

Reports

Swanson Watershed Plan Red-Legged Frog Survey Report

- Swanson Watershed Plan Red-Legged Frog Survey Report.pdf
 - o Red Legged Frog surveys in the reservoir watershed – no frogs were found
 - o There is a quote for previous frog sightings in Discussion

Loch Lomond Algaecide Treatments

- APAP Feb_05 update Jun_06 PAK-27.pdf
 - o APAP = Aquatic Pesticides Application Plan update 2006
 - o Nice background on reservoir
 - o Summary of algae treatment (why, when, how, alternatives, monitoring, BMPs)
 - o Site map for sampling
- CEQA App A Cutrine Label & MSDS.pdf
 - o Label for health/safety hazards of applied herbicide
- CEQA figs 1&2.pdf
 - o Maps of study area, very simple, one with creek names.
- Final Draft Santa Cruz Cu MND 19 05.pdf
 - o CEQA report for use of copper to control aquatic weeds (2005)
 - o Environmental impacts evaluations, mitigation measures, regulatory setting review
 - o Great summary of wildlife in the area
 - o Gave the City an ideal limit for how much copper they could apply
- Final Revisions to Santa Cruz Copper MND.pdf
 - o 2010 revision of above plan for how much copper they can apply
- Loch Lomond Copper Rpt, June 2005. pdf
 - o Report of application of the pesticide
 - o Map of treatment areas and Copper sampling sites
 - o Copper monitoring data for the application (with graphs)
- NOI for NPDES weed PAK27 June 2006 dup.pdf
 - o They were fined for some reason for pesticide application, this is their compliance form.
- WQO 2004_1009_DWQ.pdf
 - o Fact sheet for NPDES permit for algae pesticide

Loch Lomond Aquatic Pesticide Use

- All reports below show date and type of pesticide info, as well as required monitoring data. I believe this data is already covered in excel sheets provided in Data folder.
- 2002 Aquatic Pesticide Use Report.pdf
 - o Lists detrimental impacts of algae
 - o Cu monitoring (graphs of this and algae counts)
 - o Dates of treatment and amount

- 2003 Aquatic Pesticide Use Report.pdf
 - o One application
- 2003 Resubmission Aquatic Pesticide Use Report.pdf
 - o Same as above
- 2004 Aquatic Pesticide Use Report.pdf
 - o No application
- 2005 Aquatic Pesticide Use Report.pdf
 - o Three treatments
- 2006 Aquatic Pesticide Use Report.pdf
 - o Two applications
- 2006 Supplemental Aquatic Pesticide Use Report.pdf
 - o Changes to APAP
- 2007 Aquatic Pesticide Use Report.pdf
 - o No application
- 2008 Aquatic Pesticide Use Report.pdf
 - o No application
- 2009 Aquatic Pesticide Use Report.pdf
 - o Four algae treatments
- 2010 Aquatic Pesticide Use Report.pdf
 - o Four applications
- 2011 Aquatic Pesticide Use Report.doc
 - o Three treatments
- 2011 Aquatic Pesticide Use Report.pdf
 - o Same as above
- Report Status Summary.pdf

Loch Lomond Bathymetry

- Usgs loch bathymetry 2009.pdf
 - o “Analysis of Methods to Determine Storage Capacity of, and Sedimentation in, Loch Lomond Reservoir, Santa Cruz County, CA, 2009”
 - o Study area description
 - o Overview of previous bathymetry investigations to determine capacity
 - o Talk of sedimentation in reservoir
 - o Cross sections of lake depth

Loch Lomond Recreational Use Study

- Loch rec use study draft.pdf
 - o Summary of current lake use
 - o Proposed options for future development

Loch Lomond Western Pond Turtles

- Altera HCP WPTReportCorrected.pdf
 - o Report on turtle habitat use, population structure and prospects for viability
 - o Trapping data and habitat maps.

