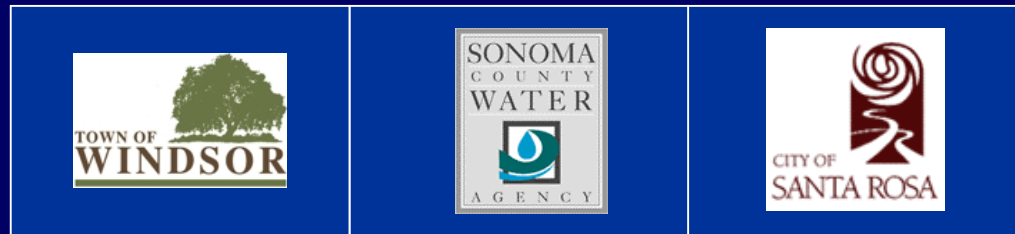


# Evaluation of Joint Operation Water Recycling Systems

November 1, 2006



Rich Ingram, P.E.

Sarah Yardley, P.E.

Brelje & Race

Who

SCWA Airport-Larkfield-Wikiup Sanitation Zone

What

Where

City of Santa Rosa Laguna Subregional Wastewater Facility (*North Area Irrigation*)

When

Why

Town of Windsor Water Reclamation Plant

How

Who

# Joint Operations = Shared Use of Recycled Water Infrastructure

What

Where

When

Why

How



Who

# Joint Operations = Shared Use of Recycled Water Infrastructure

What

