

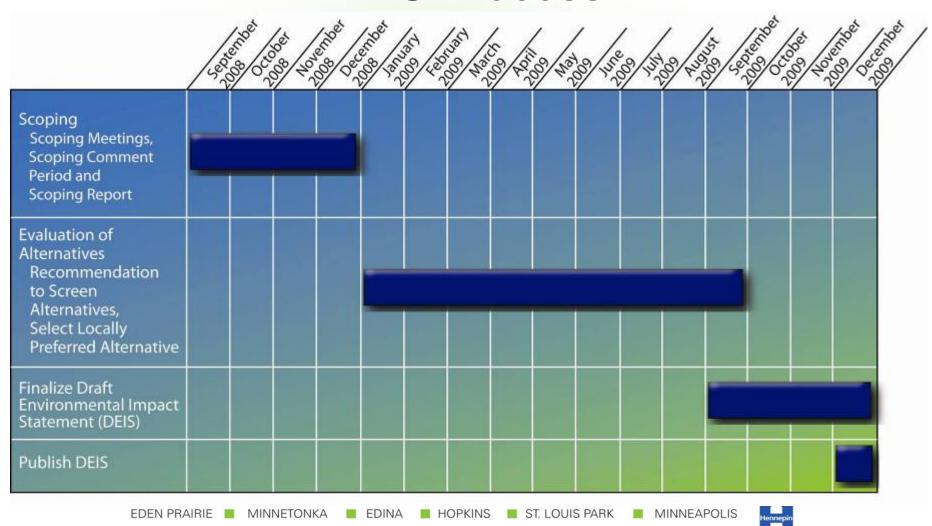
green means go.

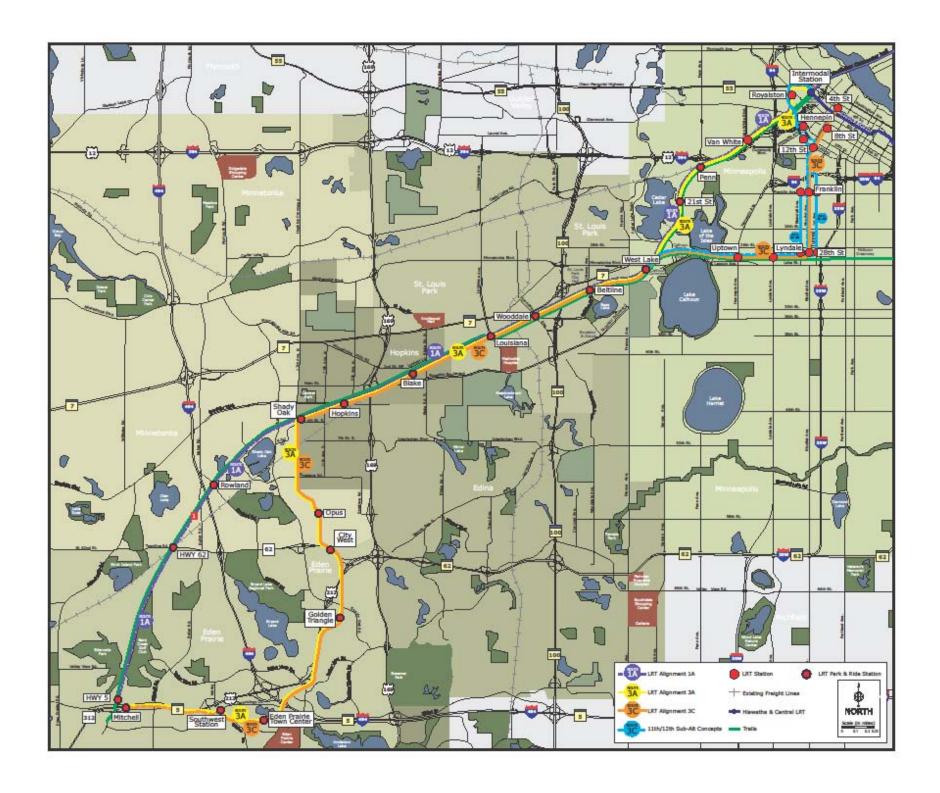
# Overview of Environmental Issues for Screening of LRT Alternatives April 8, 2009





#### **DEIS Process**





# Council on Environmental Quality (CEQ) Guidance The test of 'reasonableness' for alternatives

- Must be practical or feasible from the technical and economic standpoint and using common sense
- Not simply desirable from the standpoint of the applicant
- Not feasible if it cannot be built as a matter of sound engineering judgment

#### **Evaluation Criteria**

- Planning Compatibility
- Performance (mobility, cost, cost-effectiveness)
- Environmental Impacts/Benefits
- Other Factors

### INTENT IS TO IDENTIFY FATAL FLAWS



# **NEPA** Requirements

- Historic Resources
- Parklands and Recreation 4(f)
- Groundwater & Soil Resources
- Water Resources
- Natural Resources
- Noise & Vibration
- Hazardous or contaminated material

- Land Use and Socio-Economic
- Neighborhoods, Community Services & Community Cohesion
- Acquisition and Displacements/Relocations
- Visual Quality and Aesthetics
- Safety and Security
- Environmental Justice
- Air Quality
- > Energy