Loch Lomond Water Quality and Algae

- Loch water quality Launer and Leach 1976.pdf
 - o 76 Report that is already being looked at in Ancient Data...should include total coliform data from 73-76 in excel
 - o Does have good info on methods: includes bacteria, algae, temp data

Loch Lomond Watershed Plan

- Atlas Exist Cond 4.1 revised – Veg Communities – Draft.pdf
 - o Great vegetation map
- Dwalley wlmp.pdf
 - o “Existing Aquatic Habitat Conditions In Streams and Loch Lomond Within the City-Owned Watershed Lands”
 - o BIG salmon study
- FINAL DRAFT WLMP March 21 2011.pdf
 - o Overview of tributaries
 - o Overview on impacts on water resources in watershed

San Lorenzo Sanitary Survey

- sanitary survey 2007.pdf
 - o HUGE and VERY DETAILED document completed by a consulting firm for the SCWD that overviews watershed a water supply systems, potential contaminant sources, watershed management practices, water quality regulations and recommendations for action
 - o Lists nitrates, pathogens and particulate matter (turbidity) as main contaminants in watershed

Hydrologic Data

- Hydrologic Data 1961-2012.xlsx
 - o Daily and Monthly precipitation data obtained from the dam
 - o Flow data from 1961 1971 (daily) and from 1971– 1986 (monthly) for French Drain Flows

Raw Data

- FieldData_1958-2012.xlsx

Newell Creek

Field Data (1958 – 1969)

- Water quality (pH, Turbidity, color, hardness, alkalinity, Temperature, taste, odor, manganese, iron, phosphate, chloride)

Field Data (1967 – 1969)

- Plankton data

Newell Creek Reservoir

- Contains info on “performance history of reservoir aeration and lake stratification”
- Quotes taste & odor issues
- Proposed sampling system (pp. IV-1) for water quality at each of the intake depths, so that optimal water quality is used for drinking
- Oxygen depletion curves from 1982 (pp. II-29)

Reservoir Storage (1973-1986)

- **File: *Storage_LL_Reservoir_1973-1986.xlsx***
- Volume of water in reservoir
- Print outs from Ryan

Reservoir Water Pumped from San Lorenzo River (1976 – 1986)

- **File: *SanLorenzoRiver_Pumping_LL_1976-1986.xlsx***
- Millions of gallon pumped per month

Field Data (1967-68)

- Pre-1967
 - 1966 Limnological study with great background info
 - Oxygen data
 - Plankton counts
- 1967
 - Weekly samples at pump station #2 and a few other spots: pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Fe, DO
- 1968
 - Weekly samples at pump station #2 and a few other spots: pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Fe, DO

Field Data (1969-75)

- Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
- Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
- Plankton counts

Field Data (1976-77)

- 1976
 - o Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
 - o Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
 - o Plankton counts
 - o Water quality Report (April 1976)
 - Describes sampling from 1973-76
 - They samples Tuesday mornings
 - Sampling map!
 - Total coliform data (1974)
 - Temperature profiles
 - Depth profiles of pH, TU, T
- 1977
 - o Depth profiles of DO, T, Fe, Algae
 - o Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
 - o Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
 - o Plankton counts
 - o DO, T, H₂S before and after aeration
 - o Ceratium, Mg

Field and Lab Depth Data (Field: 1978 – 81)/ (Lab 1980-81)

- Weekly samples of Temperature and DO (Field)
- pH, Turbidity, Temperature, Color, H₂S, DO
- Plankton Counts

****NOTE: previous algae counts were off by a factor of ten; starting on 12/17/1980. (this note can be found on postit on the inside of the front cover.

