

# Board Meeting Agenda

Russ Baggerly, Director  
Mary Bergen, Director  
Bill Hicks, Director

Pete Kaiser, Director  
James Word, Director

CASITAS MUNICIPAL WATER DISTRICT  
March 9, 2016  
3:00 P.M.  
1055 Ventura Avenue  
Oak View, CA 93022

Right to be heard: Members of the public have a right to address the Board directly on any item of interest to the public which is within the subject matter jurisdiction of the Board. The request to be heard should be made immediately before the Board's consideration of the item. No action shall be taken on any item not appearing on the agenda unless the action is otherwise authorized by subdivision (b) of ¶54954.2 of the Government Code and except that members of a legislative body or its staff may briefly respond to statements made or questions posed by persons exercising their public testimony rights under section 54954.3 of the Government Code.

1. Public Comments (items not on the agenda – three minute limit).
2. General Manager comments.
3. Board of Director comments.
4. Board of Director Verbal Reports on Meetings Attended.
5. Consent Agenda
  - a. Minutes of February 24, 2016 Board Meeting.
  - b. Minutes of February 24, 2016 Special Meeting.
  - c. Resolution authorizing the joint funding agreement with the United States Geological Survey for operation and maintenance of stream gaging stations in the Ventura River watershed.

RECOMMENDED ACTION: Adopt Consent Agenda

6. Bills
7. Recommend that the Board find that the sound reducing measures taken at the 4M Pump Plant have reduced sound below the criteria in Ventura

County General Plan Noise Source Limits Section 2.16.4(c) and no further action is needed.

RECOMMENDED ACTION: Motion approving recommendation

8. Recommend approval of a purchase order to Praxair, Inc. in the amount not to exceed \$180,000 for the purchase of liquid oxygen.

RECOMMENDED ACTION: Motion approving recommendation

9. Recommend approval of a purchase order to FAMCON Pipe and Supply for the purchase of two 42" Mueller Butterfly Valves in the amount of \$26,434.25.

RECOMMENDED ACTION: Motion approving recommendation

10. Recommend approval of a purchase order to West Coast Air Conditioning, Ventura in the amount of \$5,990.00 for the purchase and installation of an HVAC unit for the Lake Casitas Recreation Area.

RECOMMENDED ACTION: Motion approving recommendation

11. Recommend support of the Trout in the Classroom program organized by the California Department of Fish & Wildlife.

RECOMMENDED ACTION: Motion approving recommendation

12. Information Items:

- a. Recreation Committee Minutes.
- b. Recreation Area Report for January, 2016.
- c. Letter from the Upper Ventura River Basin Groundwater Sustainability Agency Formation Committee regarding a meeting on April 12, 2016 at 2:00 p.m.
- d. Water Consumption Report.
- e. CFD No. 2013-1 (Ojai) Monthly Cost Analysis.
- f. Investment Report.

13. Adjournment

If you require special accommodations for attendance at or participation in this meeting, please notify our office 24 hours in advance at (805) 649-2251, ext. 113. (Govt. Code Section 54954.1 and 54954.2(a).

Minutes of the Casitas Municipal Water District  
Board Meeting Held  
February 24, 2016

A meeting of the Board of Directors was held February 24, 2016 at the District office in Oak View, California. The meeting was called to order at 3:00 p.m. Directors Kaiser, Baggerly, Word, Hicks and Bergen were present. Also present were Steve Wickstrum, General Manager, Rebekah Vieira, Clerk of the Board, and Attorney, John Mathews. There were two staff members and two members of the public in attendance. President Kaiser led the group in the flag salute.

1. Public Comments (items not on the agenda – three minute limit).

None.

2. General Manager comments.

None.

3. Board of Director comments.

Director Hicks expressed his surprise to see that the front page of the Ventura County Star article inferring that we sold Lake Casitas to Ojai Valley Water Company.

4. Board of Director Verbal Reports on Meetings Attended.

Director Baggerly mentioned his presentation to the Ojai City Council on behalf of OBGMA. They had thought the plan would be done in three to four months but they are still working on it. It is a complicated process.

Director Hicks reported that he and Director Baggerly attended the Desal presentation. It was interesting. The price of the facility is \$2.3 billion dollars and it would take 14 years to get the permits. The cost of water will be very expensive. Director Word suggested we should find out how to work together in some way. Director Bergen suggested that doing desal on brackish groundwater is less expensive but does not help us.

Director Baggerly added that he is encouraged our lake is doing exactly what was planned. Mr. Wickstrum added that our customers are doing their part to conserve. Director Word added we would be remiss if we don't plan for the worse case scenario. Director Bergen added that the Ag sector is working hard to bring down their water consumption.

5. Consent Agenda ADOPTED

- a. Minutes of February 10, 2016 Board Meeting.

The consent agenda was offered by Director Baggerly, seconded by Director Hicks and adopted by the following roll call vote:

AYES: Directors: Bergen, Hicks, Word, Baggerly, Kaiser  
NOES: Directors: None  
ABSENT: Directors: None

6. Bills APPROVED

On the motion of Director Hicks, seconded by Director Bergen, the bills were approved by the following roll call vote:

AYES: Directors: Bergen, Hicks, Word, Baggerly, Kaiser  
NOES: Directors: None  
ABSENT: Directors: None

7. Recommend approval of a purchase order to Perry Ford in the amount of \$21,186.00 for the purchase of a 2016 Ford Escape. APPROVED

On the motion of Director Baggerly, seconded by Director Hicks, the above recommendation was approved by the following roll call vote:

AYES: Directors: Bergen, Hicks, Word, Baggerly, Kaiser  
NOES: Directors: None  
ABSENT: Directors: None

8. Discussion regarding the request to increase sponsorship for Association of Water Agencies of Ventura County. APPROVED

On the motion of Director Word, seconded by Director Hicks, the board approved increasing sponsorship to \$2,500 for both the Symposium and the Member and Policy Makers Reception at the Reagan Library. This was passed by the following roll call vote:

AYES: Directors: Bergen, Hicks, Word, Baggerly, Kaiser  
NOES: Directors: None  
ABSENT: Directors: None

9. Recommend approval of the License Fee Reimbursement Agreement with Carpinteria Valley Water District regarding sharing the license fee and other related costs of environmental Systems Research Institute Software. APPROVED

On the motion of Director Word, seconded by Director Hicks, the above recommendation was approved by the following roll call vote:

AYES: Directors: Bergen, Hicks, Word, Baggerly, Kaiser  
NOES: Directors: None  
ABSENT: Directors: None

10. Hydrology Report for Water Year 2014-15. APPROVED

Mr. Wickstrum thanked Jordan Switzer in Fisheries for taking this to heart in obtaining the information and putting it together. This represents what occurs in our streams, rivers and what is happening at Robles. The information is gone over every October by National Marine Fisheries Service. This is critical data.

On the motion of Director Baggerly, seconded by Director Bergen the report was approved for filing by the following roll call vote:

AYES:	Directors:	Bergen, Hicks, Word, Baggerly, Kaiser
NOES:	Directors:	None
ABSENT:	Directors:	None

11. Information Items: APPROVED

- a. Executive Committee Minutes.
- b. Finance Committee Minutes.
- c. Association of California Water Agencies Spring Conference in Monterey, California.
- d. Casitas Reservoir Water Inventory Summary Calendar Year 2015.
- e. Lake Casitas Storage Volume Comparison.
- f. Investment Report.

Directors Baggerly and Word indicated they would like to attend the ACWA Spring Conference.

On the motion of Director Bergen, seconded by Director Hicks, the information items were approved by the following roll call vote:

AYES:	Directors:	Bergen, Hicks, Word, Baggerly, Kaiser
NOES:	Directors:	None
ABSENT:	Directors:	None

Mr. Mathews reported that following this closed session item we will conduct a special meeting at 4:00 p.m.

President Kaiser moved the meeting to closed session at 3:28 p.m.

12. Closed Session

- a. Public employee Performance Evaluation (Government Code Sec. 54957). Title: General Manager

President Kaiser moved the meeting back into open session at 3:57 p.m. with Mr. Mathews stating there was no action taken.

13. Adjournment

President Kaiser adjourned the meeting at 3:57 p.m.

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James W. Word, Secretary

Minutes of the Casitas Municipal Water District  
Special Board Meeting Held  
February 24, 2016

A special meeting of the Board of Directors was held February 24, 2016 at the District office in Oak View, California. The meeting was called to order at 4n:00 p.m. Directors Kaiser, Baggerly, Word, Hicks and Bergen were present. Also present were Steve Wickstrum, General Manager, Rebekah Vieira, Clerk of the Board, and Attorney, John Mathews. There were no staff members and no members of the public in attendance.

1. Public Comments (items not on the agenda – three minute limit).

None.

President Kaiser moved the meeting to closed session at 4:02 p.m.

2. Closed Session

- a. CONFERENCE WITH REAL PROPERTY NEGOTIATORS (Govt. Code Section 54956.8).  
Property: All of Golden State Water Company's property in its Ojai Service Area.  
Agency Negotiator: Steven E. Wickstrum  
Negotiating Parties: Casitas Municipal Water District and Golden State Water Company  
Under Negotiation: Price and Terms of Payment
- b. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION  
Initiation of litigation pursuant to subdivision (c) of Section 54956.9, Government Code. (number of potential cases: one)

President Kaiser moved the meeting back to open session at 4:33 p.m. with Mr. Mathews stating that the Board considered an appraisal report prepared with respect to Golden State Water Company's Ojai service area and has authorized Mr. Wickstrum and the District's special legal counsel, Rutan & Tucker LLP, to extend an offer to purchase Golden State's assets in its Ojai service area for the fair market value price set forth in the appraisal. The motion was made by Director Baggerly, Seconded by Director Bergen and passed by the following roll call vote:

AYES:	Directors:	Bergen, Hicks, Word, Baggerly, Kaiser
NOES:	Directors:	None
ABSENT:	Directors:	None

3. Adjournment

President Kaiser adjourned the meeting at 4:35 p.m.

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James W. Word, Secretary

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**CASITAS MUNICIPAL WATER DISTRICT  
MEMORANDUM**

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**TO:** STEVEN E. WICKSTRUM, GENERAL MANAGER  
**FROM:** NEIL COLE, PRINCIPAL CIVIL ENGINEER  
**SUBJECT:** USGS-CMWD COOPERATIVE STREAM GAGING PROGRAM FOR  
NOVEMBER 1, 2014 TO OCTOBER 31, 2015 - VENTURA RIVER NEAR  
VENTURA GAGING STATION  
**DATE:** FEBRUARY 26, 2016

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**RECOMMENDATION:**

It is recommended that the Board of Directors approve continuing the cooperative stream gaging program with the U.S. Geological Survey (USGS) for the Ventura River near Ventura station and adopt the resolution.

**BACKGROUND:**

Since 1961 Casitas and the USGS have maintained agreements for the USGS operation of various stream and reservoir gaging stations within the District. In 1988, Casitas assumed the operation of all subject stations, with the exception of the Ventura River near Ventura gaging station that is located near the Foster Park Bridge. The USGS has reliably provided Casitas, City of Ventura and Ventura County with information gathered from this key gaging station.

Attached is a letter from the U.S. Geological Survey dated February 10, 2016 that outlines the proposed source of funding for the gaging station program. The local cost share portion of the agreement has increased to \$14,250 from \$13,700 for the 2015-16 water year, a 4% increase. The City of San Buenaventura (Ventura) and Ventura County Watershed Protection District (VCWPD) will continue to be partners with Casitas and divide this cost equally. The actual cost to Casitas will be \$4,750.