# Legal and Regulatory Resources

#### FEDERAL

National Environmental Policy Act (NEPA) Policies & Guidance <a href="http://www.epa.gov/Compliance/resources/policies/nepa/index.html">http://www.epa.gov/Compliance/resources/policies/nepa/index.html</a>

# STATE (MEPA)

Statutes and rules of the Environmental Quality Board (EQB) <a href="http://www.eqb.state.mn.us/resource.html?ld=17970">http://www.eqb.state.mn.us/resource.html?ld=17970</a>



#### State Statutes and Rules

- > Environmental Quality Board: *Minnesota Statutes* <u>116C.01-03</u>.
- ➤ Environmental policy and program coordination: *Minnesota Statutes* 116C.04, 116C.06 and 116D.10-.11.
- Water resources: Minnesota Statutes <u>103A.204</u>, <u>103A.403</u>, <u>103A.43</u> and 103B.151.
- > Environmental review: *Minnesota Statutes* 116D.04
- Environmental review: Minnesota Rules Chapter 4410.



# Resource Areas for Environmental Screening

#### **Environmental Inventory of:**

- > Historic Properties
- ➤ Natural Resources
- > Water Resources
- ➤ Section 4(f) Properties
- > Hazardous or Contaminated Material
- ➤ Geological Evaluation
- Noise and Vibration









# Why These Resources?

- Resources are highly important and impacts to them may be irreversible
- ➤ In case of 4(f) and historic, may be directed to "prudent and reasonable alternative" (avoiding impacting the resource)
- The mitigation and permits required to obtain permission to impact the resource may significantly affect budget and schedule
- ➤ Identified during Scoping Process as significant

# **Historic Properties**

- >Structures, districts, places
- >Archaeological sites
- >Traditional cultural properties







FDFN PRAIRIE

MINNETONKA

EDINA

HOPKINS

ST LOUIS PAR

MINNEAPO

Hennepin

#### **Historic Preservation**

- National Historic Preservation Act (NHPA) 1966
  - Section 106 requires Federal Agencies to consider the effects of undertaking on historic properties
  - Designates State Historic Preservation Officer (SHPO) with authority to review and concur in all determinations
- FTA delegated MnDOT as project lead
  - > APE
  - Eligible properties
  - Project effects
  - Treatments
  - Effects after treatment
- SHPO must review and concur with findings
- Test is reasonable and feasible alternative that avoids or minimizes adverse effects



# **Section 4(f) Properties**

Section 4(f) of the US Department of Transportation (USDOT) Act of 1966 prohibits the constructive use or taking of 4(f) properties for transportation purposes.

Section 6(f)Land and Water Conservation Fund Act







# **Section 4(f) Properties**

- ➤ Public parks/recreation areas
- ➤ Wildlife/waterfowl refuges
- **≻**Eligible Historic Properties
- > Archaeological sites (protection in place)

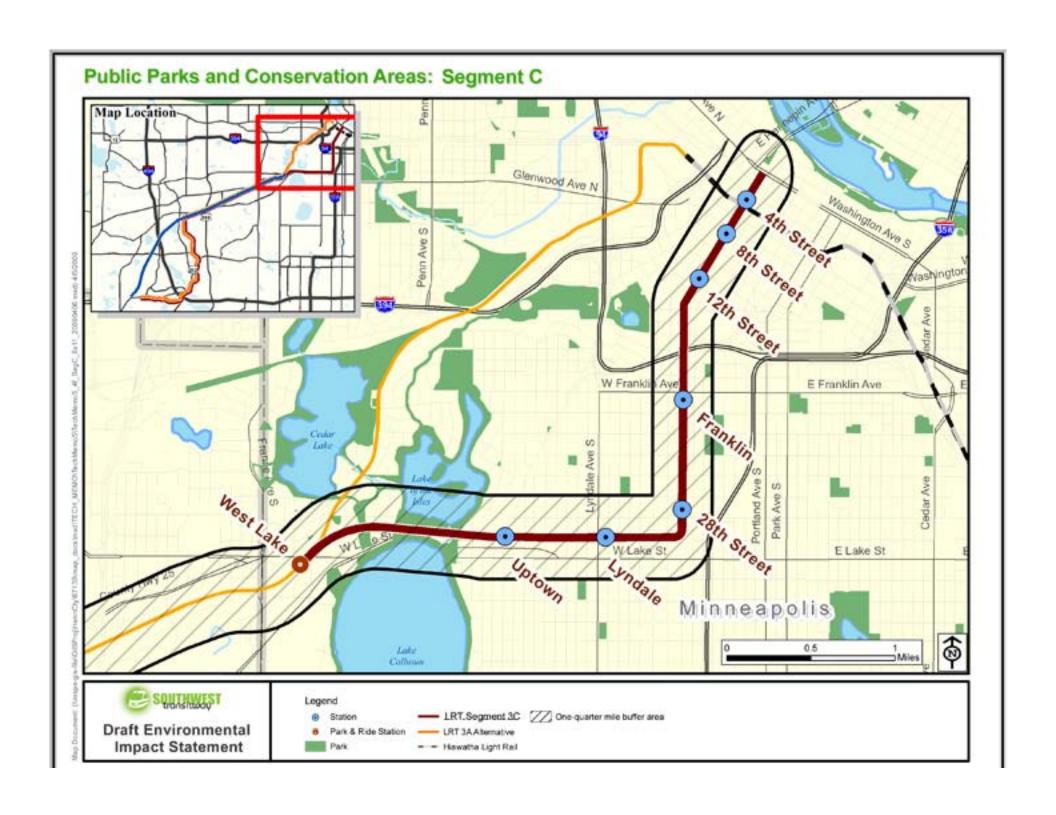






# **Section 4(f) Exceptions**

- ➤ There is no feasible and prudent alternative to the use of the land.
- ➤ The project includes all possible planning to minimize harm to the property.



