

11. Consider Authorizing the General Manager to Enter into a Contract with Montgomery and Associates to Provide a Tularicitos Aquifer Storage and Recovery (ASR) Feasibility Study

MPWMD Board of Directors Meeting
20 March, 2023
Maureen Hamilton, District Engineer

Water Rights History

| Year | Water Right | Project | Acre-feet per year |
|------|-------------|---------------------------|--------------------|
| 1995 | 20808 | New Los Padres Dam | 24,000 |
| 2007 | 20808 | Voluntarily Revoked | |
| | 20808A | ASR Phase 1 (ASR 1 and 2) | 2,426 |
| | 20808B | New Los Padres Dam | 21,574 |
| 2011 | 20808C | ASR Phase 2 (ASR 3 and 4) | 2,900 |
| | 20808B | New Los Padres Dam | 18,674 |

20808B in 2020

- ▶ 3/4/2020 State Water Resources Control Board (SWRCB) letter asking if the District planned to file a petition for extension of time to construct the Dam because WR 20808B would expire in December.
- ▶ 3/24/2020 SWRCB staff recommended the District file a petition for extension of time to show beneficial use and withdraw the petition for extension of time to construct New Los Padres Dam. Once the District has completed a feasibility analysis and identified viable project(s), a petition for change can be filed to modify the water right to apply to the new application.
- ▶ December 2020 a petition for 15-year extension was filed for 20808B

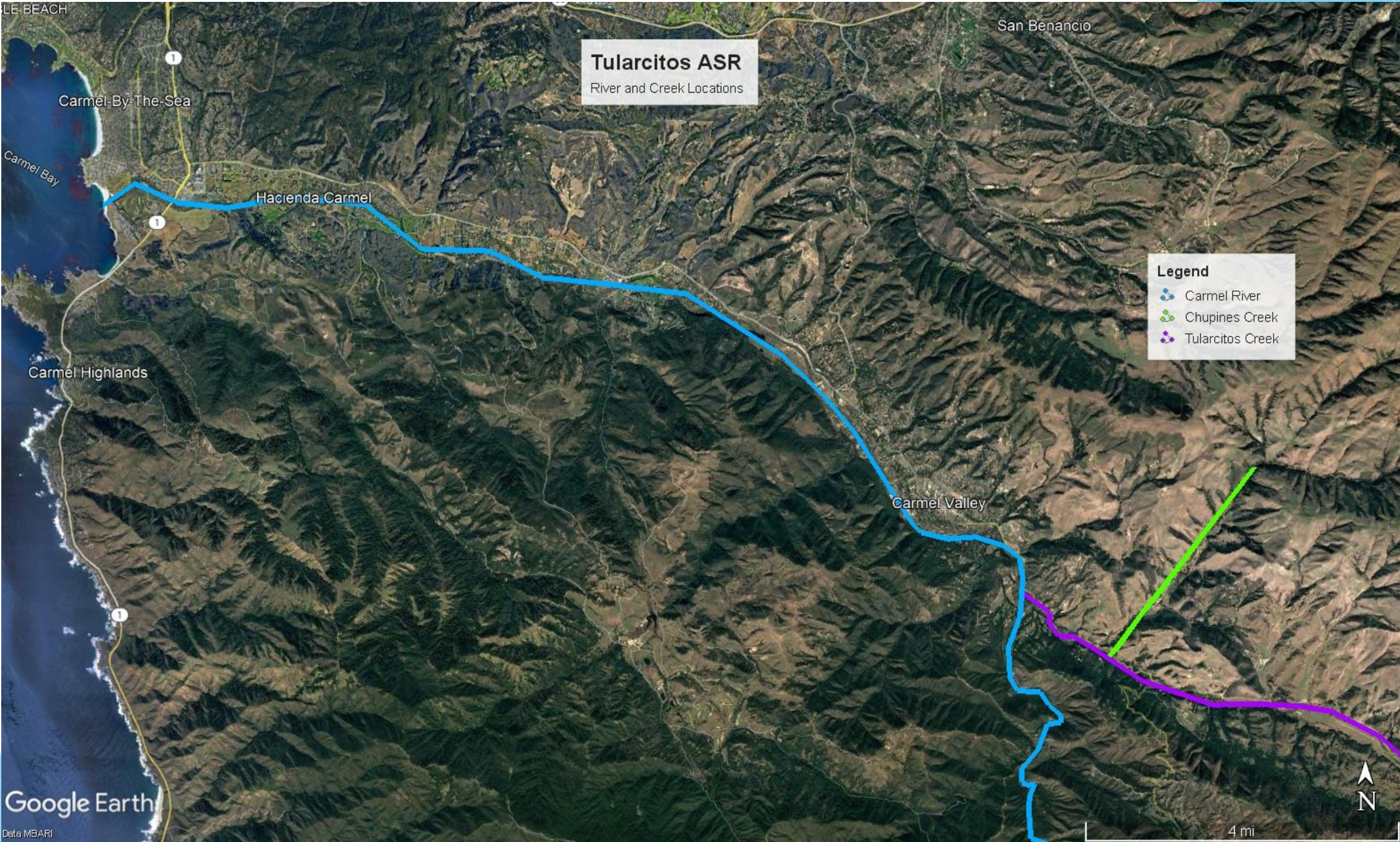
Water Code

Division 2, Part 2, Chapter 6, Article 5

- ▶ 1410 (a) There shall be cause for revocation of a permit if the work is not commenced, prosecuted with due diligence, and completed or the water applied to beneficial use as contemplated in the permit and in accordance with this division and the rules and regulations of the board.

Project

- ▶ **Diversion - Conveyance - Storage - Recovery**
 - ▶ Existing ASR water rights limit 29.1 af/d
 - ▶ Diversion currently limited to ~ 30 af/d
 - ▶ Conveyance currently limited to < 19 af/d
 - unless the Monterey Pipeline can be used
 - ▶ Storage currently limited to 26 af/d
 - With all 4 existing ASR wells
- ▶ => Tularcitos ASR



Next Steps

1. Analyze the availability of Carmel River water for ASR diversion
2. Develop a hydrogeological framework – structural features, hydraulic properties, hydrostratigraphy.
 - ▶ Hydrostratigraphy – classification of geologic structures in regard to their water-bearing characteristics
3. Develop cross sections of the area of interest
4. Model-based evaluation of ASR well feasibility and project sizing
5. Select hydrogeologic units and sites for further analysis and field testing if preliminary screening indicates potential project feasibility

Staff Recommendation

- ▶ That the Board authorize the General Manager to enter a contract with Montgomery and Associates to provide a Tularcitos ASR Feasibility Study for an amount not to exceed \$119,200.
 - ▶ Work will be conducted on a time and materials basis
 - ▶ The requested amount is included in the FY 22-23 budget

Questions?