USGS has provided two copies of a Joint Funding Agreement for Casitas to sign and return.

Attachment – USGS letter and Joint Funding Agreement

CASITAS MUNICIPAL WATER DISTRICT

RESOLUTION DIRECTING EXECUTION OF A  
JOINT FUNDING AGREEMENT BETWEEN  
UNITED STATES GEOLOGICAL SURVEY AND  
CASITAS MUNICIPAL WATER DISTRICT

WHEREAS, Casitas Municipal Water District and the U.S. Geological Survey, U.S. Department of the Interior, have previously entered into a cooperative agreement involving matching funds covering the operation and maintenance of a certain stream gaging stations in the Ventura River watershed; and

WHEREAS, it is desirable that arrangements for the U.S. Geological Survey to perform the operation and maintenance of the Ventura River near Ventura stream gaging station during the November 1, 2015 to October 31, 2016 period; and

WHEREAS, the U.S. Geological Survey has indicated that subject to the availability of Federal matching funds, the U.S. Geological Survey will provide \$7,200 in funds; and

Whereas, Casitas Municipal Water District's cost to have the U.S. Geological Survey operate and maintain the Ventura River near Ventura stream gaging station during the November 1, 2015 to October 31, 2016 period will be \$14,250; and

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Casitas Municipal Water District that the General Manager is hereby authorized and directed on behalf of Casitas to sign the Joint Funding Agreement in the form provided by the U.S. Geological Survey, and request continuation of said cooperative arrangements during the period November 1, 2015 through October 31, 2016 at a fixed total cost of \$14,250 to Casitas. Further, direct staff to seek reimbursement of two-thirds of the \$14,250 upon receipt of the billing from the U.S. Geological Survey.

ADOPTED this 9th day of March, 2016.

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Pete Kaiser, President  
Casitas Municipal Water District

ATTEST:

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James W. Word, Secretary  
Casitas Municipal Water District





# United States Department of the Interior

## U.S. GEOLOGICAL SURVEY

California Water Science Center  
6000 J Street, Placer Hall  
California State University  
Sacramento, California 95819-6129  
Phone: (916) 278-3000 Fax: (916) 278-3070  
<http://water.wr.usgs.gov>

February 10, 2016

Mr. Steve Wickstrum, General Manager  
Casitas Municipal Water District  
1055 Ventura Avenue  
Oak View, California 93022

Attention: Mr. Neil Cole, P.E.

Dear Mr. Wickstrum:

This letter confirms discussions between our respective staffs, concerning the continuation of our cooperative water resources program between the Casitas Municipal Water District (CMWD) and the U.S. Geological Survey (USGS) for the period November 1, 2015 to October 31, 2016.

The proposed program and associated costs are as follows:

<u>Station number and name</u>	<u>CMWD Funds</u>	<u>USGS Funds</u>	<u>Total Funds</u>
11118500 Ventura River near Ventura	\$14,250	\$7,200	\$21,450
<b>TOTAL</b>	<b>\$14,250</b>	<b>\$7,200</b>	<b>\$21,450</b>

Total cost of the proposed program is \$21,450. Cost to CMWD is \$14,250, and subject to the availability of Federal matching funds, the USGS will provide \$7,200.

Enclosed are two originals of Joint Funding Agreement (JFA) 16WSCA05100, signed by our agency, for your approval. If you are in agreement with this proposed program, please return one fully executed JFA to our office. Work performed with funds from this agreement will be conducted on a fixed-price basis. Billing for this agreement will be rendered annually.

The USGS is required to have an agreement in place prior to any work being performed on a project. We request that the JFA be returned prior to March 31, 2016. If a JFA is not received by March 31, we will be required to suspend operations until an agreement is received.

**Mr. Steven E. Wickstrum, General Manager- Casitas Municipal Water District**

If you have any questions concerning this program, please contact Stuart Hill, in our Santa Maria Field Office, at (805) 928-9539. If you have any administrative questions, please contact Tammy Seubert, in our Sacramento Office, at (916) 278-3040.

Sincerely,



Eric G. Reichard  
Director, USGS California Water Science Center

Enclosure

cc: Stuart Hill, USGS CAWSC

U.S. Department of the Interior  
U.S. Geological Survey  
Joint Funding Agreement  
FOR  
Water Resource Investigations

Agreement#: 16WSCA05100  
Customer#: 600000825  
Project #: ZG009J5  
TIN #: 95-6004993  
USGS DUNS #: 1761-38857

Fixed Cost Agreement YES[ X ] NO[ ]

THIS AGREEMENT is entered into as of the 1<sup>st</sup> day of November, 2015, by the U.S. GEOLOGICAL SURVEY, California Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the CASITAS MUNICIPAL WATER DISTRICT, party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation for cooperative water resources investigations in the Casitas Municipal Water District area, herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00.

- (a) \$7,200.00 by the party of the first part during the period  
November 1, 2015 to October 31, 2016
- (b) \$14,250.00 by the party of the second part during the period  
November 1, 2015 to October 31, 2016
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of : \$0.00

Description of the USGS regional/national program:  
*Not Applicable*

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program and, if already published by the party of the first part shall, upon request; be furnished by the party of the first part; at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties.

9. USGS will issue billings utilizing Department of the Interior Bill for Collection (form DI-1040). Billing documents are to be rendered **annually**. Payments of bills are due within 60 days after the billing date. If not paid by the due date, interest will be charged at the current Treasury rate for each 30 day period, or portion thereof, that the payment is delayed beyond the due date. (31 USC 3717; Comptroller General File B-212222, August 23, 1983.)

U.S. Department of the Interior  
U.S. Geological Survey  
Joint Funding Agreement  
FOR  
Water Resource Investigations

Agreement#: 16WSCA05100  
Customer#: 6000000825  
Project #: ZG009J5  
TIN #: 95-6004993  
USGS DUNS #: 1761-38857

**USGS Technical Point of Contact**

Name: Stuart Hill  
Supervisory Hydrologic Technician  
Address: 3130 Skyway Drive, Suite 602  
Santa Maria, CA 93455  
Telephone: (805) 928-9539  
Fax: (805) 928-9220  
Email: [sahill@usgs.gov](mailto:sahill@usgs.gov)

**Customer Technical Point of Contact**

Name: Steve Wickstrum  
General Manager  
Address: 1055 Ventura Avenue  
Oak View, CA 93022  
Telephone: (805) 649-2251  
Fax:  
Email:

**USGS Billing Point of Contact**

Name: Tamara Seubert  
Budget Analyst  
Address: 6000 J Street - Placer Hall  
Sacramento, CA 95819  
Telephone: (916) 278-3040  
Fax: (916) 278-3070  
Email: [tseubert@usgs.gov](mailto:tseubert@usgs.gov)

**Customer Billing Point of Contact**


Name:  
Address:  
Telephone:  
Fax:  
Email:

U.S. Geological Survey  
United States  
Department of Interior

CASITAS MUNICIPAL  
WATER DISTRICT

Signature

Signatures

By  (acting) Date: 2/10/2016  
Name: Eric G. Reichard  
Title: Director, USGS California Water Science  
Center

By \_\_\_\_\_ Date: \_\_\_\_\_  
Name:  
Title:

By \_\_\_\_\_ Date: \_\_\_\_\_  
Name:  
Title:


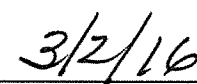
By \_\_\_\_\_ Date: \_\_\_\_\_  
Name:  
Title:

**CASITAS MUNICIPAL WATER DISTRICT**  
**Payable Fund Check Authorization**  
**Checks Dated 2/23/16-3/1/16**  
**Presented to the Board of Directors For Approval March 9, 2016**

Check	Payee			Description	Amount
000627	Payables Fund Account	#	9759651478	Accounts Payable Batch 022316	\$116,082.90
000628	Payables Fund Account	#	9759651478	Accounts Payable Batch 030116	\$278,211.33
					\$394,294.23
000629	Payroll Fund Account	#	9469730919	Estimated Payroll 3/17/16	\$145,000.00
					\$145,000.00
				Total	\$539,294.23

Publication of check register is in compliance with Section 53065.6 of the Government Code which requires the District to disclose reimbursements to employees and/or directors.

The above numbered checks, 000627-000629 have been duly audited is hereby certified as correct.

   
 \_\_\_\_\_  
 Denise Collin, Accounting Manager/Treasurer

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Signature

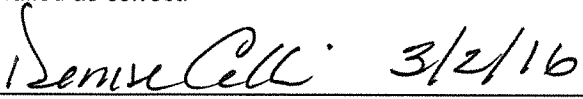
# A/P Fund

Publication of check register is in compliance with Section 53065.6 of the Government Code which requires the District to disclose reimbursements to employees and/or directors.

000627 A/P Checks: 022986-022991  
A/P Draft to P.E.R.S.  
A/P Draft to State of CA  
A/P Draft to I.R.S.  
Voids:

000628 A/P Checks: 022992-023088  
A/P Draft to P.E.R.S. 030163  
A/P Draft to State of CA 030162  
A/P Draft to I.R.S. 030161  
Voids: 021866, 023048

The above numbered checks,  
have been duly audited are hereby  
certified as correct.

 3/2/16

Denise Collin, Accounting Manager/Treasurer

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

CERTIFICATION

Payroll disbursements for the pay period ending 2/27/16  
Pay Date of 3/03/16  
have been duly audited and are  
hereby certified as correct.

Signed: Denise Collin 2/29/16  
Denise Collin

Signed: \_\_\_\_\_  
Signature

Signed: \_\_\_\_\_  
Signature

Signed: \_\_\_\_\_  
Signature

VENDOR SET: 01 Casitas Municipal Water D  
 BANK: \* ALL BANKS  
 DATE RANGE: 2/23/2016 THRU 3/01/2016

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
C-CHECK	VOID CHECK	V	3/01/2016			023048		

\* \* T O T A L S \* \*

	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	0	0.00	0.00	0.00
HAND CHECKS:	0	0.00	0.00	0.00
DRAFTS:	0	0.00	0.00	0.00
EFT:	0	0.00	0.00	0.00
NON CHECKS:	0	0.00	0.00	0.00
VOID CHECKS:	1	VOID DEBITS 0.00		
		VOID CREDITS 0.00	0.00	0.00

TOTAL ERRORS: 0

VENDOR SET: 01	BANK:	TOTALS:	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
			1	0.00	0.00	0.00
BANK:	TOTALS:		1	0.00	0.00	0.00



3/01/2016 2:21 PM  
 VENDOR SET: 01 Casitas Municipal Water D  
 BANK: AP ACCOUNTS PAYABLE  
 DATE RANGE: 2/23/2016 THRU 3/01/2016