#### **Natural Resources**

- ➤ Threatened or endangered (T&E) species
- ➤ Critical habitat for (T&E)
- Vegetation restoration
- > Wetland habitat for flora/fauna of interest







#### **Natural Resources**

- ➤ Section 7 Endangered Species Act (ESA) 1973
- ➤ MN Statute 84.0895 (MN Endangered Species Law)
- ➤ Migratory Bird Treaty Act 1918



- Clean Water Act (CWA) 1977
- > DNR: Protected Water Permit and Crossing License
- Multiple Watershed Management Organizations
- Local Units of Government Vegetation Ordinances & Wetland Regulation

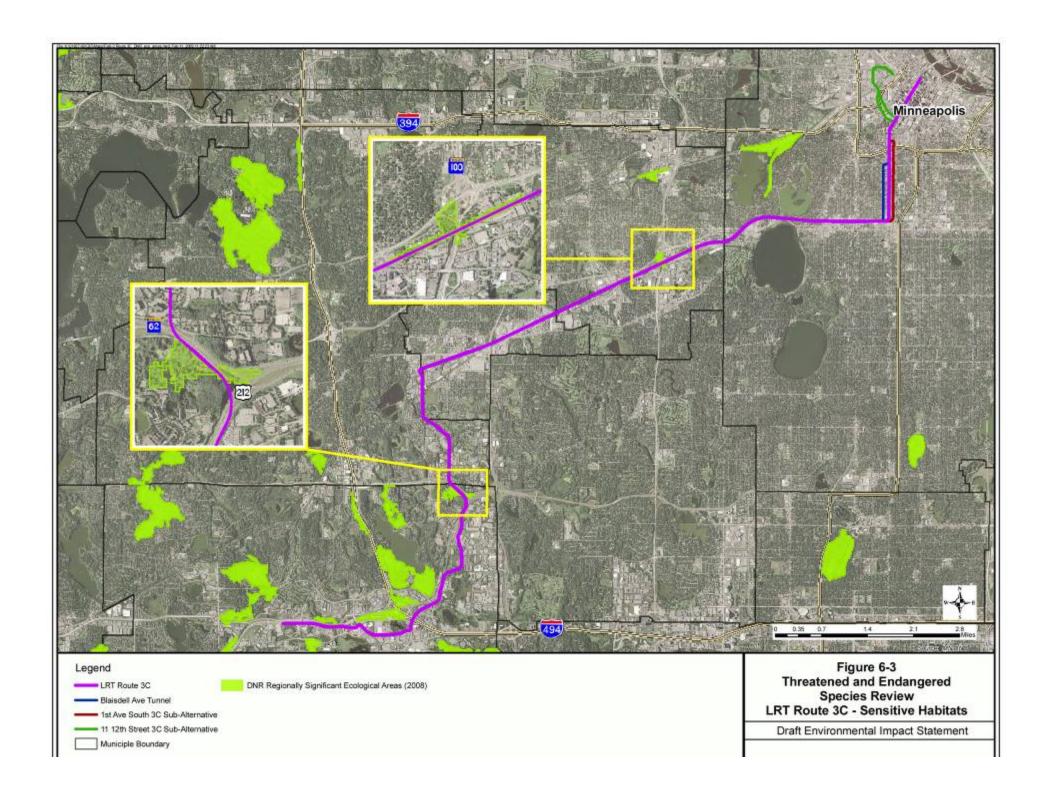


- US Army Corps of Engineers (COE)
  - Section 404 of the Clean Water Act (CWA)
  - Section 10 of the Rivers and Harbors Act of 1899
- Minnesota Department of Natural Resources (DNR)
  - Public Water Works Permits
  - License to Cross Permits
- Minnesota Pollution Control Agency (MPCA)
  - National Pollutant Discharge Elimination System Permits (NPDES)
- Local Government Units (LGU) (i.e. Minnetonka, Eden Prairie)
  - Wetland Conservation Act (WCA)
- Minnehaha Creek Watershed District (MCWD)
  - WCA for Cities of Hopkins and St. Louis Park
  - Local Watershed Permits
- Bassett Creek Watershed Management Commission (BCWMC)
  - Local Watershed Permits
- Mississippi Watershed Management Organization (MWMO)
  - Regulatory authority lies with LGU's
- Nine Mile Creek Watershed District (NMCWD)
  - Local Watershed Permits
- Riley/Purgatory/Bluff Creek Watershed District

