

**Chiquita Storage Reservoir/ Emergency Reliability**

No change. Boyle and Geopentec are proceeding with the design of the reservoir including the dam, the piping, inlet/outlet, and the pump station design with completion is expected in March 2008. The SMWD Board released the EIR on February 11, 2008, and held a public meeting during the week of March 10<sup>th</sup>. Bidding is currently scheduled for April 2008.

**Joint SMWD / City 570 HGL Recycled Water Reservoir**

No change.

**SMWD / City Emergency Interconnection at Ortega Hwy and Antonio Pkwy.**

City staff met with staff from SMWD to discuss the valuation of the 2 cfs of semi-permanent capacity sought by SMWD from the SC04 turn out.

**Ortega Highway Pipeline**

The CEQA initial study was circulated and comments received after a 35 day posting period. Staff and the City's consultant ESA are evaluating a response to the comments. HDR has begun the completion of the pipeline profiles. A set of bid ready plans are expected for the County Portion of the pipeline by late August 2008; for bidding of this section in September 2008. The bid ready set of plans for the section in San Juan will be complete after any pending alignment changes are resolved. Staff will begin finalizing the Agreement with the County for construction management services.

**Water Rights Application**

No change.

**SMWD Recycled Seasonal Storage Reservoir**

No change.

**MTBE in Groundwater**

Staff and the City's Consultant have evaluated two technologies for the removal of MtBE from the water at the Kinoshita well – Granulated Activated Carbon (GAC) and High Potential Oxidation (HiPOx). Neither technology is superior, nor guaranteed to work given the nature of the groundwater at Kinoshita. The key issue being the impact of the various groundwater constituents, and the potential for the product water from either system to generate undesirable by-products. To better evaluate the merits of these technologies staff is mining the existing test data and will begin to conduct a regular sampling and testing of the elements of concern. Lab bench tests will be conducted if there is no fatal flaw based on the groundwater constitutes.

**Examination of Terminal Reservoir No. 2 (T2)**

No change.

**Terminal Reservoir No. 3 (T3)**

TetraTech, Inc (TTI) delivered its review of the condition of Terminal 3 (T3) and its

response to the letter reports by CDM on the issue in its report dated February 26, 2008 (Attachment 3). TTI's summary of the condition is as follows: "In their [CDM's] February 4<sup>th</sup> memorandum, after having the opportunity examine the drained tank interior and perform a slab elevation survey, CDM does conclude that the tank perimeter footing (and presumably the wall shell that rests on it) has settled differentially from the membrane slab but goes on to further to state that it is not expected to continue settling. However, we [TTI] disagree that this equates to the end of the problem – it just means that it won't get any worse. So long as during the service life of the reservoir: 1) load is applied and removed from the floor slab (i.e. from filling and emptying the tank); 2) applied and removed from the roof slab (i.e. live loading); and, 3) the sub grade soil beneath the floor slab will settle when load is applied and rebound when it is removed (as indicated it will in CDM's February 4, 2008 memorandum), there will be differential movement between the floor slab and the wall/wall footing. This will result in movement at the slab cracks and footing/slab separations that have already formed." The TTI report goes on to recommend several actions which staff has or is in the process of implementing. Currently, preparations for submersible displacement sensors between the column footer and floor are being finalized, with the devices to be installed as soon as they are available. The displacement sensors at the roof/ring wall are working and being monitored. Thus far they have not exhibited any trend. Further remedial actions are dependant on the results of the displacement monitors, the planned bi-monthly dive inspections, and weekly measurements of the sub drain flow. Staff will consult with the City's attorneys regarding the preservation of the City's legal options if the situation worsens. Staff plans to put T3 back in service by the end of the month.

#### **MET Shortage Allocation Planning**

No change.

#### **Placida Habitat Restoration Project**

The restoration work was completed in December 2007. At this point the 3-month maintenance is in progress. The native plant restoration is succeeding.

The Placida hill continues to exhibit some movement. Staff has had Lawson Geotechnical visit the site to evaluate the movement to ensure that it is within the intended allowable movement of this system. LGC reported that this movement is allowable. Staff will have to remove an amount of slide debris from the run off area, which will be determined after the winter season has passed.

**DEVELOPMENT PLAN REVIEW - (ongoing)**

<b>Project</b>	<b>Tract/Project No.</b>	<b>Status</b>
Mesa Development	VTM 14343	DAB reviewed for conformity on 3.21.07 in relationship to the 2.17.98 City Council approved Revised Tentative Tract Map. On April 6, 07 the planning dept sent a letter of conformity to the applicant; which, addresses incompleteness items. Waiting for applicant to resubmit a revised packet to the Planning Dept for review.
San Juan Hills High School	Tract 15571	Construction complete.
Pacifica San Juan (aka Sun Cal.) On-site improvements	Tr. 14196	Under construction.
Pacifica San Juan (aka Sun Cal.)	Tr. 15609	Off-site improvements are under construction.
Pacifica San Juan (aka Sun Cal.)	Tr. 15687	Under construction.
Pacifica San Juan (aka Sun Cal.)	Tr. 15609	Under construction.
Pacifica San Juan (aka Sun Cal.)	Tr. 16747	Under construction.
Pacifica San Juan (aka Sun Cal.)	Tr. 16748	Under construction.
Pacifica San Juan (aka Sun Cal.)	Tr. 16749	Under construction.
Pacifica San Juan (aka Sun Cal.)	Tr. 16750	Under construction.
Pacifica San Juan (aka Sun Cal.)	Tr. 16751	Under construction.
Pacifica San Juan (aka Sun Cal.)	Tr. 16752	Under construction.
16" line crossing the I-5 from Camino Capistrano to the CUSD property (North R&D site).	Tract 15686	Construction complete. As-built plans have been submitted and staff will schedule for City Council acceptance after adjacent water improvements are complete.
Del Avion Gardens (CA Development, LLC - new developer).	Tract 15924	Final development plans, letter of assignment, and replacement bonds have been submitted by (CA Development, L.L.C.) to assume the responsibility to construct the development. Developer to schedule start of construction of water improvements.
Village Alipaz Ph. III, Alipaz, LLC	Tract 16168	In plan check and pending payment of water development fees.
Belladonna Estates	Tract 16146	<b>The applicants engineer has contacted the PW dept to about information and plans in order to start design of civil improvements.</b>
Rancho Madrina	Tract 16221	Construction complete.
Whispering Hills Development (Via Montana of east canyon)	Tract 16634	Under construction.
Whispering Hills Development (East Canyon)	Tract 16634	Plans are approved, fees paid, and bonds have been provided by developer. Developer to schedule start of construction of water improvements.
Whispering Hills Development (West Canyon)	Tract 16634	Plan check completed on west water improvements and waiting for applicant to resubmit corrected plans for review.
Whispering Hills Development (East / West Connection)	Tract 16634	Under Construction.
Hidden Creek Estates	Tent. Tract 16572	<b>Construction idled.</b>
San Juan Condominiums	Tent. Tract 16802	Final Tract Map reviewed and awaiting final plan submittals. Need surety bond; however, water development fees were paid on 7.25.07.
Habitat for Humanity	Tent. Tract 17027 Offsite water imp.	Under Construction.
Habitat for Humanity	Tent. Tract 17027 Onsite water imp.	<b>An item was sent to City Council on 3.18.08 to approve the final tract map and subdivision agreement.</b>
Capistrano Animal Rescue	SP-245	Construction pending scheduling by the applicant and locating building at possible new site. This will require revising plans and payment of any related fees.
Ortega Animal Hospital	SP-254	Construction complete and as-builts provided. Bonds have been released in association with close out of encroachment permit.

Koll San Juan (Old Developer was Zion-Vista San Juan Office Park)	SP-256	On 3.8.07 the Koll Company was issued a Will Serve letter to develop the site and on 6.20.07 was sent to the DAB for a work session review for General Plan consistency and Title 9, Land Use Code compliance. The Planning dept sent a follow up letter to the developer with the board members comments. On 9.5.07 the project was resubmitted to the DAB for rezone, grading plan modification, and conceptual improvement plan review.
Mammoth Professional Buildings	SP-257	Construction complete. One year warranty period, as-built mylars, and digital have been completed. Scheduling for acceptance by City Council the constructed public water improvement and the provided water easements.
Ortega Ranch	SP-259	Construction complete. One year warranty period, as-built mylars, and digital have been completed. Scheduling for acceptance by City Council the constructed public water improvement and the provided water easements.
JF Shea Therapeutic Riding Center	SP-262	Construction complete. Waiting for 1-year warranty period and submittal of the required digital submission, prior to acceptance of water improvements.
Ortega Hwy. Gas Station	SP-264	Under construction.
Saint Margaret's	SP-265, GPA 06-03	On 9.5.07 the project was sent to the DAB for General Plan Amendment and review of the St. Margaret's master plan. On 12.11.07 a worksession was sent to Planning Commission as an introductory item regarding the master plan for the sight; which, is to included the converting all onsite public water facilities to private water facilities to be maintain by St. Margaret's.
San Juan Law Center	SP-266	Construction complete.
Serra Plaza	PM-90-156	Construction complete. One warranty period has been honored and in process of scheduling acceptance of water facilities and release of water bonds.
Peppertree Bend Interconnect	TPM 93-129	Received and final entitlement approval from City of Laguna Niguel City Council and currently in public appeal process.
Distrito La Lovia	GPA 07-001, RZ 07-001	On 6.20.07 the project was sent to DAB and a follow up letter was sent to the developer by the Planning dept with the board members comments.
Ventanas Business Center	AC 07-01	<b>On 3.11.08 the project was sent to the Planning Commission to recommend approval of the TPM 07-002. The Planning Commission continued this item.</b> On 12.5.07 the project was sent back to DAB. The project was considered as a complete submittal and would be forwarded to TC, DRC, PC, and CC for consideration and approval. A conceptual water improvement plan has been submitted and PW Dept staff has met with applicant's engineer. Currently going through EIR approval process with the planning dept.
Boys and Girls Club -- Teen Center	AC 07-05	On 5.2.07 the project was sent to DAB and a follow up letter was sent on 5.11.07 to the developer by the Planning dept with the board members comments. The project was reviewed again by the DAB on 8.16.07 for corrections of previous DAB meeting.
Rancho Viejo Road Partners LLC (Endevco property)	APN 650-111-15, AC 07-023	<b>On 3.18.08 the project was sent to City Council to recommend a General Plan amendment to allow further approval process.</b> On 6.6.07 the project was sent to DAB and a follow up letter was sent to the developer by the Planning dept with the board members comments. On 9.19.07 the project was resubmitted to the DAB for architectural control, grading plan modification, and conceptual improvement plan review.

Centra Pointe (Marbella)	AC 06-17, TPM 2007-226	On 3.18.08 the project was sent to City Council to recommend an Ordinance to Amend the Comprehensive development Plan (CDP) 86-04. Conditions of approval have been forwarded to the planning dept and were included as part of the packet that was sent to the Planning Commission on 1.08.08 for review and comments for Architectural control (AC), Grading Plan Modification (GPM), Tree Removal Permit (TRP), and Tentative Parcel Map (TPM).
Solana Rincon (Capistrano Village Center - Friess Property Investments, Inc)	AC 06-13	Plans signed 3.3.08 and water development fees paid 3.5.08.
The Church in San Juan Capistrano, 32731 San Juan Creek Road (Zion Enterprises, LLC)	AC 05-04, CUP 05-09	On 1.08.08 the project was sent to the Planning Commission for processing an approval for the project.
Season's II Apartments, Simpson Housing Solutions, LLC		Plans pending signature and water development fees paid 2.21.08.
Villa Montana Apartments	APN 124-223-81	On 3.18.08 the project was sent to City Council to discuss processing project.

**FIELD OPERATIONS:**

**Water Production Report**

Please see the attached sheet that summarizes the February 2008 water production (Attachment 1).

**Field Report**

Please see the attached February 2008 field report (Attachment 2).

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**RECOMMENDATION:**

By motion, receive and file.


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Respectfully Submitted,

  
Cindy Russell  
Interim Public Works Director

Prepared By,

  
Eric P. Bauman  
Water Engineering Manager

- Attachments:
1. Water Production Report
  2. Field Report
  3. TTI Report of T3, Feb 26, 2008.

