

The Metropolitan Water District of Southern California

Agenda

The mission of the Metropolitan Water District of Southern California is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

LTRPPBM Committee

M. Petersen, Chair
K. Seckel, Vice Chair
D. Alvarez
J. D. Armstrong
D. Erdman
S. Faessel
L. Fong-Sakai
M. Gold
J. McMillan
T. Quinn
N. Sutley

Subcommittee on Long-Term Regional Planning Processes and Business Modeling

Meeting with Board of Directors *

September 25, 2024

10:00 a.m.

Agendas, live streaming, meeting schedules, and other board materials are available here:

<https://mwdh2o.legistar.com/Calendar.aspx>. Written public comments received by 5:00 p.m. the business days before the meeting is scheduled will be posted under the Submitted Items and Responses tab available here:

<https://mwdh2o.legistar.com/Legislation.aspx>.

If you have technical difficulties with the live streaming page, a listen-only phone line is available at 1-877-853-5257; enter meeting ID: 862 4397 5848.

Members of the public may present their comments to the Board on matters within their jurisdiction as listed on the agenda via in-person or teleconference. To participate via teleconference 1-833-548-0276 and enter meeting ID: 815 2066 4276 or to join by computer [click here](#).

MWD Headquarters Building • 700 N. Alameda Street • Los Angeles, CA 90012

Teleconference Locations:

City Hall • 303 W. Commonwealth Avenue • Fullerton, CA 92832

525 Via La Selva • Redondo Beach, CA 90277

3008 W. 82nd Place • Inglewood, CA 90305

San Diego County Water Authority, Lobby Conference Room • 4677 Overland Avenue • San Diego, CA 92123

* The Metropolitan Water District's meeting of this Committee is noticed as a joint committee meeting with the Board of Directors for the purpose of compliance with the Brown Act. Members of the Board who are not assigned to this Committee may participate as members of the Board, whether or not a quorum of the Board is present. In order to preserve the function of the committee as advisory to the Board, members of the Board who are not assigned to this Committee will not vote on matters before this Committee.

1. **Opportunity for members of the public to address the committee on matters within the committee's jurisdiction (As required by Gov. Code Section 54954.3(a))**

**** CONSENT CALENDAR ITEMS -- ACTION ****

2. **CONSENT CALENDAR OTHER ITEMS - ACTION**

- A. Approval of the Minutes of the Subcommittee on Long-Term Regional Planning Processes and Business Modeling Meeting for August 28, 2024 (Copies have been submitted to each Director, Any additions, corrections, or omissions) [21-3836](#)

Attachments: [09252024 LTRPPBM 2A \(08282024\) Minutes](#)

**** END OF CONSENT CALENDAR ITEMS****

3. **SUBCOMMITTEE ITEMS - CAMP4W TASK FORCE**

- a. Member Agency Managers Task Force Members [21-3835](#)

Cesar Barrera, City of Santa Ana
Nina Jazmadarian, Foothill Municipal Water District
Shivaji Deshmukh, Inland Empire Utilities Agency
Dave Pedersen, Las Virgenes Municipal Water District
Anatole Falagan, Long Beach Water Department
Anselmo Collins, Los Angeles Department of Water and Power
Harvey De La Torre, Municipal Water District of Orange County
Dan Denham, San Diego County Water Authority
Kristine McCaffrey, Calleguas Municipal Water District
Tom Love, Upper San Gabriel Valley Municipal Water District
Craig Miller, Western Municipal Water District
Joe Mouawad, Eastern Municipal Water District
Stacie Takeguchi, Pasadena Water and Power

- b. Evaluative Criteria and Climate Decision-Making Framework [21-3837](#)

Attachments: [09252024 LTRPPBM 3b C-L](#)
[09252024 LTRPPBM 3b Example Project Scoring Using](#)
[CAMP4W Assessment Form](#)
[09252024 LTRPPBM 3b Presentation](#)

- c. Member Agency Update on Business Model Refinement [21-3838](#)

4. **FOLLOW-UP ITEMS**

NONE

5. FUTURE AGENDA ITEMS

6. ADJOURNMENT

NOTE: This committee reviews items and makes a recommendation for final action to the full Board of Directors. Final action will be taken by the Board of Directors. Committee agendas may be obtained on Metropolitan's Web site <https://mwdh2o.legistar.com/Calendar.aspx>. This committee will not take any final action that is binding on the Board, even when a quorum of the Board is present.

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site <https://mwdh2o.legistar.com/Calendar.aspx>.

Requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

MINUTES

SUBCOMMITTEE ON LONG-TERM REGIONAL PLANNING PROCESSES AND BUSINESS MODELING

August 28, 2024

Vice Chair Seckel called the meeting to order at 10:00 a.m.

Members present: Alvarez, Armstrong (AB2449 just cause), Erdman (AB 2449 Emergency Circumstances), Faessel, Fong-Sakai, Gold, McMillan, Quinn (entered after rollcall), Seckel, and Sutley (entered after rollcall).

Member(s) absent: Petersen.

Other Board Members present: Bryant, Dennstedt, Goldberg, Miller (teleconference posted location), Ortega, and Smith (teleconference posted location).

Committee Staff present: Upadhyay, Crosson, Dunbar, and Quilizapa.

Director Erdman requested the use of AB 2449 emergency circumstances which requires a committee vote to allow him to participate.

Director Alvarez made a motion, seconded by Director Faessel.

The vote was:

Ayes:	Alvarez, Armstrong, Faessel, Fong-Sakai, Gold, McMillan, and Seckel.
Noes:	None
Abstentions:	None
Not Voting:	Erdman
Absent:	Petersen, Quinn, and Sutley

The motion passed by a vote of 7 ayes, 0 noes, 0 abstentions, 1 not voting, and 3 absent.

1. OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE COMMITTEE ON MATTERS WITHIN THE COMMITTEE'S JURISDICTION

	Name	Affiliation	Comment
1.	Ellen Mackey	Metropolitan Employee	Non-agenda item

CONSENT CALENDAR ITEMS – ACTION

2. CONSENT CALENDAR OTHER ITEMS – ACTION

- A. Approval of the Minutes of the Subcommittee on Long-Term- Regional Planning Processes and Business Modeling for July 24, 2024.

Director Alvarez made a motion to approve item 2A, seconded by Director Sutley.

The vote was:

Ayes: Alvarez, Armstrong, Erdman, Faessel, Fong-Sakai, Gold, McMillan, Seckel, and Sutley
Noes: None
Abstentions: None
Absent: Petersen and Quinn

The motion for Item 2A passed by a vote of 9 ayes, 0 noes, 0 abstentions, and 2 absent.

END OF CONSENT CALENDAR ITEMS

3. SUBCOMMITTEE ITEMS - CAMP4W TASK FORCE

- a. Subject: Member Agency Managers Task Force Members
- Cesar Barrera, City of Santa Ana
Nina Jazmadarian, Foothill Municipal Water District
Shivaji Deshmukh, Inland Empire Utilities Agency
Dave Pedersen, Las Virgenes Municipal Water District
Anatole Falagan, Long Beach Water Department
Anselmo Collins, Los Angeles Department of Water and Power
Harvey De La Torre, Municipal Water District of Orange County
Dan Denham, San Diego County Water Authority
Kristine McCaffrey, Calleguas Municipal Water District
Tom Love, Upper San Gabriel Valley Municipal Water District
Craig Miller, Western Municipal Water District
Joe Mouawad, Eastern Municipal Water District
Stacie Takeguchi, Pasadena Water and Power

Presented by: No presentation was given.

Task Force Members present: Barrera, Collins, De La Torre, Denham, Deshmukh, Falagan, Jazmadarian, Love, McCaffrey, Miller, Mouawad, Pedersen, and Takeguchi.

- b. Subject: CAMP4W Task Force – Refined Evaluative Criteria Approach and Member Agency Feedback.
- Presented by: Liz Crosson, Chief Sustainability, Resilience, and Innovation Officer; Keith Nobriga, Integrated Operations Planning and Support Services Group Manager; and John Shamma, Engineering Services Section Manager.

Ms. Crosson, Mr. Nobriga, and Mr. Shamma led the discussion regarding Item 3b, CAMP4W Task Force – Refined Evaluative Criteria Approach and Member Agency Feedback.

The following Directors and Member Agency Managers asked questions and provided comments:

1. De La Torre
2. Mouawad
3. Collins
4. Falagan
5. Takeguchi
6. Gold
7. Alvarez
8. Ortega
9. Smith
10. Dennstedt
11. Sutley
12. Goldberg
13. Miller
14. Deshmukh

Staff responded to the Directors' and Member Agency Manager's comments and questions.

- c. Subject: CAMP4W Task Force – Service Area Population Data
- Presented by: Brandon Goshi, Water Resource Management Group Manager

Mr. Goshi led the discussion regarding Item 3c, CAMP4W Task Force – Service Area Population Data

The following Directors and Member Agency Managers asked questions and provided comments:

1. Goldberg
2. Erdman
3. Denham
4. Seckel
5. Armstrong
6. Gold
7. Love
8. Jazmadarian
9. Mouawad

Staff responded to the Directors’ and Member Agency Manager's comments and questions.

- d. Subject: Member Agency Ad Hoc Working Group Update on Business Model Discussions
- Presented by: Mohsen Mortada, Chief of Staff and Member Agency Manager
 Dave Pedersen

Mr. Mortada and Mr. Pedersen led the discussion regarding Item 3d, Member Agency Ad Hoc Working Group Update on Business Model Discussions.

The following Directors and Member Agency Managers asked questions and provided comments:

1. Ortega
2. Sutley
3. Seckel

Staff responded to the Directors’ and Member Agency Manager's comments and questions.

4. FOLLOW-UP ITEMS

None

5. FUTURE AGENDA ITEMS

None

The next meeting will be held on September 25, 2024.

The meeting adjourned at 12:44 p.m.

Karl Seckel
Vice Chair



Subcommittee on Long-Term Regional Planning Processes and Business Modeling

9/25/2024 Subcommittee Meeting

3b

Subject

Evaluative Criteria and Climate Decision-Making Framework

Executive Summary

In February 2023, the Board directed staff to integrate water resources, climate, and financial planning into a Climate Adaptation Master Plan for Water (CAMP4W). Specifically, CAMP4W will include: (1) Climate and Growth Scenarios, (2) Time-Bound Targets, (3) A Framework for Climate Decision-Making and Reporting, (4) Policies, Initiatives, and Partnerships, and (5) Business Models and Funding Strategies. CAMP4W will increase Metropolitan's understanding of the climate risks to water supplies, infrastructure, operations, workforce, and business model. CAMP4W will also provide decision-making tools and long-term planning guidance for adapting to climate change in order to strengthen Metropolitan's ability to fulfill its mission.

