

# Wildlife Corridor Habitat Enhancement & Mitigation Strategy

## Sunrise Corridor Project



### Goals

- Protect, enhance, and mitigate wildlife and wetlands *habitats* in the corridor
- Preserve and enhance *connections for wildlife passage*
- Integrate component of preserving connections to the larger *regional habitat system*.

# OBJECTIVE 1

Identify existing and potential key wildlife corridors

## *How?*

- Create an interactive map of wildlife and wetland resources and land use constraints in the region using ArcGIS.

## *GIS Layers:*

- Metro Habitat Mapping
- DEA/project Wetland & Habitat mapping
- Metro Parks
- Metro Roadkill Mapping
- Clackamas County Land-Ownership, Zoning, etc.
- ODOT Culverts, Bridges
- Preferred project corridor



## **OBJECTIVE 1 (cont.)**

Identify existing and potential key wildlife corridors

### **How?**

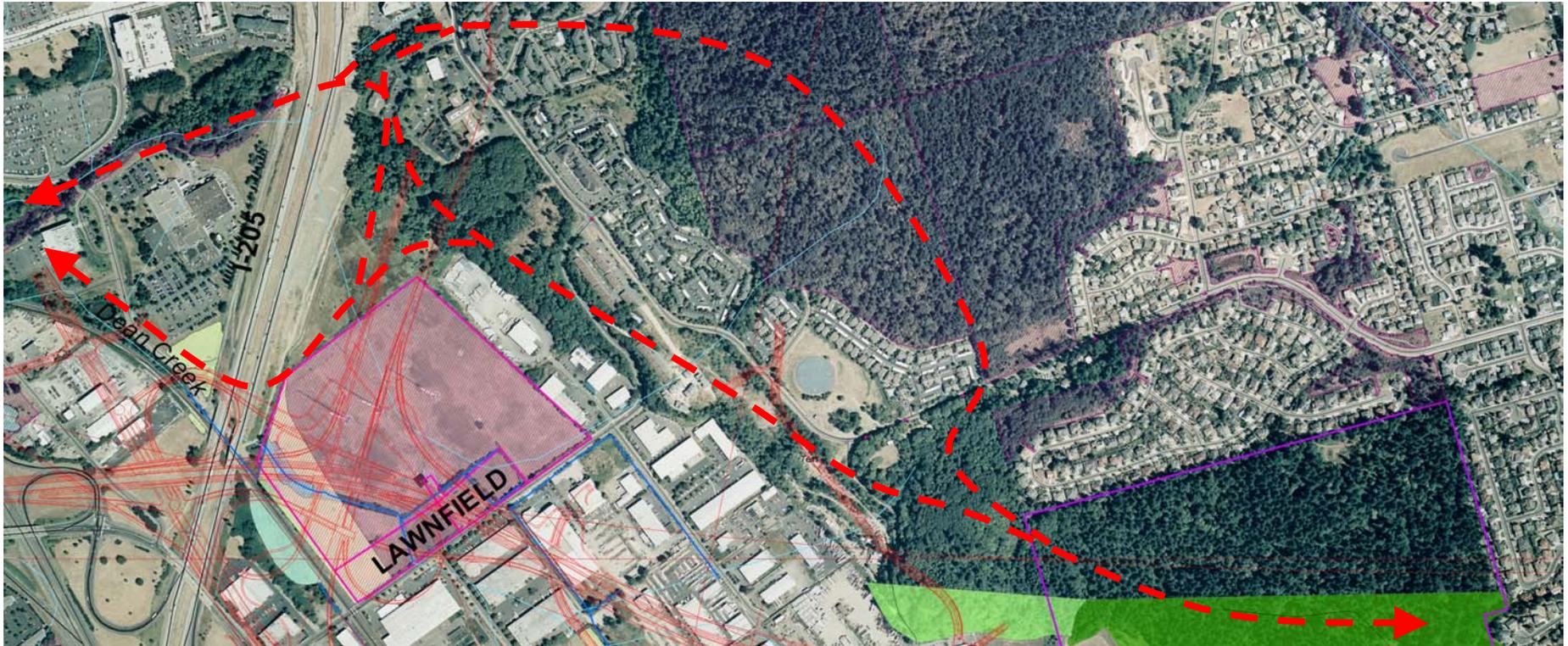
- Identify and map regional wildlife corridors based on subjective assessment of the GIS map with the cooperation of local stakeholders (CPOs, ODFW, ODOT Maintenance, etc.)
  - AKA: what are the main corridors in the project area folks want to preserve?

