

## Water, Sewer and Storm Drain Committee

REVISED

February 23, 2005 5:00 PM City Hall

## Attendees:

Paula Ford - Mayor

Judy Richards - Council Member

Rob Hickey - City Manager

John Linhart – Planning & Public Works Director

Bruce Nash - City Engineer

Michael Bohlander, P.E. - City Engineer

Satwant Takhar - Finance Director

Tracy Park - Sr. Administrative Assistant

## ---- Agenda Topics ----

- 1. Meeting Called to Order
- 2. Roll Call
- 3. Approval of Meeting Minutes for July 28, 2004
- 4. Reports/Updates:
  - A. Arsenic Remediation Extension Request
  - B. Repayment of Water Fund Loan
  - C. Update for possible future site of a Water Tank on Live Oak Unified School District Land
  - D. Replacing Water Line on Connecticut as part of the road project
  - E. Update on the WWTP Construction Project
  - F. Status of Water Meter Bid Documents
- 5. Items from Council Members
- 6. Comments from Members
- 7. Adjournment



## Application for Arsenic Exemption

1	System Name: City of Live Oak 2 PWSID: 5110001  Contact Person: Mike Bohlander 4 Phone Number: (530) 695-2112												
3							4	Pho	one Numb	er: (53	0) (	695-2112	
5	Address	: 9955 Liv	ve Oak Bo	oulevard,	Live Oak	, CA 9595	53	-					
6	Number	of people	served: 6	,500			7	Dat	te System	Began	Or	erating: 1	951
8	Have yo	u received	l a variano	e for arse	nic? (Has	your				T	$\sqrt{N}$		
					ilable trea					1			
	67	TOURS DURING TO			sed arsenio								
9	Is there	an alternat	tive source	e of water	available	with	$\sqrt{\mathbf{Y}}$	es				lo	
	lower ar	senic leve	ls? Live	Oak could	develop	a							
	progran	n to purcl	nase and	distribute	bottled v	vater for							
					to the Fe								
	River an	nd constru	uct a wate	er treatm	ent plant.	These							
		ives need											
					the most								
	impleme	entation p	lan to me	et the ob	jectives of	f the							
		Rule's ne	Service Control of the Control of th							-			
10	List Date	es and resu	ılts for ars	enic samp	oles collec	ted over th	ie pas	st 5 y	ears.				
				Da	te of Colle	ction and	Arse	nic le	evel				
		6/04	3/04	12/03	9/03	3/03	8/6	02	1/02	10/0	1	3/01	11/99
	Well #1	19.2 ug/l	36 ug/1	33 ug/l	33.8 ug/1	36 ug/l	20 ι		18 ug/l	22 ug		17.6 ug/l	24.5 ug/l
	Well #2 Well #3	42.5 ug/l	39 ug/l	34 ug/l	38.7 ug/l	39 ug/l	22 ı		16 ug/I	25 ug		21.0 ug/l	
	Well #4	12.4 ug/l 13.1 ug/l	15 ug/l 16 ug/l	16 ug/l	16.3 ug/l 14.3 ug/l	19 ug/l	18 t		12 ug/l	14 ug		14.1 ug/l	11.5 ug/l
	Well #5	21.1 ug/l	22 ug/l	23 ug/l	20.7 ug/l	17 ug/l 23 ug/l	25 t		43 ug/l 18 ug/l	33 ug 22 ug		9.27 ug/l 22.8 g/l	7.93 ug/l 19.1 ug/l
					2017 491	25 46/1	25 0	81	10 ugi	22 48	<i>y</i> 1	22.0 g/1	19.1 ug/1
11	Summari	ze your cu	irrent trea	tment pro	cess: The	City of Li	ve O	ak n	umns gra	undw	ate	r from fix	e wells
	Each we	ll unit is l	pasically t	he same.	The unit	s consist o	of a r	umr	, motor,	sand s	ena	rator, 5.0	00-
	gallon hy	ydro-pnei	ımatic sto	rage tan	k to main	tain syste	m pr	essui	re. water	meter	S. O	n/off pres	sure
	switches	connecte	d to the h	ydro-pne	umatic ta	nk, electr	ical 1	oane	ls and gas	ges. D	rin	king wate	er is
	supplied	to the dis	stribution	system f	rom the w	vells upon	dem	and.	The Cit	v's we	II so	ources have	ve not
	historica	lly neede	d treatme	nt to mee	t most dr	inking wa	ter s	tand	lards. Ho	wever	. hy	vpochlori	te is
	used to d	lisinfect tl	he raw wo	ell water.	It is app	lied at the	poir	t of	discharge	e for th	ie v	vell. Mixi	ng
	used to disinfect the raw well water. It is applied at the point of discharge for the well. Mixing takes place after injection. Each month city staff collects samples from various locations system						tem						
	wide. These samples are tested by staff to ensure effective disinfection of the system. Staff monitors							nonitors					
	the chlorine residual coming out of the hydro-pneumatic tanks to ensure that a residual of not more than 1.0 ppm enters the system. Samples are then sent to a certified laboratory for bacteriological						ot more						
							ogical						
	testing.												
12	What treatment options have you considered for reducing your arsenic levels below 10 ppb? The City of												
	Live Oak	has revi	ewed EPA	's Arsen	ic Treatm	ent Techi	nolog	y Ev	valuation	Hand	boo	k for Sma	all
	Systems;	Proven A	Alternativ	es for Ab	ovegroun	d Treatm	ent o	f Ar	senic in C	Fround	dwa	ater; Arse	nic
	Treatmen	nt Techno	ologies for	Soil, Wa	iste, and	Water; Sn	nall S	yste	ms Imple	menta	tio	n Strateg	v &
	Exemption	ons; Com	pliance, F	Reporting	, and Enf	orcement	Issu	es; N	<b>litigation</b>	Strate	egie	s; Water	
	Treatmen	nt Plant F	Residuals;	Technol	ogies and	Costs for	Rem	ioval	of Arsen	ic from	n D	rinking V	Vater;
	and a Ca	se Study ·	- Arsenic	Treatme	nt Techno	logies Sou	ıther	n Ca	alifornia `	Water	Co	mpany's	
	and a Case Study - Arsenic Treatment Technologies Southern California Water Company's Hollydale System in Paramount, CA. These documents indicate selection of an appropriate												

