On October 27, 2020, the San Diego County Water Authority held a Regional Conveyance System Study Virtual Public Economic Session from 10:00 am to noon. This virtual meeting included Water Authority economic consultants Rodney T. Smith, Ph.D., president of *Stratecon Inc.* and Robert Campbell, principal of *Water Resource Consultants Inc.*, discussing Economic Analysis and Risk Assessment of the Regional Conveyance System within the context of the Water Authority conducting further study of the alternatives for conveying the Water Authority's independent Colorado River water supplies. Kevin Davis, vice president, Black and Veatch Corporation, was also available to address questions about the Water Authority's Phase A study cost estimates. The session was moderated by Cindy Gompper-Graves, retired president and chief executive officer of the South County Economic Development Council.

Over 120 people participated in the meeting, which included more than an hour of the session's participants answering questions submitted by email. While time prevented addressing all submitted questions, all submitted questions are included in the two Q&A tables presented below. The first table includes questions addressed to Dr. Smith and Mr. Campbell. The second table includes questions addressed to Mr. Davis.

The questions use the exact language submitted to the Water Authority. The Water Authority's consultants have prepared written responses based on the answers provided at the Study Session, with supplemental responses for completeness, further context and additional information and perspective.

The questions in Table 1 have been placed in the following categories:

- · Contract extension with IID
- Economic Analysis
- MWD Exchange
- Member Agency study
- MWD and Water Authority Rates
- · Risk Assessment
- · Partnerships
- MWD Relationship
- Study Session Administration

The ordering of the categories (other than the last) reflects when the first question in a category was asked at the Study Session. Questions about the Study Session's administration were placed in the final category.

Table 1: Questions on Economic Analysis and Risk Assessment

QUESTION	ANSWER
Contract extension with IID	
The economics of regional conveyance assume approval and cooperation with the IID Board. How certain is the Water Authority of this happening?	The Regional Conveyance System (RCS) requires an extension of the Water Authority's agreement with the Imperial Irrigation District (IID). The agreement with IID was signed in 2003 and has been mutually beneficial to both agencies. The Imperial Valley is receiving funds for its conservation program and San Diego County has gained a highly reliable water supply that helps to diversify and ensure the reliability of the region's supply for generations to come. The transfers protect against shortages and stabilize the price of a significant portion of the Water Authority's overall supplies, while reducing demand on the Bay Delta. A successful contract extension could also expand the scope of cooperation between the Water Authority and Imperial Valley to include use of geothermal power, cooperative storage
	tacilities and potential use of project infrastructure
The economics of regional conveyance assumes the IID Board approves the continuation of the QSA in 2047. What if this does not happen?	If the contract with IID is not extended, the Regional Conveyance System will not be constructed. There would be other consequences as well. The transfer has been a vital component allowing California to achieve its obligation under the California Limitation Act enacted in 1929 to limit its use of Colorado River water to an annual apportionment of 4.4 million acre-feet. Imperial Valley would lose the benefit of funding that has helped in diversifying its economy. San Diego County would lose a significant portion of the water supply that has served as a low cost and reliable base supply. There would also be additional strain on the Bay Delta supply, contrary to state policy.
Could IID decide in 2047 to no longer supply the QSA water to CWA?	Yes. However, the agreement with IID provides either party may request to renew the agreement on identical terms and conditions for a renewal term of 30 years well in advance of 2047.

QUESTION	ANSWER
This whole project consists of Imperial Irrigation District's approval on an extension. What if such extension is not approved?	See above
What discussions have been undertaken between CWA and IID in terms of extending agreement and for how long?	See above
If CWA was to try to renegotiate/extend the Exchange Agreement with MWD, what concurrent efforts would be required with the QSA Transfer Agreement to ensure there is a cost effective product to transport?	The price of transfer water is determined by the existing contract through 2047. The price of transfer water after 2047 would be determined by negotiation of a contractual extension. Placing these negotiations within the economic context of water supply and transportation alternatives would assure that the Water Authority enters into cost-effective agreements and is an essential and necessary component of long-term planning by the Water Authority's Board of Directors.
What are the projected water costs of QSA water from IID after the present agreement expires in 2047	See above
Your risk analysis to compare future costs between renting and owning the conveyance system does not include the possibility of IID saying no to extending the QSA agreement. Can you comment on this?	See above
How can SDCWA determine that the RCS is economically feasible if QSA water prices from IID are unknown after 2047?	By negotiating and ultimately reaching an agreement with IID on a contract extension.

QUESTION	ANSWER
What if IID's pricing on	Contract extension must be mutually
QSA water doubles after 2047? Is	agreeable to all parties
RCS feasible at that point?	
Economic Analysis	
Please describe in detail the economic issues CWA plans to investigate in Phase B studies: Phase A studies investigate the feasibility of RCS and project construction costs but say little about RCS economic feasibility as they neither address externalities nor associated probabilistic risks; will Phase B studies address economic issues associated with favored route 3A? For example, route 3A through Borrego appears from Phase A studies to place an annual multi-million dollar burden on Borrego irrigators and create potentially tens of millions of dollars in capital costs and additional annual O&M expenses for use of the 20,000 AFY turnout for Borrego.	Please review Slides 15 through 26 of the Campbell/Smith Presentation which identify the key drivers of MWD rates and charges and the economic analysis and risk assessment proposed for Phase B. The project description does not include a partnership with Borrego Water District. Phase A provides flexibility to accommodate potential partnerships should they emerge from Phase B discussions, should Phase B move forward. The financial terms of any agreement would be determined through negotiations of a mutually acceptable agreement among the parties in a fully transparent public process.
Why does CWA view "engineering viability and cost estimate" as remotely proving "economic viability? Isn't this an incomplete and relatively naive way to define "economic viability?	Phase A focused mainly on engineering viability and a preliminary cost estimate for the RCS. All parties including Water Authority staff and consultants and consultants retained by some Water Authority member agencies agree with the conclusions reached in Phase A, namely, that the project is feasible from an engineering perspective at the relative cost estimated in Phase A. Phase A included a high-level sensitivity analysis that compared the estimated cost of the RCS to negotiating a new Exchange Agreement with MWD under the financial provisions of the existing Exchange Agreement, where financial projections assumed that MWD's rates will continue to increase at its historic rate of increases. Phase B was always planned to provide a more expansive and detailed economic analysis and risk assessment of MWD's future to determine the economic viability of the RCS.

