

CH2M HILL Tasks

- Chartering meeting
- Needs assessment
- Baseline inventory
- Complete alternative measures for primary objectives
- Compile alternative measures for secondary objectives
- Identify preliminary scenarios
- Prepare Feasibility Scoping Meeting Report

CH2M HILL Tasks

- Project team coordination
 - Project delivery team (PDT)
 - POH members
 - Consultant team
 - Meet quarterly or more often when needed
 - Stakeholders
 - Federal, State, local agencies
 - Elected officials
 - Community organizations
 - Meet quarterly or more often when needed
 - Technical advisory team (TAT)
 - Ecosystem restoration
 - Hydrology and hydraulics
 - Water quality and sediment transport
 - Technical experts from POH, consultant, agencies

CH2M HILL Tasks

- Public Involvement
 - Briefings to key decision-makers
 - Agency updates
 - Briefings to non-Federal sponsors
 - Individual interviews and small-group meetings
 - Community briefings/updates
 - Public meeting
 - Project website

Future Phases

- Develop Alternatives Formulation Briefing Package
 - Draft Feasibility Study
 - Finalize alternative plans
 - Analyze and evaluate alternative plans
 - Identify National Economic Development (NED) plan and Locally-Preferred Plan (LPP)
 - Draft EIS
 - Analyze alternative plan impacts
- Internal USACE review process
- Release Draft Feasibility Report/EIS for public review
- Public meeting
- Finalize Feasibility Report/EIS
- Obtain USACE and local sponsor approval and begin design
- Project authorization and funding
- Construction

WORKING DRAFT

Desired Outcomes

- Approved watershed plan for multiple users
- Community/stakeholder engagement and ownership
- Advocates, including key decision-makers for project
- Measurable and effective improvements
- Obtainable goals
- Implementation

WORKING DRAFT

Project Goal

Improve the overall quality of the watershed, from the crest of the Ko'olau to the nearshore waters, while minimizing risk of flood damages to the public

WORKING DRAFT

Project Objectives

- Flood hazard reduction
- Ecosystem restoration
- Improve water quality
- Potable water conservation
- Address coastal issues
- Increase recreational opportunities
- Community involvement
- Infrastructure maintenance

WORKING DRAFT

Flood Damage Reduction

- Reduce flood hazards to property and life safety within Ala Wai Watershed through measures that include natural, engineered and social processes

WORKING DRAFT

Ecosystem Restoration

- Preserve, restore or reverse degradation of natural watershed function and processes, where possible, throughout the watershed area, including the urban areas

WORKING DRAFT

Recreation

- Improve public use, access, recreation and environmental education opportunities with the implementation of the flood damage reduction and ecosystem restoration measures and alternatives

WORKING DRAFT

Water Quality

- Improve management of stormwater, sediments and other pollutants from the watershed
- Improve water quality in streams and canal to support swimming and fishing goals
- Minimize degradation of nearshore water quality

WORKING DRAFT

Water Supply

- Increase groundwater recharge by reducing impervious areas throughout the watershed

Coastal Issues

- Address opportunities in the Waikiki and Ala Moana areas:
 - Coastal management
 - Flood risk reduction
 - Ecosystem restoration
 - Recreation
 - Water supply
 - Water quality
 - Economic engine
 - Hurricane and tsunami
 - Sea level rise

Community Involvement

- Educate the public and provide incentives for implementing water quality improvement and Low Impact Development (LID) measures
- Educate public and provide incentives for water conservation and Low Impact Development (LID) measures

ALA WAI WATERSHED PROJECT PROCESS Stakeholder Meetings

- **Objective:**
 - General Status Update on the Ala Wai Watershed Project and other related projects.
- **Target Audience:**
 - Representatives from USACE, DLNR, NRCS, FEMA, C&C, Consultants, related or partnering federal, state and local agencies, representatives of State and C&C legislature, non-governmental organizations and the Public.
- **Date:**
 - 1st Friday of 2nd Month of Each Quarter (6 Feb 2009) or more frequently as needed.
- **Facilitator:** USACE Project Manager

1

ALA WAI WATERSHED PROJECT PROCESS Executive Committee Meeting

- **Objective:**
 - Update on the Ala Wai Watershed Project and seek decisions or resolution of key issues for project development.
- **Target Audience:**
 - Signatories to the Feasibility Cost Share Agreements - USACE Deputy District Engineer for Programs and DLNR Chair. Seeking to expand this to the C&C Managing Director.
- **Date:**
 - Semi-Annually or more frequently as needed.
- **Facilitator:** USACE and/or DLNR Project Manager

