



SUNNYSIDE VALLEY IRRIGATION DISTRICT

SUNNYSIDE, WASHINGTON

**WATER CONSERVATION PROGRAM**

Contact:

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# BOARD, STAFF, AND LEGAL COUNSEL

## ▶ Board Members:

- Doug Simpson, Chairman  
Mabton, WA
- Bob Golob, Vice Chairman  
Granger, WA
- Dave Michels  
Grandview, WA
- Mike Hogue  
Prosser, WA
- Rick Sauve  
Sunnyside, WA



## ▶ Administrative Staff

- James W. Trull  
District Manager
- Donald L. Schramm, P.E.  
Assistant Manager – Operations
- Lori A. Brady  
Assistant Manager – Administration  
and Technical Services
- Lawrence E. Martin, Counsel  
Halverson Applegate, P.S.  
Yakima, WA

United States Department of Interior



Bureau of Reclamation



Pacific Northwest Region

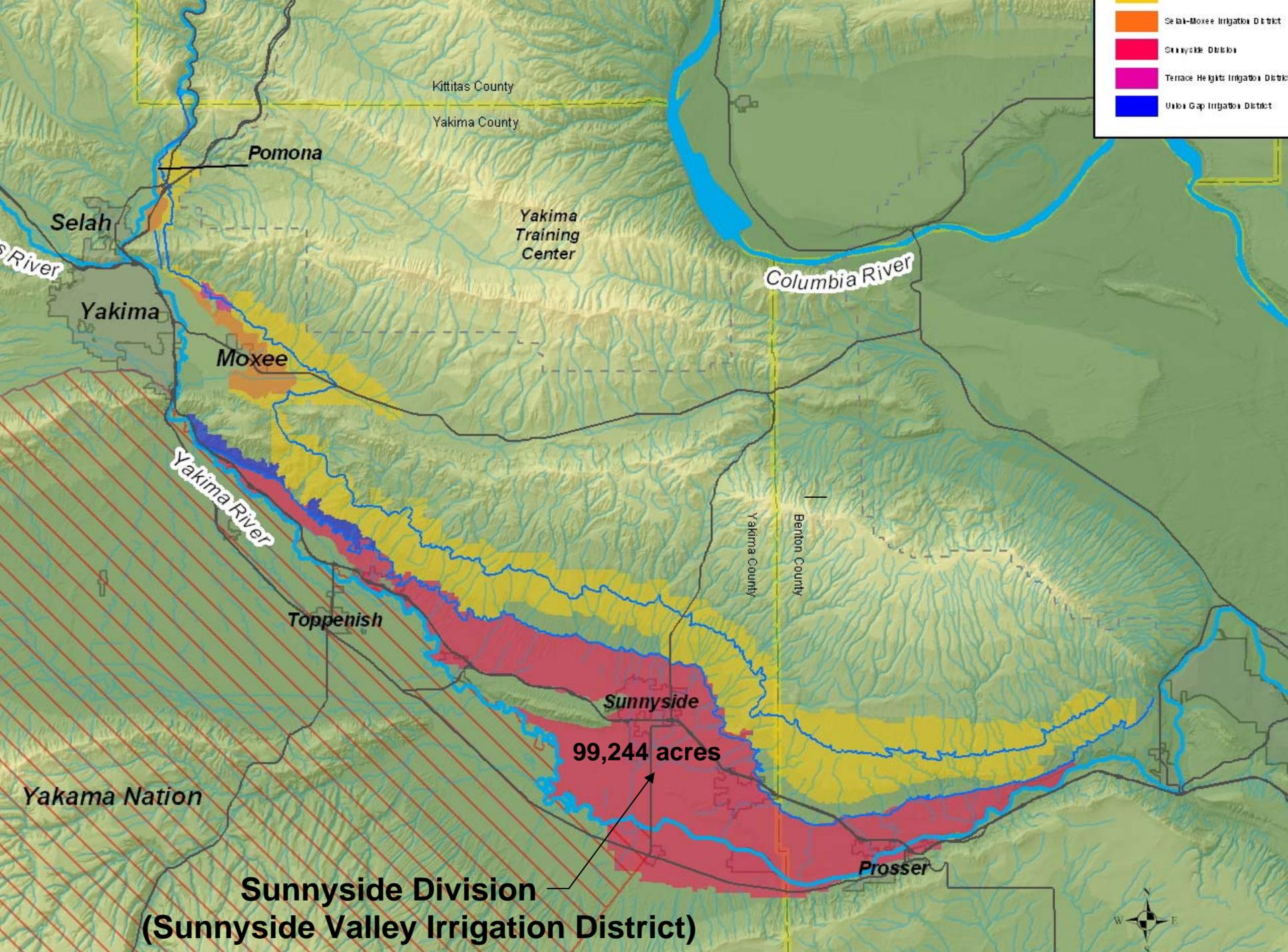


Upper Columbia Area Office



Yakima Reclamation Project





99,244 acres

**Sunnyside Division  
(Sunnyside Valley Irrigation District)**

# GENERAL ADJUDICATION OF THE SURFACE WATER RIGHTS IN THE YAKIMA RIVER BASIN

- Initiated in 1977
- 40,000 Claimants
- 6,062 Square Miles
- Sub-Basin Pathways
- Major Claimant Pathways



# SUNNYSIDE DIVISION BOARD OF CONTROL

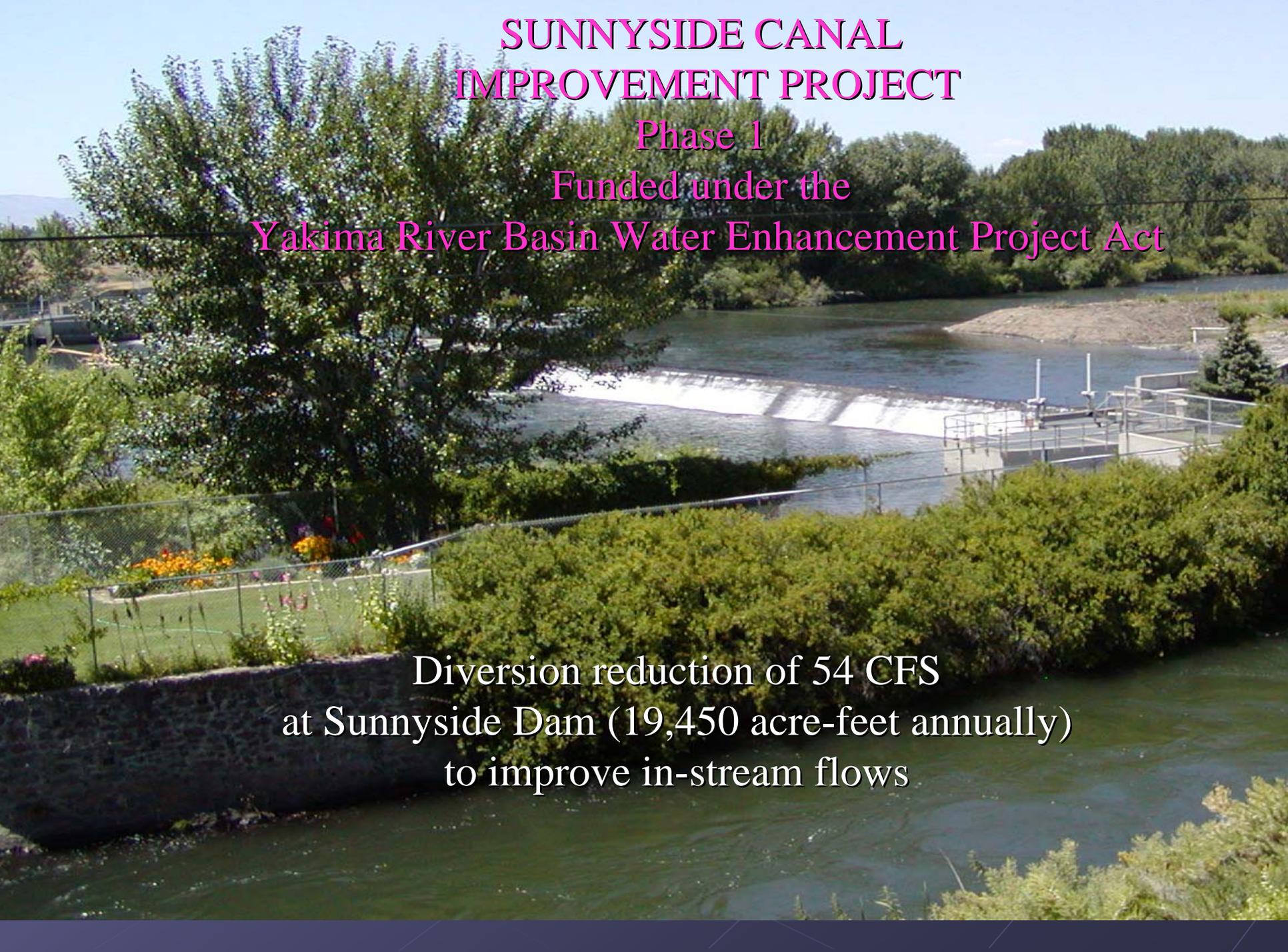
- Claims filed in 1974
- Trial in 1994
- Report of the Court re Sunnyside Division issued 10/23/01
- Mediation June 2002 – July 2003
- Court issued a Conditional Final Order on August 14th