QUESTION	ANSWER
Via email: Why does CWA view "engineering viability and cost estimate" as remotely proving "economic viability? Isn't this an incomplete and relatively naive way to define "economic viability?"	The bottom line is that the Water Authority has two alternatives available for transportation of its QSA supplies, namely, continued use of MWD facilities or construction of a Regional Conveyance System. This is all part of the long- term planning responsibility the Water Authority Board of Directors has to protect the generational interests of the San Diego region, its ratepayers and taxpayers. See above.
MWD rent cost versus CWA RCS system dollar projections have been criticized as being inaccurate by other outside consultants. How do we evaluate who is right and who is wrong.	The assessment of any projection should be judged on the accuracy and factual and analytic basis of the projection. The goal of future rate projections in Phase B will be to develop a common understanding of the facts, risk factors and consequences, and alternatives for RCS, which are continued use of MWD's Colorado River Aqueduct under the current agreement, a potential amended agreement and/or hybrid agreement in which the Water Authority acquires a direct ownership interest in the Colorado River Aqueduct. Slide 26 describes the complexity of the integrated decision model that will be employed to accomplish this goal. The long length of the project development period for the RCS provides ample opportunity for testing the accuracy of projections going forward, including continued off ramps for the Water Authority Board based on changed circumstances or conditions.
Your presentations focused on MWD risks, like potentital (sic) declines in MWD demands. Did the study also look on SDCWA risks like declining demands on SDCWA?	Phase B includes an updated analysis based on updated MWD and Water Authority demands (see slide 26 of Campbell/Smith presentation).

QUESTION	ANSWER
How do you put an	There are tangible values of having
economic number on the	ownership of the RCS. First, the financial savings
intangible value of having	(if any) from the costs of ownership being less
ownership of the conveyance	than the costs of an exchange agreement and
infrastructure to move the IID	generational benefits of ownership that do not
water.	exist under the Exchange (rental) Agreement. In
	addition, Phase B intends to analyze partnership
	potentials that expand the RCS to beyond just a
	Water Authority project, but one with multi-
	benefits to the Southwest.
What would a 1% per year	If MWD's rates annually increase 1%
difference on the MWD rate	faster than anticipated, the economic feasibility of
projections do to the economic	the Regional Conveyance System would be
feasibility of this project?	greater than anticipated. If MWD's rates annually
	decrease 1% more than anticipated, the economic
	feasibility of the Regional Conveyance System
	would be less than anticipated. While sensitivities
	in rate projections must be considered, a rigorous
	process must be undertaken that considers
	multiple key drivers such as obligations in MWD's
	pending State Water Project contract extension,
	MWD and state project asset replacements, Delta
	conveyance costs, regional local resource
	programs, deteriorating Colorado River and State
	Water Project yields, reduced MWD water
	demands, and cost allocation disputes. Water
	Authority staff and consultants will be conducting
	such analyses across a wide range of purposes
	including providing feedback to MWD as part of
	the IRP and rate review processes.
There's no expectation for	The RCS could be economically attractive
a significant increase of water from	if its costs are less than the exchange payments to
the Colorado River. The MWD has	MWD and new partnership opportunities provide
sufficient transmission capacity to	additional economic benefits to the Water
move all of SDCWA's IID water.	Authority. Additional conveyance capacity could
So building the RCS would	also provide resiliency for the waters distribution
overbuild water transmission	system in the event of unforeseen emergencies or
capacity. How can overbuilt	outages.
transmission infrastructure be	
economically attractive?	
Wouldn't it be more cost	The Water Authority's Colorado River
effective and reliable to look to	water supplies are part of the Water Authority's
desal which has proven to be	base supply. The delivered Calendar Year 2021
successful and can be staged as	cost of the Water Authority's IID transfer water
demand increases or decreases?	and Canal Lining water is \$1,028/AF, which is

