

APPENDIX E

Qualitative CIP Project Prioritization

Table E-1. Qualitative CIP Project Prioritization.

Proj. No.	Project Name	Problem Type	Project Classification		Risk		Project Efficiency		Funding Potential		Public Sentiment		Data Quality		Overall Priority	
			Class	Reason for Class	Rating	Reason for Rating	Rating	Reason for Rating	Rating	Reason for Rating	Rating	Reason for Rating	Rating	Reason for Rating	Priority	Reason for Priority
1.00	Sequim Area Stormwater – Watershed Plan	Stormwater system and creek capacity	Stormwater Planning	Watershed planning with impacts to stormwater irrigation, habitat, water resource management	High	Regularly occurring problem with flooding of private and public property, erosion, habitat degradation and water quality impairment. Needs to occur before other projects.	High	Multiple interested stakeholders and multiple benefits if stormwater solution is coupled with irrigation storage solution.	High	Strong candidate for funding through: watershed planning, habitat enhancement, water resource management (storage for irrigation). High potential for cost sharing with County and irrigation district.	Moderate-Low	Limited interest from general public.	High	Long history of frequent problems and multiple past studies.	High	High risk problem, contender for grant funding and high project efficiency.
1.02	Bell Creek Overflow Channel Upgrade at Rhodefer Road (RM 1.4)	Bell Creek capacity	Upgrade	Upgrade culvert and channel capacity	High	Regularly occurring problem with flooding of Park; habitat degradation.	Moderate	Restoration work could be simple or extensive on this portion of Bell Creek.	Moderate-High	Culvert may be a fish passage barrier.	Low-Moderate	Park flooding is minor nuisance.	Moderate-High	Problem easy to define and resolve.	High	Well-documented high risk that may be grant eligible, located at downstream end of Bell Creek.
1.04	Bell Creek Culvert Upgrade at Blake Avenue (RM 1.5)	Bell Creek capacity	Upgrade	Replace existing culvert with larger culvert	High	Occasionally (every 2 or 3 years) floods residential street and entrance to public park.	Low	No known concurrent projects planned.	Moderate	Removal of fish passage barrier may be eligible for grant funding.	Moderate	No current complaints but highly visible location next to park.	Moderate	Risk well understood, but Sequim Area Stormwater-Watershed Plan recommendations unknown.	High	Well-documented high risk that may be grant eligible, located at downstream end of Bell Creek.
1.06	Bell Creek Culvert Upgrade at Blake Road (RM 1.6)	Bell Creek capacity	Upgrade	Replace existing culvert with larger culvert	High	Annually floods City Park and erodes banks, paved trail. Adjacent homes at risk.	Moderate	High potential for habitat restoration.	Moderate-High	Removal of fish passage barrier may be eligible for grant funding.	Moderate-High	Public opinion that this is an important problem.	Moderate	Risk well understood, but Sequim Area Stormwater-Watershed Plan recommendations unknown.	High	Well-documented high risk that may be grant eligible, located at downstream end of Bell Creek.
1.07	Bell Creek Culvert Upgrade at Washington (RM 1.8)	Bell Creek capacity	Upgrade	Replace existing culvert with larger culvert	High	Annually floods arterial street and driveways to businesses.	Low	Possible implementation with South Brown improvements.	Moderate-High	Removal of documented fish passage barrier may be eligible for grant funding.	High	Strong public opinion that this is an important problem.	Moderate	Risk well understood, but Sequim Area Stormwater-Watershed Plan recommendations unknown.	High-Moderate	Well-documented high risk that may be grant eligible.