EDEN PRAIRIE MINNETONKA EDINA

Regulatory authority Transferred to LGU's in 2008





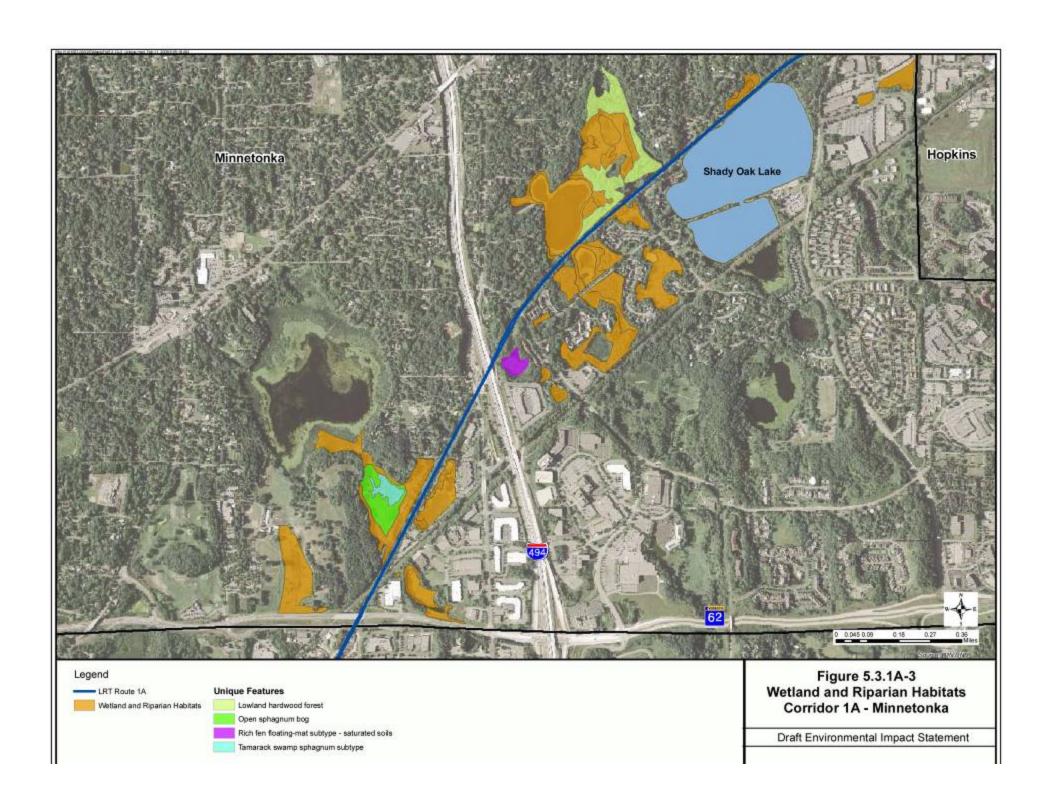
- ➤ Waters of US (Corp of Engineers 404 permit)
- > Federal Emergency Management Agency (FEMA)
- > Wetlands
- > Riparian areas
- > Floodplains
- > Watershed managements areas
- ➤ Shallow ground water
- ➤ Groundwater recharge areas