A/P HISTORY CHECK REPORT

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
00004	ACWA/JPIA							
I-0394734	Mar 16 Health Insurance	R	2/23/2016	114,558.16		022986		114,558.16
00018	AT & T MOBILITY							
I-829434088X02142016	PT Wildlife Biol Monthly Cell	R	2/23/2016	11.98		022987		11.98
00021	AWA OF VENTURA COUNTY							
I-022316	CCWUC Seminar on 2/24/16	R	2/23/2016	490.00		022988		490.00
00596	HOME DEPOT							
C-3341081	Light Fixtures Returned	R	2/23/2016	123.06CR		022989		
I-3080718	Light Fixtures, Admin Office	R	2/23/2016	85.96		022989		
I-7561381	Light Fixtures	R	2/23/2016	123.06		022989		85.96
00625	OfficeTeam							
I-45086091	Admin Temp	R	2/23/2016	866.80		022990		866.80
02643	Take Care by WageWorks							
I-4043535	Reimburse Medical	R	2/23/2016	70.00		022991		70.00
02587	A&M LAWNMOWER SHOP							
I-41865	Field Generator for Dist Maint	R	3/01/2016	2,003.76		022992		2,003.76
02493	Advanced Engineering Acoustics							
I-160218	DB Level Test, 4M Pump Plant	R	3/01/2016	1,800.00		022993		1,800.00
00010	AIRGAS USA LLC							
I-9047351256	Welding Gasses for Pipelines	R	3/01/2016	125.17		022994		
I-9048342158	Prescrip Safety Glasses, E&M	R	3/01/2016	181.35		022994		
I-9048342159	Prescrip Safety Glasses, E&M	R	3/01/2016	181.35		022994		
I-9048481607	Confined Space Vents,O&M Dist	R	3/01/2016	679.41		022994		
I-9048672156	Confined Space Fans, Pipelines	R	3/01/2016	1,982.31		022994		3,149.59
00012	ALL-PHASE ELECTRIC SUPPLY CO.							
I-5665604560	Electrical Panels, Hoist House	R	3/01/2016	1,685.88		022995		
I-5665605040	Electrical Tape for Pump Plant	R	3/01/2016	412.67		022995		2,098.55
02824	ALLCOM PRODUCTS LLC							
C-34657a	Accrue Use Tax	R	3/01/2016	9.71CR		022996		
D-34657a	Accrue Use Tax	R	3/01/2016	9.71		022996		
I-34657	Esteem Modem Cable, Telemetry	R	3/01/2016	143.30		022996		143.30
00836	AMERICAN RED CROSS							
I-10429632	CPR/AED Training, LCRA	R	3/01/2016	133.00		022997		
I-10430860	First Aid Training-WP	R	3/01/2016	35.00		022997		168.00

3/01/2016 2:21 PM  
 VENDOR SET: 01 Casitas Municipal Water D  
 BANK: AP ACCOUNTS PAYABLE  
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00417	APPLIED INDUSTRIAL TECHNOLOGY							
I-7007133956	Parts for Air Comp, Rincon PP	R	3/01/2016	31.57		022998		31.57
00014	AQUA-FLO SUPPLY							
I-884953	Parts for Ran Gutters, Maint	R	3/01/2016	82.67		022999		
I-891562	Pipe Repair Clamp, O&M CS	R	3/01/2016	13.90		022999		
I-893521	PVC Parts for Waterpark	R	3/01/2016	47.42		022999		
I-893523	Erosion Control Straw Rolls, PL	R	3/01/2016	254.56		022999		
I-894055	Toro Parts for LCRA Maint	R	3/01/2016	50.63		022999		449.18
01703	ARNOLD LAROCHELLE MATTHEWS							
I-46468	Matter#5088016, 1/16	R	3/01/2016	372.05		023000		
I-46469	Matter#5088015, 1/16	R	3/01/2016	6,076.48		023000		
I-46470	Matter#5088001, 1/16	R	3/01/2016	5,439.00		023000		11,887.53
01666	AT & T							
I-000007661189	T-1 Line 9391051740	R	3/01/2016	339.20		023001		
I-000007661199	T-1 Lines 9391051750	R	3/01/2016	1,066.25		023001		
I-000007665215	Local, Regional, Long Distance	R	3/01/2016	1,142.54		023001		
	Bill Payer 9391035542							
I-000007716817	T-1 Lines, Acct#9391035541	R	3/01/2016	867.94		023001		3,415.93
00020	AVENUE HARDWARE, INC							
I-62501	Fittings for Intake Screen,Dam	R	3/01/2016	37.73		023002		
I-62616	Bolts for Main Filters, TP	R	3/01/2016	29.94		023002		
I-62693	Bolts for Filter #8, TP	R	3/01/2016	36.89		023002		104.56
00030	B&R TOOL AND SUPPLY CO							
I-1900878441	Impact Wrenches for Pipelines	R	3/01/2016	645.32		023003		645.32
01153	RUSS BAGGERLY							
I-Jan 16	Reimburse Mileage 1/16	R	3/01/2016	79.92		023004		79.92
00679	BAKERSFIELD PIPE & SUPPLY INC							
I-S2239803002	28" Manway Gaskets, TP	R	3/01/2016	654.25		023005		654.25
00032	BIOVIR LABORATORIES, INC							
I-151990	Giardia/Crypto 1/5/16	R	3/01/2016	365.00		023006		365.00
00038	BLACK GOLD INDUSTRIES							
I-130559436	Waste Oil Pickup 12/15	R	3/01/2016	125.00		023007		125.00
02799	Thomas Bonar							
I-081215	Camping Fee Refund	R	3/01/2016	25.00		023008		25.00

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01062	BP Medical Supplies							
C-E183096a	Accrue Use Tax	R	3/01/2016	4.20CR		023009		
D-E183096a	Accrue Use Tax	R	3/01/2016	4.20		023009		
I-E183096	Adult AED Pad, LCRA	R	3/01/2016	56.00		023009		56.00
02796	Bruce W. Hull & Associates, In							
I-022216	GSWC Appraisal Report	R	3/01/2016	25,000.00		023010		25,000.00
09983	CALIFORNIA URBAN WATER							
I-G1201637	2016 Dues	R	3/01/2016	1,681.96		023011		1,681.96
00589	CDW-G							
I-CFC2712	Laptop for E&M	R	3/01/2016	2,933.97		023012		2,933.97
00511	Centers for Family Health							
I-111315	DOS 11/13/15, Claim#15-21637	R	3/01/2016	103.68		023013		103.68
00295	COMMUNICATION SERVICES							
I-16755	Direct TV Repairs, LCRA	R	3/01/2016	427.50		023014		427.50
00061	COMPUWAVE							
I-SB02082520	Printer for LCRA	R	3/01/2016	261.23		023015		
I-SB02082622	Jabra Headset for Admin	R	3/01/2016	268.22		023015		
I-SB02082745	Toner for LCRA	R	3/01/2016	104.53		023015		633.98
00062	CONSOLIDATED ELECTRICAL							
I-9009729274	Cable Ties for Telemetry	R	3/01/2016	65.32		023016		
I-9009729300	Update Scada Software-Robles	R	3/01/2016	1,187.88		023016		
I-9009729725	Cable Ties for Telemetry	R	3/01/2016	68.13		023016		1,321.33
00331	COORDINATED WIRE ROPE							
I-79897	Wire Rope Clips for LCRA Maint	R	3/01/2016	166.63		023017		166.63
01483	CORVEL CORPORATION							
I-698998761	Bill Review	R	3/01/2016	12.32		023018		12.32
01647	JOEL COX							
I-022616	Advance for Travel	R	3/01/2016	82.00		023019		82.00
00064	CROWDER BACKFLOW SERVICES, INC							
I-24168	Retest & Cert Backflow, TP	R	3/01/2016	72.00		023020		72.00
00081	DELTA LIQUID ENERGY							
I-217910	Propane for Damtender	R	3/01/2016	110.09		023021		110.09

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00086	E.J. Harrison & Sons Inc							
I-27980	Acct#1C00053370	R	3/01/2016	141.42		023022		
I-28004	Acct#1C00054240	R	3/01/2016	149.71		023022		291.13
00099	FGL ENVIRONMENTAL							
I-600355A	Lake Nutrient Monitoring 1/8	R	3/01/2016	1,328.00		023023		
I-600642A	Manganese Monitoring	R	3/01/2016	70.00		023023		
I-600933A	Manganese Monitoring	R	3/01/2016	70.00		023023		
I-600934A	Manganese Monitoring	R	3/01/2016	70.00		023023		
I-601187A	Turbidity	R	3/01/2016	16.00		023023		1,554.00
00969	FLW, INC.							
I-1121024	Temperature Switch, Telemetry	R	3/01/2016	513.26		023024		
I-1121466	Temp Connectors for Pump Motor	R	3/01/2016	254.75		023024		768.01
00104	FRED'S TIRE MAN							
I-88887	Rear Brakes for #24, TP Truck	R	3/01/2016	251.32		023025		
I-89260	Oil Change, #41	R	3/01/2016	39.67		023025		290.99
00106	FRONTIER PAINT							
I-F0211181	Paint for Waterpark	R	3/01/2016	45.88		023026		
I-F0211271	Paint Supplies for Waterpark	R	3/01/2016	70.32		023026		
I-F0211887	Paint Supplies for Waterpark	R	3/01/2016	79.34		023026		
I-F0211943	Paint Sprayer Extension, Maint	R	3/01/2016	111.07		023026		
I-F0212088	Paint for Waterpark	R	3/01/2016	45.88		023026		352.49
01280	FRY'S ELECTRONICS, INC.							
I-6261586	Duct Tape for IT Dept	R	3/01/2016	9.71		023027		9.71
02720	Garda CL West, Inc.							
I-20136362	Excess Items Charges, LCRA	R	3/01/2016	14.00		023028		14.00
00216	THE GAS COMPANY							
I-030116	Acct#00801443003	R	3/01/2016	370.47		023029		370.47
02829	Gem Equipment Company							
I-01154377	Oil Plug for UOPP Unit#1	R	3/01/2016	11.22		023030		11.22
00432	Government Finance Officers As							
I-021816	Membership 4/16-3/17	R	3/01/2016	160.00		023031		160.00
00115	GRAINGER, INC							
I-9020166659	Anti Slip Tape for TP	R	3/01/2016	80.00		023032		
I-9025370256	Cleaning Tissues for E&M	R	3/01/2016	42.58		023032		122.58

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00746	GREEN THUMB INTERNATIONAL							
I-476572	Plants for Waterpark	R	3/01/2016	260.63		023033		
I-476757	Liquid Start for LCRA Maint	R	3/01/2016	3.86		023033		264.49
02827	Joseph Hall							
I-021716	Camping Fee Refund	R	3/01/2016	26.50		023034		26.50
01052	HARBOR FREIGHT TOOLS USA, INC							
I-746037	Winch for Barge, LCRA	R	3/01/2016	402.48		023035		402.48
00596	HOME DEPOT							
I-4874124	Portable Air Compressor, TP	R	3/01/2016	151.17		023036		151.17
00894	HOSE-MAN, INC.							
I-5223098000105	Air Hoses for Pipelines	R	3/01/2016	498.88		023037		498.88
00127	INDUSTRIAL BOLT & SUPPLY							
I-1659481	Coupling Nuts for TP	R	3/01/2016	6.45		023038		6.45
00583	JANO GRAPHICS							
I-54516	Winter 2016 Newsletter	R	3/01/2016	2,253.99		023039		2,253.99
00131	JCI JONES CHEMICALS, INC							
I-681528	Chlorine for TP, CM#681554	R	3/01/2016	1,770.00		023040		1,770.00
01022	KELLY CLEANING & SUPPLIES, INC							
I-29868029	Janitorial Services, LCRA	R	3/01/2016	280.00		023041		280.00
01272	LISA KOLAR							
I-011116	Additional Advance for Travel	R	3/01/2016	195.90		023042		195.90
02329	Matson Industrial Finishing							
I-42901	Powdercoat Manway Flanges, TP	R	3/01/2016	666.25		023043		666.25
00329	MCMASTER-CARR SUPPLY CO.							
I-49195729	Parts for WP Restroom Repair	R	3/01/2016	3,049.37		023044		
I-49847358	U-Bolts for UV Units, WP	R	3/01/2016	116.29		023044		
I-50464502	Toilet Partitions, LCRA	R	3/01/2016	1,017.62		023044		4,183.28
02129	Tracy Medeiros							
I-Feb 16	Safety Boots	R	3/01/2016	96.70		023045		96.70
01263	MEG-ALERT, INC							
I-4979	Upgrades on 2 Meg Alerts	R	3/01/2016	2,990.00		023046		2,990.00

