## Odessa Groundwater Replacement Program (OGWRP)



#### East Columbia Basin Irrigation District Landowner Meeting

January 30, 2014 Big Bend Community College, Moses Lake, WA

> Levi Johnson East Columbia Basin Irrigation District Development Coordinator 55 N. 8<sup>th</sup> / P.O. Box E Othello, WA 99344 (509) 488-9671 Ijohnson@ecbid.org

- Background
- ELC Improvements
- Delivery System Layout/Design/Cost
- Eligibility Criteria
- Contracts / Permits
- Way Forward
- Panel and Q&A

### Outline



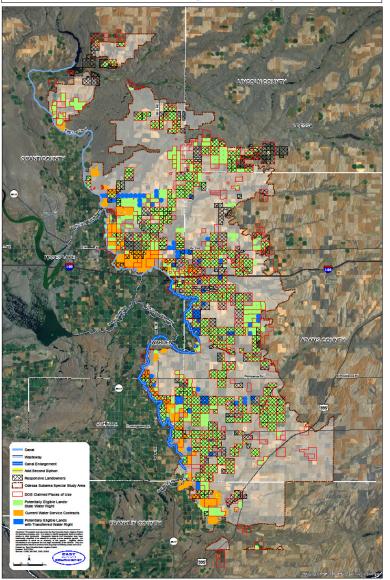
#### **OGWRP** in Brief

- Columbia River Initiative; MOU 2004
- DOE Office of the Columbia River; Odessa Subarea Special Study 2006
- Record of Decision (ROD): Modified Partial-Replacement—Banks Alternative (Alternative 4A): *April 2*, 2013
- <u>OGWRP TOTAL = 88,000 ac</u>
  - Odessa Subarea Special Study (OSSS) 70,000 ac
  - Lake Roosevelt Incremental Releases Program (LRIRP) 10,000 ac
  - Coordinated Conservation Plan- 5,693 ac (currently available)
- Provide groundwater replacement to relieve the aquifer and ensure continued economic development in the CBP.

### Background

# Where is OGWRP?

Background Odessa Groundwater Replacement Program (OGWRP) Odessa Subarea Special Study Area



#### East Low Canal (ELC) Earthwork

- <u>Zone 1</u> Earthwork projected completion 2014 (approx. 1 million C.Y. of material):
  - 13.1 miles of ELC, Lind Coulee Wasteway



- <u>Zone 2</u> Earthwork projected completion
  2015 (approx. 1 million C.Y. of material):
  - 31.7 miles of ELC (to Scooteney

Wasteway)

### **ELC Improvements**

#### Siphons/Gates

- 5 additional siphon barrels are required.
- Design work done by USBR expected in February 2014.
- Lind Coulee Siphon No. 2 public bid and install in 2014.
- Additional siphon barrels will require additional funding.
- LCWW Radial Gate installed by 2015.

### **ELC Improvements**



#### **County Road Bridges**

- 12 County bridge crossings may be impacted.
- Preliminary Cost Analysis to be completed Feb 2014.
- Design work likely to being in summer 2014.
- Zone 1 bridges (4) to be completed in 2015.
- Zone 2 bridges (8) require additional funding.
   ELC Improvements