To facilitate the development of the CAMP4W in a timely and transparent process, a Joint Task Force was chartered by the Board in October 2023. The Task Force is made up of Board members, Member Agency managers, and Metropolitan staff. The initial development tasks were submitted to the Board in the CAMP4W Year One Progress Report, which achieved concurrence by the Board in May 2024. The refinement and development of the remaining CAMP4W components, inclusive of the Climate Decision-Making Framework, will continue throughout 2024.

The Climate Decision-Making and Reporting Framework includes the development of Evaluative Criteria to align Metropolitan's investments with the values and priorities of the Board while complementing Member Agencies' individual plans and investments. Evaluative Criteria are one component of the decision-making process, which includes resource and policy-based Time-Bound Targets and Signposts for tracking real-world conditions over time.

Evaluative Criteria development history can be found in [Working Memorandum #2](#), which presents the Themes that were developed with the Board to establish the priority areas to be addressed by the CAMP4W process, and in [Working Memoranda #5](#), which details the process from which the Themes were distilled into discrete Evaluative Criteria categories. These memoranda, along with the [CAMP4W Year One Progress Report](#), formed the foundation for the work completed by the Task Force to date.

This Committee Item presents Working Memorandum #9 (**Attachment 1**), which lays out the proposed methodology for using the Evaluative Criteria to comprehensively assess projects, programs, and portfolios in the CAMP4W process.

Fiscal Impact

Not applicable

Applicable Policy

By Minute Item 52776, dated April 12, 2022, the Board adopted the 2020 Integrated Water Resources Plan Needs Assessment.

By Minute Item 52946, dated August 15, 2022, the Board adopted a resolution affirming Metropolitan's call to action and commitment to regional reliability for all member agencies.

By Minute Item 53381, dated September 12, 2023, the Board approved the use of Representative Concentration Pathway (RCP) 8.5 for planning purposes in the Climate Adaptation Master Plan for Water.

Related Board Action(s)/Future Action(s)

The methodology for using the Evaluative Criteria for projects, programs, and portfolios will be included in the Climate Adaptation Master Plan, planned for Board review in early 2025.

Details and Background

Background

Beginning in the spring of 2023, the Board considered forty-four Themes, which encapsulate the Board's priorities within the context of the CAMP4W process and the five overarching categories: Reliability, Resilience, Equity, Affordability and Financial Sustainability. During the November 21, 2023, and December 19, 2023 Joint Task Force meetings, staff presented an overview of the progression from these forty-four themes to ten Draft Evaluative Criteria and eventually the six which were refined by the Task Force for inclusion in the CAMP4W Year One Progress Report.

In early August 2024, the Member Agency Managers were presented with an initial methodology for scoring projects and programs. The initial methodology was purely quantitative and proposed a set of metrics to provide numeric values for each evaluative criteria totaling a composite score for each project or program. The initial methodology also included weighting factors based on previous discussions and the CAMP4W Year One Progress Report. This approach was intended to provide a transparent, data-driven, and standardized method of evaluation. However, this also resulted in a complex scoring methodology that raised concerns with the Task Force and Member Agencies.

Based on feedback from Member Agency Managers and the Task Force, staff refined the methodology. It continues to allow for a comprehensive assessment based on many of the quantitative metrics initially presented, but now also includes qualitative descriptions of project or program attributes.

To facilitate the inclusion of quantitative and qualitative assessments and ensure comments received from the Task Force, Member Agency Managers, and other interested parties were incorporated, a series of considerations for each of the six criteria originally included in [Working Memorandum #5](#) were reviewed and updated (see **Attachment 2, CAMP4W Comprehensive Assessment**). These considerations are intended to guide the evaluation process and provide a uniform set of data points for Board deliberations on proposed projects,

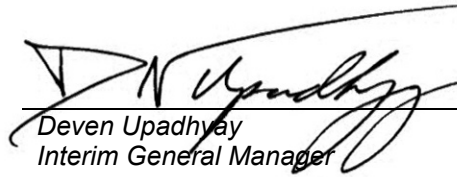
programs, and portfolios. While the questions help standardize evaluations, the assessment format allows for the consideration of attributes that may extend beyond the questions. An evaluation committee of Metropolitan staff from across the different disciplines (water resources, engineering, operations, sustainability, and finance) will conduct and provide the assessments.



Elizabeth Crosson
Chief Sustainability, Resilience and
Innovation Officer

9/20/2024

Date



Deven Upadhyay
Interim General Manager

9/20/2024

Date

Attachment 1 – Working Memo #9**Attachment 2 – Form CAMP4W Comprehensive Assessment**

Ref# sri12704533

Climate Adaptation Master Plan for Water (CAMP4W)

WORKING MEMORANDUM 9

PROJECT, PROGRAM AND PORTFOLIO ASSESSMENT

September 2024

1 Introduction

In February 2023, the Board directed staff to integrate water resources, climate, and financial planning into a Climate Adaptation Master Plan for Water (CAMP4W). Specifically, CAMP4W will include (1) Climate and Growth Scenarios, (2) Time-Bound Targets, (3) A Framework for Climate Decision-Making and Reporting, (4) Policies, Initiatives, and Partnerships, and (5) Business Models and Funding Strategies. CAMP4W will increase Metropolitan's understanding of the climate risks to water supplies, infrastructure, operations, workforce, and business model. CAMP4W will also provide decision-making tools and long-term planning guidance for adapting to climate change, in order to strengthen Metropolitan's ability to fulfill its mission.

To facilitate the development of the CAMP4W in a timely and transparent process, a Joint Task Force was chartered by the Board in October 2023. The Task Force is made up of Board members, Member Agency managers, and Metropolitan staff. The initial development tasks were submitted to the Board in the CAMP4W Year One Progress Report, which achieved concurrence by the Board in May 2024. The refinement and development of the remaining CAMP4W components, inclusive of the Climate Decision-Making Framework, will continue throughout 2024.

The Climate Decision-Making and Reporting Framework includes the development of Evaluative Criteria to align Metropolitan's investments with the values and priorities of the Board while complementing Member Agencies' individual plans and investments. Evaluative Criteria are one component of the decision-making process, which includes resource and policy-based Time-Bound Targets and Signposts for tracking real-world conditions over time. A key part of the Climate Decision-Making and Reporting Framework will require Board deliberations.

Evaluative Criteria development history can be found in [Working Memorandum #2](#), which presents the Themes that were developed with the Board to establish the priority areas to be addressed by the CAMP4W process, and in [Working Memoranda #5](#), which details the process from which the Themes were distilled into discrete Evaluative Criteria categories. These memoranda, along with the [CAMP4W Year One Progress Report](#), formed the foundation for the work completed by the Task Force to date.

This Working Memorandum #9 presents a major component of the Climate Decision-Making Framework – the proposed methodology for using the Evaluative Criteria to comprehensively assess projects, programs, and portfolios in the CAMP4W process. (**Figure 1**).

□

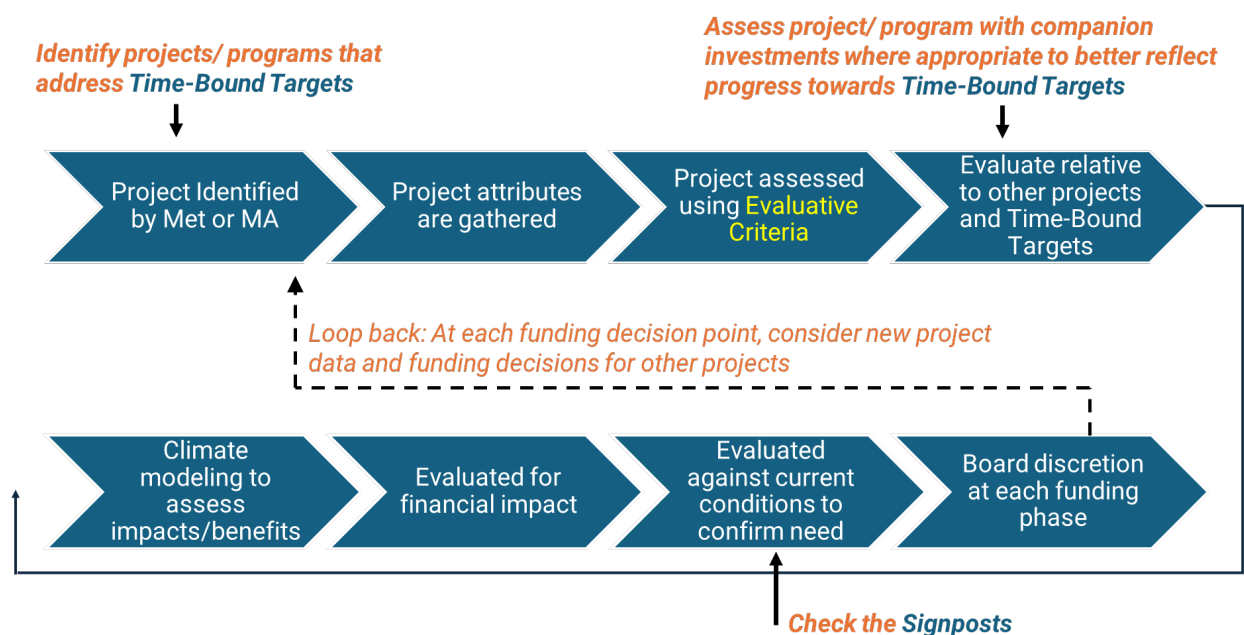


Figure 1. Climate Decision-Making Framework

2 Summary of Evaluative Criteria Evolution

Beginning in the spring of 2023, the Board considered forty-four Themes, which encapsulate the Board's priorities within the context of the CAMP4W process and the five overarching categories (**Figure 2**). During the November 21, 2023, and December 19, 2023, Joint Task Force meetings, staff presented an overview of the progression from these forty-four themes to ten Draft Evaluative Criteria and eventually the six which were refined by the Task Force for inclusion in the CAMP4W Year One Progress Report (**Figure 3**).

Evaluative Criteria are intended to provide a uniform methodology for project, program, and portfolio evaluation, which will support the Climate Decision-Making process by identifying the benefits of each project or program. This process is therefore intended to take the Board's preferences (as expressed in the Themes and Evaluative Criteria) and embed them into the project selection process by identifying and pursuing projects with benefits that align with the Evaluative Criteria.

Based on comments received from the Task Force and Member Agencies, Draft Evaluative Criteria were revised to reduce the total number of criteria from ten to six, as shown in **Figures 2, 3, and 4**.