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00151	MEINERS OAKS ACE HARDWARE							
I-705299	Drill Bits for WP	R	3/01/2016	18.09		023047		
I-705701	Drill Bits, Paint Supplies, WP	R	3/01/2016	31.52		023047		
I-705746	Light Bulbs, Bolts for WP	R	3/01/2016	31.59		023047		
I-705808	Paint Supplies for LCRA RR	R	3/01/2016	120.57		023047		
I-705830	Paint for Men's Shower, WP	R	3/01/2016	458.72		023047		
I-705879	Light Bulbs, Primer for DM	R	3/01/2016	17.96		023047		
I-705965	Drop Cloths, Mskg Tape, Maint	R	3/01/2016	74.70		023047		
I-705968	Padlock, Sweep for Door, DM	R	3/01/2016	30.30		023047		
I-705994	Coveralls, Spray Hood for Maint	R	3/01/2016	7.21		023047		
I-706020	Paint for Lunchroom Ceiling, DM	R	3/01/2016	24.27		023047		
I-706025	Paint Supplies for LCRA RR	R	3/01/2016	103.64		023047		
I-706063	Cell Phone Holder, PP	R	3/01/2016	8.79		023047		
I-706074	Batteries, Paint Supplies, DM	R	3/01/2016	29.23		023047		
I-706194	Pliers, Bolts for Pump Plants	R	3/01/2016	16.11		023047		
I-706246	Bolts & Screws for Waterpark	R	3/01/2016	3.40		023047		
I-706551	Trash Bags, Sanitizer, LCRA	R	3/01/2016	18.38		023047		
I-706742	Sanding Mask, Watering Can WP	R	3/01/2016	30.30		023047		
I-706751	Parts for Gate Repair on Dam	R	3/01/2016	37.71		023047		
I-706929	Hammer Bits, Bolts for WP	R	3/01/2016	40.30		023047		
I-707029	Screws for Waterpark	R	3/01/2016	25.14		023047		
I-707138	Shower Parts for LCRA Maint	R	3/01/2016	42.63		023047		
I-707235	Parts for LCRA Maint	R	3/01/2016	8.76		023047		1,179.32
02185	Oasis Technology Inc.							
I-0212161	Consulting with Management	R	3/01/2016	375.00		023049		375.00
00163	OFFICE DEPOT							
I-824159833001	Office Supplies	R	3/01/2016	84.08		023050		84.08
00625	OfficeTeam							
I-45137813	Temp for Admin	R	3/01/2016	693.44		023051		
I-45184595	Admin Temp	R	3/01/2016	866.80		023051		1,560.24
00160	OILFIELD ELECTRIC CO, INC							
I-9150	Upgrade Switchgear, Ave 2 PP	R	3/01/2016	52,107.50		023052		52,107.50
01570	Ojai Auto Supply LLC							
I-358536	Headlight Bulb for #41	R	3/01/2016	43.18		023053		
I-360415	Blower Resistor for #37	R	3/01/2016	32.24		023053		
I-365023	Battery Charger for LCRA Mainr	R	3/01/2016	192.43		023053		
I-365082	Parts for Barge Winch, LCRA	R	3/01/2016	204.93		023053		
I-366347	Oil for Pump Plants	R	3/01/2016	12.55		023053		485.33

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00602	OJAI TRUE VALUE							
I-50826	Masking Tape for Lab	R	3/01/2016	2.25		023054		2.25
00168	OJAI VALLEY NEWS							
I-300002592	2/27 Workshop Ad	R	3/01/2016	250.00		023055		
I-300002692	2/27 Workshop Ad	R	3/01/2016	250.00		023055		500.00
00169	OJAI VALLEY SANITARY DISTRICT							
I-18117	Cust#52921	R	3/01/2016	55.36		023056		55.36
01627	OSCAR'S TREE SERVICE							
I-12342	Tree Service at LCRA	R	3/01/2016	950.00		023057		950.00
02826	Perry of Santa Barbara							
I-022616	2016 Ford Escape for Admin	R	3/01/2016	21,186.00		023058		21,186.00
02828	PhycoTech Inc.							
C-6524a	Accrue Use Tax	R	3/01/2016	11.55CR		023059		
D-6524a	Accrue Use Tax	R	3/01/2016	11.55		023059		
I-6524	Algal Counting Chamber, Lab	R	3/01/2016	164.00		023059		164.00
00627	PORT SUPPLY							
I-2884635	Rain Gear for TP	R	3/01/2016	144.54		023060		
I-7716	Parts for SS Relief	R	3/01/2016	28.60		023060		173.14
00788	QUINN COMPANY							
I-PC110032314	Seat Cushion Kit for Forklift	R	3/01/2016	169.69		023061		169.69
00313	ROCK LONG'S AUTOMOTIVE							
I-17169	Electrical Repair, #37	R	3/01/2016	101.50		023062		
I-17251	Vac Line Tubing, Eq#31	R	3/01/2016	240.52		023062		
I-17257	Lube & Oil Change, #29	R	3/01/2016	124.39		023062		466.41
02475	Rutan & Tucker, LLP							
I-739974	Acct#0295180001, 1/16	R	3/01/2016	2,962.00		023063		2,962.00
01109	SALVADOR LOERA TRANSPORTATION							
I-15290	Sand & Base for Pipelines	R	3/01/2016	500.00		023064		
I-15291	Sand & Base for Pipelines	R	3/01/2016	415.00		023064		915.00
01107	SAWYER PETROLEUM							
I-S105399	Lube for Pumps & Bearings, PP	R	3/01/2016	1,731.21		023065		1,731.21

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02756	SC Fuels							
I-0529247	Gas & Diesel for LCRA	R	3/01/2016	1,895.47		023066		1,895.47
01345	MICHAEL SHIELDS							
I-022616	Advance for Travel	R	3/01/2016	70.00		023067		70.00
02003	Sostre Enterprises Inc.							
I-3078	Monthly CMS Fee/Web Hosting	R	3/01/2016	249.00		023068		
I-3084	Mobile Friendly Website Update	R	3/01/2016	2,400.00		023068		2,649.00
00215	SOUTHERN CALIFORNIA EDISON							
I-022416	Acct#2312811532	R	3/01/2016	68.61		023069		
I-022416a	Acct#2266156405	R	3/01/2016	118.28		023069		
I-022416b	Acct#2157697889	R	3/01/2016	535.56		023069		
I-030116	Acct#2210507034	R	3/01/2016	9,001.34		023069		9,723.79
02202	Stanley Pest Control							
I-798457	Pest Control Waterpark	R	3/01/2016	170.00		023070		170.00
02643	Take Care by WageWorks							
I-4061483	Reimburse Medical	R	3/01/2016	75.00		023071		75.00
01662	TYLER TECHNOLOGIES, INC.							
I-025148060	Monthly UB Online Fees	R	3/01/2016	153.00		023072		153.00
02821	Universal Flow Monitors Inc.							
C-275647a	Accrue Use Tax	R	3/01/2016	31.28CR		023073		
D-275647a	Accrue Use Tax	R	3/01/2016	31.28		023073		
I-275647	Flow Meter for TP	R	3/01/2016	435.00		023073		435.00
10011	VENTURA CONCRETE CUTTING							
I-5664	Asphalt Grinding, Svc Line Rpr	R	3/01/2016	800.00		023074		800.00
00246	VENTURA COUNTY AIR POLLUTION							
I-1035092	Permit for Rincon PP Generator	R	3/01/2016	565.00		023075		565.00
09955	VENTURA WHOLESALE ELECTRIC							
I-206997	Splash Pad UV Installation, WP	R	3/01/2016	273.59		023076		
I-207275	Electrical for WP UV Install	R	3/01/2016	136.97		023076		410.56
00630	WESCO							
I-093944	Tube Fittings for Pump Plants	R	3/01/2016	18.84		023077		18.84



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00124	ICMA RETIREMENT TRUST - 457							
I-CUI201603011075	457 CATCH UP	R	3/01/2016	461.54		023078		
I-DCI201603011075	DEFERRED COMP FLAT	R	3/01/2016	1,859.62		023078		
I-DI%201603011075	DEFERRED COMP PERCENT	R	3/01/2016	134.71		023078		2,455.87
01960	Moringa Community							
I-MOR201603011075	PAYROLL CONTRIBUTIONS	R	3/01/2016	16.75		023079		16.75
00985	NATIONWIDE RETIREMENT SOLUTION							
I-CUN201603011075	457 CATCH UP	R	3/01/2016	211.53		023080		
I-DCN201603011075	DEFERRED COMP FLAT	R	3/01/2016	3,983.85		023080		
I-DN%201603011075	DEFERRED COMP PERCENT	R	3/01/2016	319.30		023080		4,514.68
00180	S.E.I.U. - LOCAL 721							
I-COP201603011075	SEIU 721 COPE	R	3/01/2016	12.00		023081		
I-UND201603011075	UNION DUES	R	3/01/2016	692.75		023081		704.75
01400	STATE DISBURSEMENT UNIT							
I-CS4201603011075	Payroll Deduction 10-D000121	R	3/01/2016	818.57		023082		818.57
00230	UNITED WAY							
I-UWY201603011075	PAYROLL CONTRIBUTIONS	R	3/01/2016	60.00		023083		60.00
1	Shashra J Bernard							
I-000201602241070	TS Refund	R	3/01/2016	5.00		023084		5.00
1	Shashra J Bernard							
I-000201602241071	TS Refund	R	3/01/2016	5.00		023085		5.00
1	Marijke Cadenelli							
I-000201602291073	UB Refund	R	3/01/2016	35.46		023086		35.46
1	Patrick J O Brien							
I-000201602291072	UB Refund	R	3/01/2016	33.73		023087		33.73
1	Donna Everton							
I-000201602291074	UB Refund	R	3/01/2016	8.62		023088		8.62
00128	INTERNAL REVENUE SERVICE							
I-T1 201603011075	Federal Withholding	D	3/01/2016	26,228.93		030161		
I-T3 201603011075	FICA Withholding	D	3/01/2016	25,652.58		030161		
I-T4 201603011075	Medicare Withholding	D	3/01/2016	5,999.40		030161		57,880.91

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00049	STATE OF CALIFORNIA							
I-T2 201603011075	State Withholding	D	3/01/2016	9,032.99		030162		9,032.99
00187	CALPERS							
I-PBB201603011075	PERS BUY BACK	D	3/01/2016	66.87		030163		
I-PBP201603011075	PERS BUY BACK	D	3/01/2016	161.96		030163		
I-PEB201603011075	PEBRA EMPLOYEES PORTION	D	3/01/2016	1,630.53		030163		
I-PER201603011075	PERS EMPLOYEE PORTION	D	3/01/2016	9,635.94		030163		
I-PRB201603011075	PEBRA EMPLOYER PORTION	D	3/01/2016	1,627.12		030163		
I-PRR201603011075	PERS EMPLOYER PORTION	D	3/01/2016	10,030.78		030163		23,153.20

\* \* T O T A L S \* \*

	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	102	304,252.13	0.00	304,252.13
HAND CHECKS:	0	0.00	0.00	0.00
DRAFTS:	3	90,067.10	0.00	90,067.10
EFT:	0	0.00	0.00	0.00
NON CHECKS:	0	0.00	0.00	0.00
VOID CHECKS:	0	VOID DEBITS 0.00		
		VOID CREDITS 0.00	0.00	0.00

