

IIMS Project Meeting Minutes
Trinity River Restoration Program
PO Box 1300, 1313 South Main Street
Weaverville, California 96093
October 30 to November 3, 2006

Present:

Name	Organization
Philip Bailey	ESSA Technologies, Vancouver, BC
Joe Kubichek (Telephone)	Reclamation, Denver, CO
Christine Karas	Reclamation, KBAO
Mike Neuman	Reclamation, KBAO
Clarie Hsu (Telephone)	Reclamation, Sacramento, CA
Lorri Peltz Lewis (Telephone)	Reclamation, Sacramento, CA
Russell Yaworsky	Reclamation, Sacramento, CA
Siran Eryisian	Reclamation, SCCAO
Stephen Lee	Reclamation, SCCAO
Valerie Curley	Reclamation, SCCAO
Josh Allen	Trinity County, Weaverville, CA
Brandt Gutermuth	TRRP (RIG), Weaverville
Denise Wiltse	TRRP (RIG), Weaverville
Diana Clifton	TRRP (RIG), Weaverville
Joe Riess	TRRP (RIG), Weaverville
Andreas Krause	TRRP (TMAG), Weaverville
Dave Gaeuman	TRRP (TMAG), Weaverville
John Klochak	TRRP (TMAG), Weaverville
Nina Hemphill	TRRP (TMAG), Weaverville
Rod Wittler	TRRP (TMAG), Weaverville
Doug Schleusner	TRRP, Weaverville
Michael Cunanan	USFWS, Arcatam, CA
Jeff Horsbrough	Utah State University, Logan, UT
Thom Hardy	Utah State University, Logan, UT

Introduction

This document describes the Integrated Information Management System meetings that took place at the TRRP office in Weaverville, CA, during the week starting Monday 30 October 2006. The key focuses of the week were:

- Installing the IIMS in the TRRP office
- Training TRRP and partners on using the software
- Conducting a project management course-correction meeting

Monday October 30, 2006

10:00 - Philip Bailey worked with John MacGillivray to deploy the Trinity River IIMS. This involved configuring the IIMS server in the Weaverville server room and testing the installation of the IIMS software on TRRP staff desktops. The server deployment went well, but the deployment to the desktops was complicated by security settings on Reclamation desktop computers. This is still unresolved.

15:30 – John MacGillivray delivered a one hour training session instructing TRRP staff how to manage their files more effectively.

Tuesday October 31, 2006

Philip Bailey delivered two training sessions to the TRRP and stakeholders:

- Technical Modeling and Analysis Group (TMAG)
- Rehabilitation and Implementation Group (RIG)

The sessions were well received and several feature enhancements and software bugs were identified. These are documented in the respective Appendices at the end of this document.

Wednesday November 1, 2006

Philip Bailey delivered the IIMS training again, this time to TRRP Stakeholders (Trinity County, USFWS, SCCAO). The session went well and discussion focused on the options on the timeline associated with sharing the IIMS with stakeholders. The topic of fast-tracking the IIMS development for the SCCAO was also raised.

Philip committed to providing the revised IIMS user interface to the SCCAO and Klamath partners within two weeks.

Thursday November 2, 2007

10:00 – IIMS Project Planning Meeting. Jeff Horsburgh presented the tools Utah State University has developed for similar river management initiatives. The Time Series Analyst was highlighted as a priority for incorporation into the IIMS. It has some powerful capabilities for exploring time-related measurement data.

The remainder of the discussion focused on the timeline for IIMS development and getting input into prioritizing the feature enhancements identified during the training sessions.

13:00 – The IIMS development team leads (Andreas Krause, Jeff Horsburgh, Philip Bailey) met to organize the findings from the week and build a list of action items. Key items discussed were:

- The IIMS development team meeting in Weaverville every two months.
- Getting the work plan and budget revised in light of the week's events was the highest priority.

Appendix A – IIMS Enhancements

The following IIMS enhancements were identified during the training and project management meetings. These enhancements will be described in more detail and added to the new IIMS web page, which is listed as the first enhancement. The prioritized schedule for when these enhancements will be incorporated will be completed by the end of November 2006.

Feature Enhancements

1. IIMS Website page
2. Document all methods and equations in users manuals
3. Data export tracking
4. GIS area query of available data
5. Filter quick query locations and dates by dataset
6. Use Well Log viewer for test pit data
7. Time Series Analyst
 - a. Data exploration
8. Translate data to and from HEC-DSS
9. Data query in metric or Imperial units
10. Show volume remaining in flow scheduler
11. Restructure flow scheduler – allow different water years and types (move water year, water year type, and volume into working columns)
12. Limit daily operation report to valid dates
13. Correct ROD flows in flow scheduler
14. Resolve data model for time series data
15. Users select working river system
16. Fish data trend graph spreadsheet
17. Particle size analysis/explorer spreadsheet
 - a. Graphs of sediment transport load (y-axis) vs. time or flow (x-axis)
 - i. Total load curve
 - ii. Partial load curve based on user defined size range
 - b. Table with particle size distributions (observed sediment transport measurements)
 - i. Summarize particle size distributions
18. Represent locations of cross sectional data in GIS and plot cross sections at user selected locations
19. Volumetric comparison of topographic data for different time periods
20. Correlate fish population with oceanographic indicators – i.e., chlorophyll
21. Habitat maps and analysis ???? (wait for GIS linkages, revisit in 6 months)
22. Sharing aggregated data with WWIN and regional planning tools

23. Migration to Oracle
24. TARGETS????
25. System documentation and user manuals
26. Flow scheduler – track immediate parent of working draft
27. Direct link to current water year flow schedule on website and IIMS main form
28. Digital Photo Library – priority photos (GIS Referenced photo locations – PhotoViewer)
29. Resolve long term technology strategy – central database location, etc.
30. Dataset Metadata
 - a. Export metadata with data
31. Key reports by river system
32. Data uploads management – user interface
33. APN/River Mile spatial query with inundation lines (Denise, Doug)
34. Review mailing label features with Dianna

Dataset Enhancements for TRRP

1. Water Surface slopes
2. Geomorphic maps
3. “Rubber sheeted” aerial photos
 - a. 1961 photos have gaps – need to fill from historical archives
4. Cross sectional data
5. Hind casted temperature model results
6. river centerlines
7. Fish run size – hatchery
8. Sediment transport data
9. PDFs of construction drawings (document library)
10. Environmental Construction Permits (document library)
11. Historic present and future river reaches
12. Existing sediment data in Whiski database – time series sediment dataset
 - a. Computed sediment loads (total and partial)
 - b. Particle size distributions of samples – pass 1, 2, and combined
13. Program projects and restoration actions
 - a. Watershed restoration projects list
14. Program budgets
15. Tributary delta surveys
16. Hamilton ponds sediment traps
17. Chlorophyll index
18. Lidar
19. Riparian vegetation
20. Climate and meteorological data (low priority)
21. Wildlife data capture (Redwood Sciences Lab)
22. Digital photographs

Dataset Enhancements for other River Systems

1. Water Quality
2. Well Logs

3. Groundwater – hydrographs
4. Water Rights
5. Klamath or San Joaquin datasets (show functionality for multiple river systems)
6. Water bank for surface and ground water
7. Infrastructure inventory (fish screens and diversions)
8. Fish life history and demographics – where are the fish and when

Datasets Not to Include

1. Water Rights
2. Economics
3. Operational planning models (the big “Hairball” spreadsheet model from Klamath)