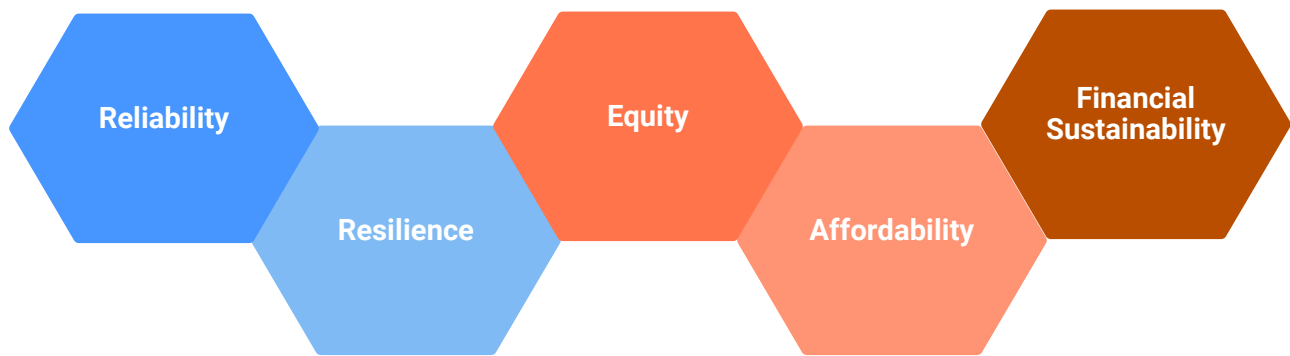


Figure 2. Board Priorities and Values Defined through the CAMP4W Process

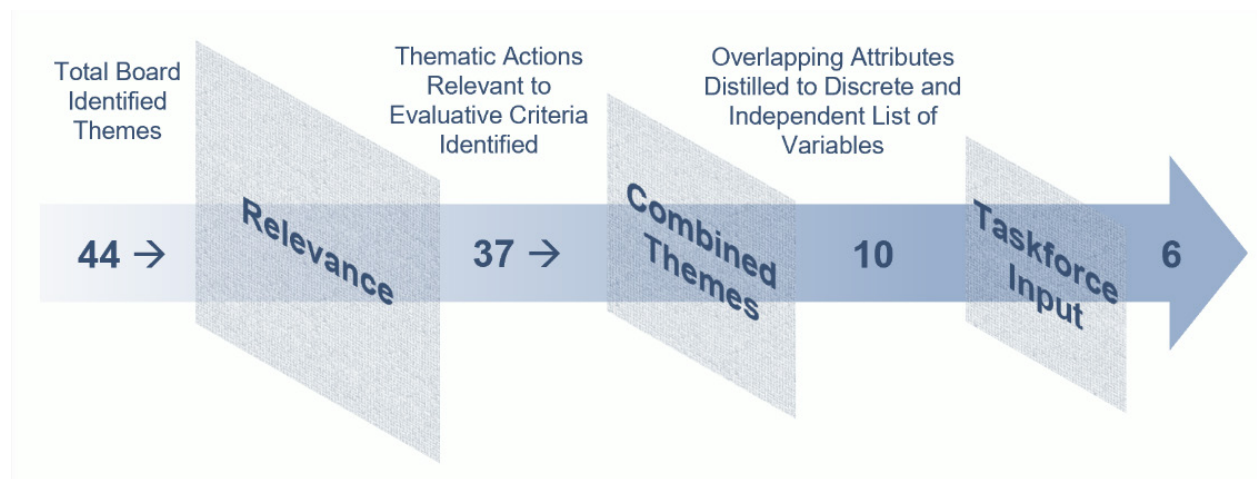


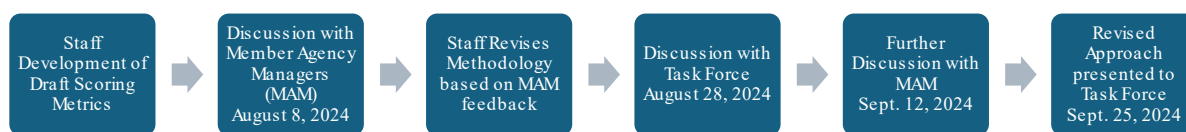
Figure 3. Evaluative Criteria Development



Figure 4. Final Six Evaluative Criteria (Presented in CAMP4W Year One Progress Report)

3 Project, Program, and Portfolio Evaluation

In early August 2024, the Member Agency Managers were presented with an initial methodology for scoring projects and programs. The initial methodology was purely quantitative and proposed a set of metrics to provide numeric values for each evaluative criteria totaling a composite score for each project or program. The initial methodology also included weighting factors based on previous discussions and the CAMP4W Year One Progress Report. This approach was intended to provide a transparent, data-driven, and standardized method of evaluation. However, this also resulted in a complex scoring methodology that raised concerns with the Task Force and Member Agencies. A revised methodology, which includes both quantitative and qualitative measures is described below. Steps taken to date are presented in **Figure 6, Steps to Refine Evaluation Methodology:**



OVERVIEW OF MEMBER AGENCY MANAGERS AND TASK FORCE FEEDBACK TO DATE

- The initial scoring metrics were overly complicated and difficult to implement
- One single composite score could mask unique attributes of each project or program
- The initial scoring metrics were too narrow and did not adequately represent the breadth of potential attributes
- Some quantitative metrics must be included in a Comprehensive Assessment and information provided should detail the degree to which a project provides benefits (not just yes/no determinations)
- Consider whether there should be a minimum threshold for criteria categories
- Include Time-Bound Targets in Comprehensive Assessment
- Ensure application to projects under development or complementary to primary projects
- Consider weighting at the staff level and including a sensitivity analysis
- Reliability should remain paramount and financial considerations more pronounced
- Assessment process should prioritize water supply and storage exchange opportunities among Member Agencies, specifically with existing infrastructure

3.1 Shift from Initial Scoring Methodology to a Comprehensive Assessment Approach

Based on feedback from Member Agency Managers and the Task Force, staff refined the methodology. It continues to allow for a comprehensive assessment based on many of the quantitative metrics initially presented, but now also includes qualitative descriptions of project or program attributes. (**Figure 7**).

Evaluative Criteria	
Reliability	<p>Each Project or Program would be considered through a robust narrative description of how project attributes achieve each objective</p> <p>Descriptions could include:</p> <ul style="list-style-type: none"> ✓ Quantitative metrics ✓ Qualitative information ✓ Gaps in information available
Resilience	
Adaptability & Flexibility	
Affordability	
Environmental Co-benefits	
Equity	

Figure 7. Quantitative and Qualitative Metrics by Evaluative Criteria Category

To facilitate the inclusion of quantitative and qualitative assessments and ensure comments received from the Task Force, Member Agency Managers, and other interested parties were incorporated, a series of considerations for each of the six criteria originally included in [Working Memorandum #5](#) were reviewed and updated (see **Attachment 1, CAMP4W Comprehensive Assessment**). These considerations are intended to guide the evaluation process and provide a uniform set of data points for Board deliberations on proposed projects, programs, and portfolios. While the questions help standardize evaluations, the assessment format allows for the consideration of attributes that may extend beyond the questions. An evaluation committee of Metropolitan staff from across the different disciplines (water resources, engineering, operations, sustainability, finance) will conduct and provide the assessments.

A Draft CAMP4W Comprehensive Assessment Form is attached. Key features include:

- 1) A summary page of each project, program, or portfolio with high-level assessment information.
- 2) Space to narratively describe quantitative and qualitative attributes, benefits, and challenges of each project, program, and portfolio.
- 3) Comprehensive and transparent descriptions in all six criteria categories.
- 4) Assessment by evaluative criteria category through a color ranking system.
- 5) Alignment of Time-Bound Target progress with project, program, and portfolio assessments.
- 6) Flexibility to assess companion projects and/or portfolios together or individually.

□

4 Next Steps

Additional feedback over the coming months will be incorporated into a refined Climate Decision-Making and Reporting Framework for consideration at the November 2024 CAMP4W Task Force. A digital version of the Comprehensive Assessment will also be developed to help compile and process data for each project, program, and portfolio. The dashboard will allow a more dynamic view of each assessment, separately and in combination. **Figure 8** presents next steps.

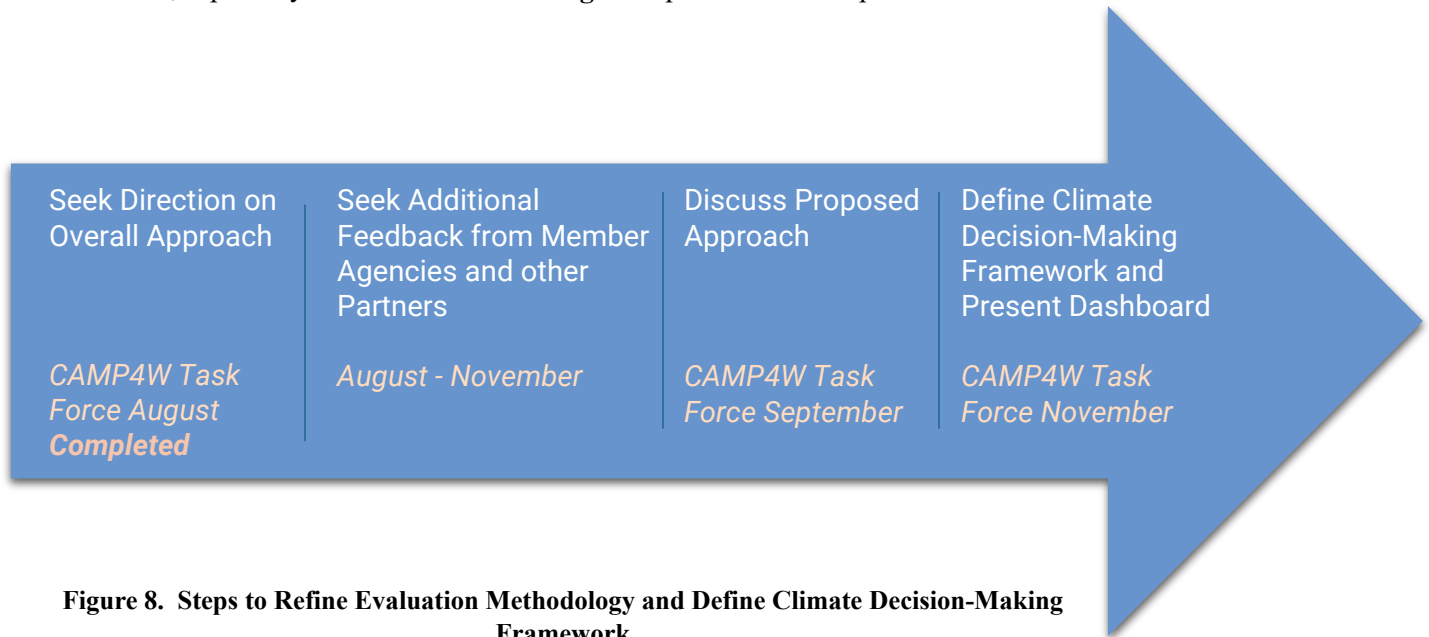


Figure 8. Steps to Refine Evaluation Methodology and Define Climate Decision-Making Framework

Metropolitan Water District of Southern California CAMP4W Comprehensive Assessment

Metropolitan is committed to meeting its mission in the face of a changing climate by developing projects and programs that advance Time-Bound Targets, consistent with the Board's priorities. This comprehensive assessment is a key part of the Climate Decision-Making Framework and will be used to support Board deliberations on which projects and programs Metropolitan should pursue.