**CITY OF SAN JUAN CAPISTRANO - WATER DEPARTMENT, DAILY WATER PRODUCTION LOG**

Feb-08	Import Service Connections				Local Production				TOTAL POTABLE	RW Production			All Wells Subtotal (mg)	Total Production (mg)
	Master (CM 10)	SC-04	Del Obispo	Import Subtotal, mg	GWRP	Rosenbaum No. 1	North Open-Space	Dom-Well Subtotal (mg)		Hollywood 2A	MNWD Meter	TOTAL Recycled (mg)		
	FLOW	FLOW	FLOW		FLOW	FLOW	Prod.			FLOW	FLOW			
Prev Mo.	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	
1	0.04	0.00	0.00	0.04	0.00	0.60	0.00	0.60	0.64	0.32	0.00	0.32	0.92	0.96
2	2.75	0.06	0.00	2.80	0.00	0.70	0.44	1.14	3.94	0.01	0.00	0.01	1.15	3.96
3	3.76	0.00	0.00	3.76	0.00	0.61	0.53	1.13	4.90	0.00	0.00	0.00	1.13	4.90
4	3.16	0.00	0.00	3.16	0.00	0.48	0.35	0.83	4.00	0.15	0.00	0.15	0.98	4.15
5	4.26	0.00	0.00	4.26	0.00	0.58	0.51	1.09	5.35	0.09	0.00	0.09	1.18	5.44
6	2.75	0.00	0.00	2.75	0.00	0.45	0.38	0.84	3.58	0.00	0.00	0.00	0.84	3.58
7	1.77	0.00	0.00	1.77	0.00	0.58	0.50	1.09	2.85	0.00	0.00	0.00	1.09	2.85
8	1.85	0.00	0.00	1.85	0.00	0.60	0.53	1.13	2.98	0.00	0.00	0.00	1.13	2.98
9	1.61	0.00	0.00	1.61	0.00	0.57	0.44	1.01	2.62	0.00	0.00	0.00	1.01	2.62
10	2.24	0.00	0.00	2.24	0.00	1.19	0.25	1.43	3.67	0.00	0.00	0.00	1.43	3.67
11	3.40	0.00	0.00	3.40	0.00	0.22	0.69	0.91	4.31	0.27	0.00	0.27	1.18	4.57
12	4.61	0.00	0.00	4.61	2.05	0.28	0.43	2.75	7.37	0.51	0.00	0.51	3.27	7.87
13	2.17	0.00	0.00	2.17	2.42	0.59	0.49	3.50	5.67	0.68	0.00	0.68	4.18	6.35
14	2.17	0.00	0.00	2.17	1.33	0.42	0.34	2.06	4.25	0.39	0.00	0.39	2.47	4.64
15	1.87	0.00	0.00	1.87	1.69	0.55	0.43	2.67	4.54	0.07	0.00	0.07	2.75	4.62
16	2.29	0.00	0.00	2.29	0.85	0.72	0.55	2.12	4.41	0.17	0.00	0.17	2.29	4.58
17	3.14	0.00	0.00	3.14	0.00	0.48	0.37	0.85	3.99	0.00	0.00	0.00	0.85	3.99
18	4.49	0.00	0.00	4.49	0.00	0.64	0.49	1.13	5.62	0.16	0.00	0.16	1.30	5.79
19	4.01	0.00	0.00	4.01	0.00	0.58	0.45	1.03	5.04	0.14	0.00	0.14	1.17	5.18
20	4.12	0.45	0.00	4.57	0.00	0.58	0.45	1.03	5.60	0.27	0.00	0.27	1.29	5.87
21	3.48	0.63	0.00	4.11	0.00	0.59	0.45	1.04	5.15	0.00	0.00	0.00	1.04	5.15
22	3.63	0.62	0.00	4.25	0.00	0.55	0.44	0.99	5.25	0.00	0.00	0.00	0.99	5.25
23	3.30	0.63	0.00	3.93	0.00	0.56	0.46	1.01	4.94	0.15	0.00	0.15	1.16	5.09
24	1.67	0.61	0.00	2.27	0.00	0.53	0.43	0.96	3.24	0.00	0.00	0.00	0.96	3.24
25	1.68	0.70	0.00	2.38	0.00	0.64	0.46	1.09	3.47	0.14	0.00	0.14	1.23	3.61
26	0.06	0.60	0.00	0.66	0.44	0.64	0.00	1.08	1.74	0.00	0.00	0.00	1.08	1.74
27	2.03	0.52	0.00	2.55	0.00	0.53	0.00	0.53	3.08	0.00	0.00	0.00	0.53	3.08
28	3.27	0.69	0.00	3.95	0.00	0.63	0.00	0.63	4.58	0.00	0.00	0.00	0.63	4.58
29	3.27	0.69	0.00	3.95	0.00	0.63	0.01	0.63	4.59	0.30	0.00	0.30	0.93	4.89
Month Total	78.82	6.20	0.00	85.01	8.77	16.69	10.88	36.34	121.35	3.82	0.00	3.82	40.16	125.17
Maximum	4.61	0.70	0.00	4.61	2.42	1.18	0.69	3.50	7.37	0.68	0.00	0.68	4.18	7.87
Minimum	0.04	0.00	0.00	0.04	0.00	0.22	0.00	0.53	0.64	0.00	0.00	0.00	0.53	0.96
Average	2.72	0.21	0.00	2.93	0.30	0.58	0.38	1.25	4.18	0.13	0.00	0.13	1.38	4.32
Total in AF	241.90	19.02	0.00	260.91	26.93	51.22	33.38	111.53	372.44	11.72	0.00	11.72	123.25	384.16

Total Hours Available per month 1040	January		February	
	Tasks	Hours	Tasks	Hours
Mainline Leaks	1	280	2	20
Mainline Abandoned	0	0	0	0
Service Leaks	1	48	4	99
Services Replaced	0	0	4	44
Services Installed	0	0	0	0
Services Abandoned	0	0	0	0
Hydrants Installed	0	0	0	0
Hydrants Repaired	2	26	7	80
Hydrants Exercised /Flushed	7	5	0	0
Hydrants Replaced	0	0	1	18
Hydrants Reflectors Installed	0		0	0
Hydrants Painted	0	0	18	14
Valves Located	1	9	0	0
Valves Repaired	1	2	0	0
Valves Box Raised	0	0	0	0
Valves Replaced	1	40	0	0
Valves Installed	0	0	0	0
Valves Exercised	42	44	9	9
Meter Box Installation	4	10	6	32
Angle Stops replaced	1	21	6	89
Meter Install & Replace	6	24	3	13
Dead Ends Flushed	21	50	11	20
Inventory	0	0	0	0
Air Vacs Replaced	2	4	0	0
Air Vac Relocated	0	0	0	0
Main Line Shut Downs	7	0	5	0
Dump Runs	0	0	0	0
Air Vacs Installed	0	0	0	0
Miscellaneous Work Orders	23	63	15	49
Holidays	1	63	1	63
Sick Leave Hours	2	19	3	94
Vacation Hours	4	62	3	36
Administration Hours	7	101	4	131
Customer Service	2	6	3	5
Engineering Production	6	359	4	257
Building, Vehicles, Yard Maint	6	14	5	22
Safety Training	7	7	3	80
GWRP Flushing	6	30		
	<b>161</b>	<b>1,287</b>	<b>117</b>	<b>1,175</b>

## **AGENDA REPORT**

May 27, 2008

**TO:** Water Advisory Commission

**FROM:** Cindy Russell, Interim Public Works Director

**SUBJECT:** Consideration of Engineering and Field Operations Status Update for April 2008

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### **RECOMMENDATION:**

By motion, receive and file.

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The following is the status of current engineering and field operations activities for the Public Works Department Water Division:

### **ENGINEERING DIVISION:**

#### **Local Wells**

April 2008 well production at Rosenbaum No. 1 (R1) was 23.5 acre-feet (AF), North Open Space (NOS) was 43.3 AF production, and Hollywood Well 2A (HW2A) was 22.2 AF. Production was consistent at NOS & HW2A. R1 had a breakdown of the chlorination unit and was off from the 15<sup>th</sup> onward. A back up replacement part has since been ordered and placed in storage for future emergency.

#### **Cooks Reservoir Replacement**

Leak testing on the new reservoir indicated that the structure is more than meeting AWWA standards. The Cooks Reservoir lost 1080 gallons of water over a two week period. Allowable loss for a reservoir of this size is 607 gallons per day. The contractor has applied the exterior coating on the reservoir and has begun backfilling. The project is currently on schedule for a June 25, 2008 completion, which would meet the contractors contractual obligations.

The City's personal services agreement with Tetra Tech, Inc. for inspection, materials testing and construction management was originally written for an anticipated construction period of eleven months. The cost for these services is \$298,000. The anticipated project completion on June 25, 2008 will bring a final term of 13 months one week. Staff will bring an extension to the agreement in the amount of \$41,625 to City Council for approval at their June 3, 2008, meeting. A copy of the monthly progress report for Cooks Reservoir is available for review in the Public Works Department.

#### **Recycled Water Master Plan (RWMP)**

No change.

ITEM NO. 5



### **Recycled Water System Retrofits**

The first six converted sites are undergoing the final permit process from CDPH, SOCWA, and COHD and approval for delivery of recycled water. The next four sites are moved forward for related permit issue. A contract for the design of the next four sites is in the approval process.

Staff has received permission from MET to accept recycled water from SMWD to supply the San Juan Hills high school. This will allow the easy conversion of another 50 afa of recycled water. Once an agreement with SMWD can be finalized the conversion process can proceed.

### **High West Side (HWS) Pipeline Project**

Work on this project commenced on April 30<sup>th</sup> and is proceeding on schedule. The contractor J. De Sigio Construction, Inc. has begun implementing two crews to speed work and is expected to install approximately 700 L.F. per day. This should reduce the time of construction significantly. Staff has submitted an extra work request to the contractor for changes to the intertie at Stonehill Drive requested by South Coast Water District, installation of a valve and tee assembly for the proposed Belladonna development and replacement of the 10 inch valve on the supply line for Cooks Reservoir.

### **SCWD Interconnection at Palo Alto and Stonehill**

As part of the High West side line design, staff evaluated alternate means of reducing the cost of constructing and operating the line under normal and emergency conditions. In the southernmost section of the High West Side project (HWS), the City of Dana Point had a construction moratorium on Del Obispo from Stonehill to Bluefin, and even after the moratorium expiration in 2010 requires that the pavement be resurfaced from the edge of the pavement to the centerline of the pavement. Moreover, proceeding with the route originally conceived in the Domestic Water Master Plan (DWMP) and constructing before San Juan's resurfacing of Del Obispo from Bluefin north would have required that the lower portion be constructed as a separate phase. Of the alternatives analyzed, the lowest capital cost was to construct a new interconnection and meter with South Coast Water District (SCWD) at the intersection of Stonehill and Palo Alto. This alternative reduced the amount of 12 inch pipe by 1,480 feet, cut in half the cost of pavement resurfacing per lineal foot of pipe as the roadway at Palo Alto is only one lane – weight against the cost of a new meter vault. The savings are estimated at \$250,000. The South Coast Water District (SCWD) cannot use reciprocal service from San Juan at this point; however, with additional pipeline construction by SCWD it can join a service area of compatible hydraulic gradient which has only one source of water supply as well. It has in the future the option to do so via this agreement. The connection is intended for emergency use only, and it requires a manual turn-on and turn-off valve. An emergency is defined as an unusual disruption in service caused by a line break or construction activity that disrupts the normal means of providing service. The interconnection is interruptible if either agency is unable to provide water to the agency needing water. San Juan is designing, constructing and funding the interconnection as it is the one needing this interconnection.

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**Advanced Water Treatment (AWT) Joint Participation**

No change.

**Groundwater Recovery Plant (GWRP) Operation**

***Production:***

The GWRP has been off since February 2008. The plant operators, SouthWest Water Co. (SWWC) has determined that the reverse osmosis (RO) membranes must be replaced, and that the sand anthracite filters need to be replaced with greensand filters, along with replacing the existing greensand filters. This should result in less I&M fouling of the RO membranes, fewer clean in place operations, and as a result both a longer RO membrane life and a higher quality of water. The work is now projected for completion in late June 2008.

**Colored Water Issues**

Colored water complaints have dropped to less than 1 per week in April 2008. Based on the test results to date Trussell Technologies Inc. (TTI) has revised its testing protocol, which it will bring on line when the GWRP recommences operations in early late June 2008. The revised testing protocol will monitor the quality of the water produced by the GWRP as a whole and will also monitor the performance of one greensand filter cell from seeding to break point. Seeding occurs just after backwashing when the efficiency of the filter is lower than desirable. Break point occurs when the filter media is saturated and can no longer absorb iron or manganese and begins to pass the insoluble form (oxidized) through. The point of deliberately running the filters to the breakpoint is to better understand the metrics which can determine the optimal run time for the filters.

**Federal Grant Request**

No change.

**Proposition 50 Grant Requests**

The City recently revised its first invoice reimbursement on costs for the Recycled Water Transmission System Project based upon changes requested by the County of Orange. The revised invoice was submitted for \$250,000. The State Water Board is reviewing the pay request. Invoices will be sent quarterly.

**Low Interest Loan Application**

Staff is awaiting final determination of the Section 106 study being conducted by ESA, and approval of a resolution by the City Council to pursue the LILA before proceeding further. Staff will be requesting a change order to the ESA contract for the preparation of an Archeological Evaluation and Data Recovery Plan. This document will be necessary for the City to procure a Programmatic Agreement with SHPPO in order to access SRF funding for the RWMP projects.

