

# CLARK COUNTY COALITION SMP UPDATE

BATTLE GROUND | CAMAS | CLARK COUNTY | LA CENTER  
RIDGEFIELD | VANCOUVER | WASHOUGAL | YACOLT



## Monitoring & Adaptive Management Framework

Ecology Spring Shoreline Planners  
Coordination Meeting  
April 25, 2013



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# SMA Monitoring Requirement

*Master programs or other local permit review ordinances addressing shoreline project review shall include a mechanism for documenting all project review actions in shoreline areas. Local governments shall also identify a process for periodically evaluating the cumulative effects of authorized development on shoreline conditions. WAC 173-26-191(2)(iii)(D)*





# Purpose of the Coalition Monitoring Plan

- To monitor the effectiveness of the SMPs toward goal of “no net loss”
- Facilitate the next major update targeted for 2020
- Assist in identifying mid-course and 8-year corrective actions if required



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# Monitoring Overview

Three levels:

- Compliance Monitoring
- Effectiveness Monitoring
- Validation Monitoring



# Compliance Monitoring

- Project focussed;
- Performed to determine if permit conditions are being effectively implemented;
- Performed to ensure mitigation projects are adequately constructed



## Effectiveness Monitoring

- Generally program focussed;
- Performed to determine if regulatory requirements are effective in accomplishing management objectives



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# Validation Monitoring

- Long-term commitment to data collection required to establish an adequate data base.
- Validate assumptions, models, methods, etc. are appropriate to evaluate program effect on resources



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# Existing Monitoring Activities

- Clark Countywide GMA Plan Implementation Monitoring
- Clark County Clean Water Monitoring Program
- City of Vancouver Comp Plan Implementation Monitoring
- Others



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## Indicators to Be Monitored

Function	Indicators	Measurement
Hydrologic	In-water/over-water structures Shoreline armoring	Sq.ft. increase/decrease Lin.ft. increase/decrease
Hyporrheic	Water quality Fill in floodplain/wetlands	303d list improved/impaired Acreage increase/decrease
Habitat	Vegetative cover Impervious surface	Acres increased/decreased Sq.ft. increase/decrease

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# Monitoring Tasks



- Required 8-year SMP Update Consolidation & Analysis
- Bi-annual Data Consolidation & Review
- Mid-SMP Cycle Consolidation & Analysis
- Permit Data Collection

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# Schedule & Tasks

Year	Task Description	Task Lead
2014	Collect permit info & input into tracking matrices	City/County
	Transfer into GIS & map	NGO
2016	Collect permit info & input into tracking matrices	City/County
	Transfer & analyze using ICR & CIA	NGO
	Prepare summary report	NGO
	Initiate adaptive management	City/County
2018	Repeat tasks from year 2014	City/County/NGO
2020	Repeat tasks from year 2016	City/County/NGO



# Permit Data Collection

- Shoreline Substantial Development Permits, Conditional Uses, Variances
- Shoreline Exemptions
- Restoration Activity
- Violations or Enforcement Activities

