



Agenda Date: 2/11/2021

Agenda Placement: 6C

A Tradition of Stewardship
A Commitment to Service

GROUNDWATER SUSTAINABILITY PLAN ADVISORY COMMITTEE **Board Agenda Letter**

TO: Groundwater Sustainability Plan Advisory Committee

FROM: Jeff Sharp for David Morrison - Director of Planning, Building and Environmental Services
PBES - Environmental Health

REPORT BY: Jeff Sharp, SUPERVISING PLANNER - 707-259-5936

SUBJECT: Overview of the Napa Valley Integrated Hydrologic Model prepared for the Napa Valley Subbasin
Groundwater Sustainability Plan - Part 2

RECOMMENDATION

Receive a presentation overviewing the development of inputs to and approach for the Napa Valley Integrated Hydrologic Model prepared for the Napa Valley Subbasin GSP and the request for Committee's review and comment.

EXECUTIVE SUMMARY

Dr. Robert Twiss, of the CONCUR Inc. team will present on considerations to bear in mind when using models for planning and decision making. Nick Newcomb, of Luhdorff & Scalmanini Consulting Engineers (LSCE), and Ryan Fulton, of Davids Engineering, will provide a presentation describing the development of model inputs and approaches used in the Napa Valley Integrated Hydrologic Model being prepared for the Napa Valley Subbasin

GSP. The presentation will be provided for the Committee's review and discussion.

Procedure

Staff introduces the presentation.

Questions and answers with the Committee. Public comments.

Discuss Committee review and comment on the presentation and recommendations to staff.

FISCAL & STRATEGIC PLAN IMPACT

Is there a Fiscal Impact? No

County Strategic Plan pillar addressed:

ENVIRONMENTAL IMPACT

ENVIRONMENTAL DETERMINATION: The proposed action is not a project as defined by 14 California Code of Regulations 15378 (State CEQA Guidelines) and therefore CEQA is not applicable.

BACKGROUND AND DISCUSSION

At the Committee's January 14, 2021 meeting, Nick Newcomb, Project Hydrogeologist, with Luhdorff & Scalmanini Consulting Engineers (LSCE), provided an introductory presentation (Part 1) that overviewed and described the development process for of the Napa Valley Integrated Hydrologic Model (NVIHM) that is being prepared to support the Napa Valley Subbasin GSP. The presentation included information on why groundwater models are developed, what model frameworks looks like, how the model development process is progressing and what model outcomes can be expected.

As a follow up to the Part 1 introductory model presentation, Dr. Robert Twiss, of CONCUR Inc. team will present on considerations to bear in mind when using models for planning and decision making. Mr. Newcomb, along with Ryan Fulton from Davids Engineering, will provide a presentation (Part 2) describing the development of model inputs and approaches used in the Napa Valley Integrated Hydrologic Model. Guidance on the use of the Napa Valley Integrated Hydrologic Model (NVIHM) is provided for the Committee's review.

This Part 2 presentation highlights key model inputs regarding geology, climate, stream-aquifer interaction and landscape water supply and demand. The presentation also provides an overview of crop parameters and analysis of evapotranspiration and crop coefficients presented by Davids Engineering.

SUPPORTING DOCUMENTS

A . Guidance on use of the Napa Valley Integrated Hydrologic Model

B . Presentation II on development and inputs of the Integrated Hydrologic Model

Committee Recommendation: Approve

Reviewed By: Jeff Sharp