**Chiquita Storage Reservoir/ Emergency Reliability**

No change. Boyle and Geopentec are proceeding with the design of the reservoir including the dam, the piping, inlet/outlet, and the pump station design with completion expected in March 2008.

**Joint SMWD / City 570 HGL Recycled Water Reservoir**

No change.

**SMWD / City Emergency Interconnection at Ortega Hwy and Antonio Pkwy.**

SMWD offered 2 cfs of temporary domestic supply from the SC04 turn out in exchange for 2 cfs of recycled supply. Staff recently received notification from MET that it would accept the use of SMWD recycled water, and allow a credit of \$150 / afa for the implementation of this recycled water use. The use at the San Juan Hills High School is estimated at 50 afa. This converts to a peak demand of 0.4 cfs. Staff does not expect significant additional use of the connection in the time frame considered. The value of 50 afa at \$150/ afa is \$7,500 per year; plus other collateral benefits of meeting LRP targets. Although not equivalent to the \$40,000 per cfs SCWD charges the City for interruptible peaking capacity at Del Obispo, this arrangement may prove more valuable in terms of developing interagency cooperation of shared recycled water facilities in the long term. Staff is seeking a formalization of terms with MET, concurrently with finalizing negotiations with SMWD on the temporary exchange.

**Ortega Highway Pipeline**

Adoption of a Mitigated Negative Declaration by the Council is expected in late May 2008. See the related item regarding the MND, approval of plans and specifications, and an agreement with the County to act as the Construction Manager. The pipeline engineer, HDR, has completed drawings and plans and specification for the eastern 2/3rds of the pipeline from the San Juan boundary to the Antonio Parkway, obtained permits from Cal Trans. The eastern portion is scheduled for bidding by the County of Orange, in August 2008.

**Water Rights Application**

No change. The City's water rights attorney has written a letter to the State Water Resources Control Board, requesting an extension of time to complete San Juan's application for water rights, which would require 1) habitat augmentation, 2) creek channelization to promote trout, and guaranteed maximum flows. See Attachment 3.

**SMWD Recycled Seasonal Storage Reservoir**

No change.

**MTBE in Groundwater**

No change. Chevron proposed to remediate the groundwater contamination by providing well head treatment at the Dance Hall well. The treatment is proposed to consist of a greensand filtration process (to prevent iron and manganese fouling of the GAC) followed by a Granulated Activated Carbon (GAC) system to remove the MTBE to non-detect levels. The Dance Hall product water from the GAC treatment would be suitable to put

into the GWRP treatment process at the headwork's of the GWRP. This system would have to be integrated with the operations of the GWRP by Southwest Water Co. - negotiations with SWC to operate the system are pending. First, Chevron needs an analysis of the ability of Dance Hall to capture all of the MTBE contaminated ground water. To create a model to evaluate this plan, a 72-hour pump test was conducted in mid April 2008. The test along with detailed groundwater measurements will allow a model of the local groundwater system that can predict the ability of Dancehall to remove all the water impacted by MTBE.

Chevron is proposing to implement the Greensand / GAC filtration in its interim remediation action plan (IRAP) and is reportedly pursuing development of this system concurrently with the conduct of the groundwater modeling to validate this as the full treatment methodology.

On Friday, May 8, 2008, staff held a kick-off meeting for the work by Haley and Aldrich (H&A) for the site assessment, permitting, and removal of the three underground storage tanks at the Kinoshita Farm, adjacent to the Kinoshita well. The City Council approved the contract with H&A at its meeting of May 6, 2008.

Additionally the City Council approved the second year contract with PSOMAS for the MTBE related work items including: 1) Update presentation to the Commission and the Council of MTBE work; 2) Providing oversight to the tank removal at Kinoshita farms; and, 3) Providing assistance in the evaluation MTBE treatment methods.

#### **Examination of Terminal Reservoir No. 2 (T2)**

No change.

#### **Terminal Reservoir No. 3 (T3)**

No change. Staff filled T3 in mid April 2008, and should have T3 back on line by late April. The displacement sensors will be installed by a diver in early May 2008.

#### **Metropolitan Water District (MET) Peaking Charges**

The method of apportioning the peaking charges on the MET system is based on the proportionate share of the monthly demand multiplied by demand on MET's system meter during MET's peak day. The net impact of this is that agencies on shared MET meters can peak, and yet not pay their fair share of peaking if their percentage of the total months use is not proportional to their peak demand for the month. The end result of this was that San Juan has been assessed for 19.94 cfs of peaking capacity from the CM-10 system that feeds the master meter for the next 3 years, when in fact its peak was 9.3 cfs on MET's peak day for September 4, 2007. The excess peaking charge for the over apportionment of 10.64 cfs is \$4,950 / cfs of peak demand. This works out to \$52,660 per year for the next 3 years for a total cost of \$158,000 over the next 3 years. This had not shown up previously, since this method yielded a peaking value commensurate with San Juan's historical use data from previous years. Since changing the rules retroactively is difficult if not impossible; staff is pursuing negotiations with the Joint Regional Water Supply System (JRWSS) participants to change the way the

JRWSS line is operated and the peaking charges are apportioned going forward.

**Placida Habitat Restoration Project**

No change. The restoration work was completed in December 2007. The 3-month maintenance is completed, with a successful establishment of native plants. Staff is pursuing a long term evaluation and maintenance contract.

**DEVELOPMENT PLAN REVIEW - (ongoing)**

Project	Tract/Project No.	Status
Mesa Development	VTM 14343	DAB reviewed on 5.7.08 regarding a General Plan Amendment (GPA) 07-01 and Rezone (RZ) 07-01. Planning dept will follow up with a letter to the applicant addressing incomplete items.
San Juan Hills High School	Tract 15571	Construction complete.
Pacifica San Juan (aka Sun Cal.) On-site improvements	Tr. 14196	Construction idled.
Pacifica San Juan (aka Sun Cal.)	Tr. 15609	Construction idled.
Pacifica San Juan (aka Sun Cal.)	Tr. 15687	Construction idled.
Pacifica San Juan (aka Sun Cal.)	Tr. 16747	Construction complete.
Pacifica San Juan (aka Sun Cal.)	Tr. 16748	Construction idled.
Pacifica San Juan (aka Sun Cal.)	Tr. 16749	Construction idled.
Pacifica San Juan (aka Sun Cal.)	Tr. 16750	Construction idled.
Pacifica San Juan (aka Sun Cal.)	Tr. 16751	Construction idled.
Pacifica San Juan (aka Sun Cal.)	Tr. 16752	Construction idled.
16" line crossing the I-5 from Camino Capistrano to the CUSD property (North R&D site).	Tract 15686	Construction complete. As-built plans submitted. Staff will schedule for City Council acceptance completion of adjacent water improvements.
Del Avion Gardens (CA Development, LLC - new developer).	Tract 15924	Final development plans, letter of assignment, and replacement bonds submitted by CA Development, L.L.C. Developer to schedule start of construction of water improvements.
Village Alipaz Ph. III, Alipaz, LLC	Tract 16168	In plan check and pending payment of water development fees.
Belladonna Estates	Tract 16146	The applicant starting design of civil improvements.
Rancho Madrina	Tract 16221	Construction complete.
Whispering Hills Development (Via Montana of east canyon)	Tract 16634	Under construction.
Whispering Hills Development (East Canyon)	Tract 16634	Plans are approved, fees paid, and bonds have been provided by developer. Progress pending construction of water improvements.
Whispering Hills Development (West Canyon)	Tract 16634	Plan check completed on west water improvements and waiting for applicant to resubmit corrected plans for review.
Whispering Hills Development (East / West Connection)	Tract 16634	Under Construction.
Hidden Creek Estates	Tent. Tract 16572	Construction idled.
San Juan Condominiums	Tent. Tract 16802	Final Tract Map reviewed and awaiting final plan submittals. Need surety bond; however, water development fees were paid on 7.25.07.
Habitat for Humanity	Tent. Tract 17027 Offsite water imp.	Under Construction.
Habitat for Humanity	Tent. Tract 17027 Onsite water imp.	Improvement plans were signed on 1/17/8. Developer to schedule start of water improvements. Council to approve the final tract map and subdivision agreement o 3.18.08.

Capistrano Animal Rescue	SP-245	Construction pending scheduling by the applicant and locating building at possible new site. This will require revised plans and payment of any related fees.
Ortega Animal Hospital	SP-254	Construction complete and as-builts provided. Bonds have been released in association with close out of encroachment permit.
Koll San Juan (Old Developer was Zion-Vista San Juan Office Park)	SP-256	On 3.8.07 the Koll Company was issued a Will Serve letter to develop the site.
Mammoth Professional Buildings	SP-257	Construction complete. One year warranty period, as-built mylars, and digital submission completed. Scheduling for acceptance by Council of the public water improvement and the water easements.
Ortega Ranch	SP-259	Construction complete. One year warranty period, as-built mylars, and digital submission completed. Scheduling for acceptance by Council of the constructed water improvements and water easements.
JF Shea Therapeutic Riding Center	SP-262	Construction complete. Waiting for 1-year warranty period and submittal of the required digital submission, prior to acceptance of water improvements.
Ortega Hwy. Gas Station	SP-264	Under construction.
Saint Margaref's	SP-265, GPA 06-03	In DAB process.
San Juan Law Center	SP-266	Construction complete.
Serra Plaza	PM-90-156	Construction complete. One year warranty period complete. Scheduling acceptance of water facilities and release of water bonds.
Peppertree Bend Interconnect	TPM 93-129	Received and final entitlement approval from City of Laguna Niguel City Council and currently in the San Juan Capistrano planning has sent a draft of the settlement agreement.
Birtcher Residence	TPM 08-002	DAB to review on 5.21.08 a proposed two lot subdivision.
Distrito La Lovia	GPA 07-001, RZ 07-001	DAB reviewed on 5.7.08 regarding a General Plan Amendment (GPA) 07-01 and Rezone (RZ) 07-01. Planning dept will follow up with a letter to the applicant addressing incomplete items.
Ventanas Business Center	AC 07-01	City Council conditionally approved the project on 5.6.08.
Boys and Girls Club - Teen Center	AC 07-05	1st plan check completed.
Rancho Viejo Road Partners LLC (Endevco property)	APN 650-111-15, AC 07-023	In DAB process.
Centra Pointe (Marbella)	AC 06-17, TPM 2007-226	In DAB process.
Solana Rincon (Capistrano Village Center - Friess Property Investments, Inc)	AC 06-13	Under construction.
The Church in San Juan Capistrano, 32731 San Juan Creek Road (Zion Enterprises, LLC)	AC 05-04, CUP 05-09	1st plan check completed on 4.11.08.
Season's II Apartments, Simpson Housing Solutions, LLC	APN 666-241-07	Plans signed 3.19.08 and water development fees paid 2.21.08. Developer to schedule start of water improvements.
Villa Montana Apartments	APN 124-223-81	On 3.18.08 the project was sent to City Council to discuss processing project.

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**FIELD OPERATIONS:**

**Water Production Report**

Please see the attached sheet that summarizes the April 2008 water production (Attachment 1).

**Field Report**

Please see the attached April 2008 field report (Attachment 2).

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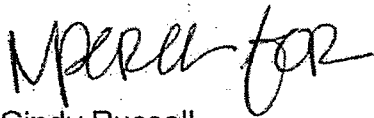
**RECOMMENDATION:**

By motion, receive and file.