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1.08	Bell Creek Culvert Upgrade at RM 1.85 (driveway from S Brown)	Bell Creek capacity	Upgrade	Replace existing culvert with larger culvert	Moderate	Annually floods driveways to businesses.	Low	Possible implementation with South Brown improvements.	Moderate	Removal of fish passage barrier may be eligible for grant funding.	High	Strong public opinion that this is an important problem.	Moderate	Risk well understood, but Sequim Area Watershed Plan recommendations unknown.	High-Moderate	Well-documented moderate risk that may be grant eligible.
1.09	Middle Reach Bell Creek Corridor Planning	Bell Creek capacity	Stormwater Planning	Watershed planning with impacts to stormwater irrigation, habitat, water resource management	High	Regularly occurring problem with flooding of private and public property, erosion, habitat degradation and water quality impairment. Needs to occur before other projects.	High	Multiple interested stakeholders and multiple benefits.	High	Strong candidate for funding through: watershed planning, habitat enhancement, and water resource management (aquifer storage).	High-Moderate	General public interest in restoration of this area.	High	Long history of frequent problems and multiple past studies.	High	Multiple high risk projects are dependent on this plan.
1.10	Bell Creek Culvert Upgrade at Hammond (RM 2.2)	Bell Creek capacity	Upgrade and maintenance	Replace existing culvert with larger culvert and maintain vegetation around upstream end	Low	Backs up into undeveloped private property, but no flooding of street. Located upstream in the Bell Creek culvert corridor.	Low	No known concurrent projects planned.	Moderate	Removal of fish passage barrier may be eligible for grant funding.	Moderate-Low	No current complaints and low visibility, but future visibility depends on proposed solution (i.e., a future restoration project may include access).	Moderate	Risk well understood, but Sequim Area Watershed Plan recommendations unknown.	Low	Low risk and low priority culvert replacement, mostly a maintenance issue.
1.18	N Brown Road Drainage Improvements at Washington	Drainage	Upgrade	Treating or infiltrating stormwater is an upgrade from direct discharge to Bell Creek	Moderate	Direct discharge contributes limited pollutant load to creek.	Low	No known concurrent projects planned.	High	Contender for water quality grant funding.	Moderate	Urban degradation and trash accumulation can be a safety concern and is bothersome to public.	High	Field observations made by City staff.	Moderate-High	Low risk problem, but good candidate for grant funding.

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2.01	S 2nd at Washington	Drainage and/or drywell capacity	Upgrade	Runoff doesn't infiltrate, deep ponds affect traffic and erode landscaping in ROW	Moderate	Eroded ROW results in clogging of City facilities which then need maintenance.	Low	No known concurrent projects planned.	Low	Limited water quality or other improvements.	Moderate	Fairly high visibility but no complaints from public.	High-Moderate	Field observations made by City staff; grade may be a related issue.	Moderate	Problem area for City maintenance staff but fairly low risk otherwise.
2.04	S 3rd Avenue (west ROW south of Bypass) Drainage Improvements	Drainage	Upgrade	Pipes or roadside ditch is an upgrade from flooding situation due to City street runoff	High	High frequency flooding on private property could escalate to property damage.	Low	No known concurrent projects planned.	Low	Limited water quality improvements.	Moderate	Low visibility site but a concern for commercial and school property owners.	High	Field observations and flood response by City staff.	High	High risk flooding problem on private property, eroding City ROW.
2.05	N 5th Avenue and Cedar Structure Upgrade	Drywell capacity	Upgrade	Upgrade drywell to restore infiltration rates	Moderate	Frequently floods crosswalk creating hazardous condition for pedestrians.	Low	No known concurrent projects planned.	Moderate	Improved groundwater quality protection.	Moderate	Corrects deficiency at moderately visible site.	High	Field observations made by City staff and complaints received.	High-Moderate	Moderate risk flooding of public crosswalk, well known problem and documented complaints.
2.12	7th Avenue and Washington Upgrade	Drywell/drain line capacity	Upgrade	Upgrade facilities to restore infiltration rates	High	Frequently floods major arterial intersection.	Low	No known concurrent projects planned.	Moderate	Improved groundwater quality protection.	High-Moderate	Corrects deficiency at highly visible site.	High	Field observations made by City staff and complaints received.	High-Moderate	High risk flooding of arterial, well known problem and documented complaints.
2.14	N Blake and E Fir Drainage Improvements	Drainage	Upgrade	Structure at appropriate grade or infiltration rate will improve drainage	Moderate	Nuisance flooding of intersection with most rainstorms; affects crosswalk.	Moderate	E Fir Street upgrade planned.	Low	Limited water quality improvements.	Moderate	High visibility site, at Park entrance.	High	Field observations made by City staff and complaints received.	Moderate	Low risk but well-known problem with documented complaints.
2.17 (2.29 added)	S Brown and Hammond Drainage Improvements	Drainage	Upgrade and stormwater planning	Improving and/or re-directing drainage will reduce flooding along E Hammond	High	Regular flooding of commercial driveways.	Low	1.00 and 1.09 address this problem.	Moderate	Long-term resolution would reduce runoff and water quality impacts to Bell Creek.	High-Moderate	High visibility site, affects entrance to Senior Center.	High	Field observations, regular flood response and mitigation by City staff, and complaints received.	High-Moderate	Risk well understood, but Stormwater Planning Project (1.00, 1.09) recommendations unknown.