QUESTION	ANSWER
	substantially less than the cost of desalination water, competitive with the purchase of MWD untreated full service water currently at \$1,076/AF for Calendar Year 2021 and projected in the future to cost less than MWD water.
what is useful economic life of a RCS pipeline?	The useful life of infrastructure depends on maintenance and renewals. MWD's Colorado River Aqueduct was built in the 1930s, remains operational today and is anticipated to remain operational in the future. With proper investments in maintenance and renewals, infrastructure may be considered indefinitely lived. For depreciation purposes, typical water pipelines and aqueducts such as the Water Authority's pipelines has a useful life of 80 years.
I'm not familiar with the financial vehicles to own. What are the options - rate increases to support municipal bonds, selling capacity? With rates increasing so fast, isn't the Water Authority concerned its sales will decline to a level where it would no longer need the capacity planned for the RCS?	The impact on Water Authority rates and charges depends on the ultimate package of components of the RCS including partnership opportunities and third-party participation and finance plan to be considered in Phase B. Currently, the Water Authority's transfer and canal lining supplies provide about 50% of the region's current demands and it still purchases about 11% or 59,000 AF of water annually from MWD. This QSA supply is a base load and designed to be complementary to local supply development, with MWD water purchases expected to be further reduced in the future. Phase A results project that post 2047, the Water Authority will need its QSA supplies in addition to the supplies produced under planned member agency projects and additional water from MWD. Phase B analysis will be updated to reflect the Water Authority's 2020 Urban Water Management Plan Update.
If the IID decides not to continue its transfer agreement with SDCWA past 2047, how does this impact the many other QSA agreements?	Analysis of agreements is included in Phase B.
Has CWA compared the return on investment (ROIC) of spending \$5 billion on demand and supply management versus building the RCS?	No. The scope of the study to compare conveyances options for the region's highly reliable, cost effective QSA supplies which help to meet 50 percent of the region's demands.

QUESTION	ANSWER
How much would this	This will be addressed in Phase B, see
project impact my water bill?	slide 26 of Campbell/Smith presentation
What regional water usage	This will be investigated in Phase B.
was projected for the study (static,	
decreasing or increasing)? Is	
there a break point where owning	
makes significantly more sense	
than renting?	0 1
I would suggest that the	See above.
forecasted 528 B to rent versus the	
\$20 B to build a new conveyance	
given the inaccuracy of trying to	
project such a large scale capital	
project and the variability	
unknowns of renting fir over	
almost a 100 years. So, under a	
break-even scenerio (sic) what is	
the advantage and disadvantage	
under each opiton (sic)?	
How realistic are	Third party partnerships and access to state
expectations for potential state and	and federal funding will only improve the
federal funding assistance for a	economics of the RCS and drive down the total
project of this magnitude, and how	cost for San Diego ratepayers. As noted earlier,
do you think would that affect the	Governor Newsom's 2020 Water Resilience
economics of the project	Portfolio encourages multi-benefit projects such
generally?	as the RCS. The project may also very well qualify
	for federal infrastructure programs being
	in order to improve the economy and create jobs
If CWA is 18% of MWD	See above
water revenue why must they pay	
25% of new new (sic) project costs	
(e.g. Delta Conveyance project)	
Can we handle more	This is not a decision to be made by the
development? At what point does	Water Authority's Board of Directors. Under an
it make sense to control growth?	MOU with SANDAG, the Water Authority must
	base its projections on data provided by
	SANDAG.
The CWA has access to an	Phase B would assess the RCS within the
infinite quantity of sea water,	context of the San Diego region's water supply
wouldn't the best long term plan to	alternatives and water demands.
be desalination? There's no supply	
side risk.	

QUESTION	ANSWER
You have indicated that	The Water Authority Board of Directors
there is unused capacity in MWD's	has a fiduciary responsibility to its ratepayers to
existing aqueduct. Do you see any	investigate all prudent and viable options for
inconsistency in building a new	economically conveying its water in order to
conveyance system when one -	provide a safe and reliable supply of water to its
with excess capacity already	member agencies serving the San Diego region.
exists? What does that say to the	
public who have alleady (Sic)	
What items do you think	Economic analysis and risk assessment
what items do you time	presented in the Campbell/Smith presentation
to address in Phase P if that mayor	negotiation of terms sheets with IID and other
to address in Fliase B ii that moves	notential partnership opportunities which would
lorward?	be covered
At the heart of this issue is	No. See Mr. Campbell's and Dr. Smith's
a projection on MWD's future	August letters included in materials for the August
rates. Has the Water Authority	27 th Board meeting and posted on the Water
been unreasonable in projecting	Authority's website here:
rate increases for MWD?	https://www.sdcwa.org/colorado-river-supplies-
	management.
	These projections are based on historical
	averages. Unfortunately, it is also extremely
	difficult to forecast MWD rates because it does
	not include the cost of water supply investments it
	is planning to make—the single tunnel for the Bay
	bena and regional recycled water program,
	vear rate forecast. It also lacks a long range
	finance plan
MWD Exchange	
Is there a hybrid between	Ves. In the case of interstate natural gas
owning and leasing?	ninelines for example users of transportation
owning and leasing:	facilities have a sub-divided interest providing
	them with a defined exclusive right of use of
	designated capacity. The nineline owner operates
	its facilities in accordance with the user's exercise
	of its sub-divided interest. Doth parties barefit as
	on its sub-divided interest. Both parties benefit as
	nic secures transportation of its supply and the
	pipeline owner secures a firm source of revenue
	for what might otherwise be unused capacity.
	One hybrid option would be for the Water
	Authority to acquire an ownership interest in an
	undivided, proportionate share of MWD's

