

# CITY COUNCIL AGENDA BILL # AB22-0029

#### City of Algona 200 Washington Blvd. Algona, WA 98001

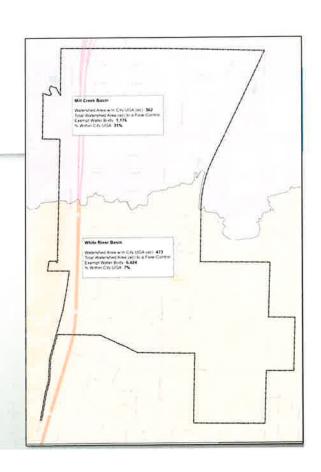
ITEN	INFORMATION		
SUBJECT:	Agenda Date: June 13th, 2022		
	Department/Committee/Individual	Created	Reviewed
Stormwater Management Action Plan (SMAP)	Mayor		
	City Administrator		х
	City Attorney		
	City Clerk		х
	Finance Dept		
	PW/Utilities		
	Planning Dept		
	Community Services		
Cost Impact:	Police Dept		
Fund Source:	Finance Committee		
Timeline:	Planning Commission		X
	Civil Service Committee		
Staff Contact: Jessica Griess, City Clerk Treas	urer; Stacey Clear, Gray and Osbor	'n	
SUMMARY STATEMENT: Stacey Clear will be presenting on the Stormwater M NPDES Phase II Stormwater permit. The SMAP inc prioritizing a watershed, and picking a subbasin with as the priority watershed and the next step is to cho	ludes delineating watersheds, analyzing hin the priority water shed. Mill Creek B	g water qualit	y,
COMMITTEE REVIEW AND RECOMMENDATION:  RECOMMENDED ACTION:			
	OF COUNCIL ACTION	Vote:	
Meeting Date: Action:		V Olo.	

# Stormwater Management Action plan (SMAP)

May 23, 2022

#### **Background**

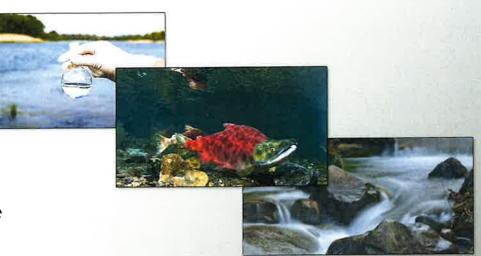
- City is required to do a Stormwater Management Action Plan (SMAP) per the NPDES Phase II Stormwater Permit - Focus on Water Quality
- SMAP involves:
  - · Delineating watersheds
  - Analyzing water quality data in these watersheds
  - · Prioritizing a watershed
  - Picking a subbasin within the priority watershed to focus on for water quality measures



#### Watershed Prioritization - Overview

#### Watershed Prioritization based on:

- Fish Habitat
- Flow
- Water Quality
- Land Use
- Environmental Justice



#### Watershed Prioritization - Fish Habitat



#### Watershed Prioritization - Flow



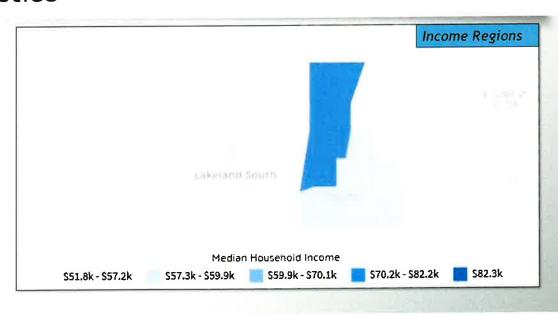
### Watershed Prioritization - Water Quality



#### Watershed Prioritization - Land Use



## Watershed Prioritization - Environmental Justice



#### Watershed Prioritization - Matrix

	Mill Creek Basin	White River Basin	
	(ac) (ac) (ac)		
Watershed Area win City UGA (ac)	362	473	
Total Watershed Area (ac) to a Flow- Control Exempt Water Body	1.176	6.424	
% within City UGA	31%	7°°	
General Description			
•	Topography is from south to north with runoff flowing to Mill Creek (which has a TMDL for DO. fecal coliform, temperature, and copper) and then the Green River: Land use includes ~50% residential and ~50% industrial Minimal amounts of flow control and water quality facilities exist.	Topography is from north to south with runoff flowing to the Boeing Ditch (which has a TMDL for DHT and pH) or to a ditch along the east side of SR 167 and eventually to the White River. Land use includes minor industrial and mostly residential. Very few flow control and water quality facilities exist.	
Fish	7		
Fish Barriers		2	
Fish Habitat - Stream Typing	2		
Fish Habitat – Puget Sound Habitat Characterization	2	1	
Stream Vegetation Buffer	2	111	
B-IBI	1		
Flow			
Existing Flow Control Facilities	1	2	
Flow Control – Puget Sound Habitat Characterization	2	2	