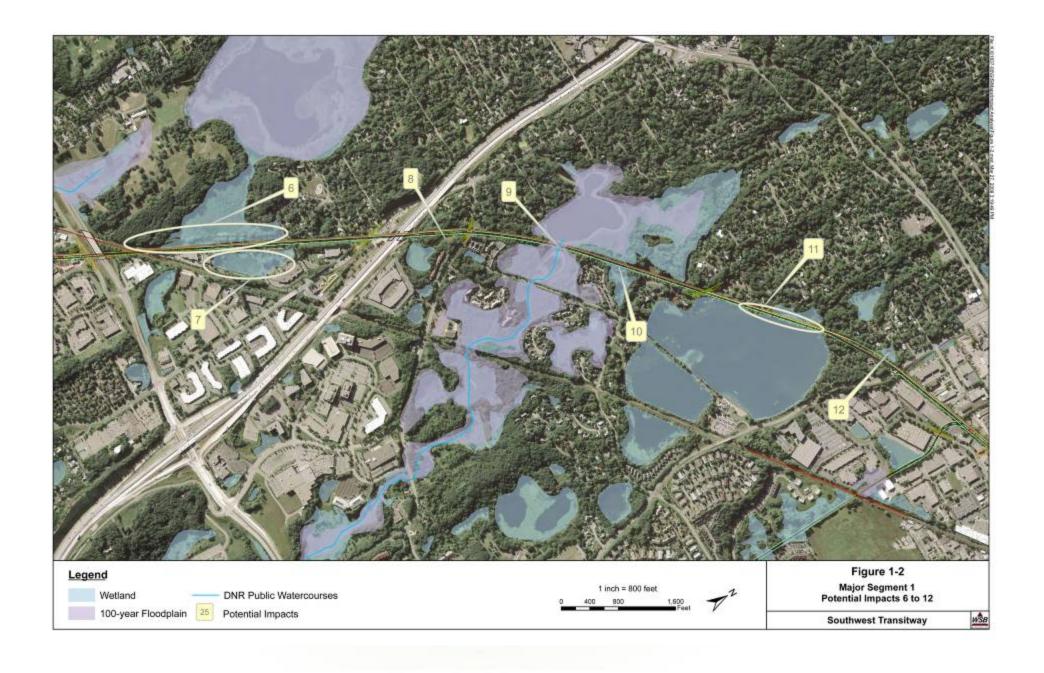


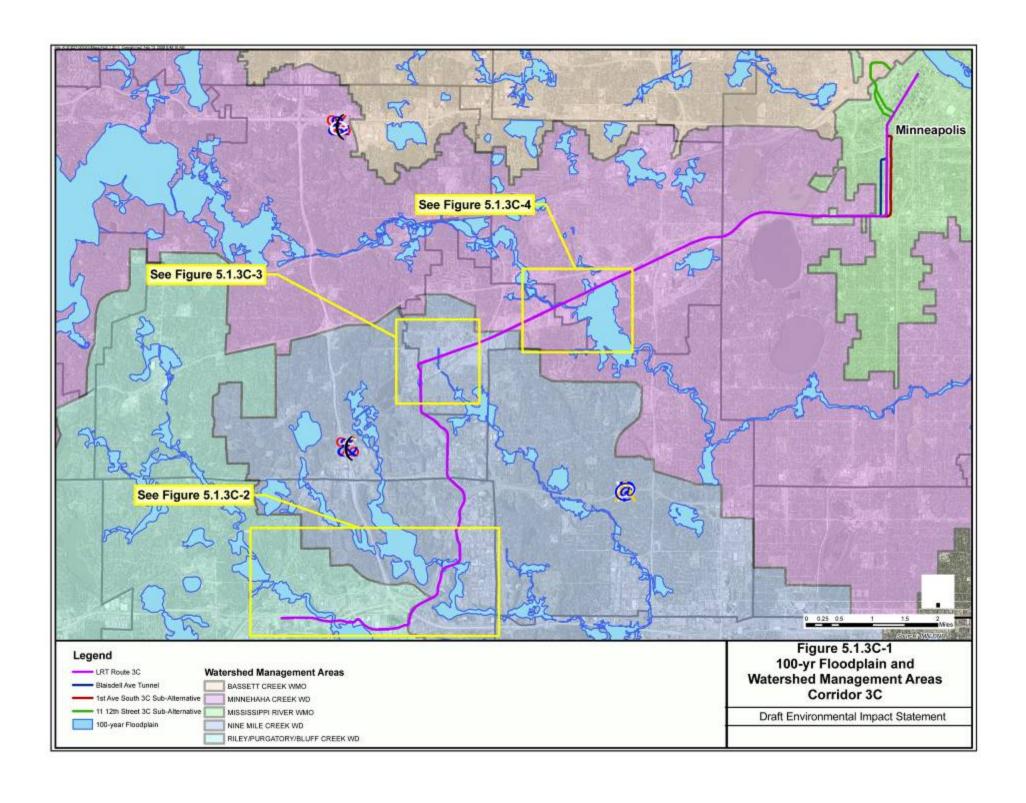


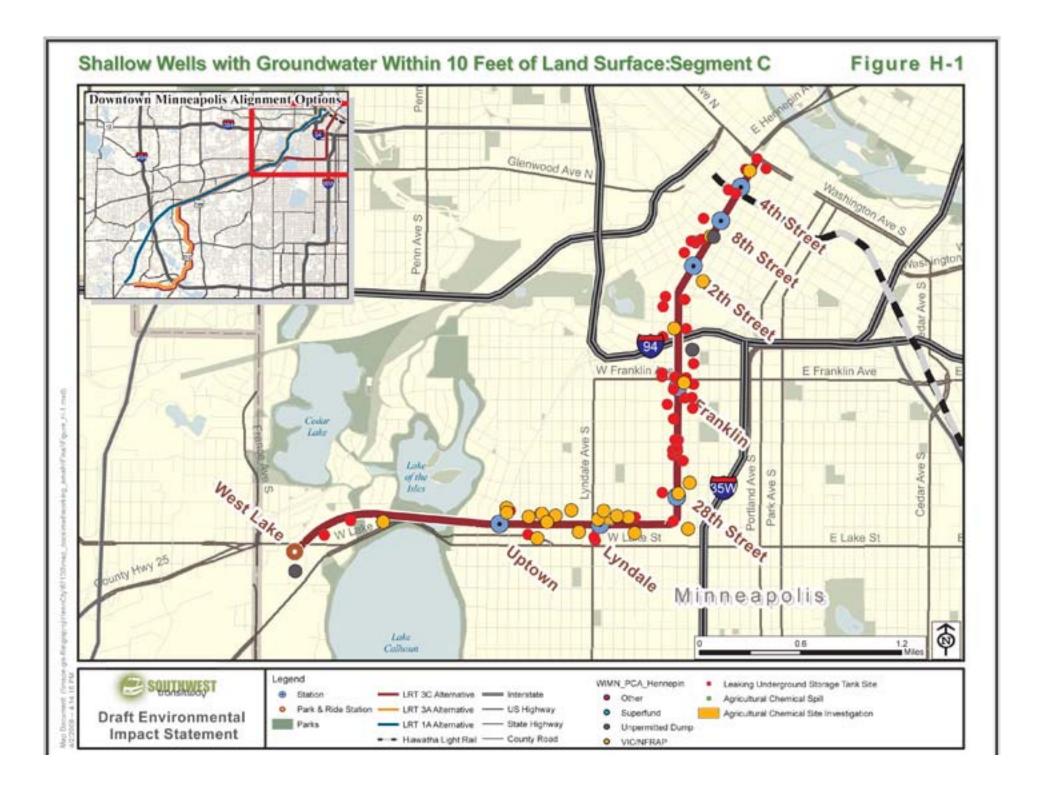


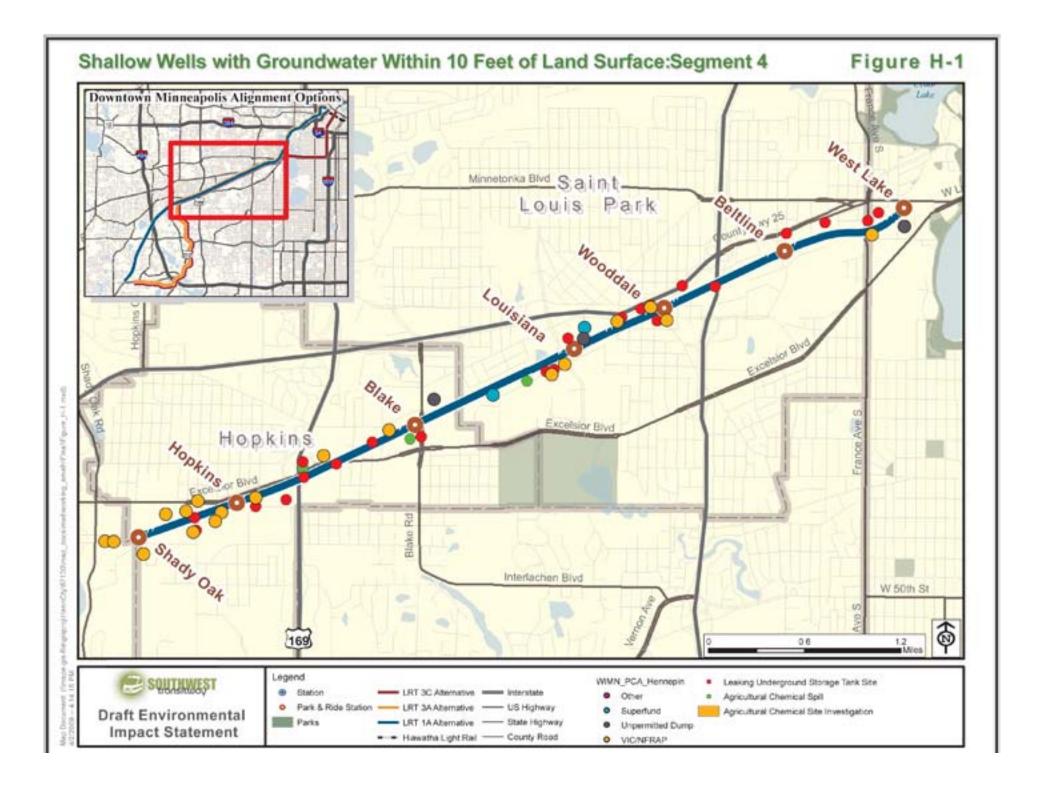
- Clean Water Act (CWA)
- ➤ Minnesota Wetland Conservation Act (WCA)
- > US Army Corps of Engineers (USACE) 404 process
- Designation of Waters of US
- > If affected requires permit
- > Loss of wetlands requires mitigation
- > USACE can dictate entirely new alignment to avoid
- > Avoid or minimize impacts is highly recommended











#### **Hazardous or Contaminated Material**

- > Potential major cost exposure
- > Understanding is important to the design process
- > Discoveries during construction play havoc with schedule