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Respectfully Submitted,



Cindy Russell  
Interim Public Works Director

Prepared By,



Eric P. Bauman  
Water Engineering Manager

- Attachments:
1. Water Production Report
  2. Field Report
  3. Letter to SWRCB

**CITY OF SAN JUAN CAPISTRANO - WATER DEPARTMENT, DAILY WATER PRODUCTION LOG**

Date	Import Service Connections				Local Production				TOTAL POTABLE	RW Production			All Wells Subtotal (mg)	Total Production (mg)
	Master (CM 10)	SC-04	Del Obispo	Import Subtotal (mg)	GWRP	Rosenbaum No. 1	North Open-Space	Dom-Well Subtotal (mg)		Hollywood 2A	MNWD Meter	TOTAL Recycled (mg)		
	FLOW	FLOW	FLOW		FLOW	FLOW	Prod.			FLOW	FLOW			
Apr-08	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)	TOTAL (mg)		
Prev Mo.														
1	6.93	0.79	0.00	7.71	0.00	0.56	0.50	1.06	8.77	0.00	0.00	0.00	1.06	8.77
2	6.23	0.85	0.00	7.08	0.00	0.51	0.53	1.03	8.11	0.00	0.00	0.00	1.03	8.11
3	6.63	0.99	0.00	7.62	0.00	0.59	0.46	1.05	8.68	0.00	0.00	0.00	1.05	8.68
4	5.40	1.02	0.00	6.42	0.00	0.55	0.55	1.10	7.52	0.00	0.00	0.00	1.10	7.52
5	5.36	0.94	0.00	6.30	0.00	0.58	0.54	1.12	7.41	0.00	0.00	0.00	1.12	7.41
6	5.73	1.11	0.00	6.84	0.00	0.60	0.55	1.15	7.99	0.00	0.00	0.00	1.15	7.99
7	5.80	0.82	0.00	6.62	0.00	0.59	0.54	1.13	7.75	0.00	0.00	0.00	1.13	7.75
8	5.83	0.98	0.00	6.81	0.00	0.59	0.51	1.10	7.90	0.33	0.00	0.33	1.43	8.23
9	5.86	1.04	0.00	6.90	0.00	0.51	0.45	0.96	7.86	0.13	0.00	0.13	1.09	7.98
10	8.90	0.84	0.00	9.74	0.00	0.62	0.55	1.17	10.91	0.43	0.00	0.43	1.60	11.34
11	6.65	0.67	0.00	7.33	0.00	0.45	0.42	0.87	8.21	0.18	0.00	0.18	1.06	8.39
12	8.49	0.99	0.00	9.48	0.00	0.58	0.55	1.14	10.62	0.42	0.00	0.42	1.55	11.03
13	5.24	3.07	0.00	8.31	0.00	0.41	0.37	0.77	9.09	0.00	0.00	0.00	0.77	9.09
14	7.30	2.03	0.00	9.33	0.00	0.48	0.52	1.00	10.33	0.24	0.00	0.24	1.24	10.57
15	6.96	1.46	0.00	8.42	0.00	0.04	0.50	0.53	8.96	0.19	0.00	0.19	0.72	9.14
16	8.75	2.79	0.00	11.54	0.00	0.00	0.51	0.51	12.05	0.20	0.00	0.20	0.70	12.25
17	9.46	2.58	0.00	12.04	0.00	0.00	0.41	0.41	12.45	0.54	0.00	0.54	0.95	12.99
18	7.17	2.27	0.00	9.44	0.00	0.00	0.43	0.43	9.87	0.38	0.00	0.38	0.81	10.25
19	4.97	1.58	0.00	6.55	0.00	0.00	0.50	0.50	7.06	0.50	0.00	0.50	1.00	7.56
20	8.98	1.58	0.00	10.56	0.00	0.00	0.39	0.39	10.95	0.42	0.00	0.42	0.82	11.37
21	7.86	1.58	0.00	9.44	0.00	0.00	0.73	0.73	10.17	0.26	0.00	0.26	0.99	10.43
22	2.80	2.51	0.00	5.31	0.00	0.00	0.51	0.51	5.82	0.42	0.00	0.42	0.93	6.24
23	5.51	2.51	0.00	8.02	0.00	0.00	0.43	0.43	8.46	0.59	0.00	0.59	1.03	9.05
24	5.51	2.51	0.00	8.02	0.00	0.00	0.39	0.39	8.41	0.47	0.00	0.47	0.86	8.88
25	7.91	2.80	0.00	10.71	0.00	0.00	0.40	0.40	11.11	0.00	0.00	0.00	0.40	11.11
26	8.06	2.05	0.00	10.11	0.00	0.00	0.36	0.36	10.47	0.66	0.00	0.66	1.02	11.12
27	8.80	2.11	0.00	10.90	0.00	0.00	0.47	0.47	11.38	0.32	0.00	0.32	0.79	11.70
28	9.78	1.86	0.00	11.63	0.00	0.00	0.45	0.45	12.08	0.03	0.00	0.03	0.48	12.11
29	9.10	2.05	0.00	11.15	0.00	0.00	0.58	0.58	11.73	0.35	0.00	0.35	0.93	12.07
30	8.11	1.82	0.00	9.93	0.00	0.00	0.00	0.00	9.93	0.18	0.00	0.18	0.18	10.11
Month Total	210.07	50.19	0.00	260.26	0.00	7.64	14.12	21.76	282.02	7.23	0.00	7.23	28.99	289.25
Maximum	9.78	3.07	0.00	12.04	0.00	0.62	0.73	1.17	12.45	0.66	0.00	0.66	1.60	12.99
Minimum	2.80	0.67	0.00	5.31	0.00	0.00	0.00	0.00	5.82	0.00	0.00	0.00	0.18	6.24
Average	7.00	1.67	0.00	8.68	0.00	0.25	0.47	0.73	9.40	0.24	0.00	0.24	0.97	9.64
Total in AF	644.72	154.04	0.00	798.76	0.00	23.46	43.33	66.79	865.55	22.19	0.00	22.19	88.97	887.73



Total Hours Available per month 1040	January		February		March		April	
	Tasks	Hours	Tasks	Hours	Tasks	Hours	Tasks	Hours
Mainline Leaks	1	280	2	20	5	293	2	112
Mainline Abandoned	0	0	0	0	0	0	0	0
Service Leaks	1	48	4	99	5	90	6	221
Services Replaced	0	0	4	44	2	42	4	106
Services Installed	0	0	0	0	0	0	2	102
Services Abandoned	0	0	0	0	0	0	1	18
Hydrants Installed	0	0	0	0	0	0	0	0
Hydrants Repaired	2	26	7	80	3	52	4	23
Hydrants Exercised /Flushed	7	5	0	0	43	54	0	0
Hydrants Replaced	0	0	1	18	0	0	2	36
Hydrants Reflectors Installed	0		0	0	0	0	0	0
Hydrants Painted	0	0	18	14	20	19	0	0
Valves Located	1	9	0	0	2	4	0	0
Valves Repaired	1	2	0	0	0	0	2	54
Valves Box Raised	0	0	0	0	0	0	0	0
Valves Replaced	1	40	0	0	0	0	0	0
Valves Installed	0	0	0	0	0	0	1	12
Valves Exercised	42	44	9	9	20	23	33	61
Meter Box Installation	4	10	6	32	3	4	0	0
Angle Stops replaced	1	21	6	89	2	26	2	21
Meter Install & Replace	6	24	3	13	6	38	7	58
Dead Ends Flushed	21	50	11	20	6	7	40	72
Inventory	0	0	0	0	0	0	0	0
Air Vacs Replaced	2	4	0	0	0	0	2	4
Air Vac Relocated	0	0	0	0	0	0	0	0
Main Line Shut Downs	7	0	5	0	10	0	14	0
Dump Runs	0	0	0	0	0	0	14	34
Air Vacs Installed	0	0	0	0	0	0	0	0
Miscellaneous Work Orders	23	63	15	49	2	42	20	43
Holidays	1	63	1	63	0	0	0	0
Sick Leave Hours	2	19	3	94	6	63	4	39
Vacation Hours	4	62	3	36	5	41	1	18
Administration Hours	7	101	4	131	1	70	1	83
Customer Service	2	6	3	5	2	13	4	11
Engineering Production	6	359	4	257	7.00	353	4	238
Building, Vehicles, Yard Maint	6	14	5	22	4	26	6	26
Safety Training	7	7	3	80	7	7	7	12
GWRP Flushing	6	30	0	0	0	0	0	0
	<b>161</b>	<b>1,287</b>	<b>117</b>	<b>1,175</b>	<b>161</b>	<b>1,267</b>	<b>183</b>	<b>1,404</b>

# STAFF REPORT

October 27, 2009

TO: Utilities Commission  
FROM: Joe Tait, Interim Utilities Director  
SUBJECT: Utilities Department Status Update

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**RECOMMENDATION:** By motion, Receive and File

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## **ADMINISTRATION:**

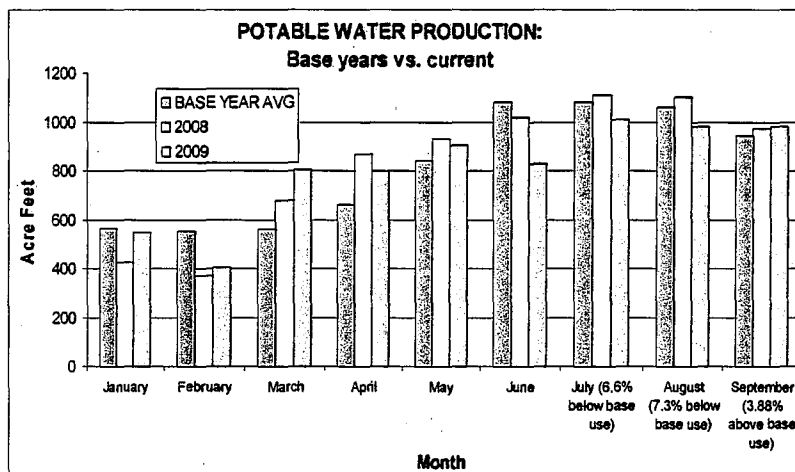
### **Rate Study**

City Council approved a professional services agreement with Black & Veatch (B&V) at the January 20, 2009, Council Meeting. B&V is performing the rate study for City utilities which includes sewer, water and storm water. Staff submitted numerous amounts of data requested by B&V and will be participating in upcoming meetings. B&V is currently analyzing available data.

### **Drought and Allocations Update**

The City must achieve 8-10% mandatory reduction for the period July 2009 through June 2010. Below is a graph of total water production for the first nine months of 2009, compared with the same period in 2008, and with the base years' actual use.

Mandatory cutbacks began July 1, 2009, and San Juan Capistrano's production was about 6.6% below the base years for July. August figures continued the looked-for decline, showing a reduction of 7.3% below the base years, which (when the growth factor and other adjustments are applied) meets or exceeds the reduction demanded by Metropolitan. September's water use was higher than the base years but cumulatively San Juan Capistrano is still roughly 1% below the target. The final figure for the City's actual baseline is still being worked out in discussions with MWDOC.



ITEM NO. 3

**ENGINEERING AND OPERATIONS:**

**WATER**

**Training**

City staff is currently attending College classes in keeping with their State license requirement. Collections class: Tom Johnson, Billy McMurray, Frank Sanchez, Filemon Hernandez, Max Osorio, Jimmy Uribe, Jose Lopez, and Reggie Fries. Math class: Jeff Romero, Jose Lopez, and Reggie Fries. Recycled Water; Neil Brand. CA Water Resources: Josh Lopez and Jordan Velasco. Advanced Water Distribution: Josh Lopez and Jordan Velasco. Advanced Water Treatment: Glenn Garrett.

**Local Wells**

The local well production for September 2009 was, Rosenbaum 0 af/ 0 MG, North Open Space 16.9 af/ 5.51 MG, and Hollywood 2A 17.0 af/ 5.53 MG. Low ground water continues to limit productivity of the wells.

**Groundwater Recovery Plant (GWRP)**

**SCADA:**

Staff has received approval from both the Design Review Committee and the Planning Commission to construct a 35 foot radio antennae located at the Krum reservoir site. Greek's Concrete Co. has been hired to install the foundation for the antennae. Completion for the installation is expected by the end of September.

**Production:**

Production for August 2009 was fair at 131.89 Acre Feet; the plant ran at a consistent average of 2.44 million gallons per day (mgd) when operational. The GWRP was down for the replacement of its membranes from the 18<sup>th</sup> of August onward. There were several plant shut downs needed for routine chemical system maintenance. Staff has removed and in the membranes from train "B" and placed them into train "A". This was done while the routine replacement of 2nd stage membranes was taking place, as this train has not been operated since the City took over operations of the plant. Staff was concerned that there may be problems with this unit and taking a proactive approach decided it to be most prudent see if this was true. Upon start up of this train operational problems were encountered and staff is working to make the necessary corrections. Staff is going to go to the City Council with a request for the purchase new membranes for train "B". This will allow for the continued operation of the plant if a incident occurs during the operation of train "A" and to be ready for once the easterly well project is complete.

**Plant Operations:**

Staff is currently working on plant logic upgrades that include portions of the SCADA operating system. Staff is also working with the City IT group to partner in starting work on the CIP project to upgrade the GWRP to a daily capacity of 7 MGD.

**Production Wells:**

Staff sent a bid out for the installation of the VFD motors on the GWRP production wells SJBA 2 and CVWD 1. The successful bid of DAP Electric Inc will be brought before the City Council at the October 20, 2009, meeting. Upon completion of this project, the GWRP production system will be able to more efficiently pump raw water from the well field. This will also allow for greater water quality optimization and help reduce treatment costs. With the cleanup of the Kinoshita Farms MtBE and after completion of test well analysis, staff plans to bring the Kinoshita well back into the GWRP supply, and will be monitoring it's MtBE levels bi-weekly. Currently the Tirador well is operating successfully with its new VFD controls.