# SUMMARY OF SETTLEMENT

- Common Place of Use for Division's Water Rights
- Regulation at the Sunnyside Dam
- Continued application of the 1945 Consent Judgment
- Retained 95% of claimed quantities
- Preservation of all claimed priority dates (6)  
June 29, 1878 – May 10, 1905
- Commitment to Yakima River Basin Water Enhancement Project



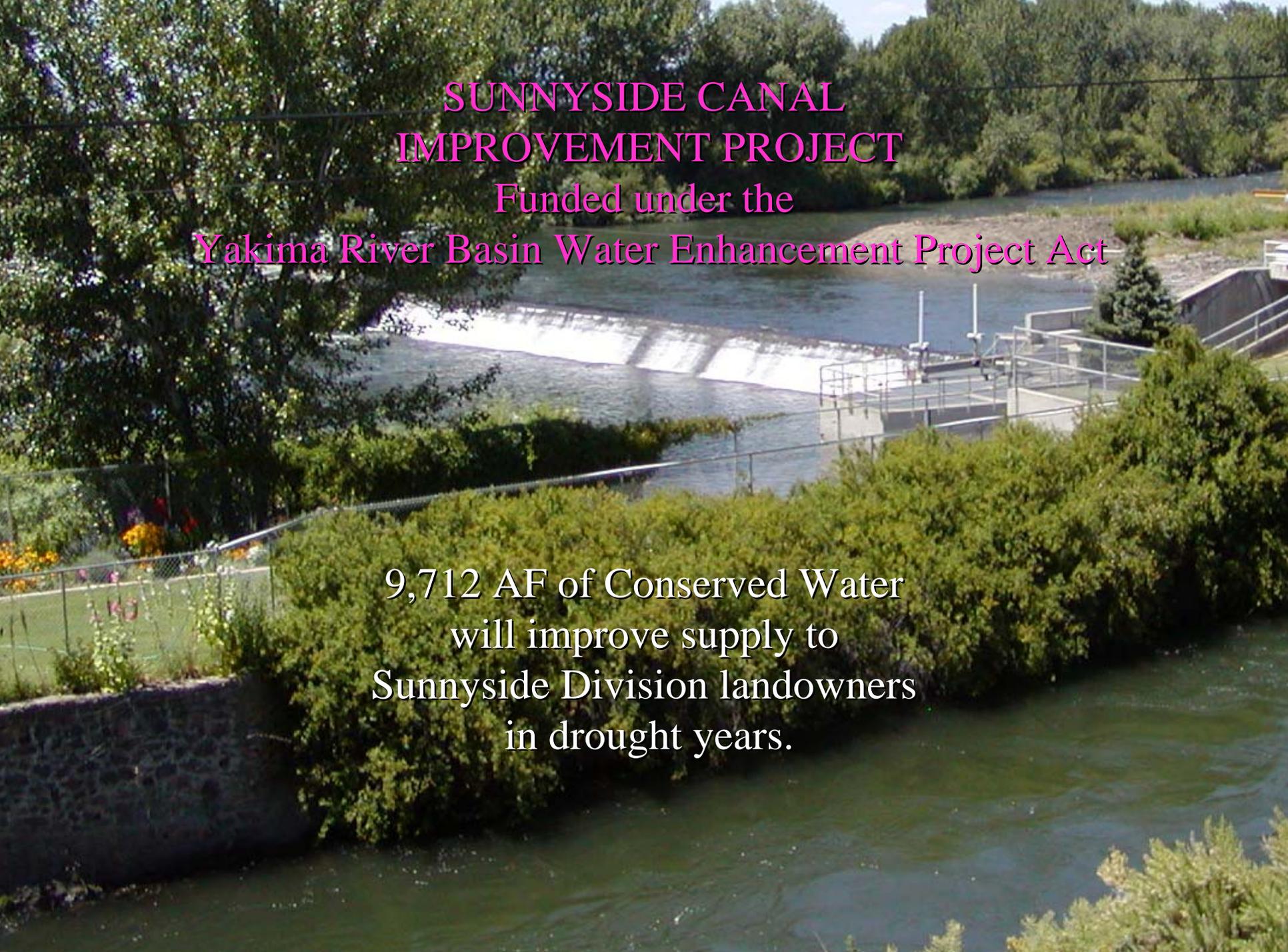
A photograph of the Sunnyside Canal Improvement Project. The image shows a river with a dam structure in the middle ground. The dam has several spillways where water is cascading. In the foreground, there is a concrete wall and a chain-link fence. The background is filled with lush green trees and a clear blue sky. The text is overlaid on the top half of the image.