QUESTION	ANSWER
	Colorado River Aqueduct, under an agreement by which MWD would continue to operate the aqueduct for the mutual benefit of both parties.
	The Water Authority does not have the legal right to use of MWD's Colorado River Aqueduct as a result of its member agency status (even though it has paid billions of dollars to MWD over the years). Similar to a rental agreement allowing a lessee the use of premises, the Water Authority's current right to use the CRA is established under an Exchange Agreement in which the price is set in accordance with the requirements of state wheeling law.
There's a lot of effort to determine the MWD rates, why don't you start now and negotiate a new exchange agreement with MWD that way you'll find out SDCWA's costs	The Water Authority's discussions with MWD on wheeling/exchange fees date from the late 1990s. After years of negotiations and litigation, the parties almost reached an agreement last year. One outstanding issue was the Water Authority's request for protection if there were fundamental changes in MWD's rate structure in order to avoid the risk of having to pay twice for the same costs—once as part of a fixed charge and then again under MWD's changed rate structure. This request was rejected by MWD. It is common practice for pricing provisions in long-term agreements based on an entity's rates to address the consequences of a changed rate structure. For example, the Water Authority's agreement with IID addressed how the calculation of the Base Contract Price defined in Article 5 would be adjusted if MWD changed its rate structure. Without this type of provision, there is no way of ensuring that the Water Authority and its ratepayers would obtain the benefit of its bargain.
Why not try to re-negotiate	A full assessment of alternatives is a
the current agreement with MWD	critical component not only to prepare for
with more favorable terms to SD	negotiations but also for long term decision-
and use the proposed SD project as negotiating leverage?	making by the Water Authority Board of Directors. Negotiations of a new exchange agreement with MWD remains an alternative.

QUESTION	ANSWER
It seems like it is	See above.
advantageous for MWD to	
regnegotate (sic) the wheeling rate	
for the QSA water. Since it would	
cost a lot of money to MWD if they	
lose the wheeling money from the	
Len't there a third supply	Saa ahaya
ontion to negotiate a new	See above
exchange agreement with Met in a	
manner that detaches OSA	
conveyance costs from the Met	
rate structure as offered by Met in	
its November 2019 settlement	
offer? The Independent Consultant	
report documented cost savings to	
the Water Authority of \$15 billion	
in comparison to the RCS, when	
default accompanie assumptions	
Given the magnitude of the cost	
advantage, shouldn't the Water	
Authority give priority to	
negotiating with Met to put that	
into effect?	
According to an email from	The Water Authority Board of Directors
Jim Madaffer, Water Authority	would strongly prefer to reach mutually beneficial
Board Chair sent 8/14/2020: CWA	agreements with MWD rather than relying on
Won \$44.4 million award from	litigation. This is why, following a decision in the
for CWA to plan for ongoing	2010-2012 cases, the Board chose to distilliss
litigation to control MWD costs	effort to resolve issues as part of the IRP and rate
versus building the RCS?	review processes now underway at MWD While
	the Board is hopeful of reaching agreements in
	2021, it will of course hold all options open in
	order to protect San Diego ratepayers and
	taxpayers.
What happens if you do	Operate under the existing terms of the
nothing?	Exchange Agreement with MWD, which provides
	for the exchange of conserved water transfer from
	IID through 2047 and conserved canal lining
Member Agency Study	
Member Agency Study	

QUESTION	ANSWER
Hello. Why is the County	Campbell and Smith provided written
Water Authority not discussing the	comments on the Member Agency Study in letters
independent Member Agency	that were included in the packet for the Water
Study that comes to very different	Authority's August 27th Board meeting, also
conclusions than the Black and	available on the Water Authority's website with
Veatch and the staff are	the other Phase A reports. The Water Authority
presenting? When will that be	invited the authors of the member agency study to
presented to the public?	participate in the economic session. To do so, they
	asked that the Water Authority both hire them and
	indemnify them. The Water Authority did not
	Authority unlocused continued norticipation by
	Authority welcomes continued participation by
	the member agencies and consultants but cannot
The Water Authority's	Speak for them.
member agencies retained an	reports on this study which were included in the
independent consultant to review	materials for the Water Authority's August 27 th
the Water Authority's project	Board Meeting and are posted on the Water
report. That report identified a	Authority's website here:
likelihood that if Met variable rate	https://www.sdcwa.org/colorado-river-supplies-
components were to continue to	management
escalate as forecast by the Water	
Authority, the rates would be	
unsustainable in the marketplace,	
resulting in Met member agencies	
rolling off of Met supplies and	
developing their own in their	
have no choice but to reallocate a	
nortion of its cost recovery to	
unavoidable fixed charges at a	
level sufficient to maintain	
variable rate components at	
competitive levels. This would	
eliminate the economic benefit of	
an RCS. Can the Water Authority	
address this obvious and	
fundamental concern?	
18 of the CWA's 24	See above
member agencies commissioned	
an independent economic	
teasibility study. How did this	
study differ from the Phase A	
report.?	

QUESTION	ANSWER
Hello. Why is the County	See above.
Water Authority not discussing the	
independent Member Agency	
Study that comes to very different	
conclusions than the Black and	
Veatch and the staff are	
presenting? When will that be	
presented to the public?	
Metropolitan and Water	
Authority Water Rates	
On slide 14, can you	Metropolitan's and the Water Authority
overlay the SDCWA rate	Untreated Water Rates
increases over the same time	
period?	Metropolitan Water Authority
	\$2,000
	<u> </u>
	\$500
	e II
	V \$0 0 8 0 7 5 0 8 0 7 5 0 0 4 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0
	\$ 1999 1999 2000 200
	Defere 2002 Water Authority's motor rates
	Before 2003, water Authority's water rates
	followed Metropolitan's water rates. Since then,
	the water Authority's water rates have increased
	avantition of sonion Colorado Diver vistor from
	quantities of senior Colorado River water from
	nin and development of the Carisbad desaination
Slide 14: MWD rate	Dialit.
increase also regult of adding new	Authority have made investments in new water
increase also result of adding new	Authority have made investments in new water
water supply and storage option	supply and infrastructure projects and this is one
post 1960s. This is consistant with	of the causes of increased water rates of both
the CWA fales which also	agencies. Dollar for dollar, nowever, we believe
exceeded normal inflation by	the water Authority has a stronger track record of
adding new water supply	actually adding reliability assets to its balance
reliability.	sheet for its ratepayers. while the water Authority
	is now moving into a period of maintenance,
	with water supplies deemed to be sufficient to
	inter the long term planned base load demand of
	its member agencies, MWD still has billions of
	dollars of planned supply investments yet to be
	added including the $$15.9$ billion Bay Delta tunnel
	and the \$3.4 billion regional recycled water
	projects.