### **Cooperators & Stakeholders:**

- ODOT
- Metro
- Clackamas Co.
- ODFW
- Friends of Kellogg Creek
- Clackamas River Watershed Council
- Sunnyside CPO
- USFWS



Example:  
East-West Movement from Mt. Scott Cr. – Rock Creek



*Many possible routes upon preliminary investigation...*

## OBJECTIVE 2

Identify constraints, barriers, and potential disconnects to wildlife passage along key wildlife corridors and recommend solutions to address these constraints.

### *How?*

- Identify target wildlife species with potential or known occurrences in the region based on recommendations from ODFW.
  - Not completed yet
  - Mule deer, red-legged frog, song birds, ??
- Create models and maps of key wildlife corridors and habitat areas based on target species, regional wildlife corridors, and unrestrictive constraints using GIS.
  - Not completed yet
  - Unrestrictive constraint = feasible removal
  - Anticipate slightly different corridors per target species.

# GIS Example



## OBJECTIVE 2 (cont.)

Identify constraints, barriers, and potential disconnects to wildlife passage along key wildlife corridors and recommend solutions to address these constraints.

### *How?*

- Identify and map restrictive constraints to wildlife movement around the proposed Sunrise facility using Clackamas County records and input from stakeholders.
  - Not completed yet
  - Restrictive = infeasible to remove, due to public concerns (i.e., existing residential property, economically important commercial property), or prohibitive cost
  - Will help “rule out” potential wildlife corridors