# SUNNYSIDE CANAL IMPROVEMENT PROJECT

Phase 1

Funded under the  
Yakima River Basin Water Enhancement Project Act

Diversion reduction of 54 CFS  
at Sunnyside Dam (19,450 acre-feet annually)  
to improve in-stream flows

A scenic view of a dam on a river. The dam is a concrete structure with water flowing over it. In the foreground, there is a chain-link fence and a stone wall. The background is filled with dense green trees. The text is overlaid on the image in pink and white.

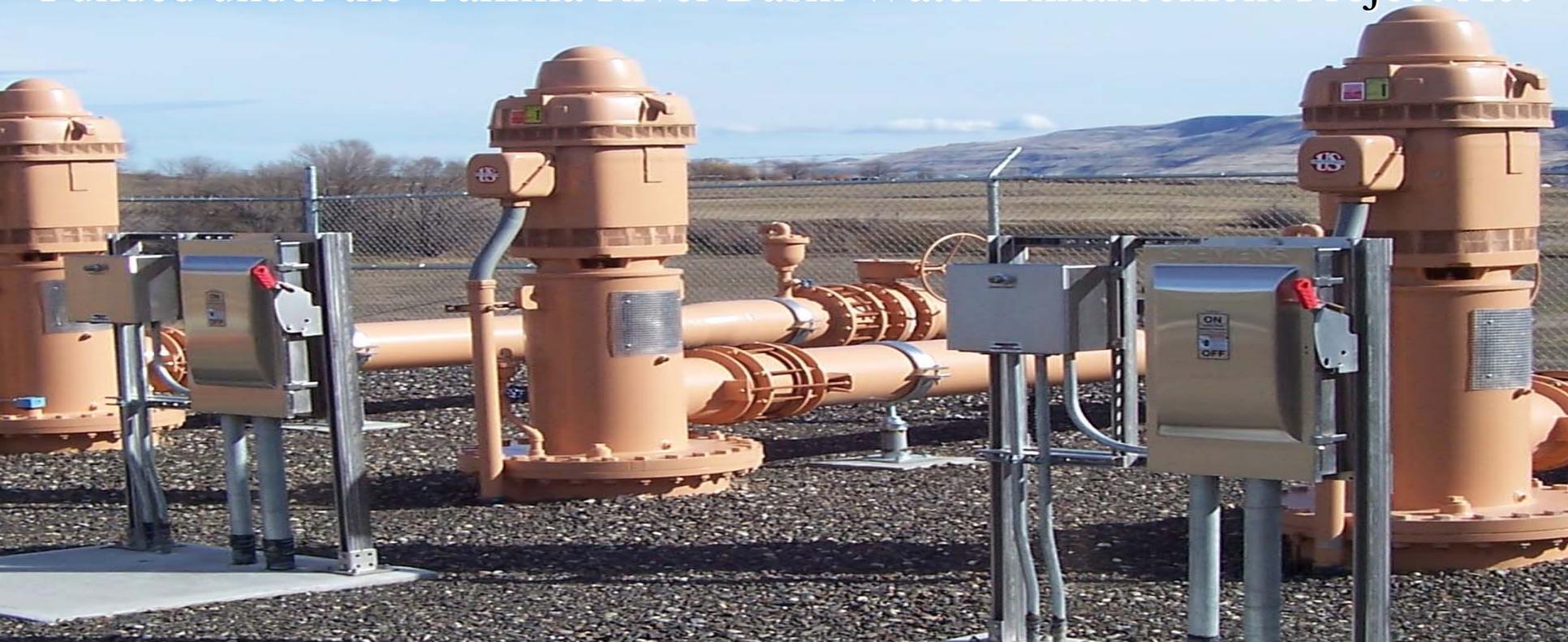
**SUNNYSIDE CANAL  
IMPROVEMENT PROJECT**  
Funded under the  
**Yakima River Basin Water Enhancement Project Act**

9,712 AF of Conserved Water  
will improve supply to  
Sunnyside Division landowners  
in drought years.