Project/Program/Portfolio at a Glance

Title of Project/Program/Portfolio

Status (planning/design/implementation)

Capacity (if applicable)

Capital Cost (2024) Operation/Maintenance or Ongoing Cost (2024)

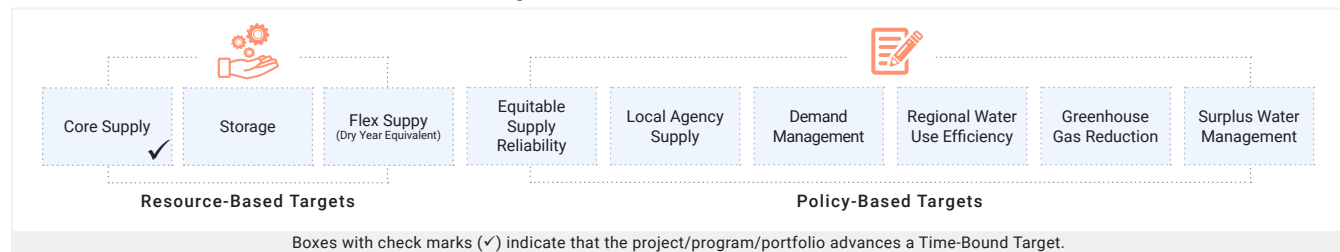
Description and how the project/program/portfolio supports water supplies, reliability and/or delivery

Portfolio view and additional potential companion projects/programs/portfolios

Summary of Assessment and Staff Recommendation

Each criteria and attribute presented on the following pages includes a description of the quantitative and qualitative measures relevant to the proposed project or programs, as well as, Metropolitan staff's recommendation.

What Time-Bound Targets Does the Project/Program/Portfolio Address?



Summary of Assessment and Staff Recommendation (see footnote on Page 2 for ranking guidelines)

Reliability	Resilience	Financial Sustainability and Affordability	Adaptability and Flexibility	Equity	Environmental Co-Benefits
Severely Compromised	Significant	Exceptional	Significant	Limited	Compromised

See the following pages for a detailed assessment across each Evaluative Criteria category.

Map or Location Information Related to the Project, Program or Portfolio

Project, Program or Portfolio Location Information


DRAFT

Footnote: Ranking Guidelines Overall

These **rankings** define which level a project, program or portfolio will deliver CAMP4W objectives overall.

Exceptional Performance and Value
Significant Performance and Value
Limited Performance and Value
Compromised Performance and Value
Severely Compromised Performance and Value
Not Yet Determined

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Reliability</div> <div>Supply Performance</div> <div>Equitable Reliability</div>	1. To what degree does it advance equitable supply reliability?		Exceptional
	2. To what extent does it help meet supply reliability objectives based upon Average and Dry Year conditions?		Significant
	3. How reliable is the source of the supply in projected climate conditions? • Provide data on the frequency with which the source is available under multiple conditions.		Limited
	4. Describe the potential portfolio benefits (e.g., how does it perform alone, with another project, or only with the other project)?		Compromised

Examples of sources of information and/or content to be provided in the assessment field:

- 1. IRPSIM
- 2. Historical drought sequence data
- 3. Qualitative description of reliability attributes and/or limitations

Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.

Key


Exceptional	Significant	Limited	Compromised	Severely Compromised	Undetermined or Not Applicable
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Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Limited	The project/program/portfolio only addresses limited elements of the benefits being assessed by the question/statement or addresses them indirectly.
Compromised	The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.
Severely Compromised	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time.

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div><p>Resilience Addresses known vulnerabilities</p><p>Project's or Program's ability to perform under climate impacts</p></div>	1. Indicate which and to what degree it addresses an identified climate vulnerability (e.g., extreme heat, wildfire, sea level rise, atmospheric rivers, runoff shifts).		Exceptional
	2. To what degree will it continue to operate and perform under various climate change conditions, including potential compounding impacts?		Significant
	3. What other hazards, including earthquakes, does it improve resilience to?		Limited
	4. What water quality considerations does it address and to what extent?		Compromised

- Examples of sources of information and/or content to be provided in the assessment field:
1. IRPSIM
 2. Consider link to existing planning processes including system reliability, vulnerability, and flexibility assessments
 3. Consider industry infrastructure standards for climate resilience and water quality
 4. Consider Federal and State drinking water standards and total dissolved solids reductions
 5. Qualitative description of resilience attributes and/or limitations

Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.

Key

Exceptional

Significant

Limited

Compromised

Severely Compromised

Undetermined or Not Applicable

Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional

The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.

Significant

The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.

Limited

The project/program/portfolio only addresses limited elements of the benefits being assessed by the question/statement or addresses them indirectly.

Compromised

The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.


Severely Compromised

The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.

Undetermined or Not Applicable

The ranking for this project/program/portfolio is not determined at this time.

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Financial Sustainability and Affordability</div> <div>Unit cost</div>	1. What is the average annual rate impact?		Exceptional
	2. Is the project eligible for federal and/or state grants or other funding sources or partners? If so, what are the estimated target amount(s)? Is there a local match requirement? If so, how much?		Significant
	3. If applicable, what is the unit cost/af (gross and net)? For storage projects, what is the cost/capacity and cost/net yield?		Limited
	4. Does considering life cycle cost change the overall financial impact?		Compromised
	5. Can the project be funded by tax-exempt bonds?		Severely Compromised

Examples of sources of information and/or content to be provided in the assessment field:

1. Project Costs (capital, O&M, life cycle, net present value)
2. LRFP Needs Assessment
3. Qualitative description of potential funding opportunities and/or project partners
4. Benefit-Cost Analysis

Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.

Key

Exceptional

Significant

Limited

Compromised

Severely Compromised

Undetermined or Not Applicable

Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional

The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.

Significant

The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.

Limited

The project/program/portfolio only addresses limited elements of the benefits being assessed by the question/statement or addresses them indirectly.

Compromised

The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.


Severely Compromised

The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.

Undetermined or Not Applicable

The ranking for this project/program/portfolio is not determined at this time.

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Adaptability and Flexibility Flexibility of existing assets Ease / Complexity Scalability</div>	1. Describe how the project/program works with and/or improves the flexibility of existing assets, plans, policies or programs and how it improves the ability to adjust to systemwide changes (water quality, source water, distribution interruption).		Exceptional
	2. Can the project be phased (e.g., is the project scalable and what is the initial vs. total investment?		Significant
	3. Explain how complex the day-to-day operations might be (example: staffing, maintenance, preparation)?		Limited
	4. What is the implementation risk and/or complexity of implementation?		Compromised

Examples of sources of information and/or content to be provided in the assessment field:

1. Quantitative and qualitative description of potential added system operational flexibility (redundancy, water quality, etc.) and implementation complexity and risks (ROW, timing, partners, etc.)
2. Quantitative and qualitative description of scalability (cost, benefits, impacts)
3. Qualitative description of impact on day-to-day operations
4. Ability to adapt to uncertainties and sustain a specified performance across changing conditions (e.g., demand, legislation, energy costs)

Key

Exceptional	Significant	Limited	Compromised	Severely Compromised	Undetermined or Not Applicable
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Additional Information


Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.

Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

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Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time.

Assessment

Evaluative Criteria	Attributes	Assessment	Value
 Equity Programs for underserved communities Scale of community engagement Public health benefits Workforce development	1. To what scale does it directly or indirectly benefit underserved communities while enhancing Metropolitan's services? • Ratio of DAC population in the project area.		Exceptional
	2. What strategies are used to engage the community, tribal groups, and other partners? What indicators are in place to measure the effectiveness of these engagement efforts?		Significant
	3. Describe the extent to which there is broad community support or potential for support or potential sources of opposition.		Limited
	4. What specific community benefits such as workforce opportunities, localized resilience, public health, and quality of life measures are incorporated?		Compromised

Examples of sources of information and/or content to be provided in the assessment field:

1. Percentage of project in CalEnviro Screen community
2. Qualitative description of level of community, tribal and partner engagement
3. Qualitative description of direct community benefits associated with project/program
4. Consider using tool to measure / monetize co-benefits, where appropriate

Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.

Key


Exceptional	Significant	Limited	Compromised	Severely Compromised	Undetermined or Not Applicable
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Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

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Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time.

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Environmental Co-Benefits</div> <div>Greenhouse gas emissions</div> <div>Benefits Ecosystem services</div> <div>Habitat/wildlife benefits</div>	1. What are the estimated greenhouse gas emissions or enhanced carbon sequestration, and is this consistent with Metropolitan's Climate Action Plan (CAP)?		Exceptional
	2. In what way and to what degree does it provide additional ecosystem services and promote ecological functions, such as water quality, soil health, biodiversity, urban heat island reduction including through adding public green space and/or reducing impervious surfaces, flooding reduction, watershed protection, restoration, carbon sequestration etc.?		Significant
	3. To what extent does it protect, improve, or expand wildlife and fish habitat and/or affect flows in ways that improve ecological functions for native species?		Limited

Examples of sources of information and/or content to be provided in the assessment field:

- 1. GHG and pollutant load estimates
- 2. Qualitative description of ecosystem services and ecological functions provided
- 3. Consider using tool to measure / monetize co-benefits, where appropriate
- 4. Acreage land impacted; Acre-feet of water provided

Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.

Key

Exceptional

Significant

Limited

Compromised

Severely Compromised

Undetermined or Not Applicable

Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

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Severely Compromised

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Undetermined or Not Applicable

The ranking for this project/program/portfolio is not determined at this time.

Metropolitan Water District of Southern California CAMP4W Comprehensive Assessment

Metropolitan is committed to meeting its mission in the face of a changing climate by developing projects and programs that advance Time-Bound Targets, consistent with the Board's priorities. This comprehensive assessment is a key part of the Climate Decision-Making Framework and will be used to support Board deliberations on which projects and programs Metropolitan should pursue.

Project/Program/Portfolio at a Glance

[Title of Project/Program/Portfolio](#)

SWPDA Equitable Supply Reliability Near-Term Portfolio

[Status \(planning/design/implementation\)](#)

Implementation

[Capacity \(if applicable\)](#)

109 TAFY of delivery (system flexibility portfolio)

[Capital Cost \(2024\)](#) [Operation/Maintenance or Ongoing Cost \(2024\)](#)

\$200 Million \$2 Million to \$4 Million per year estimate

[Description and how the project/program/portfolio supports water supplies, reliability and/or delivery](#)

The portfolio is comprised of two actions, including: delivery of DVL storage to Rialto Pipeline service area (87 TAFY) with four projects and Sepulveda Feeder Pumping Stage 1 project with two new pump stations delivering Common Pool area supply to western SWPDA agencies (44 TAFY).

