

Table 2. Conceptual Design/Programmatic Recommendations by Priority Rating

Project No. ¹	Priority Rating	Risk Rating	Concept Title	Criticality Factors ²
Structural/Liquefaction Priority 1				
S-18	1	H	SPTP Operations Building Nonstructural Seismic Upgrades	E, LS, SD, SC
S-13a	1	H	WPTP Control Building Non-Structural Seismic Upgrades	E, LS, SD, SC
S-1	1	H	SPTP Influent Pump Station Structural Retrofits	E, LS, SD, FV
S-2	1	H	WPTP Raw Sewage Pump Station Structural Retrofits	E, LS, SD, FV
S-13b	1	H	WPTP Admin/Ops Center Structural Retrofits	E, LS, SD, SC
S-20	1	H	SPTP Maintenance Building Phase I Structural Retrofits	E, LS, SD
S-19	1	H	SPTP Santler Building Structural Retrofits	E, LS, SD
SP-1B	1	H	Conduct ASCE 41 Tier 1/2/3 Seismic Evaluations - SPTP	E, LS, SD, FV
SP-1A	1	H	Conduct ASCE 41 Tier 1/2/3 Seismic Evaluations - WPTP	E, LS, SD, FV
SP-1C	1	H	Conduct ASCE 41 Tier 1/2/3 Seismic Evaluations - Brightwater	E, LS, SD, FV
SP-7	1	H	Programmatic Glass Block Upgrades	LS
Structural/Liquefaction Priority 2				
S-21	2	H	SPTP Effluent Pump Station Structural Retrofits	E, FV
S-14	2	H	WPTP Maintenance/Effluent Pump Station Structural Retrofits	E, SD
S-23	2	H	SPTP Digester Equipment Building Structural Retrofits	E, SD, FV
S-5	2	H	Duamish Pump Station Structural Retrofits	E, SD, FV, ESJ
S-6	2	H	Matthews Park Pump Station Structural Retrofits	E, SD, FV, CR26
S-3	2	H	Interbay Pump Station Structural Retrofits	E, SD, FV, CR23
S-4	2	H	Sweylocken Pump Station Structural Retrofits	E, SD, FV, CR21
Structural/Liquefaction Priority 3				
S-16	3	MH	WPTP Hypo Mixing Structural Retrofits	E, FV
L-6	3	MH	Interurban Pump Station Liquefaction Retrofit	E, ESJ, CR23
S-10	3	MH	30th Avenue Pump Station Structural Retrofits	E, CR23
S-9	3	MH	West Marginal Way Pump Station Structural Retrofits	E, SD, ESJ, CR20
L-4	3	MH	West Marginal Way Pump Station Liquefaction Retrofit	E, SD, ESJ, CR20
L-9	3	MH	Henderson Pump Station Liquefaction Retrofit	E, SD, ESJ, CR20
L-11	3	MH	Rainier Avenue Pump Station Liquefaction Retrofit	E, SD, ESJ, CR19
SP-6	3	H	Programmatic Mechanical-Electrical Upgrades	E, SD
SP-8	3	MH	Develop Seismic Standards for King County Facilities	E, SD, FV
SP-9	3	MH	Develop Seismic Standards for King County Conveyance Facilities	E, SD, FV, CD
Structural/Liquefaction Priority 4				
L-5	4	MH	30th Avenue Pump Station Liquefaction Retrofit	E, SD, CR23
L-3	4	MH	63rd Avenue Pump Station Liquefaction Retrofits	E, SD, CR20
L-2	4	MH	North Creek Pump Station Liquefaction Retrofits	E, PH, SD, FV, CR18
L-8	4	MH	Woodinville Pump Station Liquefaction Retrofit	E, SD, CR19

Project No. ¹	Priority Rating	Risk Rating	Concept Title	Criticality Factors ²
L-1	4	MH	Belvoir Pump Station Liquefaction Retrofits	E, SD, CR18
L-12	4	M	East Marginal Way Pump Station Liquefaction Retrofit	E, SD, FV, ESJ, CR22
SP-3	4	H	Conduct Additional Pipeline Evaluations	E, CD, SD, FV
LP-2	4	MH	West Point Treatment Plant Facilities Liquefaction Programmatic Assessment	E, SD, FV
LP-3	4	MH	South Treatment Plant Liquefaction Programmatic Assessment	E, SD, FV
SP-4	4	H	Evaluate/Seismic Monitoring Technologies	SD
SP-1D	4	H	Conduct ASCE 41 Tier 1/2/3 Seismic Evaluations – Offsite Facilities	E, SD, FV
Structural/Liquefaction Priority 5				
LP-1	5	MH	Additional Liquefaction Susceptible Facilities Programmatic Assessment	E, SD, FV
Other Hazards Priority 1				
F-8	1	MH	Woodinville Pump Station Flood Protection Upgrade	E, SD, CR19
F-2	1	H	York Pump Station Flood Protection Upgrade	E, PH, SD, FV, CR23
F-1	1	H	Interurban Pump Station Flood Protection Upgrade	E, ESJ, CR23
FP-2	1	H	Programmatic Flood Risk Evaluations – Offsite Facilities	E, LS, PH, SD, FV
FP-1	1	H	Programmatic Flood Risk Evaluations – SPTP & BWTP	E, LS, PH, SD, FV
Other Hazards Priority 2				
F-4	2	H	Murray Pump Station Flood Protection Upgrade	E, SD, FV, CR25
F-6	2	H	63rd Avenue Pump Station Flood Protection Upgrade	E, SD, CR23
F-7	2	M	Bellevue Pump Station Flood Protection Upgrade	E, SD, CR19
F-5	2	MH	53rd Avenue Pump Station Flood Protection Upgrade	E, SD, CR19
F-3	2	M	Matthews Park Pump Station Flood Protection Upgrade	E, SD, FV, CR26
Hazards Priority 3				
LS-2	3	MH	S Mercer Pump Station	E, CR17
XP-1	3	M	Tree Trimming/Removal Assessment Programmatic Project	SD

Table Note:

¹ Key:

CD – Consequent Damage
CR(#) – Criticality Rating Aggregate Score
E – Environment
ESJ – Equality and Social Justice
FV – Flow Volume
LS – Life Safety
PH – Public Health
SC – System Control
SD – System Downtime

² Key:

F – Flooding
FP – Flooding, Programmatic
L – Liquefaction
LP – Liquefaction, Programmatic
LS – Landslide
S – Structural
SP – Structural, Programmatic
XP – Extreme Weather, Programmatic