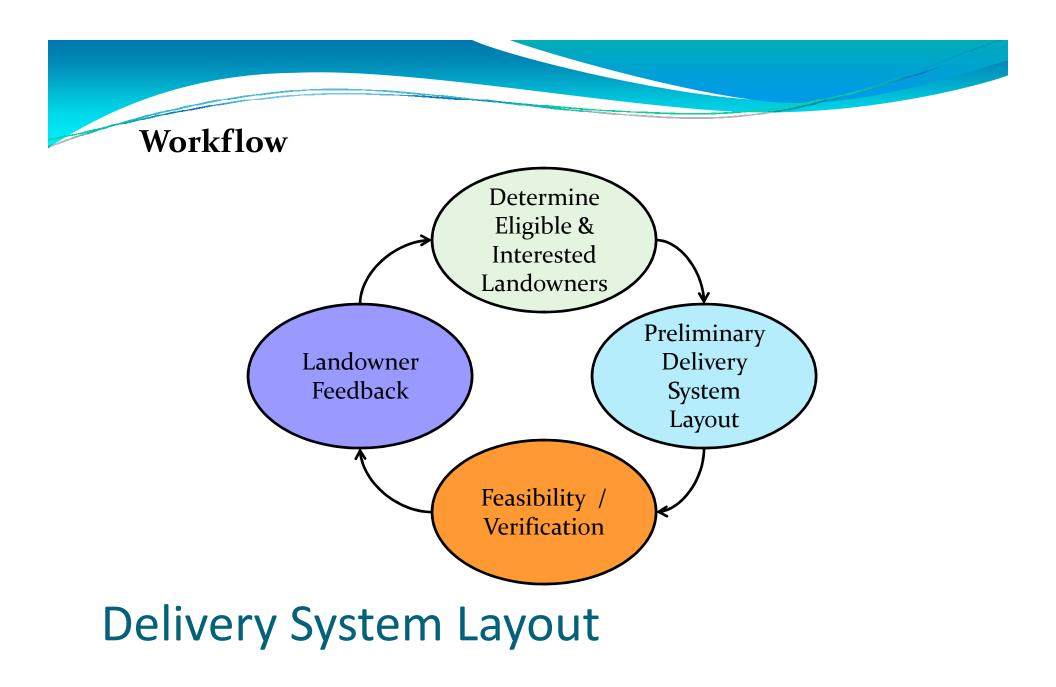


#### Odessa Groundwater Replacement Program (OGWRP)

#### **ELC Improvement Construction Schedule (General)**

	Year 2014													2015												
Item	Task/Description	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	ELC Earthwork Zone 1																									
2	ELC Earthwork Zone 2																									
3	Lind Coulee Siphon No.2 Bid																									
4	Lind Coulee Sipl No.2 Constructi																									
5	CO. Rd Bridge De	sign																								
6	CO. Rd Bridge Construction - Zo																									
7	LCWW Radial Gate	e Bid																								
8	LCWW Radial Ga Fabrication / Ins																									
9	Lind Coulee Siphor 1 Bid	n No.																								
10	Lind Coulee Siphor 1 Construction																									

### **ELC Improvements**



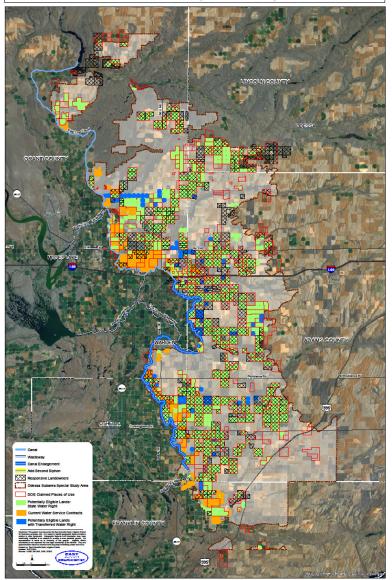
#### **Determine Eligible & Interested (E&I) Landowners**

- Compilation of information (DOE, USBR, District).
- Verification of water rights, inclusion and interested Landowners.
- GIS and Data base to help identify, organize & layout
   E&I parcels.
- Cut-off Date for Responsive Landowners.

### **Delivery System Layout**



Delivery System Layout Odessa Groundwater Replacement Program (OGWRP) Odessa Subarea Special Study Area