TOTAL ERRORS: 0

VENDOR SET: 01	BANK: AP	TOTALS:	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
			105	394,319.23	0.00	394,319.23
BANK: AP		TOTALS:	105	394,319.23	0.00	394,319.23
REPORT TOTALS:			106	394,319.23	0.00	394,319.23

Void stated dated ck# 21866 dated 9/30/15  
 re issued on ck# 23008 <25.00>

394,294.23

**Casitas Municipal Water District**  
**Reimbursement Disclosure Report (1)**  
**Fiscal Year 2015/16**  
**July 1, 2015-February 29, 2016**

<u>Date paid</u>	<u>Board of Director/ Employee</u>	<u>Description</u>	<u>Amount Paid</u>
7/7/2015	Neil Cole	Lodging for AWWA Conference 6/8/15-6/10/15	273.76
7/7/2015	Neil Cole	Private Vehicle Mileage AWWA Conference	113.85
7/14/2015	Scott Lewis	Airfare to CMWD 6/21/15-6/27/15	569.20
7/14/2015	Scott Lewis	Lodging CMWD 6/21/15-6/27/15	490.50
7/14/2015	Scott Lewis	Car Rental CMWD 6/21/15-6/27/15	367.60
7/23/2015	Troy Garst	Safety Boots	155.88
7/23/2015	Rebekah Vieira	Private Vehicle Mileage to SHRM Conference 6/28/15	178.83
7/28/2015	Susan McMahon	Water TP Operation Course	119.68
8/13/2015	Vincent Godinez	Safety Boots	170.00
8/13/2015	Rebekah Vieira	Private Vehicle Mileage to SHRM Conference 7/1/15	178.83
8/19/2015	Ron Yost	Damtender Property Tax Bill	557.87
8/27/2015	Lindsay Cao	CWEA Renewal	164.00
8/27/2015	Larry Harris	Coffee/Food for Water Conservation Workshop 8/8/15	155.99
9/16/2015	Scott Lewis	Airfare to CMWD 8/26/15-9/1/15	259.20
9/16/2015	Scott Lewis	Lodging CMWD 8/26/15-9/1/15	565.44
9/16/2015	Scott Lewis	Car Rental CMWD 8/26/15-9/1/15	412.17
9/16/2015	Brian Taylor	Meal for Crews Working Overtime on Leak	113.63
9/16/2015	Robert Vasquez	2 Pairs of Safety Boots	261.44
9/22/2015	Suzi Taylor	Thermal Paper for Gate	177.32
10/7/2015	Vincent Godinez	Safety Boots	147.93
10/13/2015	Willis Hand	T5 Renewal	105.00
10/21/2015	Joel Cox	Safety Boots	160.18
10/21/2015	Scott MacDonald	Advance for AWWA Fall Conference	956.00
10/21/2015	Luke Soholt	Advance for AWWA Fall Conference	586.00
10/27/2015	Scott Lewis	Airfare to CMWD 10/25/15-11/5/15	279.20
11/3/2015	Todd Evans	Safety Boots	166.61
11/3/2015	Brian Taylor	Safety Boots	170.00
11/3/2015	Rebekah Vieira	Private Vehicle Mileage to CalPelra Conference	326.03
11/12/2015	Vincent Godinez	Water System Course	115.68
11/25/2015	Scott Lewis	Lodging CMWD 10/25/15-11/5/15	869.99
11/25/2015	Scott Lewis	Car Rental CMWD 10/25/15-11/5/15	614.53
11/25/2015	Scott Lewis	Airport Parking 10/25/15-11/5/15	110.00
11/25/2015	Scott Lewis	Hotel Parking 10/25/15-11/5/15	110.00
11/25/2015	Brian Taylor	Private Vehicle Mileage to AWWA Fall Conference	397.33
11/25/2015	Brian Taylor	Hotel AWWA Fall Conference 10/26/15-10/29/15	875.84
11/25/2015	Ron Yost	Safety Boots	160.18
12/1/2015	Eric Behrendt	Water Class & Manual	115.68
12/1/2015	Susan McMahon	Lodging 11/16/15-11/21/15 NALMS Conference	703.00
12/9/2015	Ronald Merckling	Lodging 12/1/15-12/4/15 ACWA Conference	635.91
12/9/2015	John Parlee	Safety Boots	170.00
12/16/2015	Bill Hicks	Lodging 12/1/15-12/4/15 ACWA Conference	635.91
12/16/2015	Bill Hicks	Private Vehicle Mileage ACWA Conference	232.30
12/16/2015	Scott Lewis	Airfare to CMWD 12/13/15-12/17/15	416.20
12/21/2015	Gerardo Herrera	Water Class & Manual	232.90
12/21/2015	Brian Taylor	Meal for Crews Working Overtime on Leak	106.15
12/21/2015	Robert Vasquez	Water Class	138.00
12/30/2015	Eric Grabowski	Water Class	168.00
12/30/2015	Scott MacDonald	Water Class	168.00
12/30/2015	Scott MacDonald	T3 Certificate	100.00

**Casitas Municipal Water District  
 Reimbursement Disclosure Report (1)  
 Fiscal Year 2015/16  
 July 1, 2015-February 29, 2016**

1/6/2016	Joel Cox	Mapping & GIS Course	238.50
1/6/2016	Eric Grabowski	Safety Boots	170.00
1/6/2016	Steve Wickstrum	Roundtrip Personal Vehicle Mileage to ACWA Conf	235.76
1/13/2016	Scott Lewis	Lodging CMWD 12/13/15-12/17/15	355.12
1/13/2016	Scott Lewis	Car Rental CMWD 12/13/15-12/17/15	232.33
1/13/2016	Scott Lewis	Fall Term Tuition	1,822.11
1/13/2016	Luke Soholt	US History Course	168.00
1/19/2016	Henry Islas	Safety Boots	170.00
1/26/2016	Suzi Taylor	EDD Training Seminar-Suzi Taylor & Carol Belser	150.00
1/26/2016	Suzi Taylor	Title 22 Instructor Courses-Michael Chauvel, Jessica Lugotoff	220.00
2/9/2016	Scott Lewis	American Fisheries Society 2016 Membership	100.00
2/9/2016	Scott Lewis	Airfare to CMWD 2/21/16-2/26/16	315.20
2/17/2016	Lisa Kolar	Advance for CPRS Class	807.00
2/17/2016	Brian Taylor	Safety Boots	170.00

Note:

1) Reimbursement Disclosure Report prepared pursuant to California Government Code 53065.5

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**CASITAS MUNICIPAL WATER DISTRICT  
INTEROFFICE MEMORANDUM**

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**TO:** STEVEN E. WICKSTRUM, GENERAL MANAGER  
**FROM:** NEIL COLE, PRINCIPAL CIVIL ENGINEER  
**SUBJECT:** 4M PUMP PLANT SOUND TEST RESULTS  
**DATE:** FEBRUARY 29, 2016

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**RECOMMENDATION:**

It is recommended that the Board finds that the sound reducing measures taken at the 4M Pump Plant have reduced sound below the criteria in Ventura County General Plan Noise Source Limits Section 2.16.4(c) and no further action is required.

**BACKGROUND AND DISCUSSION:**

At the June 26, 2013 Board meeting (Memorandum & Minutes attached) the Board authorized staff to expend up to \$50,000 to purchase and install the sound walls/curtains to meet Section 2.16.4(c) of the Ventura County General Plan Noise Source Limits. No particular brand of sound wall or curtains was approved at the meeting. These limits are the limits the County would use to assess the noise from a proposed project. New water pumping facilities are excluded from having to meet these requirements as are existing facilities.

Casitas consultant, Advanced Engineering Acoustics (Marlund Hale Ph.D.), recommended motor girdles as the most effective sound reducing method for electric motors. Motor girdles are sound panels configured to fit directly over the motors, absorbing sound. Casitas also investigated Acoustiblok and similar sound panels.

Casitas' Board, at the May 28, 2014 meeting (memorandum and minutes are attached) authorized the purchase of three motor girdles and sound panels from Acoustiblok. The sound panels are used for the horizontal pump at the upper Ojai Pump. Based on the sound tests after installation, the Acoustiblok panels on the horizontal pump reduced sound less than the motor girdles reduced sound from the vertical pumps.

At the October 14, 2015 Board meeting, the Board directed staff to order and install Acoustiblok, Inc. fence material to the lower portion of the motor girdle stands and take post installation sound tests of the 4M Pump Plant. The staff memorandums and Board minutes regarding the sound mitigation are attached to this memorandum.

The primary concern voiced by Mr. Holly, representing the neighbors, is the high frequency

portion of the sound produced by the 4M Pump Plant pumps and motors.

High frequency sound is marked by short wave lengths that are generally easier to mitigate than longer deeper sound waves. Sound is also largely line of sight. The topography in the area is generally rising to the north, east and south and falling to the west. At least two homes are located significantly above the pumps. The closest residence is to the west of the property, approximately 196 feet from the closest pump. The Holly's residence is approximately 460 feet northeast from the nearest 4M pump and significantly higher than the pump plant. Further complicating the sound mitigation is the presence of the Ojai East Reservoir, a 40 foot high steel water tank, to the east of the 4M pump plant.

The Acoustiblok Inc. fence material was installed along the base of all three pumps. Pump No.1 had a mechanical seal problem that required repair before the sound testing could be completed. Sound tests were completed on February 19, 2016. Each pump was run for 15 minutes. Two sound meters recorded the level, frequency and the audio during the duration of the test. One sound meter was placed 6 feet away from the operating pump. The other sound meter was located near the western property line, on an earth mound between the pump and the closest residence.

The motor girdles have reduced the noise level by 10 dB or more. This has reduced the sound at the nearest home to below the Ventura County General Plan Noise Source Limits contained in Section 2.16.4(c).

Pumps No. 1 and 3 are and have been significantly quieter than Pump No. 2. There are no indications of any mechanical problems with Pump No. 2. The pumps or motors are not scheduled to be replaced within the next 10 years.

The highest dB level sound frequency is being generated around 2000 Hz. High frequency sound is roughly defined as 2000 to 8000 Hz. 2000 Hz sound is sometimes described as an "eeeeee" sound or as the highest flute note. 2000 Hz is also considered very important for understanding speech. The noise level of this frequency is calculated to be 43 dB at the closest residence for Pump No. 2.

Alternatives:

1. The Board could find that the mitigation measures have met the County Standards and direct staff that no other mitigation be performed by the Casitas.
2. The Board could direct staff to only operate Pumps No. 1 & 3 as primary pumps and only operate Pump No. 2 as a backup during the hours of 10 pm to 6 am.
3. The Board could direct staff to add sound reducing material to the west side of the pump plant to further reduce noise for the closest residence.
4. The Board could direct staff to rebuild the motor for Pump No. 2 in the hopes that this would

reduce the noise generated by this motor. This is estimated to cost \$20,000 and there is no guarantee that this will reduce the noise emanating from this motor.

5. The Board could direct staff to follow the suggestion from the Acoustiblok sales representative and Mr. Holly and remove the motor girdles and install Acoustiblok sound panels. If this alternative is selected, it is recommended that the adjacent property owners sign an agreement that no further action will be taken by the homeowners if this option is authorized and completed.