# SUNNYSIDE CANAL IMPROVEMENT PROJECT

Phase 1

Funded under the Yakima River Basin Water Enhancement Project Act



Requires \$2.5-\$3.0 million  
in federal appropriations annually

SUNNYSIDE CANAL IMPROVEMENT PROJECT Phase 1  
funded under the  
Yakima River Basin Water Enhancement Project Act



Cost of \$32.5 million (YR 2000 price levels)

65% Federal

17 ½ % State

17 ½% Sunnyside Division



**BEFORE: MANUALLY OPERATED GATES**



**AFTER: AUTOMATED GATES**

## 3 – RE-REGULATION RESERVOIRS



# System Control And Data Acquisition



11/15/2006

## **Sunnyside Canal Improvement Project**

On November 15, 2004, Reclamation, WDOE, Yakama Nation, SDBOC, and many others held the groundbreaking ceremonies on the **M.P. 59.29 Re-Regulating Reservoir** north of Prosser. The 300 acre-foot reservoir was **completed and placed into operation in September of 2005.**

Design for the 23.7 Re-Regulation Reservoir north of Granger is well under way with construction expected to begin the summer of 2007 and a completion date of early the summer of 2008.

To date, **nine (9) check structures** and automated control gates **have been constructed.**

New **SCADA software and hardware has been installed** in the Sunnyside office. SVID can now access this data from any remote site with internet access including the field offices at Granger and Grandview. The communication system from the field to the Sunnyside office is currently transitioning from cellular technology to spread spectrum radios.

