Human Resources

Archaeological/Historic Visual (Aesthetics) Hazardous Waste

Assessing Impacts to Cultural Resources

- Historical
- Archaeological
- Architectural
- Identify Source of Potential Impacts
 Changes in Land Use (Inundation, Destruction, Damage)
 Indirect Impacts (Treasure Hunting, Vandalism)
 Changes in Access
- Determine Study Area
 Generally the area of direct impact or adjacent properties

- properties
 Determine Existing Conditions
 SHPO (State/County/Municipality Data)
 Local Museums/Historical and Archaeological Societies
 Native American Tribes
- Colleges/Universities
 Field Reconnaissance/Surveys

Cultural Resources (cont.)

- Identify Standard
 Eligible for National Register
 Impact Prediction
 Direct
 Damage/Destruction/Vibration
- Change Character of Setting
 Assess Significance of Impacts

 - No Effect No Adverse Effect
 - Adverse Effect
- Mitigation
 Limit Magnitude of Project
 - Redesign Project Repair

 - Documentation of Structures Relocation of Properties

 - Salvage of Archaeological Materials

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Recovery as Mitigation



Assessing Impacts to Visual Resources

- AestheticVisual

- Identify Source of Potential Impacts
 Changes in Land Use (Inundation, Destruction, Damage)
 New Physical Facilities
 Obstruct views
 Out of character in built environment
 Visual intrusions
 - - Lighting
 Removal of buffers
 Isolate historic resource
- Determine Study Area
 View shed to and/or from project
 Determine Existing Conditions
 Define Study Area
 Field Reconnaissance
 Public Participation

Visual Resources (cont.)

- Identify Standard
 Federal/ State/ Local Statutes
 Zoning Policies
 Impact Prediction
 Descriptive Approach (photomontage)
 Use Scale Models
 Photographic/Computer Simulations
 Scoring Methods
 Assess Significance of Impacts
 Violate Statute/Policies
 Scoring Methods
 Mitigation
 Modify Project (location, height)
- Modify Project (location, height)
 Screening
 Selection of Color/Materials
 Underground Utilities

Stimulation

Stimulation/Mitigation

Assessing Impacts to Hazardous Materials

- Waste SitesSpill SitesStorage Sites

- Identify Source of Potential Impacts
 Changes in Land Use
 Crossing or Construction Near Sites
 Determine Study Area
 Generally the area of direct impact
 Determine Existing Conditions
 Federal Agencies (EPA)
 State Agencies (DEQ)
 County/Municipal Data (Fire/Police Dept.)
 Historic Land Use Maps (Sanborn Fire Insurance Maps)
 Historic Aerial Photographs
 Field Reconnalssance/Testing

Hazardous Materials (cont.)

- Identify Standard
 Discharge Multi-Media Environmental Goals (DMEGs)
 Ambient Multi-Media Environmental Goals (AMEGs)
 State Clean-Up Standards
 Impact Prediction
 Direct Effects
 Construction Phase
 Operation Phase
 Operation Phase
 Assess Significance of Impacts
 Any Disturbance of Site
 Exceed DMEGs / AMEGs
 Mitigation
 Avoid Sites
 Minimize Impacts to Sites
 Clean Up Site
 Containment