**MtBE in Groundwater near the Dance Hall Well**

**No change.** The City's Consultant, Geoscience Support Services (GSI), completed its analysis of the Chevron MtBE plume modeling using the model developed and provided by Chevron. City staff continues to hold Chevron to treating any of the City wells with the granular activated carbon once those wells become exposed to MtBE. Chevron is considering the non-detect limits. City staff and Chevron are working towards a memorandum of understanding in order for Chevron to start using the Dance Hall Well as the Interim Remedial Action Plan (IRAP) MtBE treatment source. The City remains optimistic that an interim or final agreement will be made with Chevron and that the treatment of the Dance Hall well will occur.

**MtBE in Groundwater near Kinoshita Well**

No change. Nino & Moore completed the installation of the monitoring wells on week of June 8, 2009; conducted the groundwater sampling and testing the week of June 29, 2009; and submitted the report for the monitoring well installation and first quarter report to OCHCA on July 23, 2009. N&M completed and submitted the quarterly sampling report on September 9, 2009. And will follow with the remaining reports in December 2009, and March 2010. Staff is in the process of negotiating reparations to South Coast Farms for damage to its structures.

**Eastern Wells and Pipeline Project**

**Well Development:** Well 5A Complete. South Cooks Well is in the process of development and testing.

**Pipelines:** Discussions with the owners (Buie Communities) of the office park through which the pipeline must be routed led to the redesign of the alignment of the pipeline. The new alignment minimizes construction impacts to the offices parking areas by having a portion run through Ortega Equestrian Center stables which lie on City property. The stables operators have been contacted and are in agreement with the

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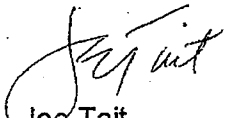
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**RECOMMENDATION:** By motion, Receive and File

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Respectfully Submitted,



Joe Tait  
Interim Utilities Director

JT/cc

Attachment: 1. Agenda item.



**COUNTY OF ORANGE  
HEALTH CARE AGENCY**

**PUBLIC HEALTH SERVICES  
ENVIRONMENTAL HEALTH**

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DIRECTOR**

**DAVID M. SOULELES, MPH  
DEPUTY AGENCY DIRECTOR**

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*Excellence  
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February 4, 2008

Natasha Molla  
Chevron Environmental Management Company  
145 S. State College Blvd.  
Brea, CA 92822-2292

**Subject: Interim Remedial Action Plan**

**Re: Chevron Station #9-3417  
32001 Camino Capistrano  
San Juan Capistrano, CA  
OCHCA Case #89UT027**

Dear Ms. Molla:

The Orange County Local Oversight Program (OCLOP) has been notified by the City of San Juan Capistrano (CSJC) that the Dance Hall well detected MTBE at 1.2 ppb sampled on January 9, 2008 and again at 1 ppb sampled on January 16, 2008. The OCLOP is concerned that the Dance Hall well detected MTBE during multiple sampling events. At present MTBE has been detected below the secondary maximum contaminant level at 5ppb. Based on review of recent groundwater monitoring results from 4<sup>th</sup> quarter 2007, the OCLOP has the following comments that must be addressed:

1. An interim remedial action plan must be submitted to the OCLOP within 45 days of your receipt of this letter to mitigate the MTBE plume.
2. A Corrective Action Plan (CAP) must be prepared and submitted to the OCLOP along with the site conceptual model that is forthcoming once additional pending site investigations have been completed. The CAP must address the MTBE plume and mitigate its impact to the City's Dance Hall well.
3. Monthly sampling of well clusters MW-15 and MW-16 must be continued as soon as wells MW-15D and well cluster MW-16 A/B/C/D are installed and developed. The OCLOP requires you to initiate weekly sampling of the well clusters MW-14 through MW-16 when the Dance Hall well becomes operational.

**EXHIBIT 8**

Natasha Molla  
February 4, 2008  
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If you have any questions, please call Shyamala Sundaram at (714) 433-6262 or Anthony Martinez at (714) 433-6260.

Sincerely,

K. Shyamala

Shyamala K. Sundaram  
Hazardous Waste Specialist  
Hazardous Materials Management Section  
Environmental Health



Anthony F. Martinez, PG #6948  
Supervising Hazardous Waste Specialist  
Hazardous Materials Management Section  
Environmental Health

cc: David W. Herzog, Conestoga-Rovers & Associates, Roseville, CA  
Eric Bauman, City of San Juan Capistrano  
Michael P. Donovan, PSOMAS  
Sue Pease, San Diego Regional Water Quality Control Board

MINUTES  
January 22, 2008  
Regular Meeting  
City of San Juan Capistrano  
Water Advisory Commission

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**CALL TO ORDER:**

8:01 a.m. in the City Council Chamber.

**ROLL CALL:**

COMMISSIONERS PRESENT: Chairman Jack Zepp, Vice Chairman Alan Freisleben, Lee Goode, Tom Lytle, and Dan Merkle.

STAFF PRESENT: Cindy Russell, Assistant City Manager/Interim Public Works Director; Eric Bauman, Water Engineering Manager; Eric Joseph, Water Operations Manager; Ziad Mazboudi, Sr. Civil Engineer; Michelle Perea, Commission Secretary; and Christine Casper, Administrative Specialist.

**ORAL COMMUNICATIONS:** None

**ITEMS RECEIVED TOO LATE TO BE AGENDIZED:** None

**CONSENT CALENDAR:**

Item No. 1 Approve Regular Meeting Minutes of December 18, 2007

Commission Action

*Moved by Commissioner Goode, seconded by Commissioner Lytle, and carried unanimously, 5-0, to approve Item No. 1.*

**AGENDA ITEMS:**

Item No. 2 Consideration of Engineering and Field Operations Status Update for December 2007

Written Communication: Staff report dated January 22, 2008, by Cindy Russell, Assistant City Manager/Interim Public Works Director. Staff recommendation: "By motion, Receive and File."

Presentation and Discussion: Eric Bauman, Water Engineering Manager, reviewed the staff report and was available to answer any questions.

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Mike Donovan, PSOMAS, informed the Commission that he received an electronic report from Chevron on January 16, 2008. The report contained a substantial amount of data from the well sampling; however, he expressed that there was not enough analysis of the data, and there appeared to be misstatements or errors in the report regarding prior water usage in the groundwater basin. He stated that the report indicated that the groundwater in the basin had only recently been used in 2004, and in the report, Chevron did not recognize that it had been used historically for a substantial amount of time. He anticipated that a report such as this would include a requirement to develop a conceptual site model that shows the overall description of how the contaminants are present, how they move, and how the groundwater system is operating. He continued that Chevron used a 5 micrograms per liter (mcg/l) definition as the point which defines the extent of the contaminant plume, but generally you would use a lateral and vertical extent, at which non-detect was reached to define the extent of the contaminant plume. In Mr. Donovan's opinion, the Chevron report only briefly touched on the elements of the site conceptual model and did not completely describe it. He expressed to the Commission the importance of this model and that it is a requirement of the State Water Resources Control Board. Mr. Donovan stated that he had other minor issues with the report, and he anticipates that his comments should be completed by the end of the day.

Mr. Donovan stated that per Chevron's report, the plume has been defined only on the leading edge. It had not been defined on the western, eastern or vertically on the leading edge of the plume. The last data value indicated the plume was detected from the well located at the Vons shopping center, which was 8 mcg/l. The latest samples are from late December and that information was not included. It was noted that the Dance Hall Well had detected MTBE at 1mcg/l to 1.2 mcg/l as of last week. Eric Bauman, Water Engineering Manager, indicated that in a previous MTBE test, the constituent was detected, and then retested, with the result being a non-detect.

Commissioner Dan Merkle requested that staff forward the Commission the reports from both Chevron and PSOMAS electronically.

Natasha Molla, Chevron, informed the Commission that Chevron is working with City staff to schedule the drilling of wells identified as MW16. The wells will be located in the City Hall parking area. A deeper well identified as 15D will be added to the MW15 wells. Chevron's CPT work plan has been approved by Orange County Health and they are working to gain access from property owners to get the east and west of the plume delineated for the Camino Capistrano site. In regards to the Del Obispo site, Chevron has submitted an alternative location work plan to the County and the City, as they are unable to negotiate access from Mr. Stroscher. Chevron has a meeting tomorrow with the Regional Board, the County, and the City to discuss alternative locations and other options to move forward on the Del Obispo site. Ms. Molla stated that the draft report

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submitted to the City was not intended to be a final assessment. She stated that a site conceptual model would be forthcoming by Chevron once more data is collected.

Commissioner Merkle questioned Ms. Molla about the pace and effort of the project, as he believes that it is unacceptable. She responded that at the last Commission meeting, Mr. Donovan reported that their pace was acceptable and the City believed so as well. Chevron has currently obtained over 100 data points, which is more than most companies perform in 2 years on a site. She feels that Chevron has moved at an expedited pace, and she has not heard that Chevron's pace is unacceptable. She stated that there is a lot of work to be done, and a big area to work in. She stated that Chevron needs to chase the plume in order to define it.

Commissioner Merkle expressed his concern that Chevron is "chasing" the plume instead of being in front of it. In mid-2007, the Commission considered MTBE a potential unacceptable impact to the City. With MTBE now being detected in the Dance Hall Well, this provides an indication that the contaminant continues to move at a pace that is an issue. Mr. Merkle expressed that the Commission has been very clear about their expectations, and speaking for himself, he is not pleased or accepting of Chevron's pace. Mr. Merkle believes that at every Commission meeting, he has expressed the disappointment of the pace that Chevron is moving at. He questioned Chevron regarding a mitigation plan now that MTBE has been found in the Dance Hall Well.

Ms. Molla explained that Chevron has met with the City and discussed possible options of setting up a meeting with contractors. Mr. Merkle inquired if the work was in planning or actually being done. Ms. Molla responded it may be necessary to meet with the City's contractor of the Ground Water Recovery Plant (GWRP), ECO, to understand how the well system works. This process takes time since permits and approvals may be necessary. Chairman Zepp asked why Chevron could not obtain the information on the well system from City staff. Ms. Molla believed that Chevron would need to obtain the information from ECO.

Chairman Zepp stated that the work that Chevron is doing appears to be taking longer than it should. Now that there are pollutants in the Dance Hall Well, Chairman Zepp asked what is needed to speed up the process. He extended that if Chevron needs any assistance in getting information to help expedite obtaining data, City staff and the Commission will be happy to assist. Chairman Zepp also questioned Ms. Molla if a heavy rainy season could affect the flow of the plume. She responded that it is possible.

Eric Bauman provided a broad analysis of information with regards to the cost of removal of MTBE. From the information he had gathered from like projects, his estimated range in cost is \$1.00/1000 gallons to \$2.00/1000 gallons. The systems

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analyzed were ultraviolet/peroxide, ozone peroxide and electron beam treatment methodologies.

Commissioner Merkle asked if the City had any plans to deal with the MTBE detection in the Dance Hall Well. Mr. Bauman stated that the levels detected are very low and staff is evaluating the test data. Other wells in the City are being tested and that there was a detection of MTBE in the Kinoshita Well; however a second test resulted in non-detection. Vice Chairman Alan Freisleben inquired about the testing of tap water. Mr. Bauman indicated that the GWRP water has not been tested since the water is blended. Chairman Zepp asked if the Dance Hall Well needed to be shut down. Staff explained that a shut down is not required at this time since the level of MTBE is way below 13 mcg/l. Staff will be meeting with the California Department of Public Health (CDPH) to show them the data and review the City's testing schedule.

Dan Merkle questioned staff about a communication plan to inform the public about the MTBE found in the Dance Hall Well. Staff indicated that a plan is currently being developed, with a press release and informational items available on the City's website.

Chairman Zepp inquired about the possible contamination of all of the City's wells, and Mr. Donovan did believe that it was possible, although the City's main well field is a substantial distance from the plume and would have to travel an extensive distance. Mr. Donovan stated that it may take years to reach all of the wells. Chairman Zepp asked if the back end of the plume would ever dissipate into the aquifer. Mr. Donovan is not clear if all of the source area has been completely cleared up, and if there is no more source contributing to the plume, then it should dilute during the course of time. He does not know if it will dilute sufficiently before the Dance Hall Well will be impacted above the standards. He anticipates that the forthcoming analysis from Chevron should cover this matter.

Commissioner Merkle referenced page 2, first paragraph of the December 18, 2007, Commission minutes, whereas Karen Schmitt from Geosyntec reported that sampling of the MW-15 wells will be tested monthly until there is stabilization of values because the proximity is approximately 500 feet from the Dance Hall Well. Mr. Merkle expressed concern that either Chevron has been working on this for over a year and has been inaccurate, or the plume has been moving very quickly.

Chairman Zepp inquired about St Margaret's School and their water system as indicated in the staff report. Staff explained that St. Margaret's water system is complicated, with the City provides one meter with a backflow device, and the school district is responsible for the internal distribution system. Staff would be happy to provide more information to the Commissioners with regards to the exact configuration of buildings their water system involves.

