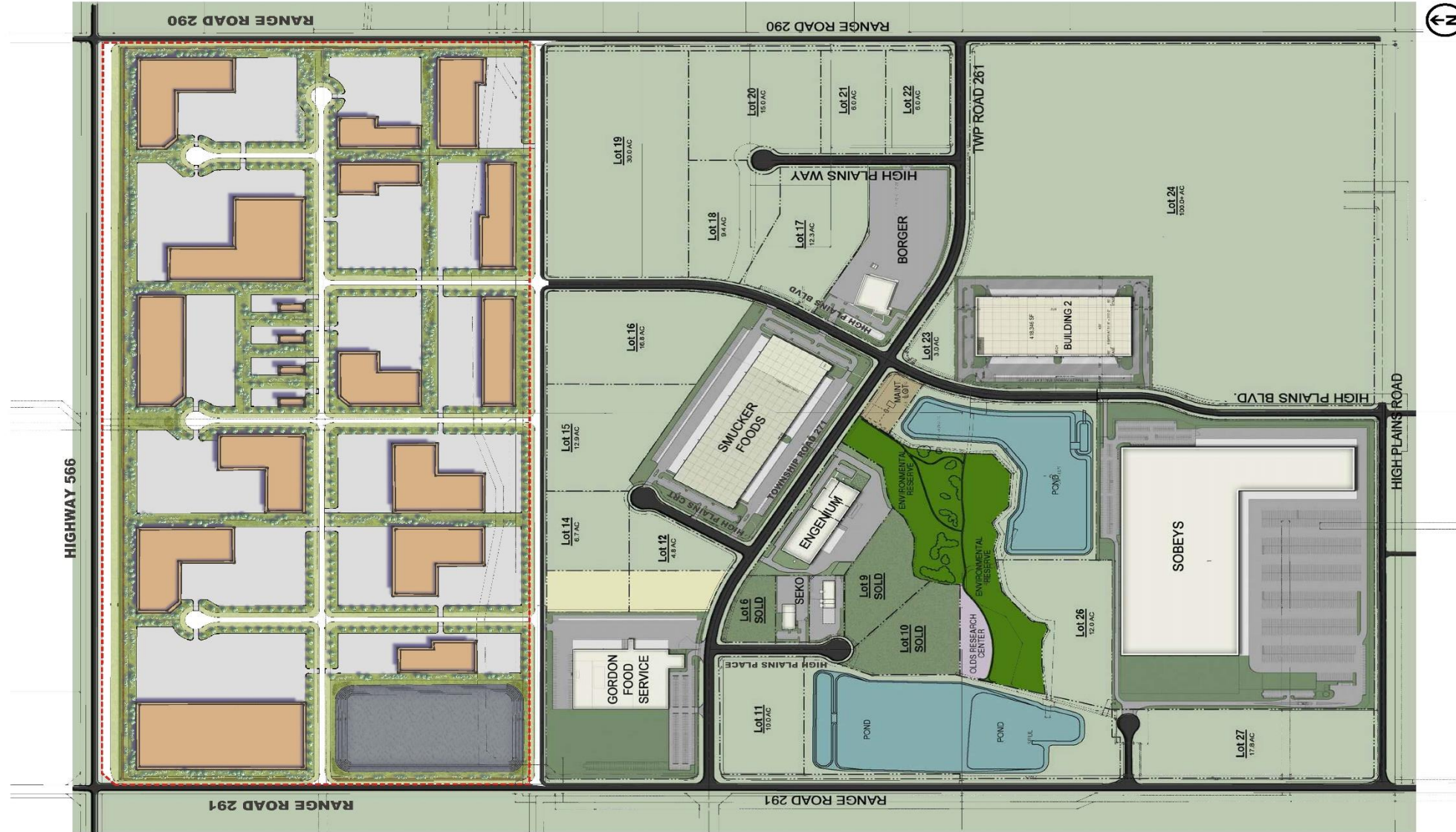
Location within the Nose Creek Basin



Nose Creek Watershed



High Plains Industrial Park



NTS
 High Plains Industrial - Phase 4 & 5
 Comprehensive Concept Plan
 NW & NE 1/4 Sec. 12-26-2018
 June 2018



