




Temperature Standards Development

AAH/RMH & Policy 06-1




Background

- 
- Current Standards are impossible to understand, implement
 - Not resolve in June 2005 Basic Standards (Reg. No 31) RMH
 - WQCC set up special temperature hearings




Hearing Schedule

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- *...Stakeholder Mtgs/TAC...*
 - AAH – Administrative Action Hearing – April 10th, 2006
 - *...More Stakeholder Mtgs/Consultant work...*
 - RMH – Rulemaking Hearing - January 2007




AAH Document

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- Risk Management Documents
 - Policy 06-1 (version 5)
 - Division Advocacy Document
 - Party Comments (advocacy)
 - Rebuttals




Policy 06-1

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- “Workplan” for the Division
 - Gives direction to the Division and Stakeholders for the next steps in the process
 - Breaks up a huge undertaking into smaller pieces
 - No regulatory authority




Policy 06-1

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- I. Intro
 - II. Background
 - III. Central Concepts
 - IV. Criteria – Magnitude
 - Acute
 - Chronic
 - Special Provisions
(Spawning & Thermal Shock)




Policy 06-1

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- V. Criteria – Frequency
 - VI. Criteria – Duration
 - VII. Community Composition
 - VIII. Methodology to develop Criteria
 - IX. Data Quality Screening Guidelines
 - X. Database
 - XI. Implementation into Regulations
 - XII. Recalculation Procedure




Risk Questions and Options

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- Document developed to discuss the risks associated with different temperature criteria options
 - Discusses differences and similarities with metals standards
 - Lays out some options for the WQCC





AAH – Major Issues (Acute Criteria)

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- Acute Criteria – What data to use?
(UILT data, UUILT data, CTM data)
 - Acute Criteria MOS – 2 degree C,
calculated MOS, No MOS
 - Combining the Community: additional
community MOS, most sensitive
member of the community, 95% of the
members of the community




AAH – Major Issues (Chronic Criteria)

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- Chronic Criteria – What data to use?
(center OT, upper OT, 1/3 Rule)
 - Combining the Community: additional community MOS (where data is not present for species present), most sensitive member of the community, 95% of the members of the community




AAH – Major Issues (Methodology)

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- How should field data be used?
 - To validate results from lab data
 - Combined with lab data
 - Not used at all




Policy, Methodology, & Criteria Development

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- The Policy sets forth how the criteria will be developed.
 - The literature is being reviewed and compiled into the database this summer.
 - Will be able to roll out the database mid-summer.




AAH – Major Issues (Thermal Shock)

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- More investigation into the following options:
 - Delta T at the end of the mixing zone
 - Rate of Change
 - Narrative Standard



AAH – Major Issues (Spawning)

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- More investigation into the following:
 - Species specific and or season specific options for numeric criteria




AAH – Major Issues

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- Numeric vs. Narrative




Preparing for 2007 RMH

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- Database Development
 - Stakeholder Process to discuss remaining issues
 - Proposals due in September
 - Rulemaking Hearing Proceeds after Sept. with additional meetings and written testimony




Future Topics for RMH

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- Criteria: Frequency & Duration
 - (May 22nd)
 - Community Composition




Future Topics for RMH

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- Adoption of Criteria into Standards
 - Definition of Normal Pattern of Seasonal and Diurnal Variations
 - How should a narrative standard be written?




Future Topics for RMH

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- Implementation into permits
 - Potential changes to the Mixing Zone Policy
 - Data needed for compliance
 - Thermal Shock
 - Attainment Issues – 303(d) Listing Methodology




Future Topics for RMH

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- Spawning (Sensitive Life Stage)
 - Excursions
 - Non point source issues
 - Stenothermic/Eurythermic Species




Future Topics for RMH

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- Acute Criteria MOS
 - (something other than 2 degrees?)
 - Use of CTM Data
 - (is there a relationship?)



Regulatory Impact Concerns

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- Will there be impacts to dischargers?
 - Will Colorado waters comply with the new criteria?



Ways to get Involved



- Temperature Stakeholder Meetings

(please sign up if you are not on our mailing list)

Next Meeting – May 22nd, 10-12, DRCOG



Future Meetings

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- May 22rd: 10-12 (DRCOG)
 - June 20th: 1-3 (Carson)
 - July 18th: 10-12 (Carson)
 - August 16th: 10-12 (Carson)
 - Sept 6th: 1-3 (Carson)
 - Sept 20th: 2-4 (Carson)



Additional Info Sources & Contact Information

- Info from April 2005 AAH:

<http://www.cdphe.state.co.us/op/wqcc/MeetingsandHearings/HearingNotices/AAH/TCMAAH.html>

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