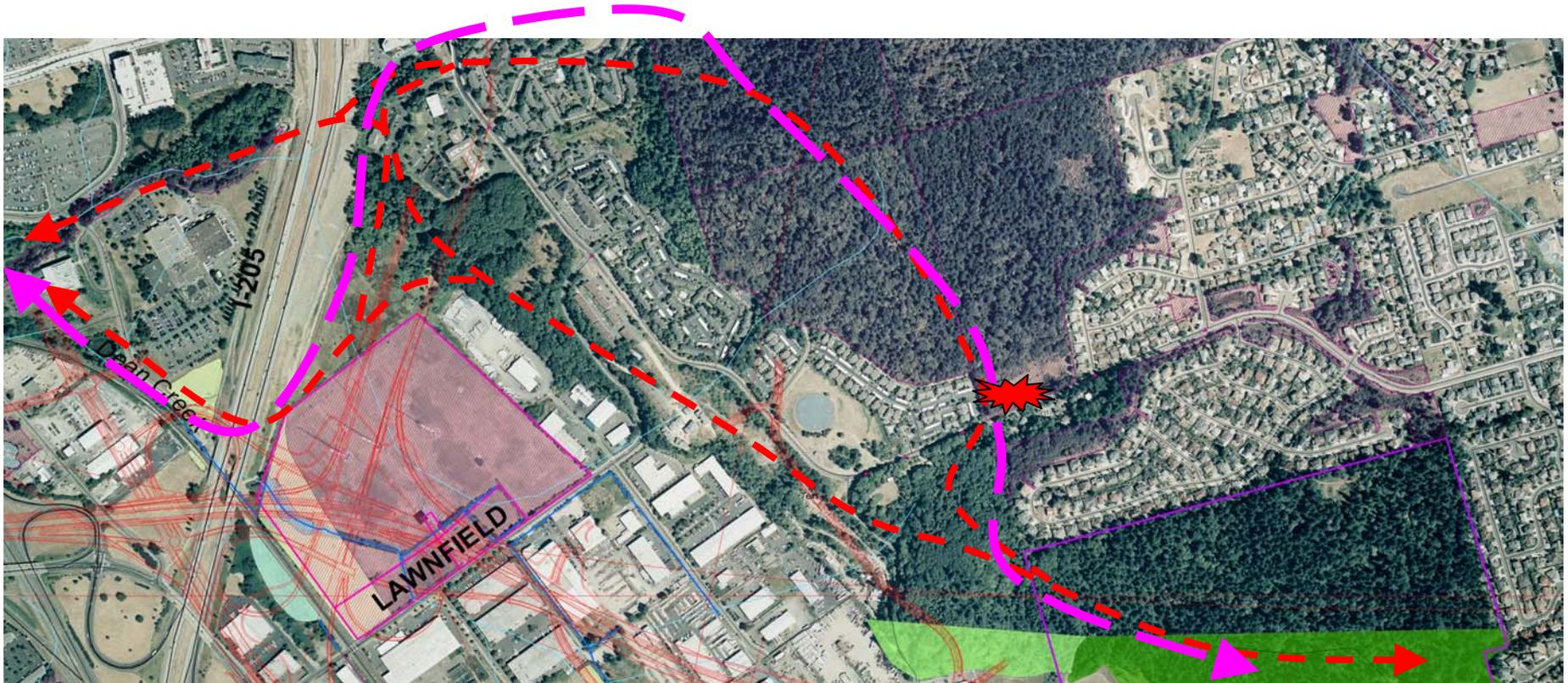
## OBJECTIVE 3

Recommend potential wildlife crossing solutions and habitat enhancements associated with the proposed Sunrise facility, including those which could serve multiple functions of wetland mitigation, stormwater treatment and detention, and wildlife habitat enhancement.

### *How?*

- Identify potential wildlife, wetland and/or stormwater enhancement opportunities that would address specific unrestrictive constraints or mitigate for restrictive constraints using habitat mapping, field surveys, and stakeholder input.
  - Some field surveys completed
  - Initial proposal, refine based on stakeholder input
- Prioritize the enhancement opportunities based on the goals of the strategy.

Example:  
East-West Movement from Mt. Scott Cr. – Rock Creek

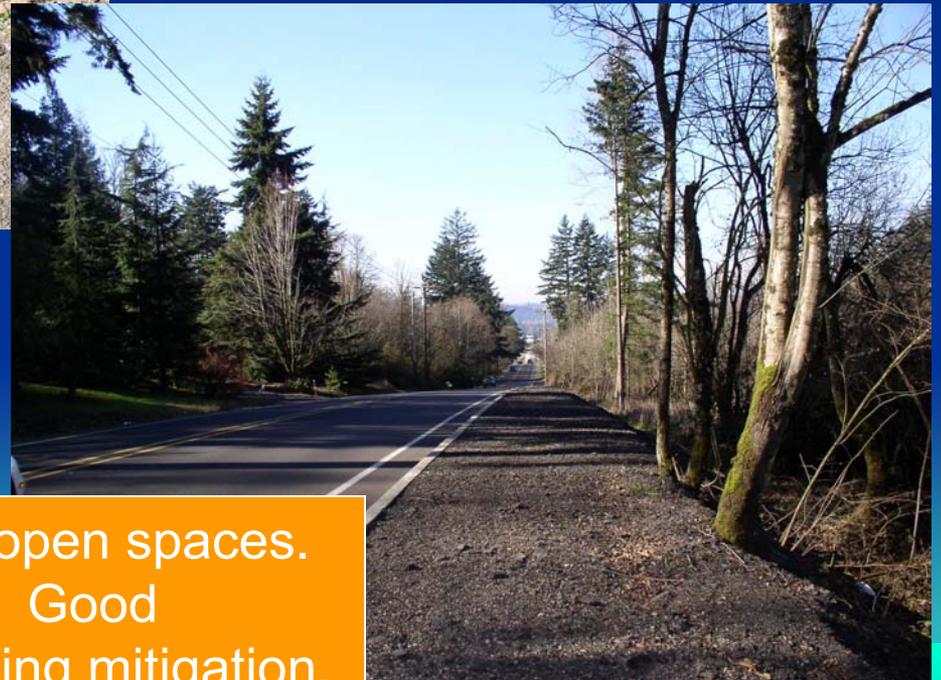


*Field survey indicated pink line may be only currently feasible corridor. It's poor quality and not currently completely protected.*

## SE 97<sup>th</sup> and Mather Rd Area (Map #1)



S-facing slope owned by T. Emmert; anticipated corridor; Good location for wildlife habitat protection mitigation.



Busy road between two open spaces. Existing roadkill hotspot. Good location for wildlife crossing mitigation.

# I-205/Mt. Scott Creek Culvert (Map #2)



Culvert is OK for fish but impassable to most wildlife species. Probably infeasible to fix due to cost.

# Dean Creek at I-205 (Map #3)



Only feasible I-205 wildlife crossing; currently marginal value for deer, birds & amphibians (poor cover). Anticipated to improve based on Sunnybrook Interchange mitigation plantings



Enhancement potential by planting more near I-205 fill slope.

# Wildlife Corridor @ SE 152<sup>nd</sup> (Map #4)



Only existing area for E-W movement of wildlife from Mt. Scott to Rock Creek basin

Enhancement Opportunities: wildlife crossing, purchase/restore/preserve adjacent properties. Depends on project design, & conflicting land-uses.

# ***Wildlife Corridor Habitat Enhancement & Mitigation Strategy***

Sunrise Corridor Project

To be continued...