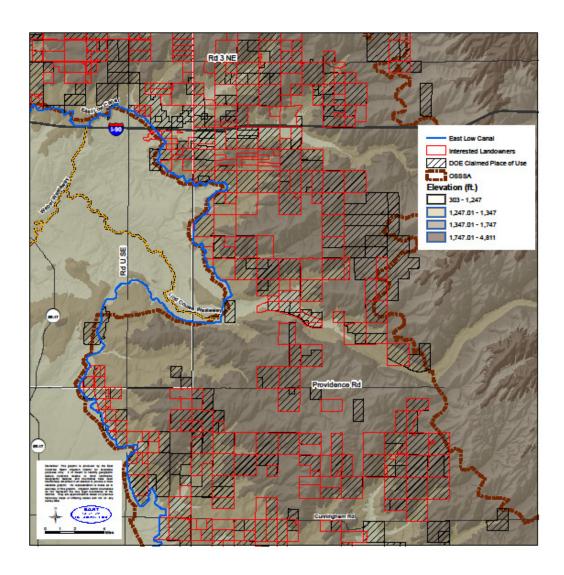


#### Preliminary Delivery System Layout

- Use established design parameters (EIS, psi, *Q*).
- Placement and Sizing of pumping plants / pipelines:
  - EPANET, WaterCAD<sup>™</sup>, Civil 3D<sup>™</sup>, ArcGIS 10.2<sup>™</sup>
- Estimated budget for systems.
- Comparison of different scenarios with design tools.
- Current funding covered under early action DOE Grant; additional funding will likely be required.
   Delivery System Layout

**GIS Tool** 

### Delivery System Layout



#### Feasibility / Verification

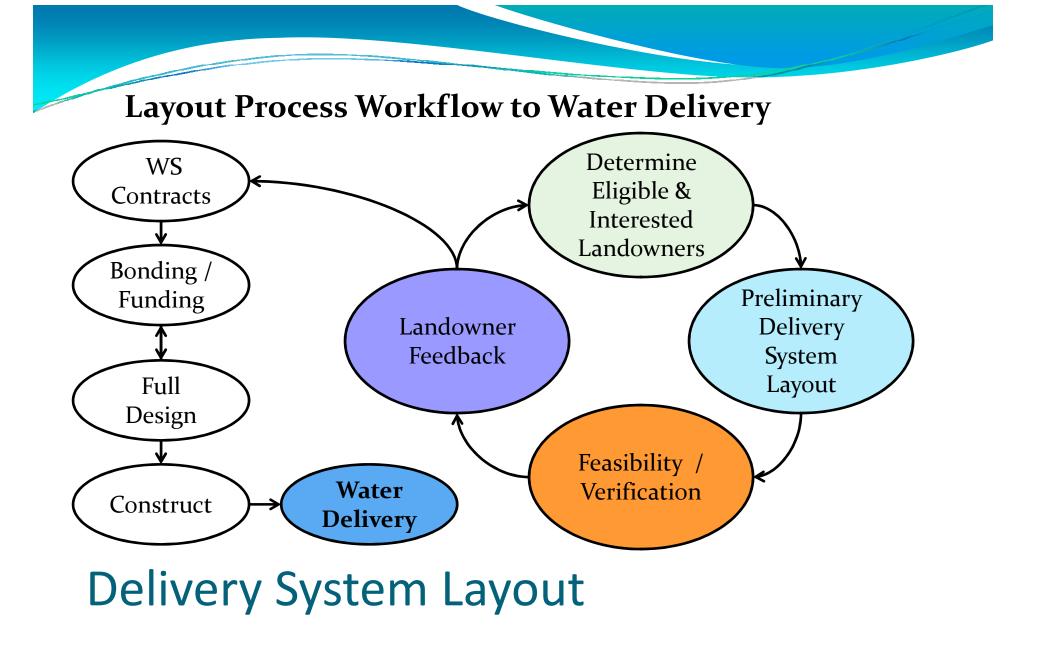
- Will scenario be reasonably financed (revenue bond or other mechanism)?
- Is the scenario feasible in terms of O&M?
- Is the scenario acceptable to the Landowners?
- Is the scenario acceptable to the Board of Directors?
- Updated cost range (\$/acre/yr) for a given term (yrs).

### **Delivery System Layout**

#### Landowner Feedback

- Present results of preliminary design and feasibility.
- Landowner meetings and mailings.
- Window for landowner actions (infill, inclusion, etc.) and responses.
- Reassessment of Landowner interest / resulting acreage.
- Refine system layout and define acceptable alternatives.