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**COMMISSION/STAFF REMARKS:**

Cindy Russell informed the Commission that the GWRP was running at half capacity on December 10, 2007, and at full capacity on December 17, 2007. There has been less colored water calls than last summer. Staff is currently analyzing the colored water complaints to figure out what is happening within the system. Trussell Technologies has been hired to evaluate the water from the GWRP and the City's water system. Also, she reported that there will be a short Metropolitan Water shut down beginning Friday, January 25, 2008, at 12:01 a.m., until Sunday, January 27, 2008, and a press release will be going out this morning. The community will be asked to conserve water, and landscapers will be asked to not use water. Ms. Russell also provided an update regarding the City's Water Conservation Workshop that will be on January 31, 2008, at 6:30 at the Community Center. It will be a first step towards the heavy conservation message that the City wants to send out to the Community. She encourages the Commission to attend.

Commissioner Goode said that the WACO Report that was distributed to the Commission was full of interesting information.

Commissioner Lytle thanked staff for all of the handouts the Commission has been provided.

**ADJOURNMENT:**


Being that there was no further business to discuss, the Water Advisory Commission adjourned at 9:46 a.m. to the regular meeting of, February 26, at 8:00 a.m. in the City Hall Council Chamber.

Respectfully submitted,



Michelle Perea  
Commission Secretary

Prepared by



Christine Casper  
Administrative Specialist



# City of San Juan Capistrano

*Preserving the Past to Enhance the Future*

## Press Releases

### City shuts off well as precautionary measure

Posted Date: 1/24/2008 9:45 AM

As a precautionary measure, City officials have shutdown a well that was discovered to contain trace amounts of methyl tertiary butyl ether. The amount detected in the dance hall well, located near the Old Hot Springs Dance Hall at the south end of Paseo Adelanto, is way below levels that would pose any threat to public health; however, as a proactive measure to quell any public concern, the City has shut it off indefinitely.

The City continues to test the well and is working with Chevron to ensure that it continues with cleanup efforts for leaks that occurred years ago at two of its stations in town.

The maximum contaminant level established by the Environmental Protection Agency and the California Department of Public Health is 13 micrograms per liter; the secondary standard, which is still considered safe to drink but is considered aesthetically unappealing, is 5 micrograms per liter; and the level found in the dance hall well is at 1.3 micrograms per liter.

"Even though the current readings are far below the state and federal guidelines, we wanted our customers to know that we are being proactive in dealing with this issue and erring on the side of caution" said City Manager Dave Adams.

City officials continue to work with the Orange County Health Care Agency, California Department of Public Health and San Diego Regional Water Quality Control Board to ensure that the community remains safe.

The City Council on Feb. 5 will receive an update from City staff and its consultant as to the status of Chevron's efforts related to detection and cleanup. The meeting starts at 6:30 p.m. at City Hall, 32400 Paseo Adelanto.

The City will also update the community on a regular basis. Look for ongoing information in your monthly resident water bills. Residents are also encouraged to sign up for the City's eNews to stay apprised of the situation.

For more information regarding the City's water quality, you can review the City's Annual Water Quality Report at <http://www.sanjuancapistrano.org/Index.aspx?page=259>.

Specific information from the California Department of Public Health is available at <http://www.cdph.ca.gov/certlic/drinkingwater/Pages/MCLprocess.aspx>.

By the end of the day, the City will also post a detailed document on the Web site that provides information about methyl tertiary butyl ether at [www.sanjuancapistrano.org](http://www.sanjuancapistrano.org).

**EXHIBIT 10**

**MINUTES**  
**APRIL 1, 2008**  
**SAN JUAN CAPISTRANO CITY COUNCIL REGULAR MEETING**

**CLOSED SESSION:** None

**BUSINESS SESSION**

Mayor Soto called the Regular Meeting of the City Council of the City of San Juan Capistrano to order at 6:31 p.m. in the City Council Chamber. Council Member Hribar led the Pledge of Allegiance and Mayor pro tem Nielsen gave the invocation.

**ROLL CALL**

**COUNCIL MEMBERS PRESENT:** Sam Allevato, Tom Hribar, Dr. Londres Uso, Mayor pro tem Mark Nielsen and Mayor Joe Soto

**COUNCIL MEMBERS ABSENT:** None

**STAFF PRESENT:** Dave Adams, City Manager; Omar Sandoval, City Attorney; Cynthia L. Russell, Assistant City Manager; Meg Monahan, City Clerk; Karen Crocker, Community Services Director; Lt. Mike Betzler, Chief of Police; Grant Taylor, Assistant Planning Director; Alan Oswald, Senior Traffic Engineer; Sam Shoucair, Senior Engineer; Ziad Mazboudi, Senior Civil Engineer; Eric Bauman, Water Engineering Manager; and Eileen White, Recording Secretary.

**ANNOUNCEMENT OF CLOSED SESSION ACTIONS** - None

**CITY COUNCIL COMMENTS AND ORAL REPORTS**

Mayor Soto thanked all the volunteers, staff, nonprofit organizations and participants involved in the very successful Swallows' Day Parade. His written report included a press conference at the Mission and welcome of the Return of the Swallow; a South Orange County Mayor's breakfast, meeting at the City of Laguna Niguel; Quad cities chamber reception; Orange County Sheriff Department Medal of Valor ceremony; hosting duty for Cub Scout Troop 179 City Hall tour; Youth in Business Day luncheon; and participation in the 50th Annual Swallows' Day Parade.

Mayor pro tem Nielsen and Council Member Uso did not provide reports in an effort to expedite the meeting.

Council Member Hribar announced a meeting with St. Margaret's School concerning efforts to increase carpooling efforts; and sign committee meeting progress.

Council Member Allevato reported attending the Orange County Sheriff's Department Metal of Valor award; Orange County Fire Authority meetings that addressed equipment

CERTAIN DEVELOPMENT APPLICATIONS; AND RESCINDING RESOLUTION NO. 07-09-04-01," and direct staff to return to Council with recommendation for further reducing costs associated with the existing public notification policy.

10. CLAIM OF RICHARD GARDNER DENIED, BASED UPON THE INVESTIGATION AND RECOMMENDATION OF THE CITY'S INSURANCE ADJUSTER, CARL WARREN & COMPANY. (170.70)
11. NEW DEVELOPMENT APPLICATIONS STATUS REPORT RECEIVED AND FILED (440.10)

This item was removed from the Consent Calendar by Council Member Hribar to request a future discussion of carport usage.

Council Action: Moved by Mayor pro tem Nielsen, seconded by Council Member Uso and carried unanimously, 5-0, to receive and file New Development Applications Status Report, month ending March 15, 2008.

12. PUEBLO SERRA WORSHIP HOLDING RELIEVED FROM THE OBLIGATION OF ITEM 5 OF EXHIBIT A – TRAFFIC MITIGATION REQUIREMENTS – OF THE DEVELOPMENT AGREEMENT FOR J-SERRA HIGH SCHOOL SOUTH CAMPUS (PUEBLO SERRA WORSHIP HOLDINGS); AND STAFF AUTHORIZED TO RELEASE THE CORRESPONDING BOND. (PUEBLO SERRA WORSHIP HOLDINGS) (APN 649-011-25 & 649-011-30) (600.30)
13. TOLLING AGREEMENT WITH CHEVRON U.S.A., INC. APPROVED; AND THE MAYOR AUTHORIZED TO EXECUTE THE AGREEMENT. (600.30)
14. FIRST AMENDMENT TO PERSONAL SERVICES AGREEMENT WITH CAA PLANNING (CULBERTSON ADAMS AND ASSOCIATES) APPROVED, IN THE AMOUNT OF \$7,300 FOR A TOTAL AGREEMENT PRICE OF \$31,250, FOR BIOLOGICAL MONITORING SERVICES FOR THE SECOND YEAR OF MONITORING OF THE 760S RESERVOIR PROJECT; AND THE CITY MANAGER AUTHORIZED TO SIGN THE AGREEMENT. (600.30)
15. **RESOLUTION NO. 08-04-01-03**, ENTITLED "A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SAN JUAN CAPISTRANO, CALIFORNIA, AMENDING RESOLUTION NO. 94-12-6-5, THE CITY'S CLASSIFICATION AND COMPENSATION PLAN," ADOPTED. (700.20)

#### PUBLIC HEARINGS

1. CONSIDERATION OF CODE AMENDMENT (CA) 07-02, AMENDMENT TO THE MUNICIPAL CODE TITLE 9 LAND USE CODE AND DEFINITIONS INCLUDING SECTION 9-1.101 THROUGH 9-2.401 (GENERAL PROCEDURES

study; the scope of the project environmental review should have been broader; finding should have included impacts; and no alternatives were studied.

Bob King, City resident, representing Save Our San Juan, objected to Council discussion of the matter as it was premature and counterproductive to the City.

Heather Riley, representing Mammoth Equities, 501 W. Broadway, 15th floor, San Diego, CA 92101, felt that California Environmental Quality Act regulations were upheld by the Council's project decisions, and requested Council adopt the resolution as presented by staff.

Council Action: Moved by Council Member Hribar, seconded by Council Member Uso and carried 4-0-1, with Mayor Soto abstaining, to adopt revised Resolution No. 08-04-01-04 entitled "A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SAN JUAN CAPISTRANO, CALIFORNIA, AFFIRMING AND CLARIFYING THE DECISION TO GRANT CONDITIONAL APPROVAL FOR THE INSTALLATION OF SPECIFIC SIGNS FOR THE MAMMOTH PROFESSIONAL BUILDING PROJECT (APN 650-01-32) (MAMMOTH EQUITIES)."

#### ROLL CALL

AYES: COUNCIL MEMBERS: Hribar, Nielsen, Uso, Allevato

NOES: COUNCIL MEMBERS: None

ABSTAIN: COUNCIL MEMBERS: Mayor Soto

Mayor Soto returned to Chambers and resumed control of the meeting.

#### G2. PUBLIC WORKS DIRECTOR

- a. COUNCIL DIRECTION GIVEN CONCERNING 72 HOUR OPERATION OF DANCE HALL PRODUCTION WELL FOR AQUIFER TESTING RELATED TO METHYL TERTIARY BUTYL ETHER (MTBE) REMEDIATION. (530.25)

Description: In March 2007 the Orange County Health Care Agency (OCHCA) notified the City that there had been a release of Methyl Tertiary Butyl Ether (MTBE) from Chevron gas stations at two sites, and identified Chevron as the responsible party for both releases. The Ground Water Recover Plant's (GWRP) Dance Hall Well has been shut down for evaluation of treatment and remediation methods. Chevron is currently evaluating treatment and remediation of the MTBE plume by installing a Granulated Activated Carbon (GAC) well head treatment system at the Dance Hall well, and needs to run a 72 hour pump test in order to determine if the treatment will perform as expected. The City's consultant on the issue, PSOMAS, agrees with the testing procedures and schedule as suggested



by Chevron. Staff recommended Council 1) Accept Chevron's proposal to temporarily dispose of the pump test product water into the San Juan Creek, and direct staff to cooperate with Chevron in the permitting and implementation process; or 2) Accept Chevron's proposal to temporarily discharge the pump test product water into the headwater of the Groundwater Recovery Plan for treatment and distribution to the City's water system; or 3) Deny both options and direct Chevron to find a means of treating the pump test product water to non-detect levels of MTBE prior to use by the Groundwater Recovery Plant for treatment and distribution to the City's water system.

Written Communications: Report dated April 1, 2008, by Eric Bauman, Water Engineering Manager.

Presentations:

Cindy Russell, Assistant City Manager, summarized the staff report.

Karen Schmidt, representing Chevron, reviewed their efforts to approach all alternatives for 850 gallons per minute discharge through 72 hours of operation of the Dance Hall production well. She acknowledged difficulties with the proposal to discharge the water into San Juan Creek and ongoing efforts to ascertain whether sewer discharge would be both possible and permissible. She indicated that City application for permits may be required in certain cases.

Michael Donovan, PSOMAS, consultant to the City, agreed with the various alternatives and operation as presented by Chevron.

Public Comment:

Richard Gardner, Capistrano Beach resident, suggested reverse osmosis, other filtration systems, and pumping at the Chevron stations to stop the spread of MTBE.

Council Action: Moved by Mayor pro tem Nielsen, seconded by Council Member Uso and carried unanimously, 5-0, to approve in the following preferred order alternatives for pumping and disposal of pump test product water, as proposed by Chevron, based on approvals by outside agencies: 1) Disposal in the sanitary sewer; 2) disposal in the brine-line; 3) disposal in the storm sewer; or 4) pumping through the groundwater recovery plant including the blending of water with water from other pump stations.