technology requires a level of effort that exceeds City staff expertise. The City recognizes the need to hire an engineering consultant with expertise in Arsenic remediation to develop a system to match our socio-economic situation. Therefore, the City has submitted a Planning and Technical Assistance Grant request for \$35,000 with California's Department of Housing and Community Development.

Current water rate structure, date & amount of last increase: A combination of flat rates and metered rates. The last rate increase was for flat rates only and occurred on June 7, 2003.

I	Flat Rate increase by type	***************************************	-	
Description	Units	From	To	Incr.
Residence - Single Family	Per Month	\$21.60	\$32.18	49%
Residence - Multiple Family	Per Unit, Per Month	\$15.00	\$20.25	35%
Cabins, Mobile Homes & Motels	Per Unit, Per Month	\$10.00	\$15.00	50%
Nursing & Rest Homes	Per Bed, Per Month	\$5.00	\$6.25	25%
Churches & Lodges	Per Month	\$25.20	\$44.10	75%
Business - Retail	Per Month	\$34.27	\$58.26	70%
Restaurants & Bars	Per Month	\$36.29	\$65.32	80%
Service Stations	Per Month	\$60.48	\$181.44	200%
Day Care Centers & Pre-School Facilities	Per Month Up To 10 Children	\$25.20	\$44.10	75%
Day Care Centers & Pre-School Facilities	Per Month More Than 10 Children	\$30.00	\$52.50	75%
Does the system have a certified operato	r? √Yes		□No	