QUESTION	ANSWER
it was unclear to me what	The Exchange Fee is \$534 per acre foot
CWA is paying per AF to MWD	for Calendar Year 2021.
for the annual transport of the	
280,000 AF of IID water to San	
Diego	
Even with a RCS, we would still have to pay our share of the MWD costs for the Delta Conveyance Project, Recycling Regional water, and others?	The Delta tunnel and regional recycled project are water supply programs. If the RCS is constructed, the Water Authority would no longer be paying MWD's delivery (transportation) charges and would be protected against MWD improperly shifting water supply costs to transportation. The Water Authority would continue to pay MWD rates and charges for its water supply purchases, currently primarily volumetric rates. If MWD should seek to increase its fixed charges in the future, the charges must under cost-of-service and Proposition 26 legal requirements, bear a reasonable relationship to the actual services MWD is providing to the Water Authority
How much would this	This will be addressed in Phase B see slide
impact my water bill?	26 of Campbell/Smith presentation.
If the SDCWA builds its own conveyance system but remains a member of MWD, wouldn't it still be apportioned costs that MWD encumbers in the future? How are those costs allocated to members? On water purchases?	MWD is legally obligated to charge no more than the costs it incurs to provide services to its member agencies. Under MWD's current rate structure, except for MWD's tax levy and standby charge, an agency that does not purchase water from MWD does not pay MWD's volumetric water rates which recover a large percentage of its costs. It is possible that the MWD Board would find it necessary to impose more fixed charges in the future, but the member agencies currently very strongly favor volumetric rates based on the amount of water supply each agency buys from MWD. Rather than relying on more fixed charges to endure its fiscal sustainability, the Water Authority has urged that MWD control its spending and cease making investments if there is no identified demand for the water by individual MWD member agencies.
Risk Assessment	

QUESTION	ANSWER
"Risk factors require	This was addressed in detailed studies and
rigorous analysis," For CWA to	analyses done for the Water Authority's'
justify spending \$1.5B recently on	Emergency and Carryover Storage Project. The
local storage to assure continuance	analysis looked at a 2-month total outage and 6-
of service in case of supply	month partial outage at a reduced level of service.
disruption from MWD due to	
earthquakes, it must have done a	
probabilistic risk assessment.	
1) What does CWA assess as the	
probability of supply disruption	
from MWD transported supplies	
due to earthquakes?	It is some for the moontainty of
Could you speak to the fisk	It is common for the uncertainty of
infrastructure decisions 27 to 02	horizon Howayar the length of the time
vers in the future? Like any	development period of the Regional Conveyance
forecasting effort the farther in the	System will provide ongoing opportunities to
future we predict the more	confirm or refute projections prepared in 2020
inaccurate it will be. Are we	Whether one is overcompensating for
overcompensating for pereceived	costs that may not materialize depends on the
(sic) costs that may not	economic fundamentals driving MWD's future
materialize?	rates and charges.
Is there no chance at all that	We are unaware of any such proposed
the state will impose "rent control"	legislation. The prospect that the State of
on MWD's wheeling rates in the	California will impose "rent control" on MWD
future?	seems remote; so far, the only relief the Water
	Authority has been able to obtain has been by
	litigation. Unlike privately owned public water
	utilities, MWD is not currently subject to
	regulation of its rates and services by the
	Commission
	Eatal flaw screening is step one in
	evaluating alternatives based on their ability to
	satisfy the specific criteria contained in the
	project's purpose and need statement. For
	example, is the project feasible and constructible.
	does it avoid or mitigate for environmental
	impacts, is the cost benefit ratio within an
	acceptable range, and does it reduce risk of other
	uncertainties. Some of these have already been
	determined in Phase A such as project feasibility
What are the fatal flaws of	and constructability while others will be a part of
owning?	Phase B.

QUESTION	ANSWER
	While not a fatal flaw, ownership does
	carry the responsibility of operating and
	maintaining the asset. This is typically addressed
	through preventative maintenance programs, asset
	management and replacement plans, and a
	financial plan that maintains adequate reserves
	and financial flexibility to address unforeseen or
	unplanned events.
How would Fallbrook	Economic analysis and Risk Assessment
Public Utility District and	of the Water Authority's future would include
Rainbow Municipal Water	multiple alternative scenarios including with
District's proposal to be detached	regard to the proposed detachment.
from the Authority be considered	
in further economic studies?	
Annual flow variability	See discussion of priority system
from the Colorado River is a	
significant supply risk Many of	
the regional climate models project	
Colorado River flows will be able	
to meet annual allocations less than	
50% of the time by 2045. Vet we	
find no adjustment to potential	
RCS costs/benefits analysis or	
recognition of this fact in CWA	
economic studies From a risk	
management perspective the	
nrobabilistic risk of flow allocation	
variability is a probability close to	
1) Why isn't this annual allocation	
supply risk factored into your	
supply lisk factored line your analysis of RCS route $3A^{2}$	
The priority system	See above discussion of priority system
question: doesn't the Human Right	See above discussion of priority system
to Water act give people priority	
over agriculture? Assembly Pill	
No 695 CHADTED 524	
http://www.loginfo.co.gov/pub/11	
12/bill/ocm/ob_0651	
$-12/011/as11/a0_0031-$	
0/00/a0_085_011_20120925_cha	
To the taria of hell	Hadaina atuataan ataata
To the topic of hedging.	Hedging strategy starts with identifying
Are there financial instruments	the key cost drivers of a project and then finding
available to ensure can rates can be $a_{1}^{(1)} = 1$	Inancial instruments related to the cost drivers.
stabelized (sic) for rate payers over	Phase B provides the first step. Consultation with