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2.23	Centennial Place Infiltration and Inflow Investigation	I/I issue	Upgrade	Redirect stormwater flows from sewer to existing or new stormwater system	High-Moderate	Continuous but limited stormwater flow to sewer. Added water to sewer increases risk/lowers resiliency.	Moderate-Low	Centennial Place (City Park) improvements on CIP but not near future.	Moderate	Limited water quality improvements, but City Parks improvement may have grant potential.	Low	Low visibility site.	High	Field observations made by City staff.	High-Moderate	High-Moderate risk problem due to sewer inflow.
2.25	Etta Street Infiltration and Inflow Investigation	I/I issue	Upgrade	Redirect stormwater flows from sewer	High-Moderate	Continuous stormwater flow to sewer. Added water to sewer increases risk/lowers resiliency.	High	Etta St on CIP for 2016 or 2017.	Low	Limited water quality improvements but sewer benefits.	Moderate-Low	Affects businesses with access off Etta.	Moderate	Field observations made by City staff, but extent of connections unknown.	High-Moderate	High-Moderate risk problem.
2.26	River Road Storage Project	Stormwater system capacity (often via irrigation conveyances)	Planning	Planning for joint irrigation/stormwater detention	High	High flow in irrigation canal contributing to multiple high risk flooding problems in City and receiving waters.	High	Multiple interested stakeholders and multiple benefits if stormwater solution is coupled with irrigation storage solution.	High	Strong candidate for funding through: watershed planning, habitat enhancement, water resource management (storage for irrigation). High potential for cost sharing with County and irrigation district, etc.	Moderate	Limited interest from general public, but high interest among affected parties.	High	Long history of frequent problems and multiple past studies; feasibility information available from irrigation managers.	High	High risk problem, contender for grant funding and high project efficiency.
2.28 (related to 2.64 and 4.10)	W Fir between N 5th and Sequim Avenue	Drainage	Upgrade	Street scheduled for reconstruction	Moderate	Surface damage due to lack of stormwater facilities.	High	Street is scheduled for reconstruction.	Moderate	Long-term resolution would reduce runoff to Gieren Creek and street damage.	High	Main arterial access to schools. Corrects deficiency and surface damage.	High	Field observations made by City staff and public.	High	Moderate-High risk problem, but has high public sentiment and efficiency.

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2.34	Clara Crest Way/ Highland Hills Runoff Abatement	Drainage	Upgrade	Rehabilitate detention pond(s) or other project	High-Moderate	Flooding and risk to City streets, private property, receiving waters.	High	Discussions with Homeowners' Assn. and County underway.	Moderate	Resolution would reduce runoff and water quality impacts to Bell Creek.	Moderate	Big concern for residents of Miller Rd.	High	Issue is Well-documented, but pond performance is not fully known.	High-Moderate	High-Moderate risk problem with high project efficiency.
2.49	Silberhorn and River Road Drainage Improvements	Drainage	Upgrade	Currently no drainage system	Moderate-Low	Frequent flooding erodes roadway and requires flood response during storms.	Low	Unless County cooperates on resolution.	Low	Limited water quality improvements.	Moderate	Nuisance for frequent users.	Moderate	Field observations made by City staff and complaints received.	Moderate	Nuisance, but ponded runoff eventually drains/ infiltrates.
2.53	W Spruce Street Structure Upgrade	Infiltration capacity	Upgrade	Upgrade facilities to restore infiltration rates	Moderate	Frequent flooding of road and private garage with street runoff.	Low	Isolated problem.	Low	Limited water quality improvements.	Moderate	Complaints about flooding.	Moderate	Field observations made by City staff and complaints received, but unknown if long-term solution requires upgrade.	Low	City recently maintained structure and just needs to monitor flooding.
2.62	Roadside ditch along West Sequim Bay Rd uphill from Marina	Drainage	Upgrade	Replace culverts and upgrade ditches to provide more capacity	Low	Overflow is relatively rare.	Low	No known concurrent projects planned.	Low-Moderate	Johnson Creek and Sequim Bay are receiving waters for ditch overflow.	Low	No complaints.	Low	Specific cause and timing of flooding is unknown.	Low	Low risk problem.
2.63	W Prairie Street Green Street Upgrade (between Sequim Avenue and 2nd Avenue)	Drainage	Upgrade	No drainage facilities currently; needs green infrastructure	Moderate	Street runoff enters private property and ponds or infiltrates.	High	Street and utility upgrades also needed.	High-Moderate	Potential pilot project; combine with utility upgrades.	High	Neighborhood revitalization is a Council goal.	High	Field observations made by City staff and complaints received.	High	High project efficiency, sentiment, and funding potential.
2.64 (related to 2.28 and 4.10)	W Fir between 5th and Sequim Avenue Drainage Improvements	Drainage	Upgrade	Ineffective drainage, street runoff flows onto school property near Admin bldg.	Moderate	Street runoff enters private property, ponds against Admin. bldg. foundation.	High	Street and utility upgrades needed as well, on CIP for 2016-17.	High	In conjunction with W Fir improvements underway.	Moderate	School District concerned about ponding next to foundation.	Moderate-High	Observed by School District and City staff.	High	Efficiency with other projects along Fir St.