15 What steps have you taken already to meet the new MCL?

14

- The City of Live Oak is building a foundation to develop an effective approach to accomplishing the new MCL for Arsenic. The first step was to review available documents from the EPA for the new Arsenic Rule requirements and tools for Arsenic remediation. We believe the next key aspects in meeting the new MCL is having all users within the City to be on water meters, have a rate structure established to provide for capital improvements, operation and maintenance of necessary facilities, complete construction of a regional storage facility, and hire an engineering consultant to provide the expertise necessary to develop an appropriate Arsenic remediation plan. To this end, the City has submitted a Planning and Technical Assistance Grant request for \$35,000 with California's Department of Housing and Community Development.
- The City is currently working with a major developer for constructing a 1.4 million gallon water storage reservoir. We anticipate this reservoir as being a key point source for Arsenic remediation. The City has also obtained a \$1.4 million loan from RUS for installing water meters throughout the City of Live Oak. And finally, the City is developing a procedure for implementing new water connection and user fees through an RFP process.
- Meanwhile, the City has been systematically accomplishing other objectives over the past three (3) years to meet requirements of the Clean Water Act. One example of the level of effort the City has been making is completing a \$6 million dollar upgrade to the City's wastewater treatment plant to meet waste discharge requirements. Funding for these improvements substantially came from federal and state assistance grants and loans. The City obtained USDA Rural Utilities Service (RUS) grant and loan funding for about \$3 million and a State of California grant for about \$3 million.
- What capital improvements are needed, and how much will they cost? The City of Live Oak plans to contract the services of a consulting engineering company to determine an appropriate treatment system for our water supply and distribution system. In light of this, the City has submitted a Planning and Technical Assistance Grant request for \$35,000 with California's Department of Housing and Community Development. The City anticipates having an ultimate plan using regional storage tanks charging the water distribution system. We believe that treatment technologies for meeting drinking water standards will be developed for these facilities. According to EPA documentation, estimated costs to implement the new regulations for small community water systems (those serving fewer than 10,000 people), would increase between \$38 and \$327 per

State Revolving Fund (DWSRF)  Date Applied: info coming  Contact (Name & Phone Number): info coming  Have you applied for (or received) any other grants for these improvements?  Have you entered into a written and enforceable agreement to become part of a regional PWS?  If you will begin operation after 1/23/06, why can't your system use another source of drinking which lower arsenic levels? There is no other readily available source of drinking water. The expedient way of providing drinking water that meets the Arsenic Rule MCL would be provided water to residents. Providing a gallon of drinking water per day to each resident wo more than \$2 million dollars a year. Another potential source of drinking water that may mew MCL target under the Arsenic Rule could be developed from the Feather River. Hower City would need to construct an inlet structure in the river, a water treatment facility for treatment surface waters, and a pipeline to connect into the existing distribution system. This alternates	before January 23, 2006? The City of Live Oak does not enecessary to develop an in-house alternative analysis. It grant funding for an engineering consultant, indations will be difficult under current funding mechanisms. It grant funding for an engineering consultant, indations will be difficult under current funding mechanisms. It grant funding in the past two years as well as sewage 0% for residents in the past two years. This has been a gin Live Oak since the median household income for the City 26% of families currently living in Live Oak live below the housemployment rate. The January 2005 unemployment rate the Employment Development Department.  Important to allow for a step-by-step approach to meet the new nearly seven and a half million dollars in funding through miprove the wastewater treatment facility and install water consisted an application for a \$35,000 technical assistance grant sing and Community Development to hire an engineering to develop a specific believes an effective implementation applies in granted as requested, we will be able to implement while minimizing the financial impact on current for the following describes your system (include documentation):  The to get financial source of drinking and the grants for the California Department of Housing and Community Development.  The following describes of the the grants for the California Department of Housing and Community Development.  The grants for the grants for the grants for the grants for the grants of the grants for the grants of the gr		T								
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	approved there's final design and bid processing. Construction will likely take 18 months to 2 year and could start late 2008 or early 2009. Construction may be completed sometime between June and December 2010.				
23	Please provide proposed dates for coming into compliance with the	ne revised arsenic rule:			
	Activity	Target completion Date			
	<ul> <li>Complete water fee assessment study</li> </ul>	November 2005			
	<ul> <li>Complete citywide water meter installation contract</li> </ul>	December 2005			
	<ul> <li>Acquire funds for consultant contract</li> </ul>	March 2006			
	Arsenic Remediation Consultant Study	March 2007			
	<ul> <li>Develop and implement pilot remediation program</li> </ul>	September 2007			
	Secure funding for citywide improvements	September 2008			
	Finish the capital improvements	May 2009			
	Testing and refining operations	December 2009			
	<ul> <li>Begin operating in compliance with the revised MCL</li> </ul>	January 31, 2010			
	Maximum time that you will need to come into full compliance				

Submitted b	y:			
	289			
Date:		· · · · · · · · · · · · · · · · · · ·	***	

Official	Use Only – Please do no write in th	is section	
Date application received by DHS:	Date application received by EPA:	Exemption req	uest was
		Approved	Denied
Date letter sent to system advising of decision:	Date of public hearing:	Date for complarsenic MCL:	liance with revised
Application package reviewed by:			
Date of review:		,	