**Advanced Engineering Acoustics**  
663 Bristol Avenue  
Simi Valley, California 93065-5402  
(805) 583-8207 - Voice   (805) 231-1242 - Cell   (805) 522-6636 - Fax

February 17, 2016

Mr. Neil Cole  
Casitas Municipal Water District  
1055 N. Ventura Avenue  
Oak View , CA 93022

SUBJECT:    Operations Noise Measurements (Enhanced Mitigation)  
                 Casitas Municipal Water District (CMWD) - 4m Pumping Plant  
                 Noise Monitoring Report

Dear Mr. Cole:

At your request, Advanced Engineering Acoustics (AEA) has conducted enhanced mitigation pump operation noise measurements for the 4m Pumping Plant. Each pump motor was fitted with a metal enclosure motor mute with a lower skirt made of heavy rubberized material that extended approximately 18-inches below the bottom of the motor mute. This letter report summarizes the results of our plant noise monitoring of each of the three pumps in the 4m Plant.

Fundamentals of Sound - Physically, sound pressure magnitude is measured and quantified in terms of the decibel (dB), which is associated with a logarithmic scale based on the ratio of a measured sound pressure to the reference sound pressure of 20 micropascal ( $20 \mu\text{Pa} = 20 \times 10^{-6} \text{ N/m}^2$ ). However, the decibel system can be very confusing. For example, doubling or halving the number of sources of equal noise (a 2-fold change in acoustic *energy*) changes the receptor noise by only 3 dB, which is a barely perceptible sound change for humans. While doubling or halving the sound *loudness* at the receiver results from a 10 dB change and also represents a 10-fold change in the acoustic *energy*.

County Noise Standards - The noise standards for the County of Ventura are outlined in Sec. 2.16 Noise et. al., of the Ventura County General Plan Policies (see this information online at [www.ventura.org/planning](http://www.ventura.org/planning) ). Table 1 shows the county noise standards for noise-generating sources.

**Table 1. Ventura County General Plan Noise Source Limits**

- (4) Noise generators, proposed to be located near any *noise sensitive use*, shall incorporate noise control measures so that ongoing outdoor noise levels **received by the noise sensitive receptor, measured at the exterior wall of the building**, do not exceed any of the following standards:
- a. Leq(1hr) of 55 dB(A) or ambient noise level plus 3 dB(A), whichever is greater, during any hour from 6:00 a.m. to 7:00 p.m.
  - b. Leq(1hr) of 50 dB(A) or ambient noise level plus 3 dB(A), whichever is greater, during any hour from 7:00 p.m. to 10:00 p.m.
  - c. Leq(1hr) of 45 dB(A) or ambient noise level plus 3 dB(A), whichever is greater, during any hour from 10:00 p.m. to 6:00 a.m.

4m Pump Plant Noise Monitoring - CMWD mitigated pump operation noise measurements were conducted at four monitoring locations on the subject property. The nearest residential location is approximately 210 feet west of the three 4m Plant pumps. The enhanced mitigated pump's operation noise are reported herein. The noise monitoring was conducted on Wednesday, February 10, 2016 beginning at 3:15 p.m., using two NTi Model XL2 Type 1 Sound Level and Frequency Analyzers, which were calibrated according to the manufacturer's instructions. Figure 1 is a vicinity map with the project site. Figure 2 shows a vicinity aerial view and the project site with the sound meter locations 6 feet from the three pumps and near the plant boundary nearest the westerly residence. Each pump was operated individually and the pump sound meter was moved to a position 6 feet from the pump motor's enclosure side wall.

The human hearing system is not equally sensitive to sound at all frequencies. Because of this variability, a frequency-dependent adjustment called "A-weighting" has been devised so that sound may be measured in a manner similar to the way the human hearing system responds. The A-weighted sound level is abbreviated "dBA". Data herein is both unweighted and A-weighted.



**Figure 1. Project Vicinity Map**



**Figure 2. Aerial View of the Project Site, Sound Meter Locations and West Residence**

Summary of Plant Measurements - Table 2 shows the approximate distances between the mitigated pumps and their sound meter locations. Table 3 shows the measured daytime noise for Pump 1. Table 4 shows the measured daytime noise for Pump 2. Table 5 shows the measured daytime noise for Pump 3. Table 6 shows the mitigated pump noise at the nearest residence to the west, as calculated for each operating pump using the SoundPLAN noise modeling software. Figures 3 through 5 show the one-third octave band noise spectra of the mitigated pumps. The Appendix has the overall and spectral noise measurement and calculated results for each individual pump.

**Table 2. Approximate Distances from 4m Plant Pumps to SLM B and Residence**

	<b>Pump 1 Distance, feet</b>	<b>Pump 2 Distance, feet</b>	<b>Pump 3 Distance, feet</b>
<b>SLM B</b>	152	138	121
<b>R1</b>	226	208	196

**Table 3. Measured Mitigated Pump 1**

<b>Pump Noise Measurement Period</b>	<b>SLM A- 1 Leq, dBA</b>	<b>SLM B Leq, dBA</b>
16:10 – 16:20	65.8	39.4

**Table 4. Measured Mitigated Pump 2**

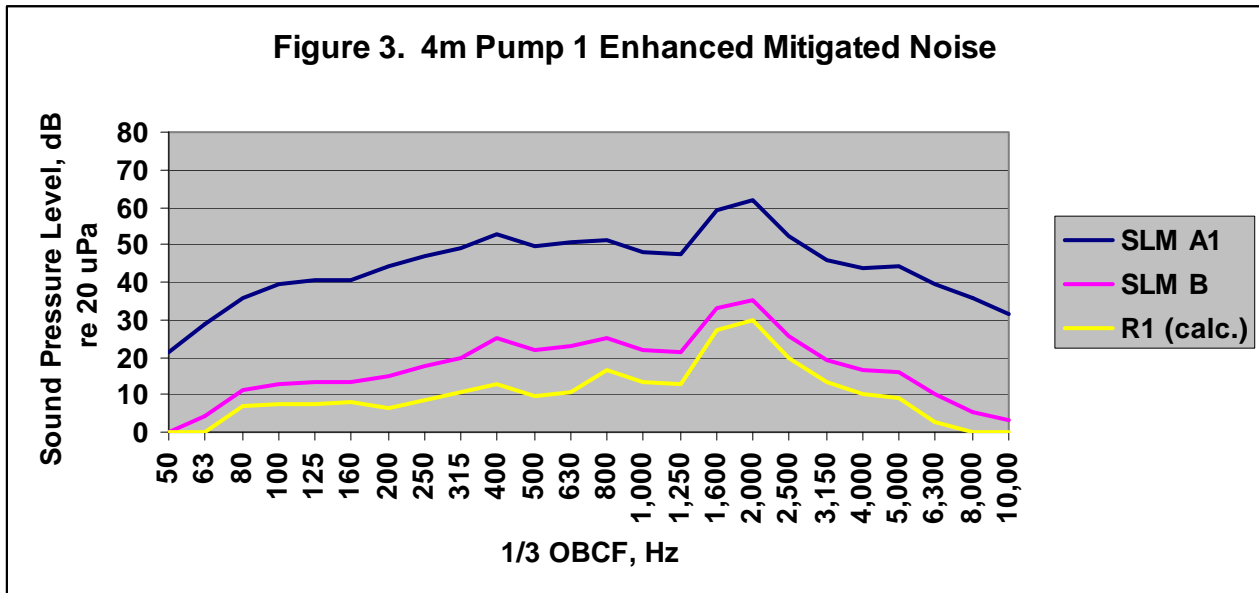
Pump Noise Measurement Period	SLM A-2 Leq, dBA	SLM B Leq, dBA
15:44 – 15:57	76.5	50.9

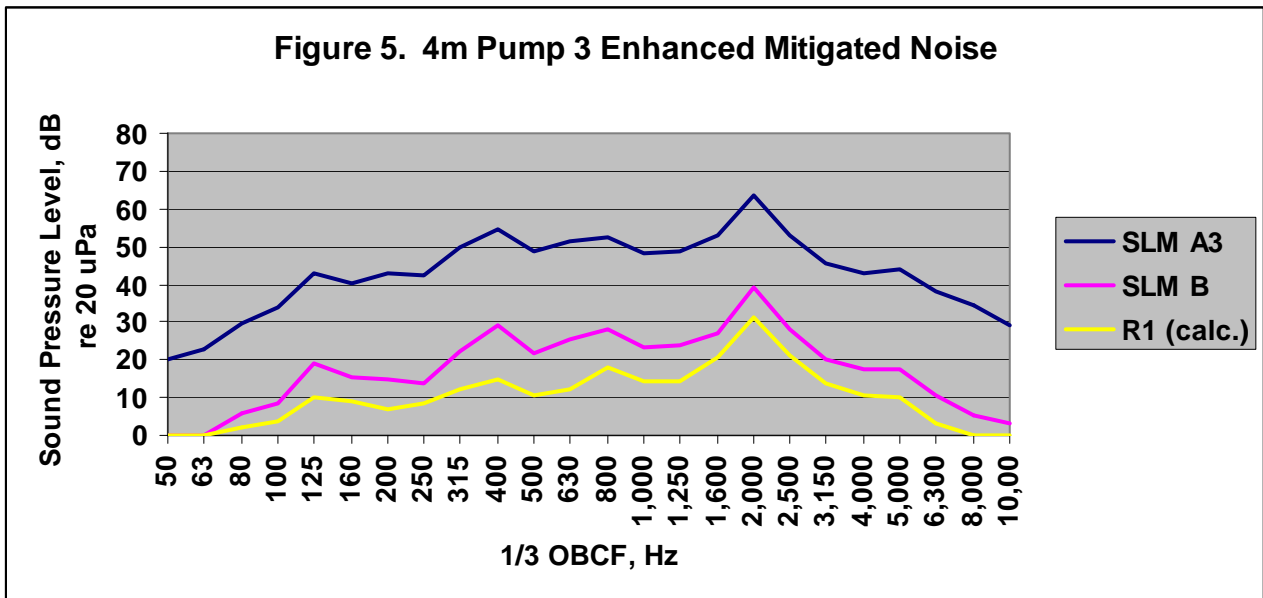
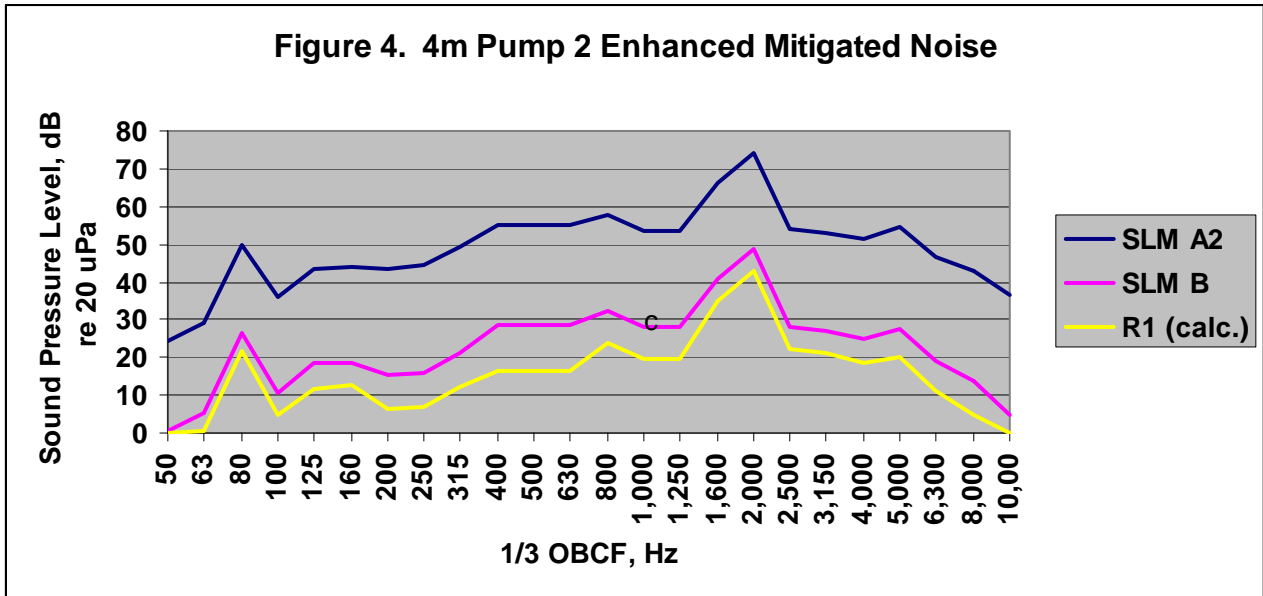
**Table 5. Measured Mitigated Pump 3**

Pump Noise Measurement Period	SLM A-3 Leq, dBA	SLM B Leq, dBA
15:22 – 15:35	65.7	45.6

**Table 6. Calculated Hourly Pump Noise at West Residence**

Pump Noise at Residence	Pump 1 Leq, dBA	Pump 2 Leq, dBA	Pump 3 Leq, dBA
R1	33.5	45.0	34.4





Findings and Conclusions - Project site noise monitoring was conducted on Wednesday, February 10, 2016. Each 4m Plant pump motor was fitted with a metal enclosure motor mute with enhanced noise mitigation provided by a lower skirt made of heavy rubberized material that extended approximately 18-inches below the bottom of each motor mute. The 4m Plant mitigated pump noise does not exceed the County hourly Leq noise limits for daytime, evening or nighttime hours.