Nose Creek Watershed Water Management Plan

UNIQUE DRAINAGE CHARACTERISTICS OF THIS URBANIZING WATERSHED

TRIBUTARY AND NON CONTRIBUTING CATCHMENTS

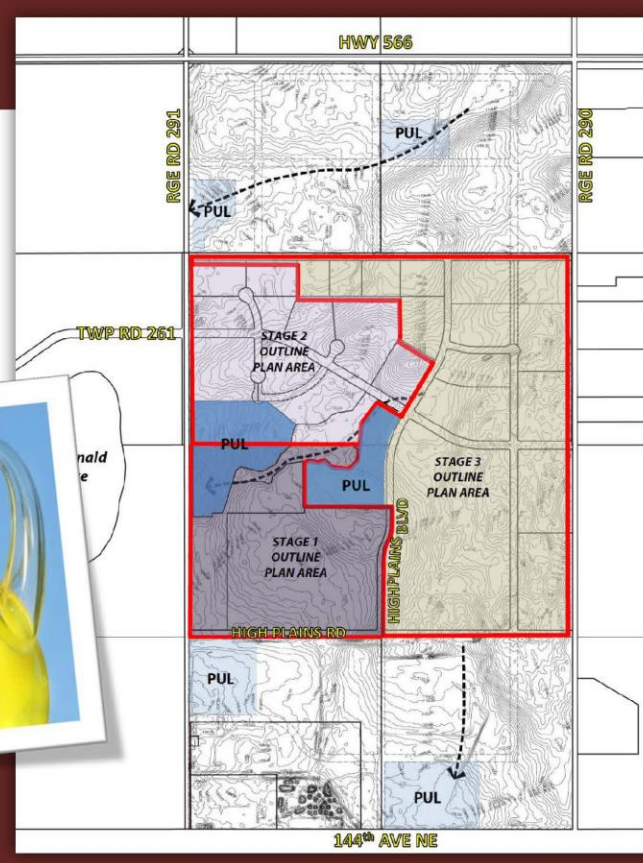
RELEASE RATES FOR TRIBUTARY AREAS

ZERO RELEASE FOR NON TRIBUTARY AREAS

HPIP Opportunity

STORMWATER MANAGEMENT

- The Water Nexus
- **LEMONADE!!**



HPIP Stormwater NEXUS

WATER BALANCE ACT – SUPPLY AND DEMAND

HPIP RISK MANAGEMENT MODELING

- SURETY OF SUPPLY
- DEMAND VARIABILITY

HPIP Stormwater NEXUS

WESTHOFF WATER BALANCE MODEL (WWBM)
DATA COLLECTION BY REMOTE SENSING

- WEATHER STATION
- LEVEL SENSORS AT EACH OF THE STORM PONDS
- WATER METER AT PUMP STATION
- WATER METER FOR EACH USER
- GROUNDWATER MONITORING

HPIP Stormwater NEXUS

USERS OF STORMWATER AT HPIP

TWO CONCRETE PLANTS

IRRIGATION GREEN SPACES (WIDE BOULEVARDS)

OTHERS IN THE FUTURE

HPIP Stormwater NEXUS

THE BIGGER PICTURE FOR REGIONAL ENERGIES

- LOW RISK INDUSTRY
- WETLAND RESEARCH – OLDS COLLEGE + WESTHOFF
(PERPETUAL FUNDING)
- WATER BALANCE ACT – WWBM, A DYNAMIC OPERATIONAL TOOL

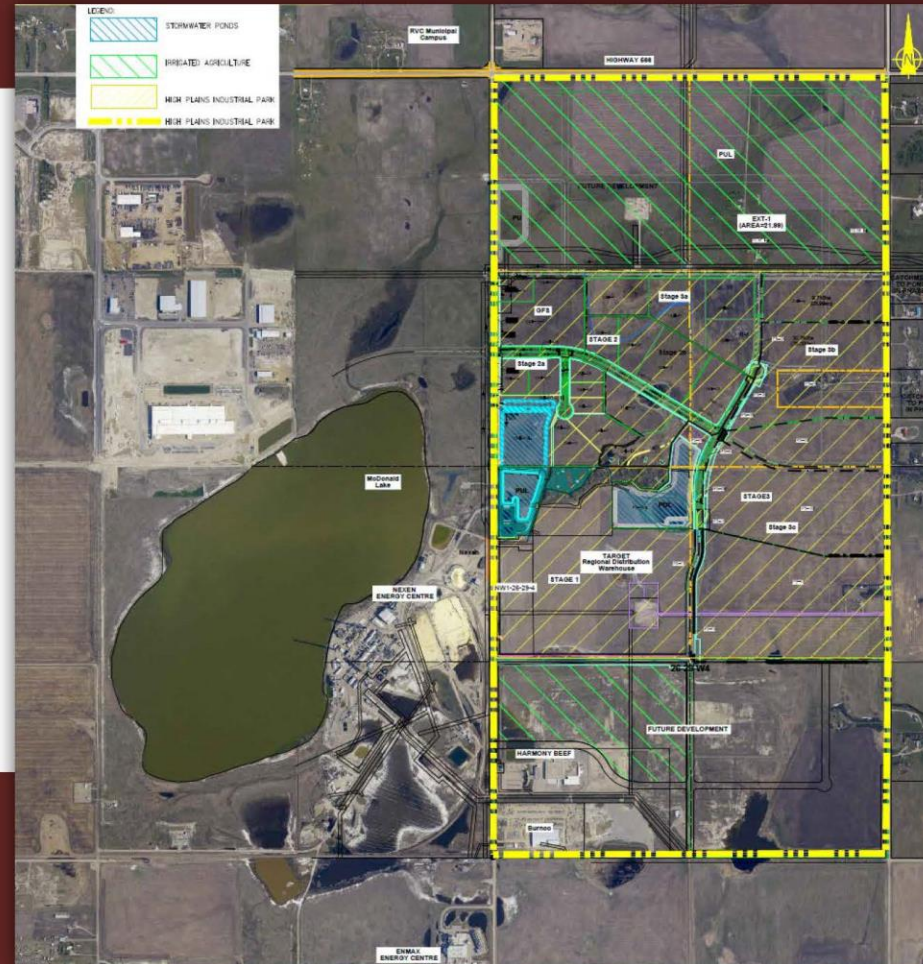
Regulatory comments

- Use of stormwater
- HPIP as a Study Case for new Use of Stormwater Policy
- Where are we now?

Summary comments

STORMWATER USE PLANNING WITH WATER

- User composition
- Water quantity & quality
- Water supply surety
- Future changes in
 - supply – demand
 - weather / climate change
- Risk management modeling



The beginning of the end

CONCLUSION

- Holistic approach is necessary
- Apply lateral thinking to overcome barriers
- Long-standing perspectives can be changed
- Problems can be turned into solutions