Where

When

Why

How



Who

# Joint Operations = Shared Use of Recycled Water Infrastructure

What

Where

When

Why

How



Who

# Joint Operations = Shared Use of Recycled Water Infrastructure

What

Where

When

Why

How



Who

# Joint Operations = Shared Use of Recycled Water Infrastructure

What

Where

When

Why

How



Who

## Required Recycled Water Storage Expansion by 2015

What

*Separate Operations*

Where

**80 MG** Airport Alone

When

**85 MG** Town Alone

Why

**165 MG** Total Need: Town Alone + Airport Alone

How

Who

## Required Recycled Water Storage Expansion by 2015

What

### *Separate Operations*

Where

**80 MG** Airport Alone

**85 MG** Town Alone

When

**165 MG** Total Need: Town Alone + Airport Alone

Why

### *Joint Operations*

How

**40 MG** Joint Operations

Who

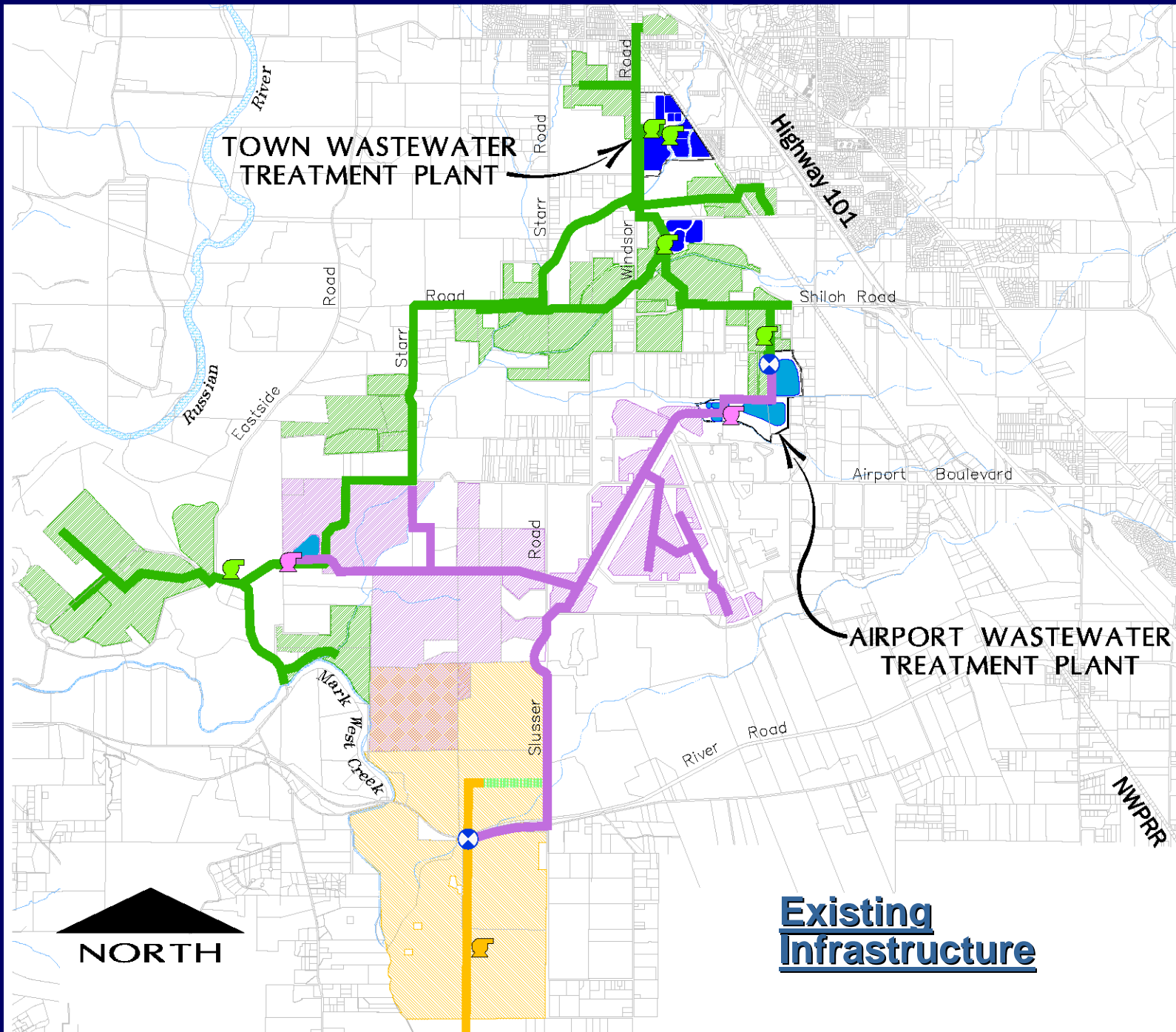
What

Where

When

Why

How



Who

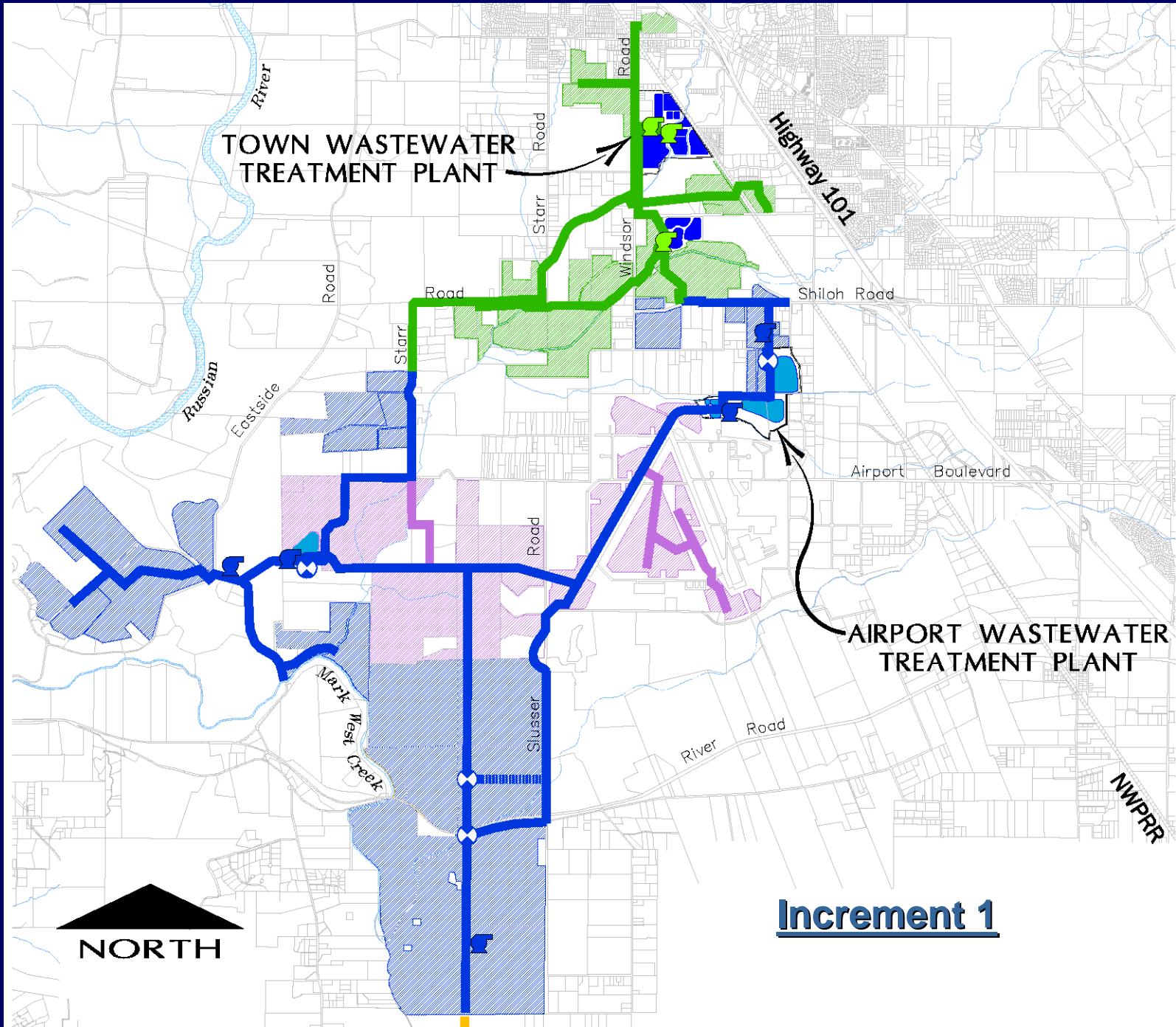
What

Where

When

Why

How



Who

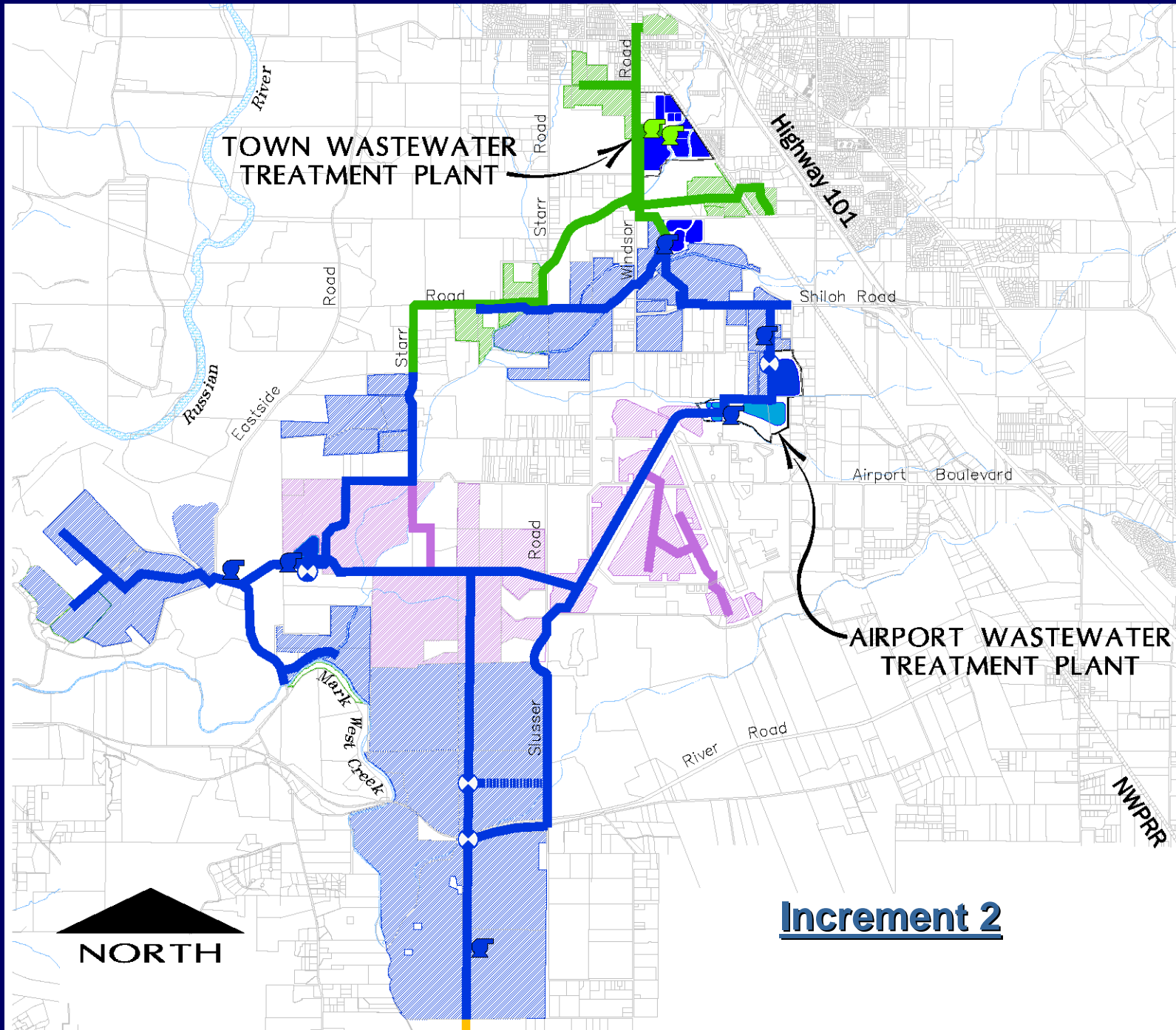
What

Where

When

Why

How



Who

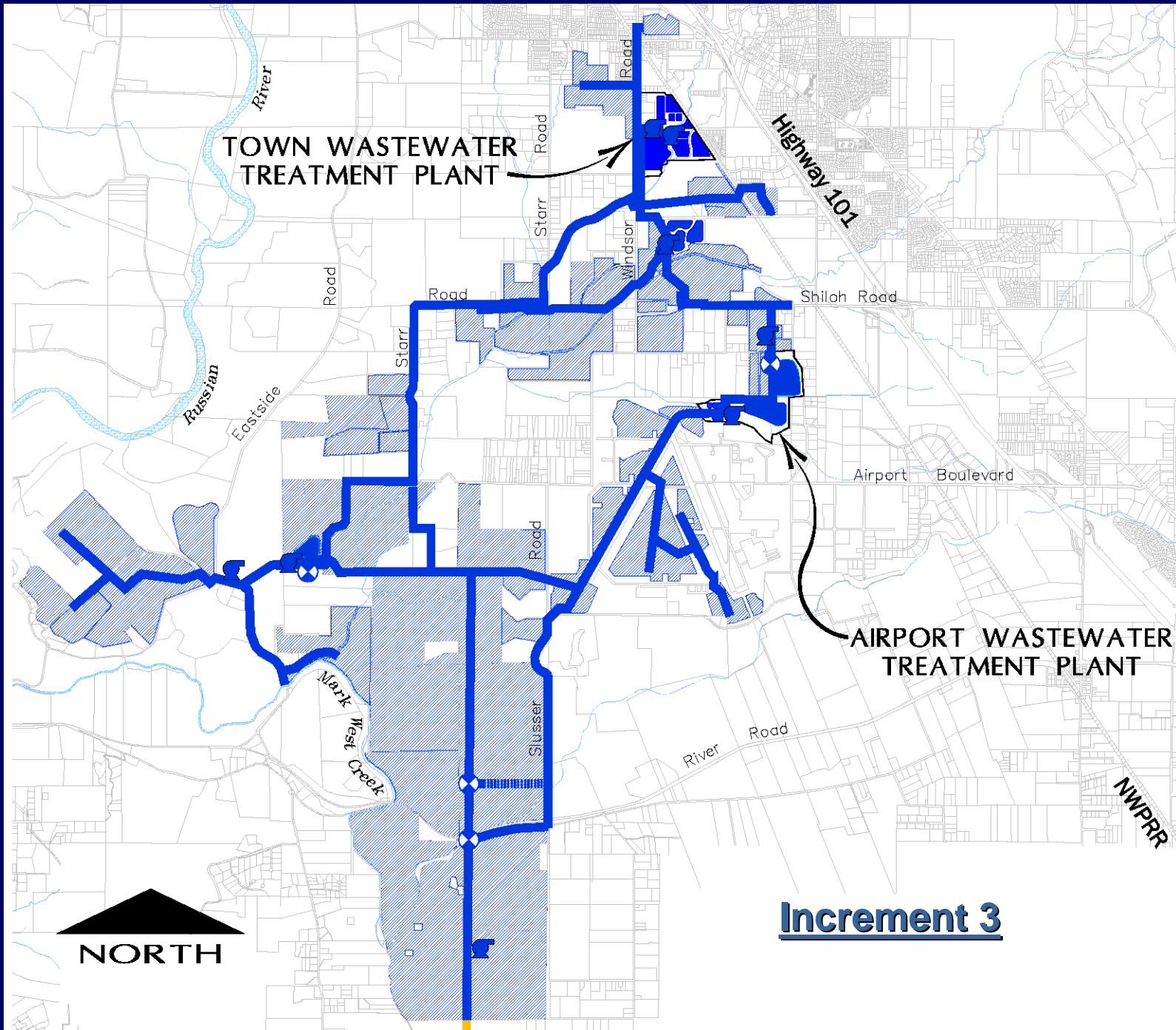
What

Where

When

Why

How



Who

What

Where

When

Why

How

Start the negotiations for Joint  
Operations now.

Who

Reduced Construction of Storage – 125 MG

What

Reduced Distribution and Pumping

Where

Reduced Environmental Impacts

When

More Reliable Recycled Water Supply for Irrigation  
(All Entities Benefit)

Why

How

Total Capital Cost Reduction of \$19 Million for Town and  
Airport

Who

What

Where

When

Why

How

Engineering and Construction are  
Straightforward

Need Support of the Regional Water Quality  
Control Board

Need Political Will