This concludes my report on the noise measurements of the Casitas Municipal Water District 4m Plant enhanced mitigated pump noise. If you have any questions regarding this report, please contact me by phone or email.

Sincerely,



Marlund E. Hale, Ph.D., INCE (full member)  
[noisedoc@aol.com](mailto:noisedoc@aol.com)

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Simi Valley, California 93065-5402  
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**A P P E N D I X**

**Measured and Calculated Enhanced Mitigated 4m Plant Pump Noise**

# Advanced Engineering Acoustics

663 Bristol Avenue  
 Simi Valley, California 93065-5402  
 (805) 583-8207 - Voice (805) 231-1242 - Cell (805) 522-6636 - Fax

Measurement	Source	dBA	1/3 Octave Band Center Frequency											
			50	63	80	100	125	160	200	250	315	400	500	630
SLM A-1 Leq	6	65.38	21.34	29.03	35.98	39.57	40.53	40.29	44.50	46.83	48.96	52.57	49.57	50.47
Calc. A-1 Leq	6	65.83	21.36	29.03	35.99	39.51	40.57	40.31	44.46	46.81	48.92	52.55	49.61	50.47
SLM B Leq	152	38.91	-	4.15	11.10	12.88	13.07	13.56	15.13	17.44	19.54	24.83	21.83	22.73
Calc. B Leq	152	39.36	-	4.15	11.11	12.82	13.11	13.58	15.09	17.42	19.50	24.81	21.87	22.73
R1 Leq (calc.)	226	33.45	-	-	6.83	7.43	7.71	8.16	6.28	8.54	10.56	12.77	9.72	10.48
SLM A-2 Leq	6	75.48	24.39	28.98	49.99	36.05	43.23	44.03	43.70	44.25	49.52	55.20	55.16	55.28
Calc. A-2 Leq	6	76.46	24.35	29.01	50.03	36.03	43.27	44.06	43.66	44.23	49.47	55.17	55.19	55.26
SLM B Leq	138	49.95	0.65	5.24	26.25	10.41	18.77	18.36	15.41	15.91	21.13	28.46	28.38	28.47
Calc. B Leq	138	50.93	0.61	5.27	26.29	10.39	18.81	18.39	15.37	15.89	21.08	28.43	28.41	28.45
R1 Leq (calc.)	208	45.00	-	-	21.69	4.78	11.46	12.74	6.37	6.84	11.98	16.33	16.23	16.18
SLM A-3 Leq	6	65.66	19.93	22.87	29.43	33.70	42.82	40.28	42.72	42.28	49.82	54.61	48.48	51.55
Calc. A-3 Leq	6	65.67	21.03	28.25	35.18	38.75	40.72	40.19	44.18	46.36	48.89	52.67	49.38	50.43
SLM B Leq	121	40.71	-	-	6.06	8.37	19.09	15.10	14.59	13.73	22.13	28.89	21.94	25.53
Calc. B Leq	121	40.72	-	4.89	11.81	13.42	16.99	15.01	16.05	17.81	21.20	26.95	22.84	24.41
R1 Leq (calc.)	196	34.37	-	-	6.94	7.59	9.89	9.11	6.89	8.60	11.93	14.77	10.55	12.07

Measurement	1/3 Octave Band Center Frequency													
	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
SLM A-1 Leq	49.57	50.47	51.16	48.07	47.50	59.18	61.79	52.19	46.05	43.68	44.04	39.30	35.97	31.73
Calc. A-1 Leq	49.61	50.47	51.16	48.06	47.53	59.20	61.81	52.21	46.00	43.69	44.07	39.29	36.00	21.69
SLM B Leq	21.83	22.73	24.82	21.71	21.11	32.89	35.39	25.63	19.22	16.40	16.10	10.32	5.35	3.14
Calc. B Leq	21.87	22.73	24.82	21.70	21.14	32.91	35.41	25.65	19.17	16.41	16.13	10.31	5.38	-
R1 Leq (calc.)	9.72	10.48	16.63	13.47	12.86	27.34	29.76	19.85	13.15	10.03	9.22	2.58	-	-
SLM A-2 Leq	55.16	55.28	57.77	53.42	53.63	66.42	74.42	54.00	53.15	51.36	54.31	46.72	43.16	36.34
Calc. A-2 Leq	55.19	55.26	57.74	53.46	53.61	66.39	74.37	54.06	53.15	51.40	54.36	46.73	43.11	36.32
SLM B Leq	28.38	28.47	32.34	27.97	28.13	41.01	48.91	28.34	27.24	25.03	27.38	18.84	13.77	4.89
Calc. B Leq	28.41	28.45	32.31	28.01	28.11	40.98	48.86	28.40	27.24	25.07	27.43	18.85	13.72	4.87
R1 Leq (calc.)	16.23	16.18	23.99	19.65	19.71	35.21	43.00	22.40	21.02	18.49	20.33	10.93	4.52	-
SLM A-3 Leq	48.48	51.55	52.62	48.34	48.69	53.13	63.40	53.07	45.62	43.13	43.97	37.99	34.21	29.40
Calc. A-3 Leq	49.38	50.43	51.14	47.91	47.45	58.82	61.73	52.07	45.80	43.47	43.86	39.05	35.75	21.97
SLM B Leq	21.94	25.53	28.13	23.48	24.09	27.15	38.98	28.27	20.19	17.25	17.66	10.44	5.13	2.92
Calc. B Leq	22.84	24.41	26.65	23.05	22.85	32.84	37.31	27.27	20.37	17.59	17.55	11.50	6.67	-
R1 Leq (calc.)	10.55	12.07	18.17	14.52	14.29	26.87	31.22	21.05	13.93	10.79	10.23	3.37	-	-



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**CASITAS MUNICIPAL WATER DISTRICT  
INTEROFFICE MEMORANDUM**

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**TO:** STEVEN E. WICKSTRUM, GENERAL MANAGER  
**FROM:** NEIL COLE, PRINCIPAL CIVIL ENGINEER  
**SUBJECT:** AUTHORIZE THE GENERAL MANAGER TO APPROVE A PURCHASE  
ORDER FOR THREE MOTOR MUTES-GIRDLES  
**DATE:** SEPTEMBER 16, 2013

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**RECOMMENDATION:**

It is recommended that the Board of Directors authorize the General Manager to approve a purchase order to procure three motor mute-girdles for the 4m Pump Plant and Upper Ojai Pump Plant.

**BACKGROUND AND DISCUSSION:**

Casitas staff has installed a motor mute-girdle on one of the 4m Pump Plant motors from two different manufacturers. The motor mute-girdle from Aeroacoustic Engineering Consultants is far more effective at reducing the noise level.

Casitas staff is recommending that a total of three additional motor girdles be purchased. Two of the motor girdles will be placed on the remaining two 4m Pump Plant motors. The other girdle will be placed on the vertical motor at the Upper Ojai Pump Plant. Sound panels, ordered under a separate purchase order, will be used to reduce the sound level of the horizontal motor at the Upper Ojai Pump Plant

The cost for the motor girdle from Aeroacoustic Engineering Consultants is \$7175 per unit or \$21,525. The cost does not include shipping or tax on either motor mute.

**FUNDING:**

Funding for up to \$50,000 for sound reduction measures was approved by the Board at the Board's June 26, 2013 meeting. The following has been expended/encumbered on the sound reduction project to date, not including salaries:

Sound Testing & Retesting	\$5365
Motor Mute (not effective)	\$3524
Motor Mute-girdle (effective)	\$6196
Sound Panels for horizontal motor	\$2759
Total	\$17,844

Director Kaiser questioned language in item c relative to fraud detection that the district had declined to do and due to past experiences he felt it was important to ensure we are doing everything we can. Ms. Collin explained that the date of this engagement letter was April 7<sup>th</sup> and written prior to discussions with the auditor and the decision to engage them for the completion of the target audit. The target audit work has now been placed on the budget for completion. It was suggested to strike out the sentence in question and approve the engagement letter.

On the motion of Director Word, seconded by Director Kaiser and passed, the engagement letter was approved with striking out the one sentence. The motion passed by the following roll call vote:

AYES:	Directors:	Word, Baggerly, Kaiser, Bergen, Hicks
NOES:	Directors:	None
ABSENT:	Directors:	None

5. Bills APPROVED

On the motion of Director Kaiser, seconded by Director Bergen and passed, the bills were approved by the following roll call vote:

AYES:	Directors:	Word, Baggerly, Kaiser, Bergen, Hicks
NOES:	Directors:	None
ABSENT:	Directors:	None

6. Recommend approval of funding in the amount of \$13,990.53 for grant application for the Prop 84 Drought Relief IRWM Grant Project Proposal Development for the Lake Casitas Aeration Project. APPROVED

On the motion of Director Baggerly, seconded by Director Word and passed by the following roll call vote, the above recommendation was approved.

AYES:	Directors:	Word, Baggerly, Kaiser, Bergen, Hicks
NOES:	Directors:	None
ABSENT:	Directors:	None

7. Recommend approval of a purchase order to Aeroacoustic Engineering Consultants in the amount of \$21,525 plus tax and shipping for the purchase of three motor mute-girdles for the 4m Pump Plant and Upper Ojai Pump Plant. APPROVED

On the motion of Director Baggerly, seconded by Director Bergen and passed, the above recommendation was approved by the following roll call vote:

AYES:	Directors:	Word, Baggerly, Kaiser, Bergen, Hicks
NOES:	Directors:	None
ABSENT:	Directors:	None

CASITAS MUNICIPAL WATER DISTRICT  
Inter-Office Memorandum

DATE: June 21, 2013  
TO: Board of Directors  
FROM: General Manager, Steve Wickstrum  
Re: Pump Plant Noise Complaint – Reeves Road Area

**RECOMMENDATION:**

It is recommended that the Board of Directors authorize staff to pursue a remedy to the noise complaint made in the attached letter at the Reeves Road pump plant facilities (Upper Ojai and Ojai 4(M) Pump Plants) and authorize the expenditure of up to \$50,000 to purchase and install the sound walls/curtains.