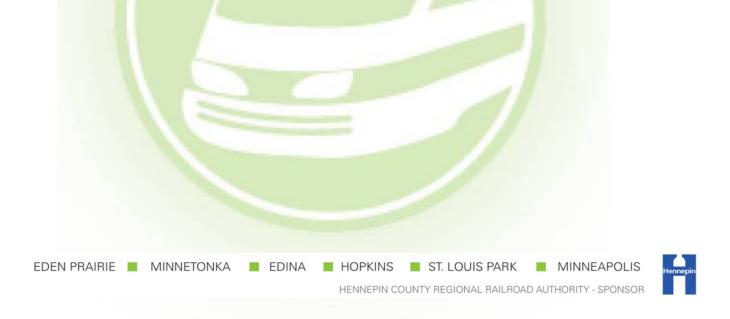


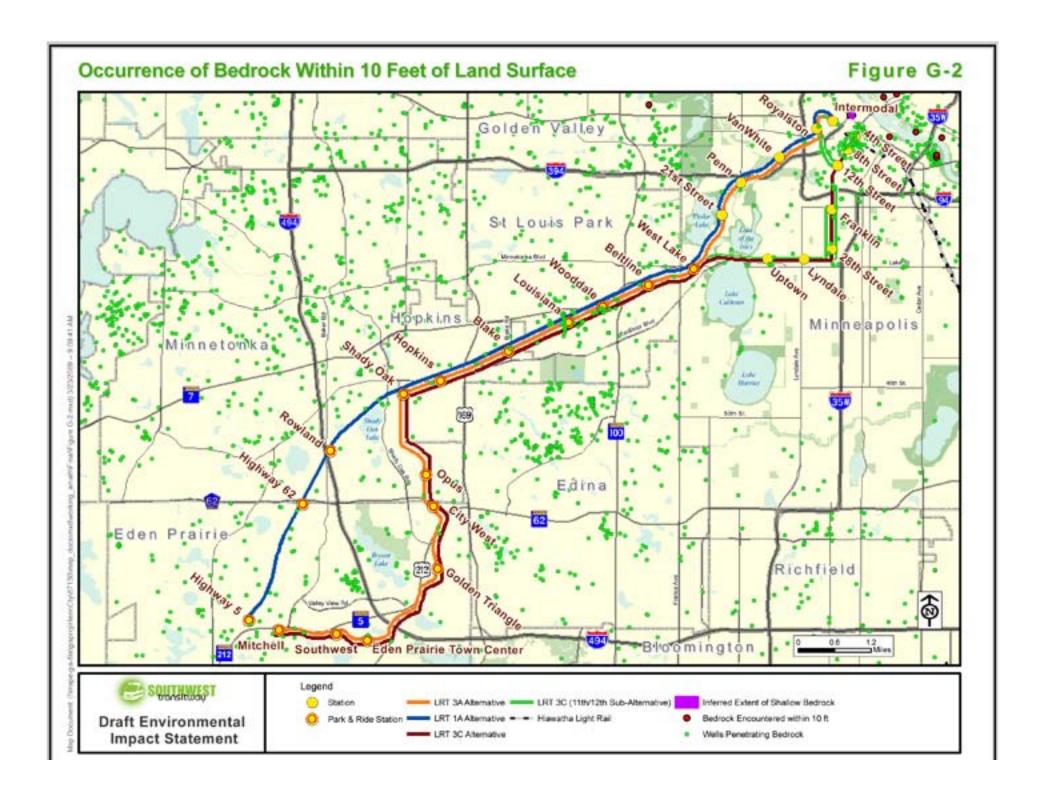


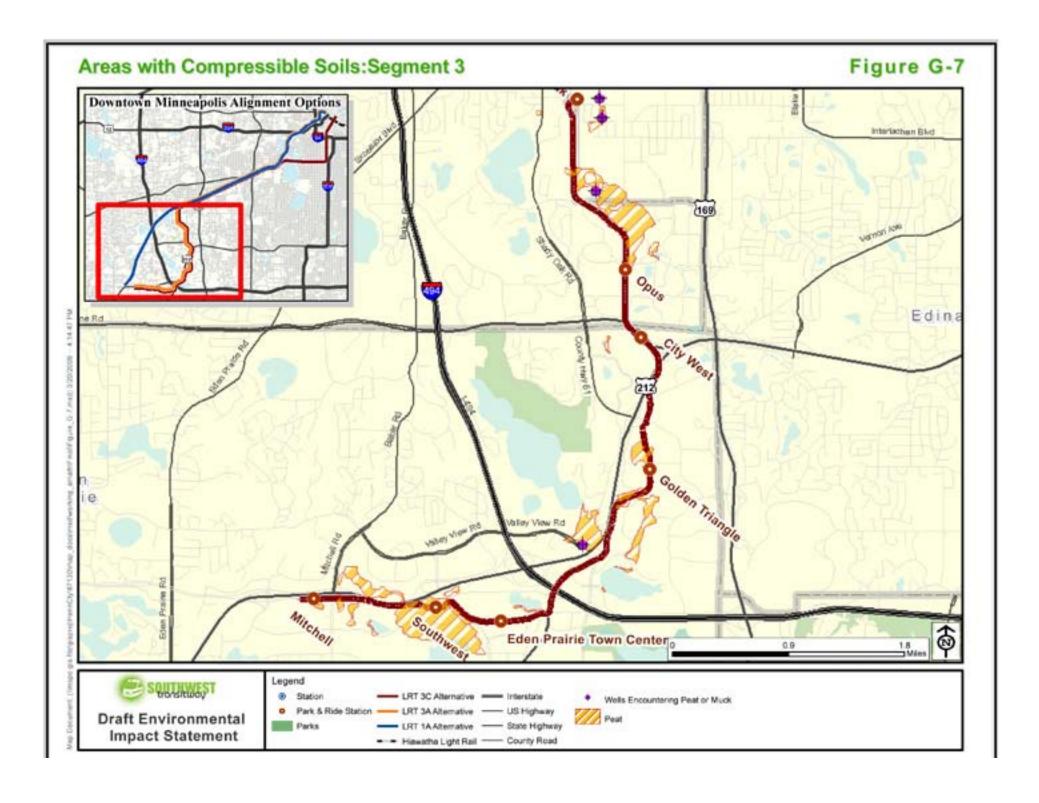


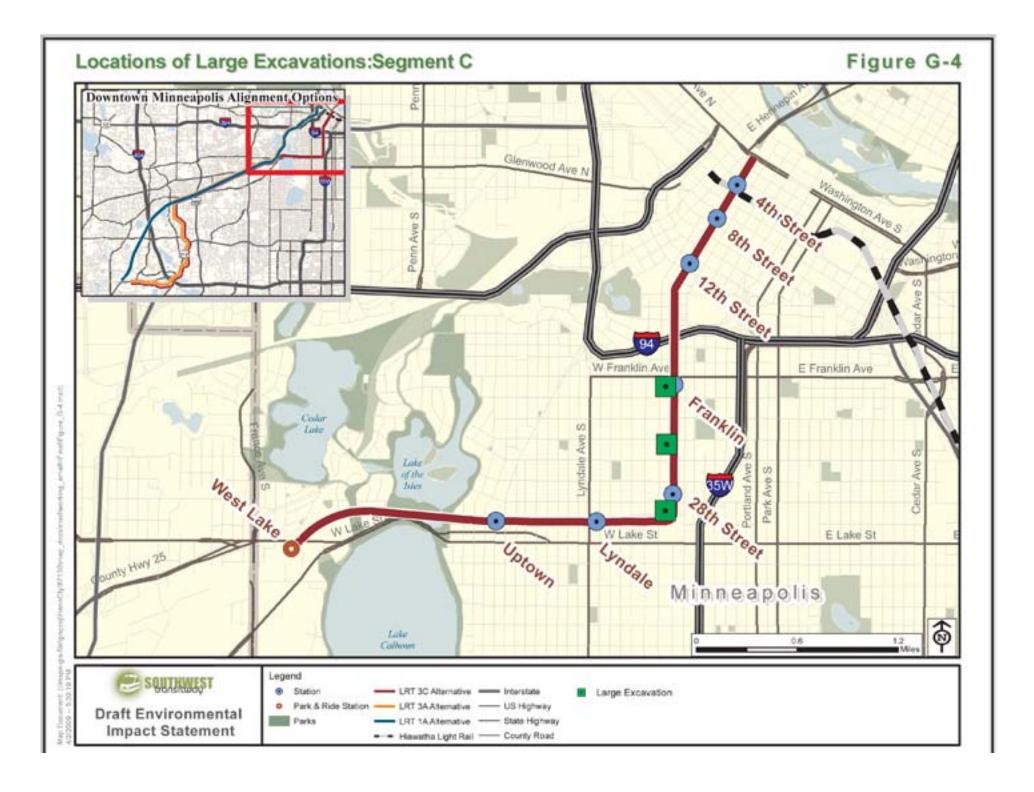
# **Geological Evaluation**

- > Can be a cost driver
- > Need to understand to develop cost estimate
- > Could influence the feasibility of an alignment