QUESTION	ANSWER
a long term whether the CWA	project financiers would access the effectiveness
owns or leases?	of proposed hedging instruments.
Is there no chance at all that	See above
the state will impose "rent control"	
on MWD's wheeling rates in the	
future?	
Partnerships	
Will Phase B get more real	Phase B includes dialogue with potential
in terms of financeal (sic)	nartners Negotiations of agreements commonly
nartnerships Would would (sic)	start with term sheets before proceeding to
that look like? MOU?	Memorandum of Understandings and could begin
	as a result of discussion with potential partners.
Considering that the losers	The Water Authority is part of the OSA
in the QSA water supply to	Joint Powers Authority (JPA) which continues to
SDCWA and other beneficiaries	meet its environmental mitigation obligations to
are the residents, environment, and	the Salton Sea. These efforts are separate and
wildlife at the Salton Sea with	distinct from the state's restoration obligations.
losses estimated by the Pacific	The QSA JPA coordinates closely with the state to
Institute at \$29 to \$70 billion, and	ensure their respective efforts are complimentary.
given that the State has failed for	Phase B of the RCS study will continue to look at
17 years to implement any	partnership opportunities to enhance these efforts
significant restoration, or even	at the Salton Sea.
mitigation, at the Salton Sea, does	
damage to the Salton Sea from loss	
of inflow figure into the risk	
analysis and how?	This is not a part of Commball and Smithle
With which landowners in Domage Springe have you had	I his is not a part of Campbell and Smith's
sonversations?	scope of work for the economic analysis.
Vou mentioned	One notential would be to expand the
"partnership opportunities " with	Regional Conveyance System to provide Borrego
Borrego Springs landowners -	Water District with an opportunity to secure cost-
what would be the nature of those	effective water supplies to replenish its
partnerships?	groundwater basin and meet the needs of its
r · · · · · · · · · ·	community.
The State of California has	See above
after 17 years failed to meet its	
responsibilities under the QSA at	
the Salton Sea. Does this factor	
into the Water Authority's	
analysis?	

QUESTION	ANSWER
	Discussions with potential partners will
So, are you saying we can	commence in Phase B which could potentially
expect "Term Sheet" with potential	lead to the drafting of term sheets for viable
partners as the result of Phase B?	partnerships.
The Borrego Springs	See above
Community has been told that	
SDCWA was told we support the	
RCS. We are just beginning to	
grapple with the RCS and there is	
no community consensus on this	
matter at all. So the idea that future	
studies on local to Borrego Springs	
risks and costs would be studied in	
partnership between SDCWA and	
a local partner doesn't answer our	
concerns about this. It doesn't	
explain what kinds of costs and	
risks are likely to be involved and	
implies that some entity in Borrego	
Springs would have to help pay for	
such a study. Why can't your	
report take into account concerns	
that have been expressed by BWD	
and local community members	
without expecting us to pay for	
such a study, when we cannot	
decide to spend limited funds to	
support such a study before we	
have information about what have	
already been identified as major	
risks and costs for our town?	
Could you discuss the	Partnership agreements (power purchase
extent of how a collateral energy	agreements) with energy providers contain
component to the project (owning)	financial terms favorable to the energy rates used
can be incorporated to manage	in Phase A. Reduction of energy rates would lead
down rates?	to reduction of annual RCS operations costs.
How could various	See above.
partnerships impact the economics	
of the Regional Conveyance	
System?	
Will partnerships lower	As an example of a partnership
costs? How?	opportunity, a public-private partnership with a
	solar, wind, or geothermal developer could yield
	costs savings for the operations of the RCS

QUESTION	ANSWER
	through reduced energy costs and economic
	stimulus to the Imperial Valley through job
	creation.
MWD Relationship	
Does the Authority still have access to MWD water if we build our own delivery system?	Provided that the Water Authority remains as a member agency of MWD, it would have access to MWD water in accordance with its "preferential rights" which is a formula contained in MWD's Act enabling calculation of the amount of water to which each member agency is legally entitled. The Water Authority has already paid for these water rights and would continue to hold and
	seek beneficial use and value from its preferential rights even if it chose to transport its Colorado
If SDCWA leaves MWD is	RCS is an alternative way for the Water
there a cost impact or a detrimental	Authority to receive delivery of its transfer water
water flow use impact due to the	and canal lining water. The project does not
reduction of water to MWD?	require the Water Authority to leave MWD. In
	fact, Phase A results show that the Water
	Authority would still need to purchase water from
	MWD beyond 2047.
	A greement with MWD provides that the Water
	Authority provide MWD with 5 years advance
	written notice should it determine to transport
	transfer water through alternative facilities. The
	cost impact to MWD would be the loss of
	significant fixed revenue provided by the Water
	Authority. While we believe this should be an
	incentive for MWD to negotiate more favorable
	terms for this water supply delivery, it has thus far
	the Water Authority MWD must adjust its
	planning and spending in order to account for the
	reduced demand for MWD water as part of
	MWD's ongoing IRP and rate review processes.
How badly does MWD	MWD's General Manager, Jeff
need to get the revenue	Kightlinger, has publicly stated on Twitter on
represented by fees charged to	September 1, 2020 that MWD is "agnostic" about
SDCWA for conveyance?	the project.
Where does MWD sit on	See above
SD County WA owning?	
Study Session Administration	