- 1978
 - o Depth profiles of DO, Temperature, TU NTUP, Algae, Surface Elevation, Volume H₂O Impounded
 - o Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
 - o Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
 - o Plankton counts
- 1979
 - o Depth profiles of Do, Temperature, Turbidity, Algae, Surface elevation, Colume H₂O Impounded
 - o Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
 - o Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
 - o Plankton counts
- 1980
 - o Depth profiles of Do, Temperature, Turbidity, Algae, Surface elevation, Colume H₂O Impounded

- 1981
 - o Depth profiles of Do, Temperature, Turbidity, Algae ,Surface elevation, Colume H2o Impounded

Field Data (1982-85)

- 1982
 - o Depth profiles of DO, Temperature, Turbidity, Plankton ,Surface elevation, Column H2o Impounded (write name of file for each-Pathway electronic ancient box>WQ>multi-parameter>depth profile>_____.docx
 - o Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
 - o Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
 - o Plankton counts
- 1983
 - o Depth profiles of DO, Temperature
 - o Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
 - o Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
 - o Plankton counts
 - o Nitrate & Cu tests on 6/21 & 7/1
- 1984
 - o Depth profiles of DO, Temperature
 - o Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
 - o Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
 - o Plankton counts
 - o Nitrate samples
- 1985
 - o Depth profiles of DO, Temperature
 - o Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
 - o Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
 - o Plankton counts
 - o Nitrate samples

Field Data (1986-88)

- 1986
 - o Depth profiles of DO, Temperature
 - o Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
 - o Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
 - o Plankton counts
 - o Nitrate samples
- 1987
 - o Depth profiles of DO, Temperature
 - o Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn

- Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
- Plankton counts
- Secchi depths with lake level and rainfall data
- 1988
 - Depth profiles of DO, Temperature
 - Weekly samples of pH, Turbidity, Color, Hardness, Alkalinity, Temperature, Taste, Odor, Fe, Mn
 - Weekly samples at various depths of Color, Turbidity, Fe, Mn, pH
 - Plankton counts
 - Secchi depths with lake level and rainfall data

Field Data (1989 – 1990)

- 1989
 - Depth profiles of Temperature
 - Weekly samples of pH, Turbidity, Conductivity, Color, Temperature, Odor
 - Weekly samples at various depths of Color, Turbidity, pH
 - Plankton counts
- 1990
 - Depth profiles of Temperature
 - Weekly samples of pH, Turbidity, Conductivity, Color, Temperature, Odor
 - Weekly samples at various depths of Color, Turbidity, pH
 - Plankton counts

Field Data (1991 – 1993)

- Depth profiles of DO, Temperature
- Weekly samples of pH, DO, Turbidity, Hardness, Alkalinity, Conductivity, Color, Temperature, Odor
- Weekly samples at various depths of pH, DO, Turbidity, Hardness, Alkalinity, Conductivity, Color, Temperature, Odor
- Plankton counts
- Nitrate samples
- Phosphate samples
- Copper samples

Field Data (1993 – 2005)

- Depth profiles of DO, Temperature
- Weekly samples of pH, DO, Turbidity, Conductivity, Color, Temperature, Odor
- Weekly samples at various depth pH, DO, Turbidity, Conductivity, Color, Temperature, Odor
- Plankton counts
- Nitrate samples
- Copper samples

Field Data (2005– 2006)

- Depth profiles of DO, Temperature
- Weekly samples of pH, DO, Turbidity, Conductivity, Color, Temperature, Odor, Cu
- Weekly samples at various depth of pH, DO, Turbidity, Conductivity, Color, Temperature, Odor
- Plankton counts
- Copper samples

Field Data (2006– 2010)

- Depth profiles of DO, Temperature
- Weekly samples of pH, DO, Turbidity, Cu, Conductivity, Color, Temperature, Odor
- Weekly samples at various depth pH, DO, Turbidity, Conductivity, Color, Temperature, Odor
- Plankton counts

Field Data (2010– 2012)

- Depth profiles of DO, Temperature
- Weekly samples of pH, DO, Turbidity, Cu, Conductivity, Color, Temperature, Odor
- Weekly samples at various depth pH, DO, Turbidity, Conductivity, Color, Temperature, Odor
- Plankton counts
- Nitrate samples
- Phosphate sample