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2.67	E Cedar south side east of Dunlap	Drainage	Upgrade	Upgrade drainage facilities.	Moderate	Flooding of private property.	High	City has already added berm to direct flows around private property.	Low	Limited water quality improvements.	Moderate	Flooding of private property.	High	Field observations made by City staff.	Moderate	City recently added berm to direct flows, needs to monitor drainage further downstream.
2.68	Emerald Highlands ponds	Drainage	Maintenance	Detention ponds need maintenance.	Moderate-High	Ponds over flow to Bell Creek at 101 off-ramp.	Low	No known concurrent projects planned.	Low	To be conducted as O&M activity.	Low-Moderate	Corrects deficiency; addresses local residents' complaints.	High	Field observations made by City staff.	Moderate-High	City recently maintained north pond; south pond still needs maintenance.
2.74	Washington & Sequim intersection	Drainage/infiltration capacity	Maintenance/upgrade	Maintain or upgrade facilities to restore infiltration rates.	Moderate	If flooding occurs, would be at major intersection.	Low	No known concurrent projects planned.	Moderate	Some water quality improvement potential if treatment capabilities are added.	Moderate	Corrects deficiency at high-visibility site.	High	Field observations made by City staff and public.	Moderate-High	City responsibility to correct problem, though relatively low risk.
2.75	9th Avenue and Honeycomb	Drainage	Upgrade	Upgrade drainage system.	Moderate	Some ponding and surface damage to street.	Low	No known concurrent projects planned.	Moderate	Long-term resolution would reduce runoff and street damage.	Moderate	Corrects deficiency and surface damage.	Moderate-High	Field observations made by City staff.	Moderate	Moderate risk problem due to lack of stormwater facilities.
3.01 (also formerly 2.43)	Seal Street Drainage Improvements	I/I Issue and drainage	Upgrade	Divert flows from alley and/or infiltration pipes to a new or existing infiltration system	Moderate	Frequent flooding of alley properties, private parking lot and nearby apartments.	Low	No known concurrent projects planned.	Low	Limited water quality improvements.	Moderate	Complaints about flooding in parking lot off Cedar.	Moderate	Field observations made by City staff and complaints received, but unknown if solution requires major upgrade.	Moderate-High	City recently maintained parking lot facility; alley runoff may still need to be addressed.
3.02	N 7th Avenue Structure Maintenance/Upgrade	Infiltration facility maintenance/capacity	Maintenance/upgrade	Maintain or upgrade facilities to restore infiltration rates	Moderate	Frequent flooding of private parking lot with City street runoff.	Low	No known concurrent projects planned.	Low	Limited water quality improvements.	Low	Low visibility.	High	Field observations made by City staff and complaints received, but unknown if resolved.	Moderate	Public connection to private system removed Fall 2015; staff will observe results.
3.04	S 7th Avenue Drainage Improvements	Stormwater in irrigation system	Upgrade	Divert public street runoff from irrigation system to stormwater system	Low	No flooding.	Low	No known concurrent projects planned.	Moderate-Low	Irrigation system discharges to Gierin Creek.	Low-Moderate	Low visibility except for owner (irrigation company).	High	Field observations made by City staff and irrigators.	Moderate-Low	City responsibility to correct problem, though relatively low risk.