**Delivery System Layout** 



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#### **Capital Costs**

- Costs to complete ELC improvements.
- Design / Construction of pumping plants and pipelines.
- Easement acquisitions.
- Power Transmission.
- (\$/acre/yr) for given term.

### **Delivery System Costs**



#### **Operation and Maintenance Costs**

- Current O&M cost for District: \$58.62/acre/yr
- WSCs pay 75% of this O&M cost

#### **USBR Repayment Costs**

Likely repayment for (1) 2nd Bacon Siphon Tunnel Complex , (2)
 Weber Siphons and (3) System Construction Repayment

#### TOTAL COST

 Total cost (\$/acre/yr) will include fixed costs for Capital and Repayment along with varying O&M costs.

### **Delivery System Costs**

#### State, Federal and District Criteria

- State-issued ground water right permit or certificate (verified by Ecology).
- Land within the current Columbia Basin Project and Odessa Subarea Special Study Area boundaries.
- Irrigable land classification (USBR).
- Landowner must be legally able to enter into a WSC.

### **Eligibility Criteria**

### **Department of Ecology (DOE) Criteria**

- Valid water right certificate /permit.
- Eligible acreage tied water right certificate /permit.
- Ecology will issue a superseding permit identifying the well as standby-reserve.
- Monitoring system must be installed / maintained.

### **Eligibility Criteria**

#### **Department of Ecology (DOE) Criteria**

- Does not include land in the acreage expansion program.
- Conservation Reserve Program (CRP) land with qualifying water right is eligible.
- Land covered under an Odessa Reserve Form submitted before April 2, 2013 is eligible.
- Expectation of water right transfers (to in-fill lands).
- Potential to split a state-issued groundwater right between applicable lands.

### **Eligibility Criteria**

### US Bureau of Reclamation Criteria

- Land must be included within the Columbia
   Basin Project and Odessa Subarea Special Study
   Area boundaries.
- Irrigable land classification.
- Subject to RRA requirements (960 acres of Class 1 equivalent land).

### **Eligibility Criteria**

#### • District Criteria

• Water Service Contract must be signed between District and individual Landowner.



### **Eligibility Criteria**

- Ability and willingness to pay O&M and repayment costs.
- Monitoring system to ensure compliance with Contract and project requirements.

#### **New Water Service Contracts (WSC)**

- WSC between Landowner & District.
- Necessary to secure financing (e.g. Revenue Bonds).
- Likely 3 types of WSC depending on water supply.

#### **Current WSC**

• 190, 290 and 390 WSCs.

#### Master WSC

• Between USBR & District to deliver Federal water.

### Contracts

### Secondary-Use Permit

- Reclamation has applied to DOE for a secondaryuse permit to access water from storage certificate.
- Likely to be issued in the coming months.

### **Superseding Permits**

- DOE Agency Action.
- Example of this process established with 390 Contracts for Coordinated Conservation Plan water.

### **Contracts / Permits**

#### **District / USBR Ownership Discussion**

- District ownership of delivery system may have benefits for future bonding collateral.
- Reserved power benefits for District owned facilities
- Reserved transmission space for pumping plants.
- RRA in effect Federal water.
- Potential benefits for future Cultural Resources.

• Ease/cost of easement acquisition. Infrastructure Ownership

#### **Priorities**

- Eligibility Criteria MOU between Reclamation, DOE and District.
- Continuation of Delivery System Workflow for preliminary Layout/ Design/ Cost.
- Complete ELC improvements with available funding.
- Secure funding or finance remaining ELC improvements.
- Follow-up Landowner meeting in Spring 2014.

### Way Forward

#### Thank You!

• East Columbia Basin Irrigation District: (509) 488-9671 ljohnson@ecbid.org

USBR Odessa documents: http://www.usbr.gov/pn/programs/ucao\_misc/odessa/

DOE Office of the Columbia River (OCR): www.ecy.wa.gov/programs/wr/cwp/crwmp.html/

N/44/1/M

Additional CBP Development info. from the Columbia Basin Development League:

www.cbdl.org

**Discussion & Questions** 

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