



Salmon Safe Annual Report July 2006 Conditions Status

2-Year Conditions

Condition II (IPM water quality monitoring peer review)

PP&R water quality monitoring reporting procedures were changed in 2003 as recommended by USGS.

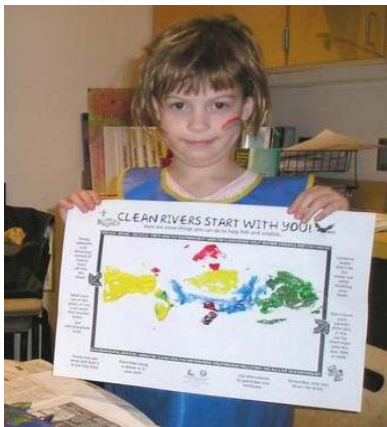
1. Report laboratory testing method for reporting limits for individual pesticides.
2. Report real-time stream flow information to characterize timing of sample collection relative to rainfall.
3. Report pounds of active ingredients of pesticides applied to parks.

We have repeatedly sought additional comment from Chauncey Anderson, USGS. He has not offered any additional suggestions; we believe this condition has been fulfilled.

Attachment A contains excerpts from email correspondence between the late Dr. Mike Hindahl, John Reed of PP&R staff, and Chauncey Anderson, USGS.

Condition VIII (Education plan related to Gabriel Park revegetation)

Completed as reported in 2005 Annual Report



Educational efforts continue to engage community volunteers and school groups.



Condition X (Balch Creek trail culvert improvements)



In fall of 2005, an Americorps crew worked along with Portland Parks and Recreation staff to address concerns related to culverts beneath the Balch Creek Trail beginning at Lower Macleay Park. In addition, rogue trails were closed, and bridges and trail segments were repaired. In all 27 culverts were inspected and cleaned. Where necessary, culverts were replaced or outfalls rebuilt. Attachment B provides the complete report of work done on the Balch Creek trail.

Culvert #9 was protected by installing a new crib wall where the trail was eroding and armoring the outfall with additional rocks.

Status Updates on Other Conditions

Precondition I (Vermont Creek revegetation plan)

Completed as reported in 2005 Annual Report



Update: The bare banks of Vermont Creek have been fenced and planted

Condition I (System-wide, watershed-based strategic restoration plan) 5 years

As reported in 2005, we have completed a vegetation inventory of all 7,000 acres of natural area parkland in the system. In addition to a description of the vegetation in each unit, the survey assessed management concerns and ecological health. We have also developed prioritization guidance to establish priorities among restoration projects.

The City's 2005 *Portland Watershed Management Plan* identifies strategies for improving watershed health throughout the City, especially within aquatic and riparian zones. A new interbureau effort will develop a strategy for improving terrestrial wildlife habitat.

Condition III (Fish habitat field inventory) 5 years

Inventory is underway in summer 2006. Channel and bank conditions are being assessed for all park streams with potential for fish access.

Condition IV (Impervious surface estimates, stormwater mitigation projects). *1 year*
Completed as reported in 2005 Annual Report

Condition V (Ponds and wetland contamination) *5 years*

PP&R has investigated water level management in the Columbia Slough and Force Lake, and chemical use and water quality testing at Heron Lakes Golf Course.

Condition VI (Irrigation data collection and reporting) *5 years*

Four additional sites have been added to the Maxicom irrigation system. Planned irrigation reductions on 75 acres of parkland saving an estimated 15,000,000 gallons of water.

Condition VII (Alternatives to herbicides) *5 years*

Funding was obtained and trials were begun in spring 2005 to be continued for three years. The trials include six different parks with up to 17 treatment regimens per park. Willamette and Gabriel parks were chosen for treatments to tree wells and fence lines. Ladd's Addition East Rose Garden was chosen for the formal shrub bed trials. The natural area park sites were chosen to allow study of two of the major urban weeds in our region: Himalayan blackberry and English ivy. Powell Butte was chosen for blackberry control studies and Hoyt Arboretum is being studied for ivy control comparisons.

Control methods to be compared include manual or mechanical weed control, traditional and non-traditional herbicides, and physical control using landscape fabric and/or mulch as a weed barrier. Manual methods of control consist of hand weeding, hand digging, line trimmers, flame weeding, and using mulches. The synthetic herbicides used in the trials were chosen from current PP&R approved materials that are typically used for vegetation control purposes within the IPM program. The IPM trials will also test some of these herbicides in reduced concentrations to investigate their effectiveness at lower rates for certain weeds.

Attachment A

Condition II (IPM water quality monitoring peer review)

Excerpts from email correspondence

May 2006:

From John Reed to Chauncey Anderson:

>On another subject from a while back, you might recall that Mike Hindahl of
>Links Analytical had a discussion with you regarding the water quality
>testing protocols he employed in our parks- pesticide testing in
particular.
>I believe you had been sent a report for review and had raised some
>questions, but as I recall he followed up with some clarification
regarding
>his practices and reporting details, and that it had satisfied your
>questions. I just wanted to make sure that there were no outstanding
>concerns remaining on your part.

Response from Chauncey Anderson to John Reed

I certainly do recall Mike Hindahl's study and our discussions with him about it, though a lot of the particulars are too far buried in the dim recesses of my mind to recall right now. I think there may still have been some questions regarding the pesticide aspects but that they were nit-picky and perhaps less germane to the overall question of whether water quality standards were being violated. One thing I always have to keep in mind is the level of detail we (USGS) put into our investigations vs those that Hindahl might have been targeting.