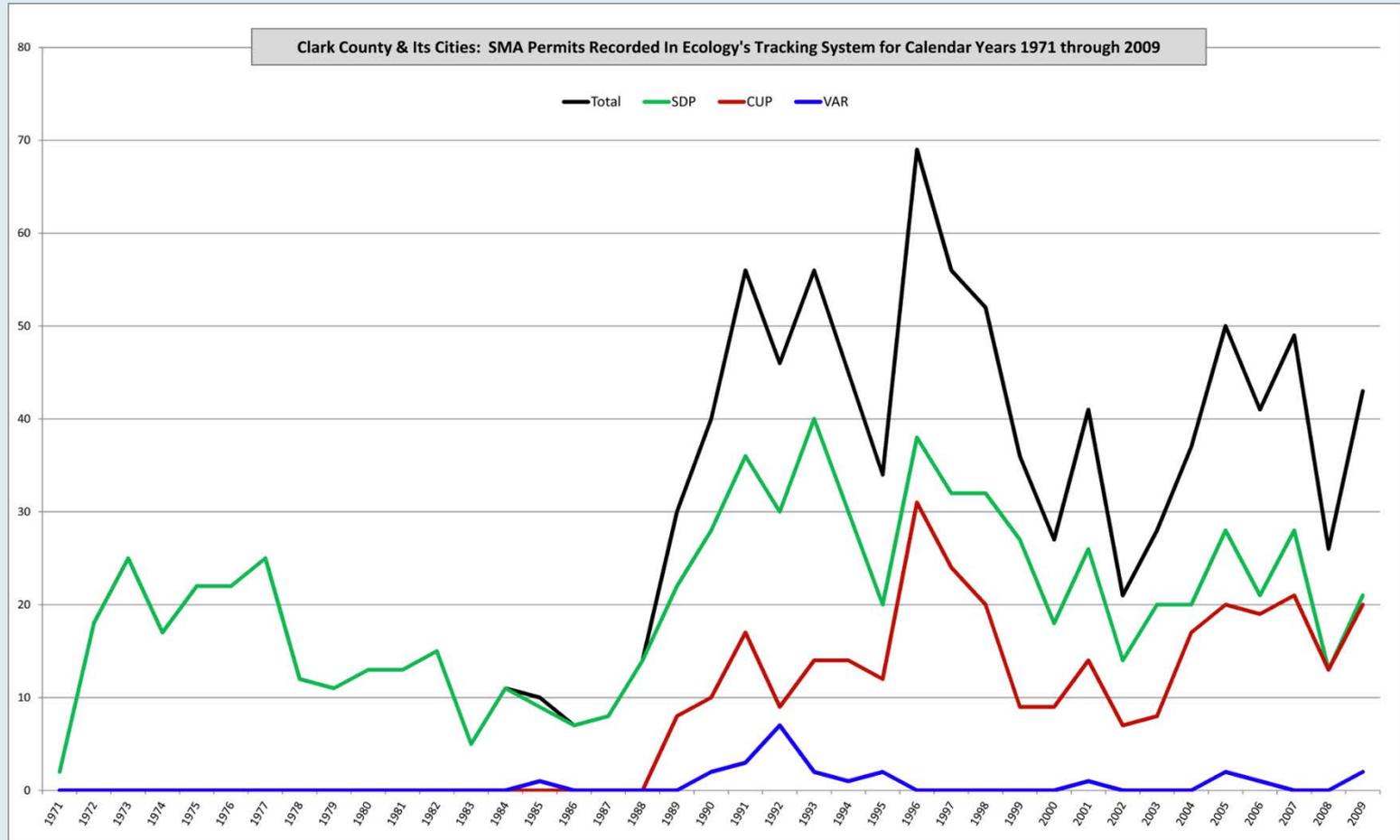


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## Data from Ecology



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# Permit Data Collection

## (Appendix A Permit Matrices)

*Clark County Coalition SMP Update – Shoreline Monitoring & Adaptive Management Plan – Grant No. G100058*

**Table A-1. Clark County Coalition SMP Monitoring Program - City of \_\_\_\_\_ 20XX Permit Tracking**

	Permit No.	Type (SSDP, CU, Var)	Shoreline Waterbody	Shoreline Designation	Assessors Parcel Number(s)	General Description - attach map	In-Over-water (Dock/Float: sq.ft; Piles: no.)	Shoreline Stabilization (Bulkhead/RipRap /Soft: lin.ft)	Fill (Fldipln/ Wetland :sq.ft)	Clearing/ Grading (sq.ft)	Impervious Surface (sq.ft.)	Mitigation On/Off-site: parcel number & sq./lin.ft.
A												
B												
C												
D												
E												
F												
G												
H												
I												
J												
K												
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Z												

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# Mid-cycle Consolidation

- Identify major, obvious land cover or waterbody changes for additional focus;
- Update information in ICR tables to detect change from 2010 baseline



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# Mid-cycle Consolidation (Appendix B-ICR Tables)

**Table X-X: Waterbody where permit activity occurred**

Waterbody	Wtshd Charctr	EDT Model	Assoc. Wetlns	Water Quality	Priority Habitat;/Riparian Qual;/Modificatns/ Land Cover;
A. Reach 01					
B. Reach 02					
C. Reach 03					

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# Mid-cycle Analysis (Appendix D - CIA Tables)

**Table X-X: Waterbody where permit activity occurred**

<b>Waterbody</b>	<b>2010 Condtns</b>	<b>2010 Perform</b>	<b>2014 Devlopmt &amp; Restoratn</b>	<b>2016 /2018 Devlopmt &amp; Restoratn</b>	<b>Performance Assessment</b>
A. Natural					
B. RC-Residential					
C. Medium Intensity					



## Area of Improvement:

To categorize a waterbody and shoreline designation an Area of Improvement, several of the following conditions would apply:

- Large restoration project was put into place
- \_\_\_ % Increase in native vegetative cover
- \_\_\_% Decrease in impervious surface cover
- \_\_\_ %Decrease in shoreline armoring
- Clark County SNAP data documents improvement in indicator functions



## No Change:

To categorize a waterbody and shoreline designation an area of No Change, several of the following conditions would apply:

- Large restoration project was put into place while new development occurred
- No substantial change in native vegetative cover
- No substantial change in impervious surface cover
- No substantial change in shoreline armoring
- No change in Clark County SNAP data
- No change in Ecology water quality 303(d) listing



## Area of Concern:

To categorize a waterbody and shoreline designation an Area of Concern, several of the following conditions would apply:

- \_\_\_% Decrease in native vegetative cover
- \_\_\_% Increase in impervious surface cover
- \_\_\_% Increase in shoreline armoring
- Clark County SNAP documents declining trend in indicator functions
- Ecology water quality 303(d) listing identified as water of concern

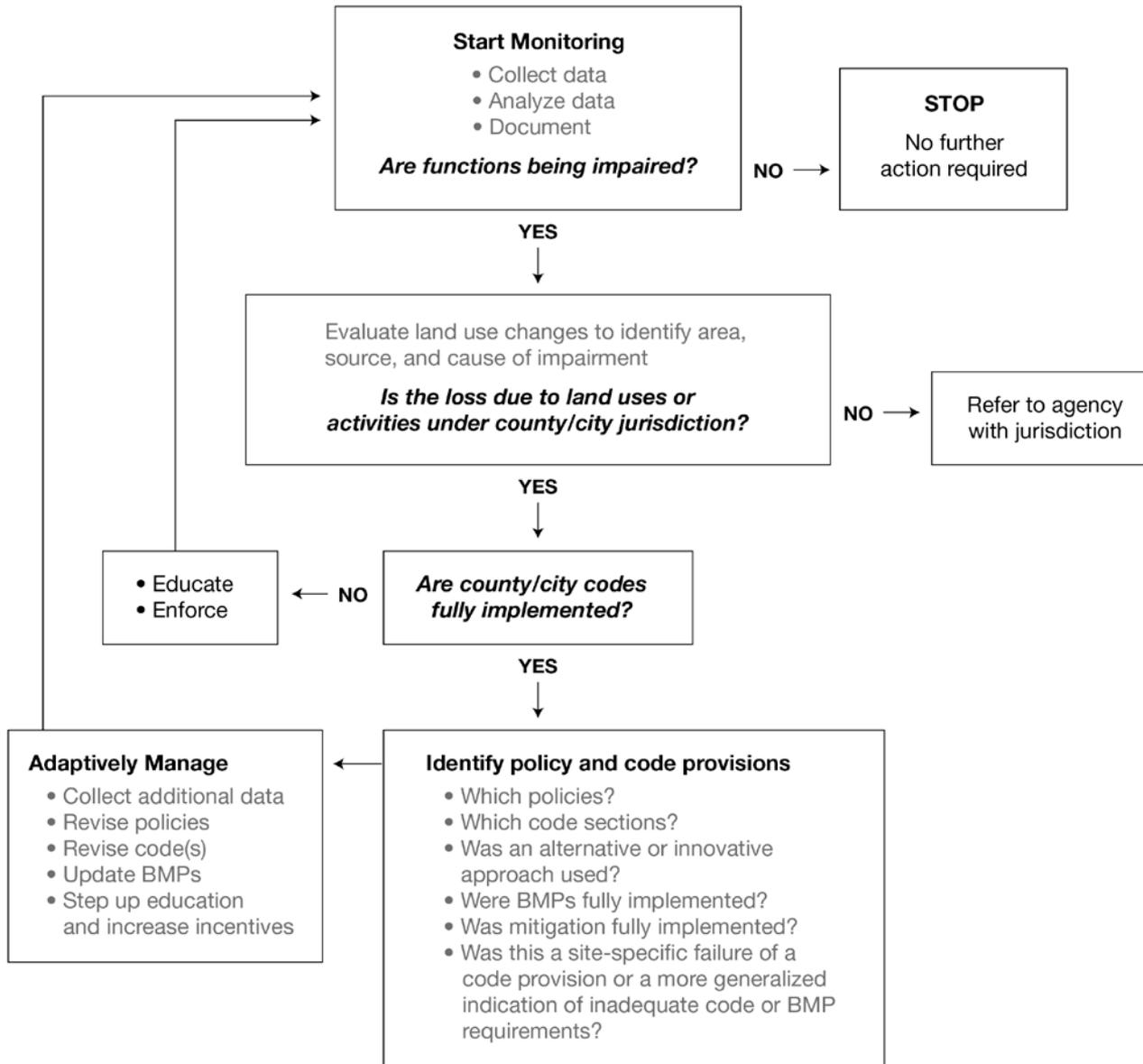


## Impairment:

To categorize a waterbody and shoreline designation an area of Impairment, several of the following conditions would apply:

- \_\_\_% Decrease in native vegetative cover
- \_\_\_% Increase in impervious surface cover
- \_\_\_% Increase in shoreline armoring
- Clark County SNAP documents impaired indicator functions
- Ecology water quality 303(d) listing indicates polluted waters

Clark County Coalition  
Adaptive Management Decision Process



# Adaptive Management

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# Third Party Review & Analysis

- Coalition only able to commit to Data Collection at this time
- Seeking help or grant dollars – colleges, institutions, NGOs,