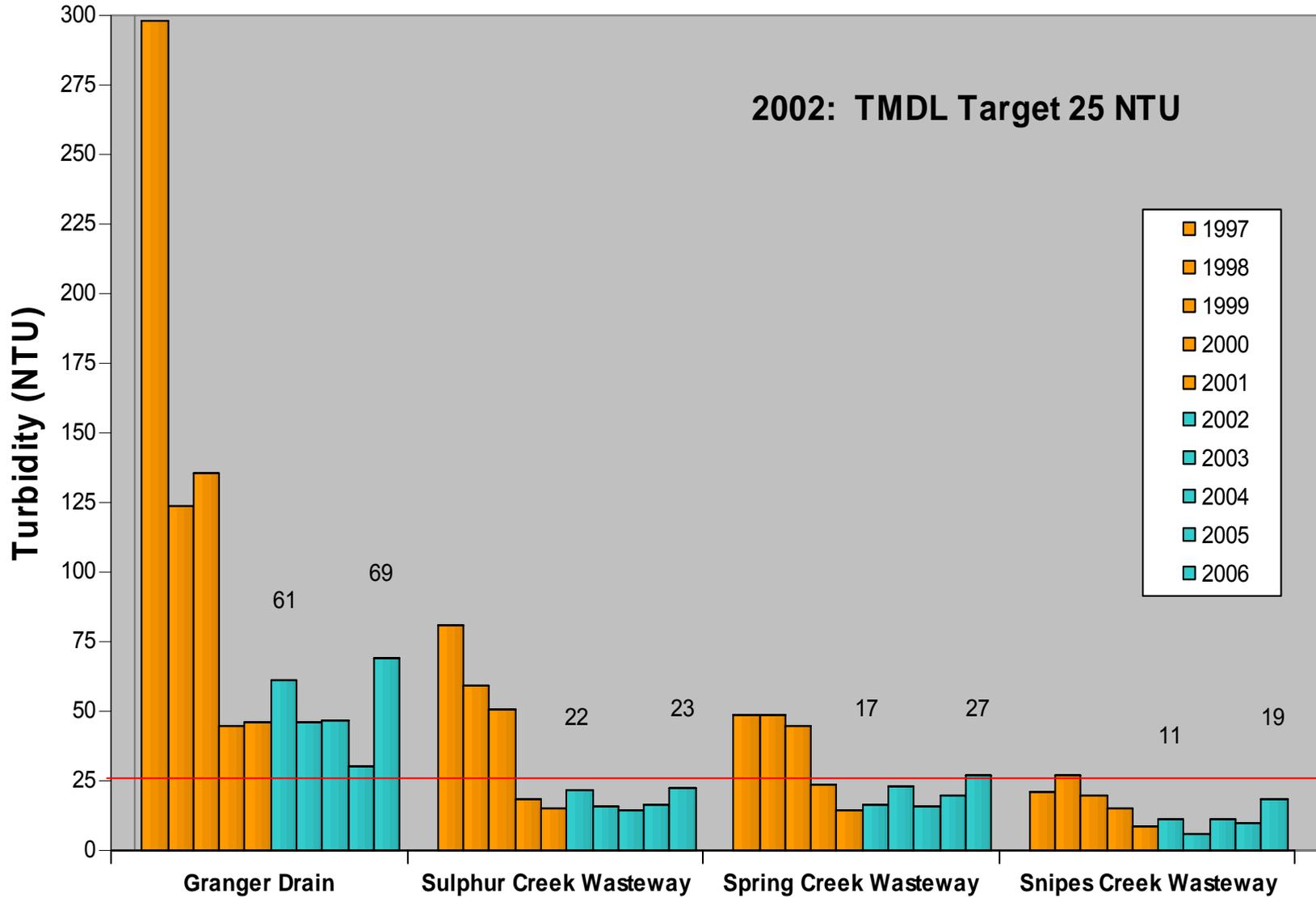
# WATER QUALITY SUCCESS

## Sulphur Creek Wasteway Entering Yakima River



Removed approximately 95% of the sediment in agricultural runoff from entering the Yakima River.

# Turbidity (NTU) at Drainage Outlet Sites



# WATER QUALITY IMPROVEMENT MEASURES

Water quality sampling and analysis



# WATER QUALITY IMPROVEMENT MEASURES

## Landowner Education

Meetings held with  
approximately 1000 farmers



# WATER QUALITY IMPROVEMENT MEASURERS CONVERSION FROM RILL TO SPRINKLER OR DRIP



# WATER QUALITY IMPROVEMENT MEASURES

## Financial Incentives – On-Farm Loans

Conversion from furrow (rill) method to sprinkler and drip applications improving irrigation application efficiencies from 50%-60% to 70%- 80%



# WATER QUALITY IMPROVEMENT MEASURES

## Erosion control



# WATER QUALITY IMPROVEMENT MEASURES

## Fencing to Restrict Livestock Access



# IRRIGATION METHODS

## SUNNYSIDE DIVISION

2001 Rill Application 44% Sprinkler and Drip 55%

2006 Rill Application 32% Sprinkler and Drip 68%

**SUNNYSIDE DIVISION  
WATER CONSERVATION PROGRAM**

**PHASE 2**

**ENCLOSED CONDUIT LATERAL SYSTEMS**

**SUNNYSIDE DIVISION  
WATER RIGHTS SETTLEMENT AGREEMENT**

**PHASE 2 CONSERVATION GOALS**

**24,750 AF CONSERVED**

**DIVERSIONS REDUCED BY 16,500 AF ANNUALLY**

**MAXIMUM INSTANTANEOUS DIVERSIONS  
REDUCED BY 46 CFS**

## SUNNYSIDE DIVISION CONSERVATION PROGRAM - PHASE II

LATERAL	SUNNYSIDE CANAL MILE POST	ACRES SERVED	ESTIMATED CONSERVED WATER (AF) <sup>4</sup>	ESTIMATED COST (2007)	COST PER AF
					PROPOSED PHASE II
14.17	14.17	144	80	\$ 177,707 <sup>2</sup>	\$ 2,230
22.56	22.56	512	283	631,848 <sup>2</sup>	2,230
23.08	23.08	1,203	666	1,484,595 <sup>2</sup>	2,230
27.09	27.09	612	339	755,255 <sup>2</sup>	2,230
40.20 + 40.86	40.86	777	430	1,137,000 <sup>1</sup>	2,644
Rocky Ford + Ryder	48.00	8,058	4,460	9,944,197 <sup>2</sup>	2,230
Mathesion	49.70	3,239	1,793	3,997,177 <sup>2</sup>	2,230
Mb 8.40	50.30	1,453	804	1,793,115 <sup>2</sup>	2,230
54.12	54.12	259	143	319,626 <sup>2</sup>	2,230
58.75	58.75	<u>171</u>	<u>95</u>	<u>211,027</u> <sup>2</sup>	<u>2,230</u>
<b>TOTALS</b>		<u><b>33,867</b></u>	<u><b>18,745</b></u>	<u><b>\$ 41,972,652</b></u>	<u><b>\$ 2,239</b></u>

GREEN VALLEY RD





# PROPOSED PHASE 2

Construct 30 +/- Enclosed Conduit Lateral Systems

Total Cost: \$55 Million

Anticipated time to complete: 15 Years

# AGRICULTURE FEEDS THE NATION