[Portfolio view and additional potential companion projects/programs/portfolios](#)

Scenario C: Modeling shows pairing projects with additional supply can eliminate or nearly eliminate shortages for the region and SWPDA in years 2035 and 2045.
Scenario D: When paired with supply projects under scenario D, the projects show improved reliability in both 2035 and 2045 compared to modeling without new supplies.

Summary of Assessment and Staff Recommendation

Each criteria and attribute presented on the following pages includes a description of the quantitative and qualitative measures relevant to the proposed project or programs, as well as, Metropolitan staff's recommendation.

The portfolio allows the delivery of available CRA supply, DVL storage, and potential purified water to the SWPDA, which could achieve the near-term time-bound target of equitable supply reliability.

The portfolio receives a high mark on Reliability because it offers a timely solution to achieving the near-term Time-Bound Target (TBT) of equitable supply reliability for SWPDA. It is expected to have a higher cost/benefit ratio because it is only needed for drought relief. However, its unit cost is similar to that of OSCOP, also a limited use program, which suggests a cost-effective solution. Therefore, it receives a mixed score on Affordability. The portfolio enhances system flexibility and improves earthquake and drought resilience. Hence, a high mark on Flexibility. The directly benefited areas are in a region with a high percentage of disadvantaged communities and Metropolitan's Project Labor Agreement (PLA) will apply to all construction contracts to develop local workforce. Therefore, the portfolio receives a relatively high mark on Equity.

Note: DVL=Diamond Valley Lake; SWPDA=State Water Project Dependent Area; OSCOP = Operational Shift Cost Offset Program; CRA = Colorado River Aqueduct

What Time-Bound Targets Does the Project/Program/Portfolio Address?



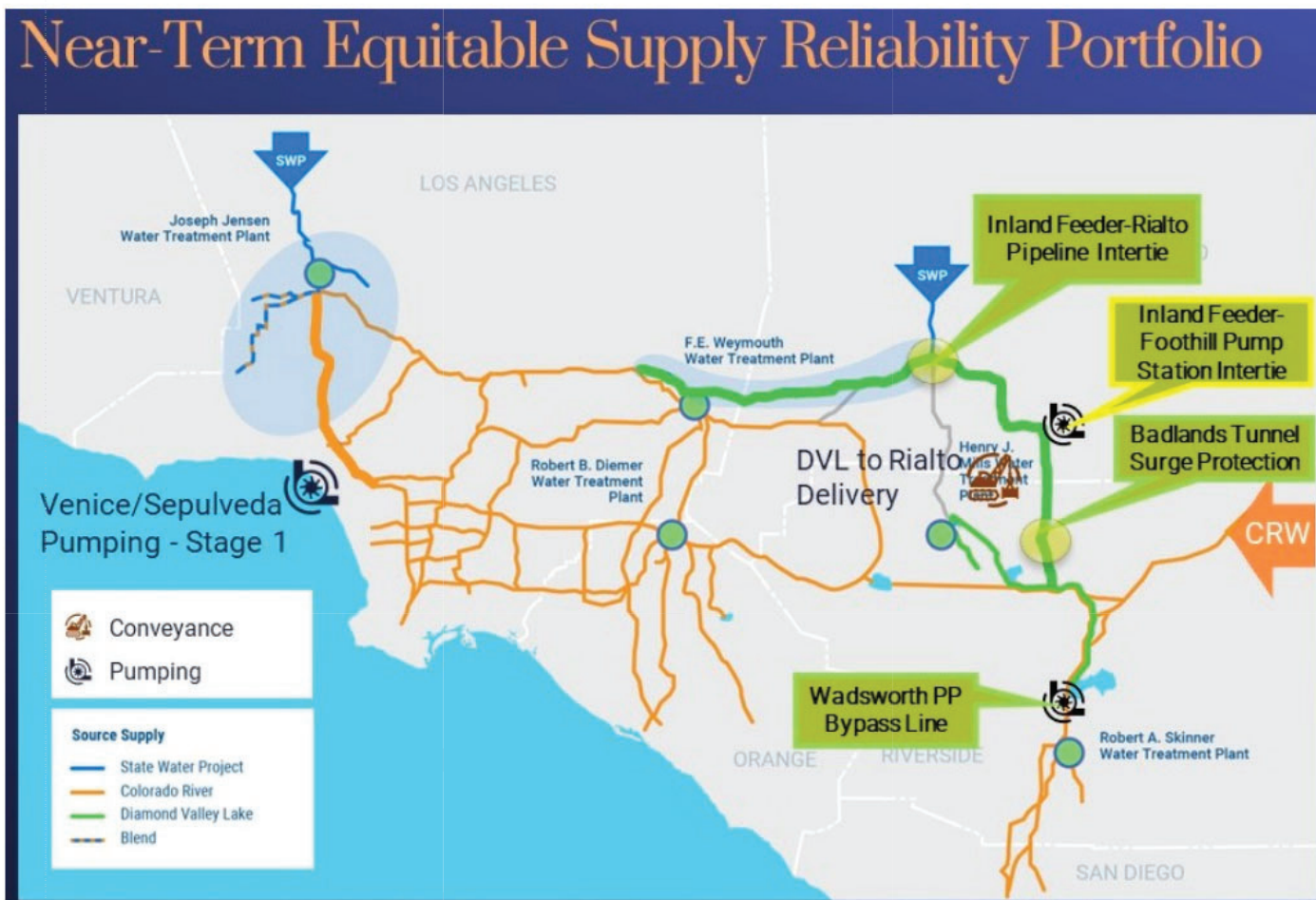
Summary of Assessment and Staff Recommendation (see footnote on Page 2 for ranking guidelines)

Reliability	Resilience	Financial Sustainability and Affordability	Adaptability and Flexibility	Equity	Environmental Co-Benefits
Significant	Significant	Significant	Exceptional	Significant	Limited

See the following pages for a detailed assessment across each Evaluative Criteria category.

Map or Location Information Related to the Project, Program or Portfolio

Project, Program or Portfolio Location Information




Footnote: Ranking Guidelines Overall

These **rankings** define which level a project, program or portfolio will deliver CAMP4W objectives overall.

Exceptional Performance and Value
Significant Performance and Value
Limited Performance and Value
Compromised Performance and Value
Severely Compromised Performance and Value
Not Yet Determined

Comprehensive Assessment by Evaluative Criteria

Assessment

Evaluative Criteria	Attributes	Assessment	Value
 Reliability Supply Performance Equitable Reliability	1. To what degree does it advance equitable supply reliability?	The portfolio can contribute significantly to achieving the near-term Time-Bound Targets (TBT) of equitable reliability. Modeling of the projects under Scenario D of the IRP shows that in 2030, the SWPDA would see a 39% reduction in the magnitude of shortage compared to a baseline of no projects. By 2045, the shortage reduction lowers to 17% due to deteriorating supply to meet demands for the entire region. Under Scenario C, modeling indicates that Metropolitan would be able to meet the needs of the entire region under most hydrologies without the development of the portfolio projects, suggesting that if this scenario were to occur, the portfolio would provide less value. However, with shortages experienced in recent droughts, it is reasonable to anticipate that the projects would provide future benefits and mitigate shortages compared to existing conditions (e.g. baseline conditions with no projects). When considering the impacts of the severe drought experienced between 2020 and 2022, the portfolio along with other operational adjustments implemented or identified since the drought would have avoided mandatory conservation across the SWPDA.	Significant
	2. To what extent does it help meet supply reliability objectives based upon Average and Dry Year conditions?	The portfolio does not add new supply. The projects included in the portfolio, however, improve access to available supplies from the Colorado River or Diamond Valley Lake to the SWPDA during low-supply SWP years. As a result, they will help meet reliability goals for the SWPDA areas under certain dry conditions.	Limited
	3. How reliable is the source of the supply in projected climate conditions? • Provide data on the frequency with which the source is available under multiple conditions.	The supply sources of the portfolio are from CRA, DVL, and potential purified water. The CRA supply and the ability to fill DVL are susceptible to future climate conditions. The portfolio has diversified supply sources which improves delivery reliability.	Limited
	4. Describe the potential portfolio benefits (e.g., how does it perform alone, with another project, or only with the other project)?	Scenario C: Modeling shows that pairing the projects with additional supply can eliminate or nearly eliminate shortages for the region and SWPDA in years 2035 and 2045. Scenario D: When paired with supply projects under scenario D, the projects show improved reliability in both 2035 and 2045 compared to modeling without new supplies.	Exceptional
Overall Assessment	Overall Assessment Summary		Value
	The portfolio provides important reliability benefits to the SWPDA area, which experienced shortages during the most recent drought. This advances the Time-Bound Target of Equitable Supply Reliability. Pairing the portfolio with an additional supply would further enhance the benefits of the project. Therefore, given these critical factors are address by the portfolio, the overall staff assigned value is "Significant" for Reliability.		Significant

Examples of sources of information and/or content to be provided in the assessment field:

1. IRPSIM
2. Historical drought sequence data
3. Qualitative description of reliability attributes and/or limitations

Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	When considering the impacts of the severe drought experienced between 2020 and 2022, the portfolio would have been effective in mitigating the SWPDA supply shortages. Under Scenario D, the portfolio would reduce shortages in the near-term and long-term, as stated above. Under Scenario C, modeling indicates that Metropolitan would be able to meet the needs of the entire region under most hydrologies without the development of the portfolio projects, indicating that were Scenario C to occur, the benefits derived by implementing the projects included in the portfolio would be less than were Scenario D to occur. However, given the shortages experience during the most recent drought, the need for the projects is evident in order to maintain equitable supply reliability since those more extreme conditions have already occurred.
	In terms of alignment with Metropolitan's policies, the portfolio contributes to the Board's Drought Mitigation directive (August 2022 Board Resolution) to address the SWPDA shortages. Collaboration between Metropolitan and the impacted Member Agencies through a series of workshops in 2022 and 2023 resulted in the proposed portfolio.

Key

Exceptional	Significant	Limited	Compromised	Severely Compromised	Undetermined or Not Applicable
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Ranking Guidelines at the Attribute Level


Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
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Severely Compromised	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time.