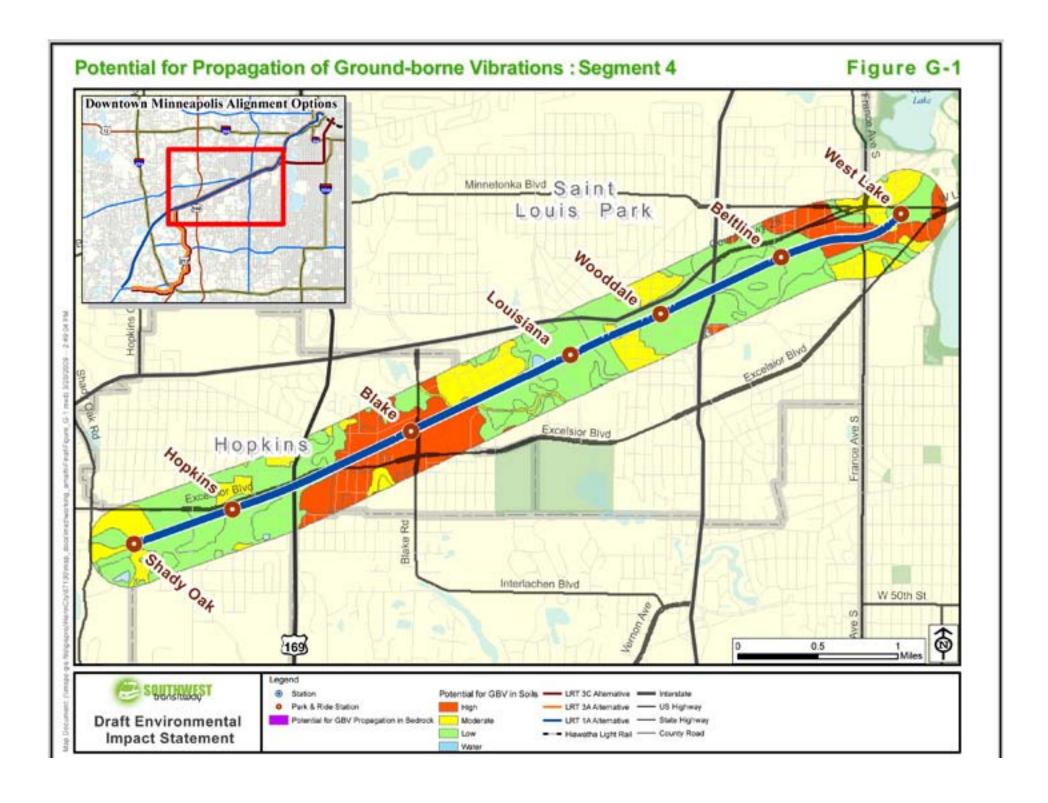




#### **Noise and Vibration**

- > Potential for ground transmission
- > Identify sensitive receptors
- Potential public concern
- Mitigation strategy may require time to establish
- > FTA Transit Noise and Vibration Impact Assessment 2006





For more information, please visit

www.southwesttransitway.org