QUESTION	ANSWER
will these slides be available to webinar participants?	Yes. They are posted on the Water Authority's website.
Will these slides be available to webinar participants?	See above
Unlike Zoom mtgs, attendees can't see questions asked by other viewers? Is there a setting I am missing on Microsoft Teams where other attendee questions can be seen? This is helpful for both sharing ideas and reducing redundancy of question topics. It also eliminates the perception that moderators are "controlling" the direction of audience participation.	This Q&A document includes all questions submitted in exactly the form they were submitted (see introduction).
Why can't attendees at least SEE all the questions being asked as they come in?? Is there a setting to do that? Or, are the moderators withholding questions from attendee view? I can see nothing under "Featured Questions." ? Thank You.	See above

Table 2: Questions About the Water Authority's Phase A Work

QUESTION	ANSWER
On Page 43 of the	1)
Kleinfelder Report it is stated	• There are numerous tunnels around the world that
that the depth of the RCS	have greater cover most notably the Gotthard Base
tunnel is twice the depth	Tunnel in Switzerland, which was recently completed
where gasketed segmental	and has a maximum depth of cover of 2.3 km
lining was used in the	(approximately 7 500 feet)
Arrowhead tunnels Also the	• A gasketed precast concrete segmental tunnel liner is
report (page 22) stated that	one of many available methods for controlling
the example given in the San	groundwater infiltration into tunnels, such as those
Jacinto River tunnel (with a	used on the Arrowhead Tunnels Project. For tunnels
high static pressure) was	that may experience high groundwater pressures, other
determined to be a permanent	mitigation methods will need to be utilized in
problem and couldn't be	conjunction with gasketed precast concrete segmental
fixed. In such a case	tunnel linings, such as probe drilling, pre-excavation
environmental impacts to	grouting, formation grouting, and installation of a
springs water sources	secondary steel lining inside the initial gasketed precast
providing drinking water to	concrete segmental tunnel lining in order to handle the
the Endangered Peninsular	higher groundwater pressures, especially for portions
Big Horn Sheep would be	of the tunnel alignment within fault and fault zone
significant and unmitigable	areas. This is further discussed in subsection entitled
and could result in a "taking"	"Geologic Issues" of Section 2.4.5 and in detail in
under the Endangered	subsection entitled "Groundwater Concerns" of Section
Species Act. Note that	2.4.7 of the Regional Conveyance System Study –
Peninsular Bighorn sheep and	Phase A dated June 11, 2020 prepared by Black &
several other sensitive species	Veatch.
are found in and around Tubb	• The San Jacinto Tunnel was constructed in the 1930s.
Canyon, which is the	The Kleinfelder Report notes that "unstable sections
proposed eastern portal of the	[of the San Jacinto Tunnel] were supported with
47-mile water tunnel.	horseshoe and circular steel sets and gunite for
	temporary tunnel support [and] some sections of the
1) On what basis does CWA	tunnel were self-supporting and not lined initially."
believe it would not	Further, the report indicates that "efforts to reduce the
encounter the same	groundwater pressures during construction and shut off
"unfixable" problems in the	the water flow included driving pioneer tunnels parallel
RCS tunnel as currently	to the main tunnel to reduce groundwater pressures and
proposed?	perform pressure grouting by injecting cement into drill
	noies. It should be noted that there have been
2) How was the greater	significant advancements in tunnel lining and grouting
anticulty of constructing and	te movement magnetice immediate of accounting the movement
turnal accounted for in the	The means and methods utilized almost a contrary and
setimated for in the	in an attempt to control group durates interview and
esumates for both	in an attempt to control groundwater intrusion are

QUESTION	ANSWER
QUESTIONconstruction and operating costs? How much was the difference between the estimated cost for RCS, and the cost that would be the case if conditions were the same as prior projects having less difficult parameters of excavation, lining, groundwater pressure and other cost drivers on which the cost estimates were based?3)In the event that a significant negative impact were found to be the case of the proposed project on the endangered Peninsular Bighorn Sheep and other sensitive species, what cost was assumed in the cost estimate to cover legally- required mitigating actions to offset such impacts?	ANSWER completely different from those utilized in the tunnel industry of today. 2) Costs associated with the modern methods for handling groundwater were incorporated into the tunneling costs in the RCS Study, Phase A Black & Veatch report. 3) The RCS Study, Phase A cost estimates include legal costs for the project as well as mitigation costs. Should the project move forward, all environmental constraints and risks would be further assessed based on more detailed information.
In the RCS cost estimate, what were each of the specific cost elements estimated, and their specific amounts, that add up to the estimated total? Are these in a backup slide? What fraction of the total estimate was specific as unallocated reserves to cover unknowns and surprises that inevitably arise as a concept matures for any complex project, and as unanticipated difficulties arise during	The RCS Study, Phase A report by Black & Veatch includes several tables in Chapter 6 and Appendix G. This study is located on the Water Authority's website.