Comprehensive Assessment by Evaluative Criteria

Assessment

Evaluative Criteria	Attributes	Assessment	Value
 Resilience Addresses known vulnerabilities Project's or Program's ability to perform under climate impacts	1. Indicate which and to what degree it addresses an identified climate vulnerability (e.g., extreme heat, wildfire, sea level rise, atmospheric rivers, runoff shifts).	These projects increase the flexibility of the system and diversify the points of connection to our SWPDA, offering redundant supply to the SWPDA. If wildfires, floods, or other climate impacts cut off SWP supply, these projects provide an alternate delivery source to most of the SWPDA.	Significant
	2. To what degree will it continue to operate and perform under various climate change conditions, including potential compounding impacts?	These projects should operate well under most climate events, although the power that runs these projects is vulnerable to fires and heat/power emergencies. The system can be operated such that the projects in the portfolio will allow Metropolitan to access and deliver to the SWPDA supplies from the Colorado River, as well as stored supplies in DVL, and Lake Mathews. Access to multiple supply sources enhances the portfolio's resilience against changing conditions that impact the various supply sources.	Significant
	3. What other hazards, including earthquakes, does it improve resilience to?	The project improves the seismic resilience of the eastern and western SWPDAs by providing alternative supplies to the region in the event Metropolitan experiences a loss in supply from the State Water Project due to natural or man-made hazards. An example would be a major event at the San Andreas Fault, which could cause significant damage to both the East and West Branches.	Exceptional
	4. What water quality considerations does it address and to what extent?	Water from DVL delivered to the Rialto area will likely be at a lower total dissolved solid level than water delivered through Silverwood Lake during a drought year. This provides significant benefit to the agencies in this area.	Significant
Overall Assessment	Overall Assessment Summary		Value
	The portfolio is expected to provide Resilience benefits by diversifying the connection points to the SWPDA, offering a redundant supply. It is expected to operate well under most climate events. The flexibility provides a water source option with a lower total dissolved solids level, which provides water quality benefits. Therefore, the overall staff assigned value is "Significant" for Resilience.		Significant

Examples of sources of information and/or content to be provided in the assessment field:

1. IRPSIM
2. Consider link to existing planning processes including system reliability, vulnerability, and flexibility assessments
3. Consider industry infrastructure standards for climate resilience and water quality
4. Consider Federal and State drinking water standards and total dissolved solids reductions
5. Qualitative description of resilience attributes and/or limitations

Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	This portfolio primarily addresses the Reliability goals, so the Time-Bound Targets associated with the project are discussed under Reliability. Metropolitan's Seismic Resilience Report identified that a major event at the San Andreas Fault could potentially cut off both SWP and CRA supplies. If such a scenario occurs, DVL storage could supply the region for up to six months. The portfolio of projects would allow DVL storage to be delivered to the SWPDA, drastically enhancing the region's seismic resilience. Therefore, these projects provide exceptional resilience for earthquakes and many climate events by providing an alternate source of supply to the SWPDA. The projects themselves should be reliable under most climate events, although they have some vulnerability do to their reliance on power to run pumps.
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Key

Exceptional	Significant	Limited	Compromised	Severely Compromised	Undetermined or Not Applicable
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Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

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Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time.

Comprehensive Assessment by Evaluative Criteria

Assessment

Evaluative Criteria	Attributes	Assessment	Value
 Financial Sustainability and Affordability Unit cost	1. What is the average annual rate impact?	Not included here	Undetermined or N/A
	2. Is the project eligible for federal and/or state grants or other funding sources or partners? If so, what are the estimated target amount(s)? Is there a local match requirement? If so, how much?	Yes. The portfolio received \$55M Federal and state grants without a local matching requirement.	Significant
	3. If applicable, what is the unit cost/af (gross and net)? For storage projects, what is the cost/capacity and cost/net yield?	The unit cost of the portfolio is similar to that of OSCOP. It is a relatively inexpensive alternative to achieve the equitable supply reliability TBT. However, were an overall cost/benefit ratio to be determined, it may be high due to its infrequent usage.	Significant
	4. Does considering life cycle cost change the overall financial impact?	The pumping operation increases the O&M cost of the portfolio during its life cycle. Since it would only operate during severe droughts, the increase of operating cost is relatively small compared to the overall investment. Additional staff will be needed to maintain and operate these new facilities as well as additional funding for ongoing maintenance to ensure the equipment is ready to operate. A rough order of magnitude estimate is \$2-4 Million per year on average for all O&M costs.	Limited
	5. Can the project be funded by tax-exempt bonds?	TBD	Undetermined or N/A
Overall Assessment	Overall Assessment Summary		Value
	The portfolio received a partial funding match. It may have a lower cost/benefit ratio due to it's infrequent usage and does involve pumping, which increases the O&M costs. Therefore, the overall staff assigned value is "Limited" for Financial Sustainability and Affordability.		Significant

Examples of sources of information and/or content to be provided in the assessment field:

1. Project Costs (capital, O&M, life cycle, net present value)
2. LRFP Needs Assessment
3. Qualitative description of potential funding opportunities and/or project partners
4. Benefit-Cost Analysis

Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.

The projects in the portfolio are aligned with the state's strategy to provide timely drought relief to urban communities through interconnectivity between systems and improved flexibility in operations. Therefore, the projects qualified to receive \$50M in financial support from the state to support construction of the projects. A combination of the state financial support and the Federal grant contributes to more than 25% of the construction costs and significantly reduces the financial burden on Metropolitan.

Key

Exceptional	Significant	Limited	Compromised	Severely Compromised	Undetermined or Not Applicable
-------------	-------------	---------	-------------	----------------------	--------------------------------


Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

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Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time.

Comprehensive Assessment by Evaluative Criteria

Assessment

Evaluative Criteria	Attributes	Assessment	Value
 Adaptability and Flexibility Flexibility of existing assets Ease / Complexity Scalability	1. Describe how the project/program works with and/or improves the flexibility of existing assets, plans, policies or programs and how it improves the ability to adjust to systemwide changes (water quality, source water, distribution interruption).	The portfolio allows for water to be pumped northward through the Sepulveda and Inland Feeders, thereby enabling greater deliveries of CRA and DVL water supplies to State Water Project-dependent agencies in Metropolitan's eastern and western service areas. The project will lessen the impacts of future low State Water Project allocations.	Exceptional
	2. Can the project be phased (e.g., is the project scalable and what is the initial vs. total investment)?	The Sepulveda Feeder Pumping Stage 1 (30 cfs) allows for future expansion up to 160 cfs capacity. For DVL/Rialto delivery, the installation of Wadsworth bypass only, allows exchange with SBVMWD to start a partial delivery to the Rialto area. Metropolitan could receive SBVMWD's SWP Table A supply in exchange for DVL storage to be delivered to SBVMWD's Citrus Reservoir. The estimated initial delivery is 10 TAFY out of a total of 87 TAFY for the full project build out. The initial investment/total project cost = 25%. Additionally the DVL to Rialto project can be improved by adding a new pump station at PC-1 on the Inland Feeder.	Exceptional
	3. Explain how complex the day-to-day operations might be (example: staffing, maintenance, preparation)?	The project is complex as it involves operating new pumps in series. Staff will need to restart the pumps after pump trips and perform periodic maintenance to ensure the pumps are available, when needed. Operational adjustments may be needed to manage potential surges caused by pump trips.	Compromised
	4. What is the implementation risk and/or complexity of implementation?	Projects in the portfolio are located on Metropolitan's existing ROW or partner agency's developed lands, which significantly lowers the implementation risk. The endangered species, Kangaroo Rat, was found near the Foothill pump station, causing implementation complexity and delays for this portion of the project. However, measures have been developed to mitigate the impact. The project schedule has built in the environmental permitting process to secure agency approvals. The risk of project delay is relatively low since the impacted areas have been defined, and the mitigation measures have been developed in consultation with jurisdictional agencies.	Significant
Overall Assessment	Overall Assessment Summary		Value
	The portfolio allows for increased flexibility by enabling greater deliveries of CRA and DVL water supply to the SWPDA. It can be phased, and has limited implementation risk. Therefore, the overall staff assigned value is "Exceptional" for Adaptability and Flexibility.		Exceptional

- Examples of sources of information and/or content to be provided in the assessment field:
1. Quantitative and qualitative description of potential added system operational flexibility (redundancy, water quality, etc.) and implementation complexity and risks (ROW, timing, partners, etc.)
 2. Quantitative and qualitative description of scalability (cost, benefits, impacts)
 3. Qualitative description of impact on day-to-day operations
 4. Ability to adapt to uncertainties and sustain a specified performance across changing conditions (e.g., demand, legislation, energy costs)

Key

Exceptional	Significant	Limited	Compromised	Severely Compromised	Undetermined or Not Applicable
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Additional Information


Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	<p>This project utilizes San Bernardino Valley Municipal Water District's (SBVMWD), another State Water Contractor, and the California Department of Water Resources' existing facilities which minimizes the time and investment required to bring the DVL to Rialto delivery into service.</p> <p>The service areas for these projects are typically served by the terminal reservoirs, Castaic and Silverwood Lakes. If there is a water quality event at either reservoir, these projects can supplement the service area demands until the water quality event subsides.</p>
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Ranking Guidelines at the Attribute Level

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Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
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Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time.

Comprehensive Assessment by Evaluative Criteria

Assessment

Evaluative Criteria	Attributes	Assessment	Value
 Equity Programs for underserved communities Scale of community engagement Public health benefits Workforce development	1. To what scale does it directly or indirectly benefit underserved communities while enhancing Metropolitan's services? • Ratio of DAC population in the project area.	This portfolio of projects provides enhanced supply reliability benefits to all Member Agencies while providing enhanced reliability to the more than 6 million residents of Southern California who were asked to conserve water through mandatory emergency drought restrictions in 2022 and 2023. Approximately 43% of residents within the SWPDA are part of DACs.	Significant
	2. What strategies are used to engage the community, tribal groups, and other partners? What indicators are in place to measure the effectiveness of these engagement efforts?	Public meetings held at Metropolitan, its member agencies, and their respective retail agencies resulted in substantial public engagement, with upwards of 1,000 people in attendance at a single meeting regarding mandatory water conservation. Additionally, Metropolitan launched a >\$10 million dollar campaign through bewaterwise for water conservation opportunities.	Significant
	3. Describe the extent to which there is broad community support or potential for support or potential sources of opposition.	There is significant support for the portfolio of projects following the conditions the SWP dependent area experienced during the latest drought. Mandatory emergency drought restrictions went into effect for more than 6 million Southern California residents in Los Angeles, Ventura, and San Bernardino counties from June 1, 2022 until March 15, 2023. The DVL to Rialto Delivery and Sepulveda Pumping Stage 1 portfolio of projects have broad community support from affected communities.	Significant
	4. What specific community benefits such as workforce opportunities, localized resilience, public health, and quality of life measures are incorporated?	Both of the projects within this portfolio are part of a project labor agreement (PLA). This portfolio provides localized resilience and public health benefits to the communities impacted by the mandatory emergency drought restrictions through the diversification of imported water supply sources from the SWP alone to a combination of SWP/CRA supply sources.	Limited
Overall Assessment	Overall Assessment Summary		Value
	The portfolio benefits disadvantaged communities, included substantial public involvement and engagement, and has garnered significant support across the area. Therefore, the overall staff assigned value is "Significant" for Equity.		Significant