**ORDINANCES**

1. **ORDINANCE NO. 937** AMENDING TITLE 9 OF THE MUNICIPAL CODE RELATED TO EQUESTRIAN STANDARDS AND KENNEL REGULATIONS ADOPTED. (CA 07-03) (420.30)

Description: Staff recommended Council approve second reading and adoption of the ordinance amending Title 9 of the Municipal Code related to equestrian standards and kennels regulations, which will allow the ordinance to go into effect 30 days following Council's action.

Written Communications: Report dated April 1, 2008, by Meg Monahan, City Clerk.

Meg Monahan, City Clerk, read the title of **Ordinance No. 937**, entitled, "AN ORDINANCE OF THE CITY OF SAN JUAN CAPISTRANO, CALIFORNIA, APPROVING CODE AMENDMENT CA 07-03 RELATING TO SECTION 9-3.515 (EQUESTRIAN STANDARDS), SECTION 9-2.303(a) AND SECTION 9-3.525 (DOG APPEALS)."

Council Action: Moved by Council Member Allevato, seconded by Council Member Uso and carried unanimously, 5-0, to adopt the ordinance amending Title 9 of the Municipal Code related to equestrian standards and kennels regulations.

### **COUNCILMANIC ITEMS**

Council Member Hribar reported Edison's project to lease two miles of solar roofing area for energy production. He recommended expediting the City's proposed guidelines to increase solar efforts.

### **ADJOURNMENT**

There being no further business, Mayor Soto adjourned the meeting at 8:59 p.m. to Tuesday, April 15, 2008, at 5:30 p.m. for Closed Session, and 6:30 p.m. for the public Business Session in the City Council Chamber.

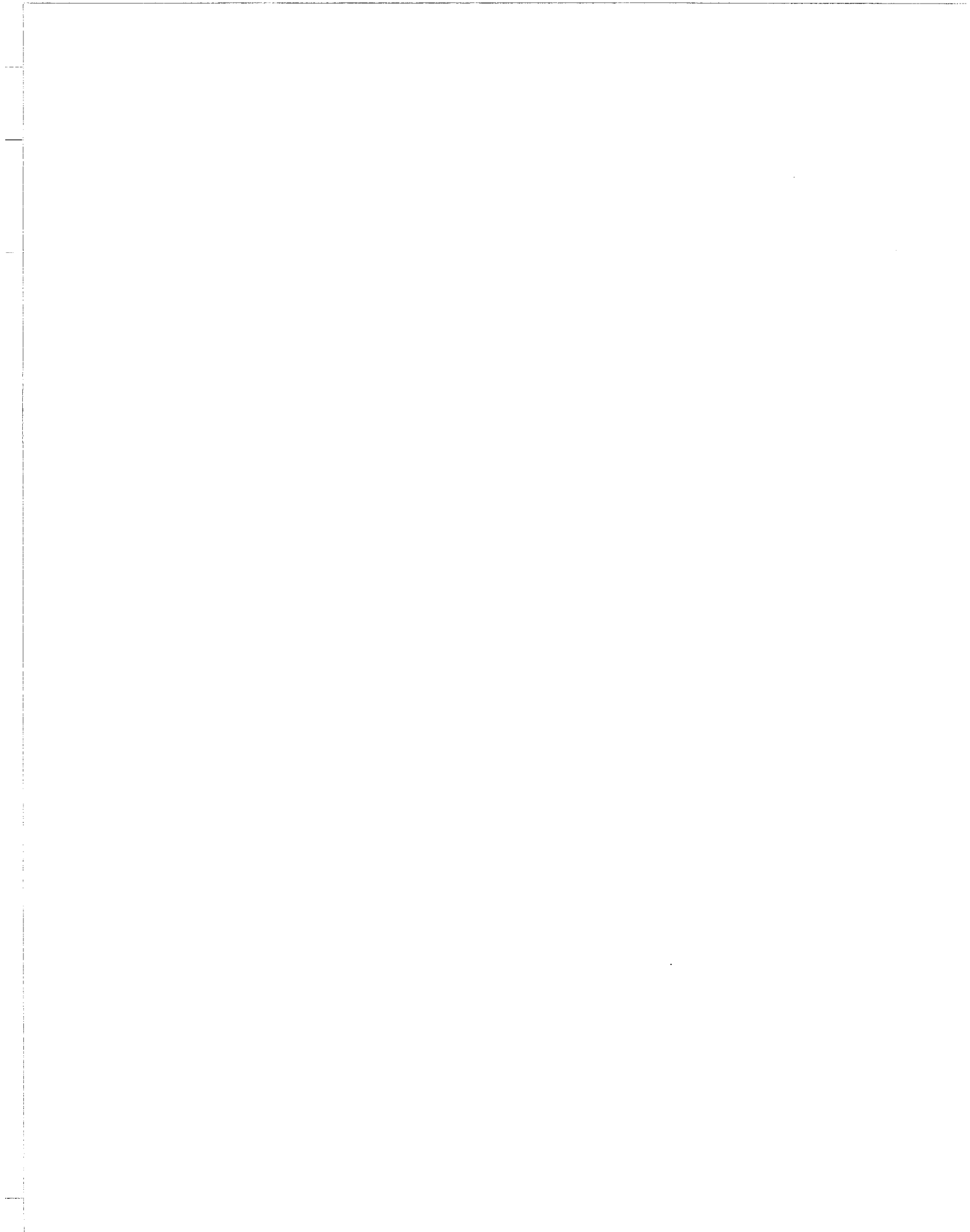
Respectfully submitted,

\_\_\_\_\_  
MARGARET R. MONAHAN, CITY CLERK

Approved: May 6, 2008

ATTEST:

\_\_\_\_\_  
JOE SOTO, MAYOR



**2 - 4.1.2008 - CC-CRA**

2 - 4.1.2008 - CC-CRA

[Beginning of recorded material]

00:00:01 Ms. Russell: Uh, the item before you tonight I'm going to give a brief staff presentation and go through this. We also have Chevron here in the audience to answer specific questions, the City's consultant Psomas Mike Donovan from Psomas - and Eric Bauman, our water engineering manager. I'm going to attempt to rather than go through all the particular technical details of each of these items, uh, kind of get the crux of the issue before the City counsel so they can understand what the request is here. You may recall that our last update at our March meeting - second council meeting in March - representatives from Chevron indicated that there was a desire to run a 72-hour test on the Dance Hall well.

00:00:41 And that's the production well for the groundwater recovery plant where levels of MTBE have been discovered, although below the secondary levels as required by the Department of Public Health there. So they're in greater levels than the non-detect level.

00:01:00 And this is all related to the Chevron incidence of MTBE that we've been talking about for approximately the last year. One of the items that was discussed at the last meeting was Chevron's request to run this well for 72 hours. Initially we had anticipated bringing that back for the April 15th council meeting, and in talking to Chevron originally at our meeting, we'd talked about we'd have to run the well and put

that water into the groundwater recovery plant and into the drinking water system. And that's why we're bringing this item back.

00:01:32

We were going to wait till the 15th but decided to bring it back on the first because on further discussions with Chevron just last week, we've learned that the aquifer tests, the test that Chevron needs to run to better understand the data and the characteristics of the subsurface conditions is better run when the Dance Hall well is running by itself, to understand if the [unintelligible] of the operation of the Dance Hall well will capture all of the MTBE as it comes towards the well in their treatment process for the carbon treatment process, which I won't go into all of that.

00:02:05

But this is basically a test to move along at a faster pace that wellhead treatment and resolution to the MTBE problem. So all that said, we've also come up with some more options other than putting it through the groundwater recovery plant into the drinking water system. At the time we prepared this staff report, we were also evaluating discharging the water from the Dance Hall well into the storm drain system and ultimately the creek, that would require an MPDES permit and the regional water quality board signoff as well as Department of Public Health consultation.

00:02:42

Even since that time, in preparing the staff report in the last couple of days, we've been evaluating discharging that water into the brine line, which goes directly to the ocean outfall, or to the city sewer system, which goes to the treatment plant and then to the outfall. So basically what we have is three or four options that we're looking at, and I want

to kind of put those in an order of probably the most the best options, and then explain what the do nothing option leaves us with.

00:03:08

So basically, staff's position is that the best recommendation, if we're able to do all of the things that are required, would be to discharge the water from the 72 hour operation of the well into the city sewer system. It would go through the treatment plant and so on. Again, the water from this well is below the secondary standards, and so before we would do that, of course, SOCWA would have to sign off that this was allowable, based on the constituents in the water and so on, and that our sewer system capacity could handle it, and all of those things.

00:03:38

The second-best alternative would be into the brine line, which goes to the ocean outfall. The third-best alternative would be to discharge into the storm drain system and the creek. And the fourth alternative would be, as we discussed a week ago it was mentioned a week ago to operate the well into the groundwater recovery plant and into the city's drinking water system.

00:04:03

Again, it would blend with the other wells, as we discussed a couple of months ago about blending, and bring those levels down even below the levels that we're seeing in the Dance Hall well, to a pretty nominal level, even maybe down to somewhere near a non detect level. But again, we know we're blending that water out. That's not the most optimal solution, and our consultant also agrees with Chevron's conclusions that operating the Dance Hall well by itself is the best way to do that. Now, when we're operating it with the plant in operation, the other three wells that are downstream from the Dance Hall well

need to be operating, so they're pulling on opposite sides of the aquifer and so on.

00:04:40 So that isn't the most optimal solution, but if the other three didn't work, they would have to do their modeling around that and whatnot. And also to let you know a fifth alternative the do nothing alternative, I'll call it is there's no other way for Chevron to get this information, and it is necessary to determine whether this wellhead treatment will resolve the MTBE problem and remediate it in the manner in which they anticipate that.

00:05:08 So what we're looking for, really, tonight from the City Council is a discussion or to answer any questions. If you have technical questions, by all means there's all sorts of people here that can probably answer those for you. But we're really looking for the City Council to give us approval and direction to go at this 72 hour test. We're trying to get this done before the plant comes back on line about the 11th of April, because then we can run the well all by itself.

00:05:33 And we're just looking for direction to kind of go in that order that I just described first, the sewer discharge, the brine line being the second-best alternative, storm water being the third-best alternative, and then the groundwater recovery plant being fourth alternative and get approval from council so we can move as quickly as possible through this resolution. And I'd be happy to answer any questions.

00:05:56 Mayor Soto: Cindy, understanding that time is of the essence on this thing, can you kind of give us, out of these five options, the



other different agencies, the [tagalot] agency that we'd have to get approval with?

Ms. Russell: Basically, for the sewer discharge, the City needs to evaluate, uh, the transmission lines and make sure everything, and-and the South Orange County Wastewater Authority, or SOCWA would be the authority at that point. The authority for, uh, the brine line would also be SOCWA. Uh, for the discharge into the creek through the storm drain system would be, uh, National Pollutant Discharge Elimination System and the regional water quality board.

00:06:34 Uh, and for the groundwater recovery plant, uh, it would really be the City, and Department of Public Health probably would have to weigh in on some of these. But Department of Public Health has not, uh, requested shutdown of the well, as you know, uh, to date on that production well. So the Department of Public Health would be consulted, but they haven't given us any indication that we can't run that well into the plant, especially with blending with the other wells. And I do want to stress again that if we run it into the groundwater recovery plant, we have to run the other wells in order to make the plant run. So.

00:07:05 Mayor Soto: On your option one I guess it's sewer obtaining that permit from SOCWA, is that a lengthy process, or

Ms. Russell: Well, we'll find out tomorrow morning, when-when we give them a call. They I think, uh, Chevron has, uh, contacted, uh, SOCWA and has asked the City to contact SOCWA as well to get to the, to the

details of what we need to do to get that done. Uh, we're trying to get that done so that we can run the test and have it completed before April 11th, which is a week from Friday.

00:07:35 So we're going to find out from SOCWA the particular details of that in the morning.

Mayor Soto: Thank you. Mayor pro tem?

Mr. Nielsen: Thank you, Mr. Mayor. Cindy, are there is there any reason why Chevron I'm assuming it's Chevron couldn't immediately be processing for the permits from SOCWA and from the regional water quality board for options one, two and three to get this going, instead of waiting?

00:08:01 Ms. Russell: I believe they

Mr. Nielsen: [unintelligible] move immediately on this?

Ms. Russell: I believe they're in touch with SOCWA. I would have to have Chevron indicate if they have, uh, talked with NPDES or the regional water quality board. I don't know if you've contacted them or not yet. Uh, uh, all right. Karen Schmidt, address that from Chevron.

Ms. Schmidt: Good evening. My name is Karen Schmidt with [unintelligible]. I'm a consultant on behalf of Chevron. We have been pursuing all options simultaneously. Uh, at this point, the option to discharge to the-the storm drain or the creek, uh, we've learned from the regional water

quality control board the time frame is significantly lengthy, probably at least 30 to 60 days.

