

**Table 4-3. Site-Wide Environmental Management Matrix**

	POTENTIAL ISSUES																												
	Off-Site Land Use Compatibility (1)	Site-Wide Land Use Compatibility (2)	Com p. with Local Planning Policy (3)	Social or Economic Impact	Site Circulation and Parking (2)	Traffic Generation and Congestion (4)	Traffic Safety and Accidents (4)	Air Pollution Constituents (5)	Air Pollution Emissions (5)	Air Quality Attainment Goals (5)	Equipment Noise	Traffic Noise	Visibility and Visual Impact (6)	Surface Water Resources	Ground Water Resources	Storm Water	Soils	Reptiles/Meadow Jumping Mouse Habitat (7)	Upland/Tresses Orchid Habitat (7)	Wetlands (7)	Cultural Resources (8)	Use of Hazardous Materials (9)	Generation of Hazardous Materials (9)	Disposal of Hazardous Materials (9)	Power Use	Water Use	Wastewater Generation	Emergency Services	
<b>PROGRAM OF IMPROVEMENTS</b>																													
<b>Construction of New and Modification of Existing Facilities and Research Areas.</b>																													
Science and Technology Facility (S&TF)	X	X	X		X	X	X	X	X		X		X	X	X	X	X			X	X	X	X	X	X	X	X	X	X
New laboratories for plant biotechnology and research greenhouses.	X	X	X		X	X	X	X	X		X		X	X		X	X			X	X	X	X	X	X	X	X	X	X
Biorefinery pilot-scale facility.	X	X	X		X	X	X	X	X		X		X	X		X	X			X	X	X	X	X	X	X	X	X	X
Microbial water-gas shift pilot plant.	X	X	X		X	X	X	X	X		X		X	X		X	X			X	X	X	X	X	X	X	X	X	X
Facilities for whole building testing, integrated building/transportation energy systems, and consolidating staff and laboratory space.	X	X	X		X	X	X	X	X		X		X	X		X	X			X	X	X	X	X	X	X	X	X	X
Laboratory facilities for expanded fundamental hydrogen research.	X	X	X		X	X	X	X	X		X		X	X		X	X			X	X	X	X	X	X	X	X	X	X
New facility for larger scale hydrogen process development and integration.	X	X	X		X	X	X	X	X		X		X	X		X	X			X	X	X	X	X	X	X	X	X	X
Additional space for computing facility and increased connectivity.	X	X	X		X	X	X	X	X		X		X	X		X	X			X	X	X	X	X	X	X	X	X	X
Visitor's Center Expansion.	X		X		X	X	X					X	X	X		X	X								X	X	X	X	
Visitor's Center Parking Expansion.	X	X	X		X	X						X				X									X			X	

X=Issue applies or may apply  
X(red)=High sensitivity to the issue

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<b>PROGRAM OF IMPROVEMENTS</b>																												
Expansion of Field Test Laboratory Building (FTLB).		X	X		X	X	X	X	X		X		X	X		X	X				X	X	X	X	X	X	X	X
Zero Energy Building.	X	X	X		X								X	X		X	X								X	X	X	
Small Scale Wind Turbine Research & Development	X	X									X		X											X				
<b>Infrastructure Modifications and Improvements</b>																												
Gray water system.														X	X	X	X		X			X	X		X			
Additional alternative fueling stations.							X	X			X	X	X	X	X	X					X	X	X	X	X	X	X	X
Upgrade the Existing Electrical Infrastructure.										X										X				X				
Upgrade and Extend Telecommunications Infrastructure.										X										X								X
Upgrade Existing Domestic Water System.										X				X	X	X				X					X			
Upgrade Fire Protection System.																									X			X
Upgrade Sewage System.											X			X	X	X				X						X		

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