Examples of sources of information and/or content to be provided in the assessment field:

1. Percentage of project in CalEnviro Screen community
2. Qualitative description of level of community, tribal and partner engagement
3. Qualitative description of direct community benefits associated with project/program
4. Consider using tool to measure / monetize co-benefits, where appropriate

Key

Exceptional	Significant	Limited	Compromised	Severely Compromised	Undetermined or Not Applicable
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Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	The DVL to Rialto Delivery and Sepulveda Pumping Stage 1 portfolio of projects builds on Metropolitan's partnerships with the State Water Project Dependent Area member agencies. Between April 2022 and December 2023, Metropolitan held a series of workshops with the SWPDA member agencies to work toward a set of solutions for the agencies representing more than 6 million customers asked to reduce water consumption through mandatory emergency drought restrictions. The DVL to Rialto Delivery and Sepulveda Pumping Stage 1 portfolio of projects was a highly recommended solution from Metropolitan's 11 workshops with member agency managers. The portfolio of projects helps to provide an additional water supply to the SWP East and West Branch member agencies. The portfolio of projects builds on Metropolitan's existing community-based outreach through the Bewaterwise Initiative. With 43% of the population within the impacted SWPDA area being part of a DAC, the portfolio provides direct benefits to these communities.
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Ranking Guidelines at the Attribute Level


Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Limited	The project/program/portfolio only addresses limited elements of the benefits being assessed by the question/statement or addresses them indirectly.
Compromised	The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.
Severely Compromised	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time.



Comprehensive Assessment by Evaluative Criteria

Assessment

Evaluative Criteria	Attributes	Assessment	Value
 Environmental Co-Benefits Greenhouse gas emissions Benefits Ecosystem services Habitat/wildlife benefits	1. What are the estimated greenhouse gas emissions or enhanced carbon sequestration, and is this consistent with Metropolitan's Climate Action Plan (CAP)?	The portfolio of projects optimizes energy usage through the addition of variable frequency drives (VFDs). With California's significant adoption of time-based renewable energy technologies, mainly solar energy generation, California's grid often has a surplus of energy midday and a strained power supply system in the evenings, resulting in time-of-use energy rates meant to drive energy usage to the middle of the day. VFDs can reduce energy usage by more than 25% and can provide significant cost savings through enhanced time-of-use operational flexibility. However, specific energy use and GHG estimates are still being developed.	Undetermined or N/A
	2. In what way and to what degree does it provide additional ecosystem services and promote ecological functions, such as water quality, soil health, biodiversity, urban heat island reduction including through adding public green space and/or reducing impervious surfaces, flooding reduction, watershed protection, restoration, carbon sequestration etc.?	The DVL Delivery and Sepulveda Pumping Stage 1 portfolio of projects has the potential to promote ecological functions such as water quality, biodiversity, flooding reduction, and watershed protection through the enhanced ability to better balance SWP and CRA imported supplies to Metropolitan's service area through greater operational flexibility. The flexibility to rely on one imported supply source over another can help Metropolitan to partner with Federal, State, and local communities to increase or decrease deliveries from a particular imported supply source based on weather, climate, and environmental factors. Because a gray infrastructure approach fits this specific need the best; however, the project itself does not include direct environmental co-benefits.	Limited
	3. To what extent does it protect, improve, or expand wildlife and fish habitat and/or affect flows in ways that improve ecological functions for native species?	The portfolio of projects can affect flows from the Delta and Lake Mead in ways that improve ecological functions for native species through enhanced operational flexibility that could allow Metropolitan to partner with Federal, State, and local communities to increase or decrease flows from a particular source based on environmental benefits.	Limited
Overall Assessment	Overall Assessment Summary		Value
	The greenhouse gas emissions are not yet determined for the portfolio. The portfolio does not include direct environmental co-benefits, though it may have indirect benefits. Therefore, the overall staff assigned value is "Limited" for Environmental Co-Benefits.		Limited

Examples of sources of information and/or content to be provided in the assessment field:

1. GHG and pollutant load estimates
2. Qualitative description of ecosystem services and ecological functions provided
3. Consider using tool to measure / monetize co-benefits, where appropriate
4. Acreage land impacted; Acre-feet of water provided

Key

Exceptional	Significant	Limited	Compromised	Severely Compromised	Undetermined or Not Applicable
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Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	The portfolio has the potential to enhance the existing partnerships between Metropolitan and the State of California's Department of Water Resources in the delivery of State Water Project supplies to preserve the Bay-Delta ecosystem. With an augmented ability to deliver either State Water Project or Colorado River supplies to an expanded portion of Metropolitan's service area, Metropolitan can better plan and collaborate with its State partner to deliver water to the Metropolitan service area while factoring in environmental requirements in the Bay-Delta area. The portfolio of projects can also deliver potential local supplies (such as purified water) to further offset the SWP supply when needed.
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Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Limited	The project/program/portfolio only addresses limited elements of the benefits being assessed by the question/statement or addresses them indirectly.
Compromised	The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.
Severely Compromised	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time.

Comprehensive Assessment by Evaluative Criteria

Alternative Format
Example without Attribute
Level Color Ranking



Reliability

Supply Performance

Equitable Reliability

Evaluative Criteria	Attributes	Assessment
	1. To what degree does it advance equitable supply reliability?	The portfolio can contribute significantly to achieving the near-term Time-Bound Targets (TBT) of equitable reliability. Modeling of the projects under Scenario D of the IRP shows that in 2030, the SWPDA would see a 39% reduction in the magnitude of shortage compared to a baseline of no projects. By 2045, the shortage reduction lowers to 17% due to deteriorating supply to meet demands for the entire region. Under Scenario C, modeling indicates that Metropolitan would be able to meet the needs of the entire region under most hydrologies without the development of the portfolio projects, suggesting that if this scenario were to occur, the portfolio would provide less value. However, with shortages experienced in recent droughts, it is reasonable to anticipate that the projects would provide future benefits and mitigate shortages compared to existing conditions (e.g. baseline conditions with no projects). When considering the impacts of the severe drought experienced between 2020 and 2022, the portfolio along with other operational adjustments implemented or identified since the drought would have avoided mandatory conservation across the SWPDA.
	2. To what extent does it help meet supply reliability objectives based upon Average and Dry Year conditions?	The portfolio does not add new supply. The projects included in the portfolio, however, improve access to available supplies from the Colorado River or Diamond Valley Lake to the SWPDA during low-supply SWP years. As a result, they will help meet reliability goals for the SWPDA areas under certain dry conditions.
	3. How reliable is the source of the supply in projected climate conditions? • Provide data on the frequency with which the source is available under multiple conditions.	The supply sources of the portfolio are from CRA, DVL, and potential purified water. The CRA supply and the ability to fill DVL are susceptible to future climate conditions. The portfolio has diversified supply sources which improves delivery reliability.
	4. Describe the potential portfolio benefits (e.g., how does it perform alone, with another project, or only with the other project)?	Scenario C: Modeling shows that pairing the projects with additional supply can eliminate or nearly eliminate shortages for the region and SWPDA in years 2035 and 2045. Scenario D: When paired with supply projects under scenario D, the projects show improved reliability in both 2035 and 2045 compared to modeling without new supplies.

Examples of sources of information and/or content to be provided in the assessment field:

1. IRPSIM
2. Historical drought sequence data
3. Qualitative description of reliability attributes and/or limitations

Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.

When considering the impacts of the severe drought experienced between 2020 and 2022, the portfolio would have been effective in mitigating the SWPDA supply shortages. Under Scenario D, the portfolio would reduce shortages in the near-term and long-term, as stated above. Under Scenario C, modeling indicates that Metropolitan would be able to meet the needs of the entire region under most hydrologies without the development of the portfolio projects, indicating that were Scenario C to occur, the benefits derived by implementing the projects included in the portfolio would be less than were Scenario D to occur. However, given the shortages experience during the most recent drought, the need for the projects is evident in order to maintain equitable supply reliability since those more extreme conditions have already occurred.

In terms of alignment with Metropolitan's policies, the portfolio contributes to the Board's Drought Mitigation directive (August 2022 Board Resolution) to address the SWPDA shortages. Collaboration between Metropolitan and the impacted Member Agencies through a series of workshops in 2022 and 2023 resulted in the proposed portfolio.

Overall Reliability Assessment

The portfolio provides important reliability benefits to the SWPDA area, which experienced shortages during the most recent drought. This advances the Time-Bound Target of Equitable Supply Reliability. Pairing the portfolio with an additional supply would further enhance the benefits of the project. Therefore, given these critical factors are address by the portfolio, the overall staff assigned value is "Significant" for Reliability.

Overall Ranking

Significant





Subcommittee on Long-Term Regional Planning
Processes and Business Modeling

Evaluative Criteria and Climate Decision-Making Framework

Item 3b

September 25, 2024

Today's Discussion

- ✓ Review Feedback To Date
- ✓ Applicable Projects and Programs
- ✓ Draft CAMP4W Assessment Form
 - ✓ Summary Page
 - ✓ Color Ranking
 - ✓ Six Evaluative Criteria Attributes
- ✓ Example Project Assessment
- ✓ Next Steps