2

ALA WAI WATERSHED PROJECT PROCESS Sponsors Meeting

- **Objective:**
 - Provide detailed discussion of project development.
 - Seek necessary input/decisions from Sponsors where decision levels can occur below the Executive Committee level.
- **Target Audience:**
 - Program/Project Managers from USACE, State, C&C, NRCS, FEMA and Consultants.
- **Date:**
 - As needed.
- **Facilitator:** USACE, DLNR and/or C&C Project Manager

3

ALA WAI WATERSHED PROJECT PROCESS Technical Advisory Team (TAT) - Public Involvement

- **Objective:**
 - Working Group Discussion of Strategy for Public Involvement.
 - Provides recommendations for revisions to the Stakeholder Implementation Plan as needed through project implementation.
 - Provides recommendations on partnering organizations to assist in public involvement/education objectives
- **Target Audience:**
 - Subject Matter Experts/Technical Experts from USACE, DLNR, C&C and other Federal, State, and local agencies, community organizations and consultants.
 - Members of the public and any organization are welcome to join the TAT as long as these members understand the TAT is a working group and products developed in the TAT are recommendations and/or working drafts not available for public distribution.
- **Date:**
 - As Needed Basis
- **Facilitator:** Consultant Technical Lead

4

ALA WAI WATERSHED PROJECT PROCESS Technical Advisory Team (TAT) – Hydrology and Hydraulics

- **Objective:**
 - Working Group Discussion of Technical Issues surrounding the Hydrology and Hydraulics modeling and analysis.
 - Provides recommendations for revisions to the modeling and analysis.
 - Provides recommendations on partnering organizations to consider.
 - Topics include but aren't limited to flood risk management measures, hydrologic functions of restoration projects, and sea level rise, flood risk management alternatives, effectiveness of non-structural measures
- **Target Audience:**
 - Subject Matter Experts/Technical Experts from USACE, DLNR, C&C, NRCS, FEMA, State Civil Defense and other Federal, State, and local agencies, community organizations and consultants.
 - Members of the public and any organization are welcome to join the TAT as long as these members understand the TAT is a working group and products developed in the TAT are recommendations and/or working drafts not available for public distribution.
- **Date:**
 - As Needed Basis
- **Facilitator:** USACE Technical Lead and/or Consultant Technical Lead

5

ALA WAI WATERSHED PROJECT PROCESS Technical Advisory Team (TAT) – Ecosystem Restoration

- **Objective:**
 - Working Group Discussion of Ecosystem Restoration Strategies.
 - Provides recommendations for revisions to measures/strategies.
 - Provides recommendations on partnering organizations to consider.
 - Topics include ecosystem restoration goals and objectives (level to restore to), development of habitat equivalency units, ecosystem restoration measures and alternatives development, success criteria
- **Target Audience:**
 - Subject Matter Experts/Technical Experts from USACE, DLNR, NRCS, FWS, NOAA, DAR, DOFAW, C&C and other Federal, State, and local agencies, community organizations and consultants.
 - Members of the public and any organization are welcome to join the TAT as long as these members understand the TAT is a working group and products developed in the TAT are recommendations and/or working drafts not available for public distribution.
- **Date:**
 - As Needed Basis
- **Facilitator:** Consultant Technical Lead

6

ALA WAI WATERSHED PROJECT PROCESS
Technical Advisory Team (TAT) – Water Quality

- **Objective:**
 - Working Group Discussion of Water Quality Issues.
 - Provides recommendations for revisions to modeling and sampling strategies.
 - Provides recommendations on partnering organizations to consider.
 - Topics include water quality data gaps, impacts associated with water quality, potential measures to address water quality, benefits of ecosystem restoration measures for water quality, success criteria
- **Target Audience:**
 - Subject Matter Experts/Technical Experts from USACE, C&C ENV, DLNR, FWS, EPA, DAR, DOH and other Federal, State, and local agencies, community organizations and consultants.
 - Members of the public and any organization are welcome to join the TAT as long as these members understand the TAT is a working group and products developed in the TAT are recommendations and/or working drafts not available for public distribution.
- **Date:**
 - As Needed Basis
- **Facilitator:** Consultant and/or C&C ENV Technical Lead

7

ALA WAI WATERSHED PROJECT PROCESS
Project Delivery Team (PDT)

- **Objective:**
 - Team in charge of project development, specifically the development of the feasibility study and EIS
 - PDT determines whether new TATs need to be formed and by what topic as well as when a TAT has completed its function and can be dissolved or absorbed into a new TAT.
 - PDT determines when it is appropriate to call a meeting at any of the levels discussed above.
- **Audience:**
 - USACE, DLNR, C&C ENV, NRCS, FEMA, State Civil Defense, and consultants.
 - Attendance is only open by invitation of the USACE Project Manager.
- **Date:**
 - Monthly or as needed basis
- **Facilitator:** USACE and/or Consultant Project Manager

8