QUESTION	ANSWER
implementation and	
operations?	
Why was storage not	The RCS Study, Phase A report by Black & Veatch describes taking full advantage of the existing Water Authority assets, including the San Vicente Reservoir that provides over 250 KTAF of water storage. Both Alternatives 5A and 5C would terminate at that reservoir. While Alternative 3A terminates near the Twin Oaks Water Treatment Plant, north of the San Vicente Reservoir, the existing aqueduct system has sufficient
included in the first phase of	capacity to transfer water to the San Vicente Reservoir for
the RCS study? How can storage not be considered	annual storage needs. In addition, the KCS Study identified a need for local (in San Diego County) storage of 3 500 AF for
essential to transmission of	Alternative 3A, which is included in the alternative and in the
the IID water to SDCWA?	project costs. All alternatives in
	The RCS does not take any water away from the Salton
	Sea, therefore should have no adverse economic impacts to it.
	Potential partnerships were identified in the RCS Study, Phase
	A, related to habital restoration utilizing orme from the RCS treatment plant. The brine concentration would likely range
What are the	between approximately 6,000 to 11,000 mg/l which is much
economic impacts of RCS on	lower than the background salinity of the Salton Sea which is
the Salton Sea?	around 60,000 mg/l.
Via Email: Jeff Plourd - Will the IID infrastructure be fully analyzed to handle	The only existing infrastructure in the IID service area conveying QSA water is the All American Canal (AAC). The AAC has been analyzed and the two options were identified to resolve a capacity constraint between the siphon at the New River and the west end of the AAC. One option is to construct
the extra volume of water needs at each delivery point?	a parallel conveyance system in that area. The second option is to build a surface water storage facility on the west side of the West Side Main equal page the Fee Charle The ground
What happens if the system won't handle it?	option was used as the baseline approach in the RCS Study, Phase A. Both options were coordinated with IID.
Going back to a	
previous question. Why has the SDCWA NOT done a	2.4.7 of the Regional Conveyance System Study – Phase A
seismic risk assessment yet?	dated June 11, 2020 prepared by Black & Veatch. This
The current preferred route,	subsection describes the special considerations that would need
Alternative 3A, proposes a 47 mile tunnel across multiple	areas, an excerpt of which is as follows: "Specialized designs

QUESTION	ANSWER
faults, including the sizable	would be developed for fault crossings [to mitigate the potential
Elsinore fault. The tunnel	for damage (breakage) caused by earthquakes]. These designs
would be at unprecedented	could include, but are not limited to: 1) over-excavation or
depths and pressures. The	enlargement of the tunnel to provide for future movement of the
costs of failure would be	fault where the tunnel crosses the fault: 2) filling of the annular
enormous. Please answer	space between the initial tunnel excavation and the exterior of
later in writing if need be.	the tunnel final lining with low strength material such as cellular
	concrete: 3) grouting the faulted ground to increase the strength
	and ductility of the faulted ground: and/or 4) using flexible
	ioints to increase the longitudinal flexibility of the tunnel final
	lining "
	ming.
	These specialized designs for fault crossings would
	incorporate information gathered in subsequent geotechnical
	investigations (as further discussed in Appendix A of the
	Geotechnical Desktop Study dated April 8, 2020 prepared by
	Kleinfelder that is included as Appendix C to Regional
	Conveyance System Study – Phase A dated June 11, 2020
	prepared by Black & Veatch) in order to understand the
	potential for movement at such fault and fault zone areas along
	the tunnel alignment for the design life of the tunnel in order to
Circuit that the	minimize such risk of damage.
Given that the	
immeture concent having	
had only a little more than	
\$1M spent to define the	
project what is the typical	
percentage cost growth for	
such projects of similar	
estimated magnitude.	
between an estimate made	
using the first \$1M of study	
funding, and the actual	
completed cost of several	
\$Bs? How does this	
uncertainty compare with, for	The RCS Study, Phase A includes contingencies. Cost
example, the cost estimate for	estimates include contingencies that are intended to account for
California's proposed version	uncertainties. Contingencies, as a percentage of project cost,
of the high-speed rail project	typically go down as the project is further defined. Recognizing
to link Northern and Southern	the early nature of the project development, the Water Authority
California, which, while	performed some minor economic sensitivities to include
much larger, also involves	projects with costs +/- 40% of the cost estimates in the RCS
considerable tunneling of a	study. These ranges were in addition to the contingencies added
similar diameter and	in the RCS study.

QUESTION	ANSWER
acquisition of rights-of-way	
that do not exist today?	
Thank you.	
Would the projected	All pipelines and tunnels would be below ground except
pipeline up Tubb Canyon be	in localized areas where they connect to treatment facilities,
above or below ground?	pump stations, and other related facilities.
	Since the actual alignments are not well defined, it is
What would the	difficult to answer at this stage of conceptual design. However,
impact be to homeowners and	the only above ground project features in the Tubb Canyon area
real estate along lubb	would be the pump station, if the alignment ultimately traversed
Canyon? Would the RCS	through the area. That facility can be designed to blend with the
infrastructure be visible?	surrounding area.
Could you discuss the	
extent of now a collateral	Deuterenting and the second seco
energy component to the	Partnership agreements with energy providers contain
project (owning) can be	Infancial terms lavorable to the energy rates used in Phase A.
rotoc?	Phase A of the RCS Study assumed no energy participations in order to provide a conservative energy participations
	order to provide a conservative operations cost.