CAMP4W Evaluative Criteria Feedback

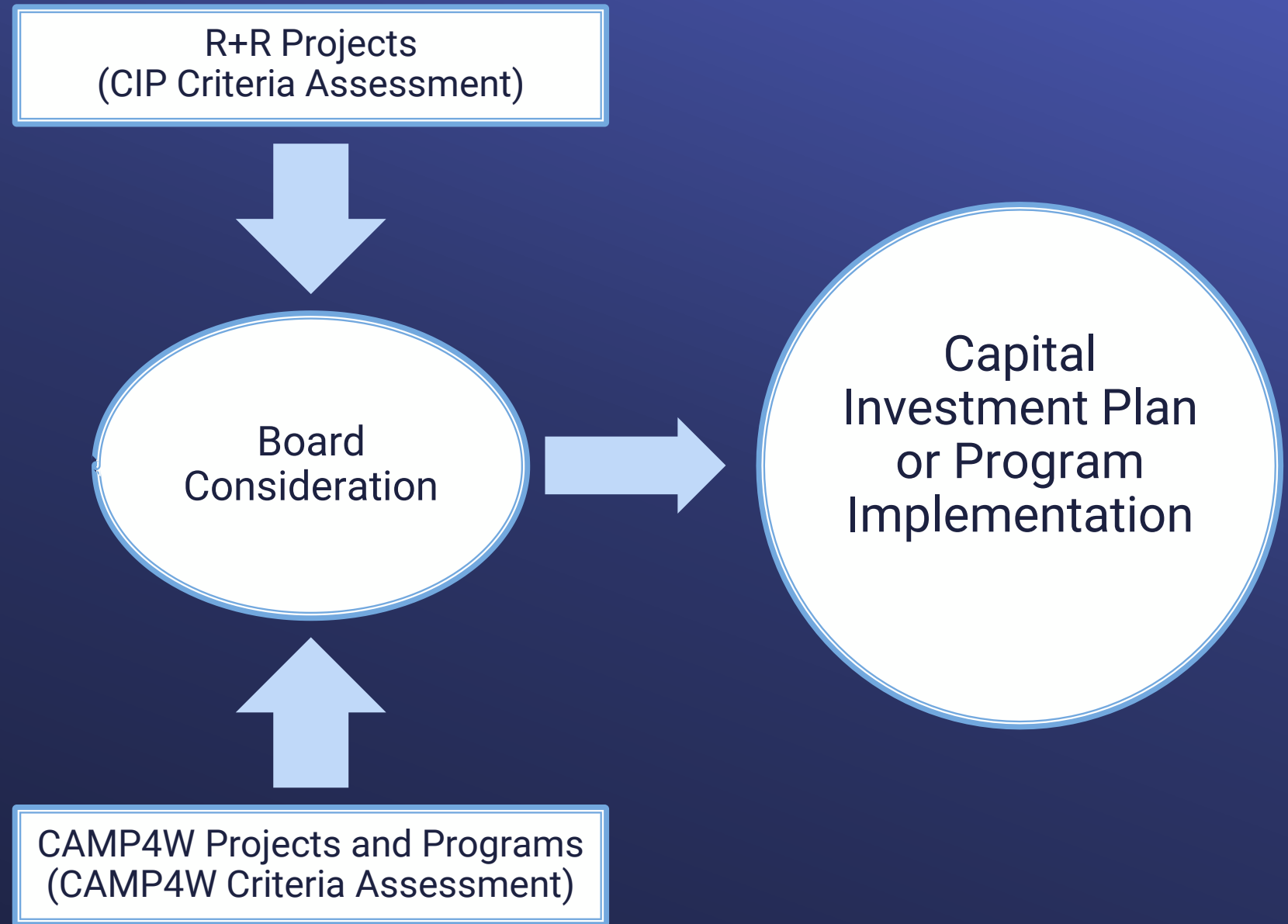
- General support for including both quantitative and qualitative information that lead to staff recommendations
- Some support for scoring each criteria category numerically or with color ranking
- Suggestion to include some minimum threshold(s)
- Project review should not be limited to yes/no Qs
- Desire to emphasize reliability and cost factors and reflect the magnitude of projects
- Discussion around whether criteria will apply to projects, programs and portfolios as well as the opportunity to include companion projects
- Ensure assessment can reflect programs and projects that optimize existing infrastructure and resources

CAMP4W Comprehensive Assessment

Proposed Rubric Includes Quantitative and Qualitative Measures

Evaluative Criteria	<p>Each project or program would be considered through a robust narrative description of how project attributes achieve each objective</p> <p>Descriptions could include:</p> <ul style="list-style-type: none">✓ Quantitative metrics✓ Qualitative information✓ Gaps in information available
Reliability	
Resilience	
Adaptability & Flexibility	
Affordability	
Environmental Co-Benefits	
Equity	

Which Investments will be Evaluated in the CAMP4W Process?



Which Investments will be Evaluated in the CAMP4W Process?

Potential questions where a “yes” answer would mean a project or program will be considered through CAMP4W:

- Is the project or program providing a new core supply, flex supply, or storage, or is the project or program enabling a new core supply, flex supply, or storage?
- Is the project or program addressing a known vulnerability to an asset(s) and does it involve improvements beyond what would be required to perform traditional R&R for that asset?
- Does the project or program exceed a certain flow-based threshold (CFS or AFY) or cost threshold (capital or O&M cost)?



Potential Projects and Programs for Future CAMP4W Assessment (not exclusive)

Core Supply

- Pure Water Phase I & II
- Delta Conveyance Project
- Groundwater Desalination
- Ocean Desalination
- Conservation / Efficiency Programs

Surface Water Storage

- Sites Reservoir
- San Joaquin Phase I & II
- Castaic Lake
- In-region Storage

Groundwater Storage

- AVEK Phase II
- Central Valley Storage
- Hayfield
- Surplus Water Management

Flexibility and Resilience

- Sepulveda Pumping Phase II
- East-West Conveyance
- AVEK to West Side

Energy Sustainability

- CRA Pump Storage
- DVL Pump Storage
- In & Out of Region Solar

CAMP4W Assessment *DRAFT*

Reliability

Blending quantitative
and qualitative
information to produce
a comprehensive
assessment

Reliability Attributes

To what degree does it advance equitable supply reliability?

To what extent does it help meet supply reliability objectives based upon Average and Dry Year conditions?

How reliable is the source of the supply in projected climate conditions?

Describe the potential portfolio benefits (e.g., how does it perform alone, with another project/program, or only with the other project/program)?

Source/Type Data

- 1) IRPSIM
- 2) Historical drought sequence data
- 3) Qualitative description of reliability attributes and/or limitations

**Revised Attribute Questions are now Integrated
into CAMP4W Assessment Form**

Metropolitan Water District of Southern California CAMP4W Comprehensive Assessment

Metropolitan is committed to meeting its mission in the face of a changing climate by developing projects and programs that advance Time-Bound Targets, consistent with the Board's priorities. This comprehensive assessment is a key part of the Climate Decision-Making Framework and will be used to support Board deliberations on which projects and programs Metropolitan should pursue.

Project/Program/Portfolio at a Glance

Title of Project/Program/Portfolio

Status (planning/design/implementation)

Capacity (if applicable)

Capital Cost (2024) Operation/Maintenance or Ongoing Cost (2024)

Description and how the project/program/portfolio supports water supplies, reliability and/or delivery

Portfolio view and additional potential companion projects/
programs/portfolios

Summary of Assessment and Staff Recommendation

Each criteria and attribute presented on the following pages includes a description of the quantitative and qualitative measures relevant to the proposed project or programs, as well as, Metropolitan staff's recommendation.

Metropolitan Water District of Southern California CAMP4W Comprehensive Assessment

Metropolitan is committed to meeting its mission in the face of a changing climate by developing projects and programs that advance Time-Bound Targets, consistent with the Board's priorities. This comprehensive assessment is a key part of the Climate Decision-Making Framework and will be used to support Board deliberations on which projects and programs Metropolitan should pursue.

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Capacity (if applicable)

Capital Cost (2024)

Operation/Maintenance or Ongoing Cost (2024)

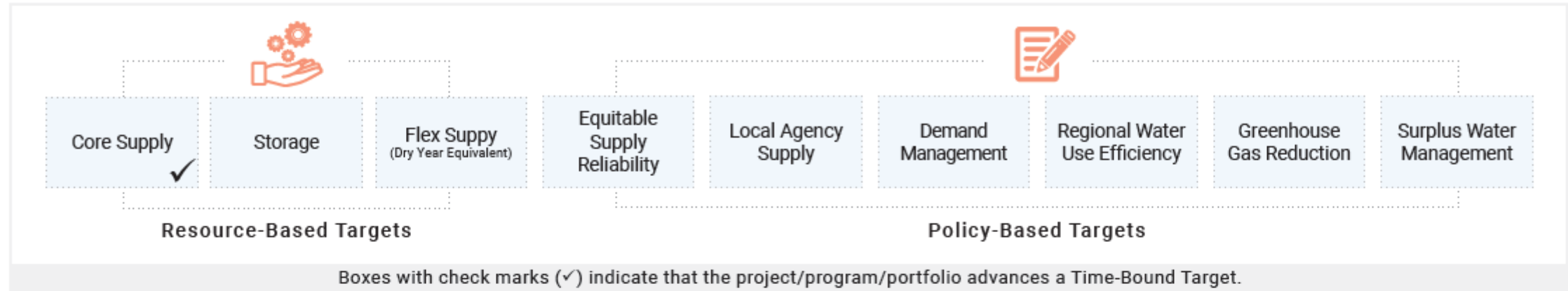
Description and how the project/program/portfolio supports water supplies, reliability and/or delivery

Portfolio view and additional potential companion projects/
programs/portfolios

Summary of Assessment and Staff Recommendation

Each criteria and attribute presented on the following pages includes a description of the quantitative and qualitative measures relevant to the proposed project or programs, as well as, Metropolitan staff's recommendation.

What Time-Bound Targets Does the Project/Program/Portfolio Address?



Summary of Assessment and Staff Recommendation *(see footnote on Page 2 for ranking guidelines)*

Reliability	Resilience	Financial Sustainability and Affordability	Adaptability and Flexibility	Equity	Environmental Co-Benefits
Severely Compromised	Significant	Exceptional	Significant	Limited	Compromised

See the following pages for a detailed assessment across each Evaluative Criteria category.




Footnote: Ranking Guidelines Overall

These **rankings** define which level a project, program or portfolio will deliver CAMP4W objectives overall.

	Exceptional Performance and Value
	Significant Performance and Value
	Limited Performance and Value
	Compromised Performance and Value
	Severely Compromised Performance and Value
	Not Yet Determined



Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Reliability</div> <div>Supply Performance</div> <div>Equitable Reliability</div>	1. To what degree does it advance equitable supply reliability?		Exceptional
	2. To what extent does it help meet supply reliability objectives based upon Average and Dry Year conditions?		Significant
	3. How reliable is the source of the supply in projected climate conditions? • Provide data on the frequency with which the source is available under multiple conditions.		Limited
	4. Describe the potential portfolio benefits (e.g., how does it perform alone, with another project, or only with the other project)?		Compromised

Examples of sources of information and/or content to be provided in the assessment field:

- 1. IRPSIM
- 2. Historical drought sequence data
- 3. Qualitative description of reliability attributes and/or limitations

Additional Information

Please describe how the proposed project or program advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.

Key

Exceptional

Significant

Limited

Compromised

Severely Compromised

Undetermined or Not Applicable

Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional

The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement

Significant

The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.

Limited

The project/program/portfolio only addresses limited elements of the benefits being assessed by the question/statement or addresses them indirectly.

Compromised

The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.

Severely Compromised

The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.

Undetermined or Not Applicable

The ranking for this project/program/portfolio is not determined at this time.

Key

Exceptional	Significant	Limited	Compromised	Severely Compromised	Undetermined or Not Applicable
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Example Portfolio CAMP4W Assessment

SWPDA Equitable Supply Reliability Near-Term Portfolio



Steps for Evaluative Criteria Development and Climate Decision-Making Framework