July 2005

From Dr. Hindahl to John Reed

>"As per your request, I've reviewed the PPR water quality monitoring
program
>history with regard to outside input from USGS. As I understand it, you are
>interested in knowing what, if any additional input has been received from
>the agency following a series of earlier discussions. Based on the review
of
>my notes and documents, the following is a synopsis of the status of the
>situation.
>Following a series of detailed e-mail communications between myself and
>USGS, and discussions in the meetings noted above, three action items were
>identified that would lead to improvements in the reporting format. These
>included:
>1. Report laboratory testing method reporting limits for individual
>pesticides.
>2. Report real-time stream flow information to characterize timing of
sample
>collection relative to rainfall.
>3. Report pounds active ingredients of pesticides applied to parks.
>These suggestions were incorporated into the two remaining Summary Reports
>(Fall 2003/Spring 2004) that were issued subsequent to the August 2003
>meetings."

Attachment B

Condition X (Balch Creek trail culvert improvements)

Balch Creek Trail and Culvert Improvement Report
November 22, 2005

- Completed:* Culvert 1: 500ft from parking lot—Clean inlet and renew inside ditch.
- Completed:* Culvert 2: 700ft from parking lot—Clean culvert inlet.
- Completed:* Culvert 3: 100ft from bridge—Clean inlet and ditch.
- Completed:* Culvert 4: at stone steps—Clean inlet.
- Completed:* 90ft from stone steps—Close small rogue trail with woody debris.
- Completed:* Culvert 6: 210ft from stone steps—Clean inlet and fix outlet with a 45 degree bend to reduce outpour drop and armor the hillside at outlet with rock to prevent hillside erosion from undercutting the trail.
- Completed:* 300ft from stone steps replace rotten crib wall.



- Completed:* Bridge 2: Clean debris from underneath (there are good rocks to use for other building projects).
- Completed:* Rogue Trail: 15ft from Bridge 2—Close with woody debris.
- Completed:* Rogue Trail: 115ft from Bridge 2—Close with woody debris.
- Completed:* Culvert 7: 120ft from Bridge 2—Clean inlet.
- Completed:* Culvert 8: 200ft from Bridge 2—Clean inlet, clean inside ditch, and armor outpour with woody debris.

Completed: Culvert 9: 270ft from Bridge 2—Clean inside ditch and inlet. Build a 10ft long crib wall on each side of the culvert outlet. Each wall will be two boards high. Armor outfall with rock.



Completed: Culvert 10: 310ft from Bridge 2—Clean inlet.

Completed: Rogue Trail: 315ft from Bridge 2—Close with woody debris.

Completed: Culvert 11: 425ft from Bridge 2—Clean inlet and ditch.

Completed: Culvert 12: 535ft from Bridge 2—Clean inlet and ditch.

Completed: Low spot on Trail: fill/grade to stop puddling.

Completed: Reinforce the out side edge of the trail with a crib wall.

Completed: At 655ft from Bridge 2—Renew inside ditch and water bars.

Completed: Culvert 13: 730ft from Bridge 2—Clean inlet and ditch.

Completed: Rogue Trail: 755ft from Bridge 2—Close with woody debris.

Completed: Bridge 4: Replace two planks of decking with two 6ft 10x3 boards.

Completed: Rogue Trail: 120ft from Bridge 4—Close with woody debris.

Completed: At 400ft from Bridge 4—Build 12ft crib wall with rock and wood.

Completed: At 465ft from Bridge 4—Widen trails two feet by digging back the toe and building a retaining wall with rock.

Completed: Culvert 14: 755ft from Bridge 4—Clean inlet and ditch.



Completed: Install 10ft culvert and dig an inside ditch.



Completed: Culvert 15: 1000ft from Bridge 4—Clean inlet and ditch.

Completed: Culvert 16: 1060ft from Bridge 4—Clean inlet and ditch.

Completed: Culvert 17: 1080ft from Bridge 4—Clean inlet and ditch and place splash stone at outfall.

Completed: Reinforce the outside edge of the trail with a 5' crib wall.

Completed: 1100ft from Bridge 4—Widen trail with rock on outside edge.

Completed: Culvert 18: 1120ft from Bridge 4—Clean inlet and armor outfall.

Completed: Culvert 19: 1180ft from Bridge 4—Remove existing culvert and replace with a twenty-ft long 12in wide culvert and dig an outpour ditch and armor it with rock. Re-dig outside ditch to narrow trail.



Completed: 110 ft past LDF—Install 15ft culvert.

Completed: Renew ditch 150ft past LDF.

Completed: Rogue Trail: 175ft past LDF—Close trail with cut buckeye.

Completed: Fix sign at intersection of Wildwood and Lower Macleay trails.

Completed: Rogue Trail: 10ft past stone house—Close.

Completed: Culvert 20: 100ft past stone house—Clean outpour ditch.

Completed: 160ft past stone house—extend inside ditch 20ft up trail.

Completed: Culvert 21: 350ft past stone house—Remove culvert.

Completed: Culvert 22: 430ft past stone house—Clean ditch.

Completed: Culvert 23: 500ft past stone house—Clean ditch.

Completed: Culvert 24: 540ft past stone house—Clean inside ditch. Clean out pour ditch and armor with rock.

Completed: Culvert 25: 565ft past stone house—Clean ditch.

Completed: 600ft past stone house—Prop cedar up that hangs over trail.

Completed: 645ft past stone house—Replace rotten crib wall using two 10ft 4x6 boards.

Completed: Culvert 26: 685ft past stone house—Clean the inlet and ditch. Armor outpour.

Completed: Culvert 27: 820ft—Clean ditch.

Completed: Bridge 5: Level the bridge and regrade the trail.