#### Watershed Prioritization - Matrix

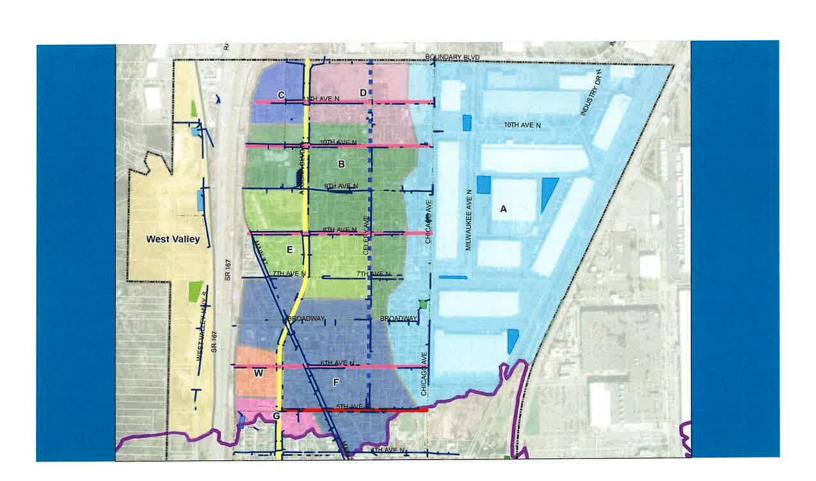
	Mill Creek Basin	White River Basin (ac)	
	(ac) (ac) (ac)		
Water Quality			
Existing Water Quality Treatment	1	2	
Water Quality – Puget Sound Habitat Characterization	2	2	
303d Listing Parameters	2	2	
Land Use			
Existing Land Use	2	1	
Future Development	2	1	
Environmental Justice			
Demographic	2	2	
Wage Divide		2	
Total Score	24	21	

(1) A score of 1 represents the relative best condition compared to a core of 2 which is the relative worst condition of each of the two basins.

Mill Creek Basin = Priority Watershed

## Next Step - Choose a Subbasin

- Goals
- Selection Process (things to think about)
  - · Potential future projects/policies
  - Upcoming required actions
- Next Steps
- Subbasin Discussion



#### Subbasin Selection - Goals

#### **Protect**

Change land use to preserve an area

#### Restore

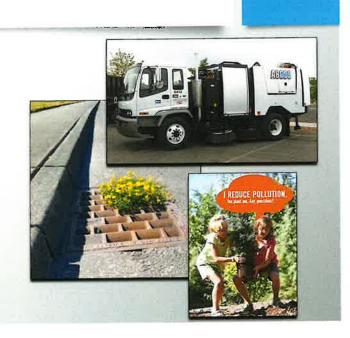
Retrofit an area to provide water quality treatment

-Structural Means -Non-Structural Means

#### Subbasin Selection - Potential Actions

#### Non-Structural (Policies/Activities):

- Require "enhanced" treatment in the subbasin by developers
- Public education
- More frequent illicit discharge/spill inspections (i.e. catch basin inspections)
- Prioritize inspections of businesses for their stormwater practices
- Prioritize maintenance of city owned stormwater facilities
- · Prioritize street sweeping / catch basin cleaning



#### Subbasin Selection - Potential Actions

#### Structural:

- Retrofit existing flow control/water quality facility (detention pond)
- Install new facility (proprietary, maybe w/ future road/utility projects)
- Bioretention/permeable pavement (not usually feasible in Algona due to high groundwater)
- Modify ditches/biofiltration swales
- · 'Road diet' reduce impervious surfaces
- Install tree canopy over stream
- Also includes property acquisition for future facilities



#### Subbasin Selection - What's Coming

- Besides SMAP, City will <u>also</u> be required to do "Structural Stormwater Controls" (Projects that reduce pollutants or affect hydrology downstream)
- · Counties/Large Cities doing these now
- Beginning 2024 (next NPDES Ph. II Permit cycle)
- Possibly choose subbasin knowing that these types of projects will be coming
- Each project = points; City needs X amount of points in the permit cycle

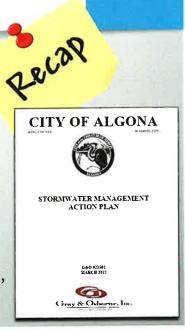
#### Subbasin Selection - What's Coming

Current Relative Structural Stormwater Controls Point System: (subject to change)

	Points		Point
New/Retrofit flow control facility (detention)	1.0	Restoration of riparian buffer	0.35
In a known flooded area	1.5	Restoration of forest cover	0.25
New/Retrofit water quality facility	1.0	Floodplain reconnection	0.10
In a known water quality problem area	1.5	Permanent removal of impervious	
WQ provides enhanced/phosphorus treatment	2.0	surface	
Meets WQ standards (not just a retrofit project)	2.5	- Points get multiplied by area	
Low Impact Development (LID) (i.e. rain garden)	<del>1.5</del>	served - Currently counties/large cities	
Property acquisition	0.5	have to collect 300 points (up to 75 (or 25%) can be maintenance related)	
Maintenance (>\$25k, miles swept or pipes cleaned)	0.25		

#### Subbasin Selection - Next Steps

- Recap
  - 1. Chose Mill Creek Watershed
  - 2. Talked goals for subbasin (protect or restore)
  - 3. Discussed possible future project types (structural / non-structural)
  - 4. Time to pick a subbasin
- By June 30<sup>th</sup>, only need to choose a subbasin (<u>not projects</u>)
- Allow other interested parties (Tribes, Public, Neighboring jurisdictions, etc.) to comment on selected subbasin.
- By March 2023, SMAP written to include subbasin, projects, costs, schedule and implementation plan.



#### Subbasin Selection - Next steps

- Recommend selecting flow control/water quality projects that will meet the future permit (structural stormwater control projects)
  - Detention pond/vault
  - Proprietary WQ vault/filter
  - Retrofit ditches
- Projects selected will likely need to be constructed (In 2024+)
  - Set realistic budget (possible Ecology grants)
  - · Realize realistic construction opportunities
- Combine w/ future road/utility projects?

## Subbasin Discussion