00:08:39

Also, because the natural quality of the groundwater is poor in terms of the total dissolved solids and metals in the groundwater, there would be problems with discharging that water into the creek directly. So it appears that that may be a dead end, although we haven't completely given up on that option. We understand from the South Orange County Wastewater Authority that with the City's assistance, they could process a permit, or at least look at a permit, in one to two days, because the City is a member agency of the South Orange County Wastewater Authority.

00:09:11

Uh, Chevron can't actually make the application, uh, for the permission to discharge on its own; it has to be done with the City's concurrence.

Ms. Russell:

With that said, I'd like to add one more piece of information. Uh, if the City winds up being the applicant you know, it needs to be the applicant or, uh, whatnot on the permit uh, we'll be working with Chevron to provide indemnification, uh, on that process, uh, which I anticipate we'll be able to come to, uh, a conclusion on that to make sure that it, that everything, I'm sure, will go fine.

00:09:43

But if it doesn't, that we, uh, make sure that the City's, uh, bases are all covered.

Mr. Nielsen: I'm assuming that Chevron doesn't have any problem with indemnification?

[unintelligible]

Mr. Nielsen: Thank you, Mr. Mayor.

Mayor Soto: If I could have the representative from Chevron come up once again? What are your thoughts on discharging into the sewer? Or do you have any thoughts on that?

Ms. Schmidt: Uh, we haven't yet figured out all the options needed. It's definitely an option. I think there are concerns about the volume of water.

00:10:17 We're talking about running this well at approximately 850 gallons per minute for a 72 hour period; that's a lot of water. So, uh, we just need to work out with the wastewater authority whether that volume of discharge would be permissible during the time frame. But it's-it's definitely an option.

Mayor Soto: It's doable?

Ms. Schmidt: We think it's doable, but, uh, at this point, because we haven't had Chevron and SOCWA and the City all on the line or in the room at the same time, we haven't really been able to get any definitive answers, because SOCWA's sort of waiting on, you know, the City to-to get involved.

00:10:55 Mayor Soto: All right. Thank you. Councilman Hribar?

Mr. Hribar: How many gallons did you just quote?

Ms. Schmidt: The well runs at approximately 850 gallons per minute.

Mr. Hribar: I don't think that's correct. Is that correct? Doesn't that well produce 1.6 million gallons per day? 1.4 million gallons per day? Mr. Bauman, you want to step up to the microphone?

00:11:33 Mr. Bauman: The, uh, Dance Hall well runs about 1.1 to 1.3 million gallons, depending on the groundwater level and the back-pressure present for that well. And that-that translates to-to about 800 to 900 gallons a minute, which is probably where the 850-gallon-a-minute, uh, level came from.

Mr. Hribar: I thought you said thousand gallons. I'm sorry.

00:12:01 SOCWA should be able to handle 1.3 million gallons, additional gallons per day, because, you know, for major events, Superbowl, et cetera, I mean, they run up to 13 million gallons per day.

Ms. Russell: We'll talk to them about it in the morning, and we'll-we'll-we'll find out all the particulars, as well as the, uh, operation of our transmission lines to get it there.

Mr. Hribar: We do have a board meeting Thursday morning, by the way 8:30.

Ms. Russell: Right.

00:12:34 Mr. Hribar: Mr. Mayor, just a comment that the SOCWA option sounds okay with me.

Mayor Soto: Councilmember Allevato?

Mr. Allevato: Could we have Psomas weigh in on this with their opinion?

Mr. Donovan: Good evening. Uh, I'm in complete agreement that, uh, with respect to the options and, uh, uh, putting it to the, uh, uh, to SOCWA would be in the best interests if it can be permitted within the time frame.

00:13:12 Uh, each one of these options is all contingent upon being permitted, and the last option, which goes through the groundwater treatment plant, would be the last possible option. And that's if the permitting cannot be done within a reasonable time frame.

Mayor Soto: Okay. Thank you. Thank you, sir. We do have Mr. Gardner, who wishes to address us.

00:13:44 Mr. Gardner: Uh, I'm Richard Gardner from Capistrano Beach, and I thought I would come up and bring a couple of pieces of information. Uh, one thing that I think has not been mentioned is that your reverse osmosis system does remove MTBE, although it's not a preferred method of treatment. The removal efficiency is about 50 percent.

00:14:15            So that should be on the table while you're, while you're thinking about this. Uh, there's also potential removal efficiencies in your other filtration at the plant. So you have to understand that you may detect a very low level at your wellhead, but-but the drinking water that leaves your facility may be even if the blending wasn't you still would have removal efficiencies.

00:14:51            So that's something you need to under have there. A second thing is, is a little review of MTBE in southern California, especially in the Orange County Water District Area, uh, finds that several, uh, potable water purveyors are delivering water to many communities right now with levels in the three-to-five range still below the secondary, but it's being pumped throughout.

00:15:25            And that's the -- the-the not what's coming out of your well see, for you, what comes out of your well in your measuring, you're not measuring what comes out after your - you know, when it's through the treatment plant, which is what you're delivering. So you-you need to-to measure what you're delivering. Uh, I strongly recommend we-we consider, uh, using the system you have in place to deliver the maximum amount of, uh, good, high-quality groundwater to your residents.

00:15:58            Now I would also recommend that you consider other options that Chevron could be involved in for cleaning up the aquifer; for instance, pumping out up near the-the-the stations where the spill occurred. Why is that water not being evacuated? Why are they not keeping, uh, the plume from moving, because they-they could be pumping, like

most stations that have a, have a discharge, a leaky tank, they put in the wells and pump from there so that it doesn't spread.

00:16:31

So I would think that would be done. Air sparging can be done. You don't need to go straight to the activated carbon treatment process. I mean, if they're if they want to do that for this low levels, that's their choice. But I think you have some options. Thanks.

Mayor Soto:

Thank you, Mr. Gardner. Anyone else in the audience wish to address this? Seeing none, bring it back to the Council. Mayor pro tem?

00:17:05

Mr. Nielsen: Thank you, Mr. Mayor. I, uh, I guess from what I've heard, one, it seems to me that the first option should be going down the SOCWA route with the sewer and/or the brine line, because even if we were interested in having first the groundwater recovery plant bringing into the, uh, there, we're not going to get the kind of information and the modeling that's needed.

00:17:30

So it seems to me that it only makes sense to first look at what is going to give us the best modeling, the most efficient way to determine what's going on here, and that is without it going into the groundwater well, or in to the groundwater recovery plant. So, uh, therefore I would certainly urge us to move forward as expeditiously as possible with SOCWA, but whatever, uh, we have to bear, make sure we get the indemnification agreement, uh, in place and move forward on that basis, and as a last resort, it would seem to me, would be the option of, uh, having to have the other wells and to put this through the



groundwater recovery plant, because then we're not going to get as good of a model.

00:18:08 Mayor Soto: Thank you. Dr. Uso?

Dr. Uso: Would you like to put that in the form of a motion?

Mr. Nielsen: I would move that.

Dr. Uso: Second.

Mayor Soto: Okay. I'm going to, uh, I'm going to share some thoughts here real quick. Uh, looking at the staff people who are ironically, it's-it's, this thing was brought to us about a year ago March, in '07 uh, and, uh, it seems to me that Chevron, Psomas and the City all seem to agree with this solution.

00:18:40 So I think it's, uh, hopefully it's, we're going in the right direction. So, uh, with that, any other comments? Call for the question. We have a motion; we have a second. All in favor?

Mayor Soto: Aye.

Mr. Nielsen: Aye.

Mr. Allevato: Aye

Mr. Hribar: Aye.

**2.26.2008 - WAC**

2.26.2008 - WAC

00:00:00 Male Voice: Michelle, I can't see the clock. Is it eight? I'll call the meeting to order and, Cindy Russell, would you take the roll call?

Cindy Russell: Commissioner Lee Goode.

Commissioner Lee Goode: Here.

Cindy Russell: Commissioner Tom Lytle.

Commissioner Tom Lytle: Here.

Cindy Russell: Commissioner Dan Markel. Absent. Chairman -- I mean -- sorry. Vice Chairman Alan Friesleben.

Vice Chairman Alan Friesleben: Here.

Cindy Russell: Chairman Jack Zepp.

Chairman Jack Zepp: Here. Now, do we have any Oral Communications? Okay. No.

00:00:29 Any items received too late to be agendized?

Female Voice: No, I do not.

Chairman Jack Zepp: Thank you. Okay, the next item is the Consent Calendar. Item Number 1 is to approve the regular meeting minutes of January 22nd, 2008. Do we have a motion for their approval?

Male Voice: Second.

Chairman Jack Zepp: Any discussion? All in favor. Opposed.

00:00:58 And, the next item up is Item Number 2, Consideration of the Engineering and Field Operations Report. Eric, we'll turn that over to you, and I understand you have some information on, or you have the Chevron people here today.

Eric Bauman: Yes, on the -- thank you. On the Field Operations, I'd like to move forward to the MTBE item first. For that, we have Michael Donovan here for his update status report and, then, also Natasha Molla from Chevron.

00:01:41 Michael Donovan: Good morning. This is to provide the commission with a update on the MTBE investigations for both the Chevron Camino Capistrano site and the Ortega site. Currently, the site investigations that have been done since our -- the last meeting is that Chevron has initiated insulation and one set of well clusters for MW16 A, B, C, and D in January and February.

00:02:14 And, they sampled this well in February. And, they also installed an MW15 D, which is the deepest well, in February also. I'll show you a

picture of where these are located. It's a little bit difficult, but -- oops -- sorry.

00:02:43 [Unintelligible]. 16D is located -- here's the City Hall. It's located right in this area. Dance hall well is down right here. 15D is located right across the tracks, railroad tracks, next to Von's. The Chevron station is up at the far upper left corner -- upper right corner -- excuse me.

00:03:14 These are some of the concentrations that were found within the whole -- all the well clusters that are located -- 16B had one detection. This was the sample from February 12th at -- I'm sorry -- 2.9 micrograms per liter. If you recall, the Dance hall well was -- has been consistently getting between 1.0 and 2.0 micrograms per liter.

00:03:42 On February 4th, Orange County Healthcare Agency issued a letter requesting that an IRP -- an IRP is a Interim Remedial Action Plan. It must be submitted within 45 days following receipt of that letter. In that plan, they've got to include a Corrective Action Plan that will include a site conceptual model.

00:04:15 It must also identify remediation for the MTBE plume, and mitigate impact to the Dance hall well. They also instructed Chevron to conduct monthly sampling of MW15 and 16 well clusters, and they also indicated that it would be weekly if the Dance hall well was restarted.

00:04:41 On February 25th, Chevron held a meeting with Orange County Healthcare Agency to obtain feedback on the IRP process. This -- Chevron proposed a well head treatment at the Dance hall well as part

of their IRAP approach. Orange County Healthcare Agency requested additional monitoring wells as apart of the IRAP process, both cross gradient, down gradient, at and adjacent to the station.

00:05:10

They also asked about access agreements with various property owners to conduct the additional investigations. Apparently, that is still in progress. With respect to the Ortega Highway site investigations, Chevron is still negotiating with property owners. My - - the last that we had heard is that last changes were forwarded to Chevron with respect to the [Denault] property.

00:05:48

The [Stroscher] property is being reviewed -- agreement is being reviewed by Stroscher. Orange County Fire Authority is supposed to be finalized this week, and Chevron has indicated that drilling would be scheduled within two weeks following approval. There is a contingency that's being worked on with respect that if access agreements are not finalized, to try and do the work in Del Obispo Street.

00:06:19

However, access in Del Obispo presents problems, both from a traffic standpoint and, also, a health and safety standpoint, and is not preferable.

Chairman Jack Zepp: Can I interrupt for a section here? Do any of the items on this slide affect the -- will any of the items likely affect the 45-day period for the remedial plan?

00:06:45 Michael Donovan: No, that's for the Camino Capistrano site, and this has no effect on that.

Chairman Jack Zepp: Thank you.

Michael Donovan: With respect to the Kinoshita well, the Kinoshita well, as you are aware, has had detectable concentrations of MTBE. And, what we did is, because of these detections and given its proximity to the existing known MTBE plumes, it seemed -- it did not seem reasonable that that would be a particular source.

00:07:22 So, we did a look -- a investigation to see what other potential sources could be out there. And, from this, this is from a database search identifying underground storage tanks, both historical and active, that were in the area within a -- the inner circle is a quarter mile, the middle circle is a half a mile, and the outer circle is a mile.

00:07:51 Most of the area, there's not -- it's pretty much developed. There's not gas stations and so forth that you would find. But, across the river, there's some industrial areas that do have underground storage tanks. But, the most closest ones are a good half a mile and on the other side of the creek. And, so, it doesn't look like it's suitable as a potential source.

00:08:24 And, this is to give you an idea of active tanks. Again, Kinoshita well is right in this corner. Active tanks -- this is from Geotracker. This is not entirely accurate, but it's close. And, it shows storage tanks in and around the area, but none are very close to the Kinoshita well. So, we