**BACKGROUND AND OVERVIEW:**

On June 14, 2013, each and every Casitas Director received an email from Mr. Brian Holly, resident at 4877 Reeves Road, to request the District rectify the pump plant noise at the Reeves Road facilities to a dBA level compliant with Ventura County's acceptable levels for residential areas. The email was accompanied by a noise study conducted by PAX Environmental, emails between Mr. Holly and staff, and a letter addressed to the Directors. The residents' complaint is that the level of noise that is generated from the Reeves Road Pump Plants exceed Section 4(c) the noise standards for the County of Ventura. The noise standards are outlined in Sec. 2.16 Noise et. al., of the Ventura County General Plan Policies, stated as follows:

- (4) Noise generators, proposed to be located near any noise sensitive use, shall incorporate noise control measures so that ongoing outdoor noise levels received by the noise sensitive receptor, measured at the exterior wall of the building, do not exceed any of the following standards:
  - a. Leq(1hr) of 55 dB(A) or ambient noise level plus 3 dB(A), whichever is greater, during any hour from 6:00 a.m. to 7:00 p.m.
  - b. Leq(1hr) of 50 dB(A) or ambient noise level plus 3 dB(A), whichever is greater, during any hour from 7:00 p.m. to 10:00 p.m.
  - c. Leq(1hr) of 45 dB(A) or ambient noise level plus 3 dB(A), whichever is greater, during any hour from 10:00 p.m. to 6:00 a.m.

District staff has been in review of this complaint. The District has hired Advanced Engineering Acoustics (AEA) to perform a site evaluation and prepare a noise monitoring report. The AEA report concluded that the noise levels are less than the conditions stated in 4a. and 4b. of the Ventura County noise standards, but did not address the conditions in the 4c time period. This may be due to a misunderstanding by AEA of the actual hours of pump operation, which is generally 6:00p.m. to 11:00am. The AEA report determined by active measurements that the noise levels measured at the receiver locations were in the range of 48 to 51dBA. The PAX report pointed out a discrepancy that the AEA report did not compare the noise levels to the 4c standard. PAX derived a calculated noise level at

receiver residences within the range of 50 to 55 dBA and concluded that the pump plant noise levels did not meet the 4c standard of 45dBA at the residences.

Staff also recognizes that government code provides for the exception of utilities from the planning standards of the County, also noting that the standards are for "proposed" noise generators. Staff had related this exception to the residents in previous emails. While this exception stands, the District may otherwise decide to move past the exception and remediate the noise levels to the request of the nearby residents.

Staff has investigated several options to lessen the noise levels. The primary method is the placement of sound walls or curtains in the near proximity of the pumps. This is a common practice with varying results and a good probability of meeting the 4c standard. Staff has estimated the cost of the sound walls/curtains to be approximately \$50,000. This \$50,000 cost is not included in the FY 2013-14 Budget, and would have to be considered by the Board as a non-budgeted cost. Staff recommends remediating the noise levels with the placement of sound walls/curtains, and doing so in a timely manner.

If there are any questions in this regard, please discuss your questions with me.

Resolution is numbered 13-25.

10. Resolution fixing a tax rate for Fiscal Year 2013-2014 and authorizing the President of the Board to execute a certificate requesting the Ventura County Board of Supervisors to levy such a tax. ADOPTED

The resolution was offered by Director Kaiser, seconded by Director Hicks and passed by the following roll call vote:

AYES: Directors: Baggerly, Kaiser, Bergen, Hicks, Word  
NOES: Directors: None  
ABSENT: Directors: None

Resolution is numbered 13-26.

- 11 Resolution supporting participation in the Water Bond Coalition. ADOPTED

The resolution was offered By Director Baggerly including designating the General Manager as the contact person. This was seconded by Director Bergen and passed by the following roll call vote:

The resolution was offered by Director Baggerly, seconded by Director Bergen and passed by the following roll call vote:

AYES: Directors: Baggerly, Kaiser, Bergen, Hicks, Word  
NOES: Directors: None  
ABSENT: Directors: None

Resolution is numbered 13-27.

12. Discussion regarding noise abatement at Reeves Road pumping facilities. APPROVED

Mr. Wickstrum reported that we have had complaints from residents who have lived in the area. We operate pumps regularly to move water into Ojai. There are motors and there is an identified noise. The issue is the noise during the evening and early morning hours being slightly over the Ventura County planned policies. We have pump plants throughout our district. As populations tend to move into areas where we have had pumps for 55 years or more, sensitivity is heightened. We want to look to see if we can reduce the noise to acceptable levels and there is a cost to that.

President Word stated it is an unplanned expense but we visited this pump plant some time ago and were waiting for the test results.

Director Kaiser had some questions regarding the studies that were conducted and expressed concerns that there are several other pumps in close proximity to high resident density and he suggested looking at a district wide policy. President Word added each location is somewhat unique, some have

buildings or other structures around them. Director Kaiser stated that is why I would not be able to support this action today, we need to look at it as a district wide issue.

Director Hicks suggested getting these people taken care of as we need to be good neighbors. Director Bergen added we should be responsive to the neighbors and would like to see pre and post sound measurements.

Brian Holly spoke on behalf of family and neighbors. We appreciate the district and service you provide. Some of the recent emails and reports we have brought before the board necessitate this to take care of this sound issue. I appreciate you considering this.

Lou Preiczner thanked the board for the opportunity to speak and consideration of the request and looks forward to a remedy. He asked that a July 14<sup>th</sup> letter not be available to the public.

On the motion of Director Baggerly, seconded by Director Hicks and passed with Director Kaiser providing a no vote, the above recommendation was approved.

13. Request of Will Hobbs, President of NEC, Inc. to speak regarding the construction project LCRA Campground B Electrical Upgrades.

No Action Taken

Will Hobbs of NEC thanked the board for granting our request regarding electrical upgrades and the disputed final payment, including sec 59 and liquidated damages, part b section 24. In an effort to substantiate our claims I will provide a summary of events before the board makes a decision.

Mr. Hobbs stated I met onsite with Mr. Evans on January 9, 2013 and discussed the contract plans not showing to use the existing wire and conduit in place. The distance indicated on the plans was inaccurate. The other bids may have been different if those contractors didn't measure the area. Approximately six football fields length of wire was deemed required on the project that was not, we did our due diligence.

On disputed final payment 1 CATV, as a result of revisions and dispute of work I request to be compensated in full. Feb. 5, 2013 and completed version February 7<sup>th</sup>. Mr. Hobbs was going to provide documents to the District but Mr. Wickstrum suggested he keep his originals and provide a copy to the district for the record. Mr. Cole stated there are two notebooks of records. Director Baggerly asked if Mr. Hobbs has a copy of what he is reading to provide it to our Clerk. Mr. Hobbs stated he can e-mail it to her.

Mr. Hobbs continued stating he met with an outside vendor, Mr. Hyatt and provided Will Turner with the final CATV scope. The cost for CATV revisions was \$28,000 and those costs were denied. We were told to use existing conduit. Reference to note 2, initially told it was for CATV and when Mr. Cole got involved that interpretation changed. I requested what conduit to use for CATV. Existing

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**CASITAS MUNICIPAL WATER DISTRICT  
INTEROFFICE MEMORANDUM**

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**TO:** STEVE WICKSTRUM, GENERAL MANAGER  
**FROM:** NEIL COLE, PRINCIPAL CIVIL ENGINEER  
**SUBJECT:** AUTHORIZE THE GENERAL MANAGER TO SIGN PURCHASE ORDER CONTRACT FOR LIQUID OXYGEN DELIVERIES  
**DATE:** FEBRUARY 25, 2016

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**RECOMMENDATION:**

It is recommended that the Board of Directors authorize the General Manager to sign a unit cost purchase order contract with Praxair Inc. in an amount not to exceed \$180,000.

**BACKGROUND AND DISCUSSION:**

Lake Casitas becomes stratified during the spring time. The stratification typically remains until the fall. The stratification results in low dissolved oxygen in the lower portions of the lake and poor water quality. The hypolimnetic aeration system was completed in October 2015 to add oxygen to the lower portion of the lake. The hypolimnetic aeration system uses liquid oxygen, trucked to the site, to increase the dissolved oxygen levels in the water.

A Request for Quotations was advertised for the delivery of liquid oxygen. The quotation requested a proposal good for one year with two optional years.

Casitas received five quotes for delivering liquid oxygen. Praxair Inc. was the low cost provider. Praxair Inc. did have some exceptions to Casitas' standard contract terms. Staff has reviewed the exceptions and finds the exceptions to be acceptable in this instance. Praxair Inc. quote also includes a one-time inspection fee of \$500. Praxair Inc. time and material fees for repairs and maintenance were found to be competitive with the other quotations.

Firm	Cost to Deliver Oxygen	Additional Costs
Praxair Inc.	0.4372/gallon	1 time fee of \$500
Air Products	99.06/ton (0.47193/gallon)	
Linde	0.54097/gallon	
Air Gas	0.558/gallon	
Air Liquide	0.49/CCF (0.56399/gallon)	

\$174,000 was included in Fiscal Year 2015-16 Budget for liquid oxygen deliveries. \$70,000 was spent on liquid oxygen during the August-November operation of the system leaving \$104,000 for liquid oxygen through June 30, 2016. \$140,000 has been proposed for liquid oxygen deliveries in the Fiscal Year 2016-17 budget.



Praxair, Inc  
 7000 High Grove Boulevard  
 Burr Ridge, IL 60527  
 Fax: 630-320-4507

February 2, 2016

Neil Cole  
 Principal Civil Engineer  
 1055 N. Ventura Avenue  
 Oak View, California 93022

**RE: REQUEST FOR PROPOSAL TO PROVIDE LIQUID OXYGEN TO CASITAS DAM  
 DUE FEBRUARY 2, 2016**

Dear Neil,

We are pleased to submit our proposal for your Liquid Oxygen requirements estimated to be between 24,150,000 - 48,300,000 cf into a customer owned 13,000 gallon storage tank in Oak View, CA.

**MODIFICATIONS TO BID SPECIFICATIONS**

If legally allowed by the bidding process, Praxair's Sales, Legal, and Risk Management groups are available for further discussion on any of the modifications, additions or clarifications provided below.

<b>REQUEST FOR PROPOSAL TO PROVIDE LIQUID OXYGEN TO CASITAS DAM</b>		
Page 1	1. Introduction, Paragraph 2	Language is overly broad. Propose that we delete that language and agree to comply with all Federal laws applicable to the manufacture and delivery of oxygen to Casitas
Page 5	11. Payment	Please Note: Praxair will invoice after each delivery of Liquid Oxygen to your facility
<b>SPECIFICATIONS – Excerpts from Part B – General Conditions</b>		
Page 1	4. Indemnification of District	<b>DELETE</b> referenced section in its entirety. What Praxair can provide is contained in Section 4. Health, Safety, and Liability below. If the indemnification language as contained in this Section is not acceptable, upon mutual agreement the contract could be silent as to liability and indemnity.
Page B-2	5. Insurance 3.a.	<b>MODIFY</b> referenced section as indicated below: The United States Bureau of Reclamation, the District, their directors, officers, employees, agents and volunteers are to be covered as insureds as respects: liability arising out of activities performed by or on behalf of the Contractors, products <del>and Specifications Excerpts from Part B – General Conditions B-3</del> completed operations of the Contractor; premises owned, occupied or used by the Contractor; or automobiles owned, leased, hired or borrowed by the Contractor. <del>The coverage shall contain no special limitations on the scope of protection afforded to the United States Bureau of Reclamation, the District, their directors, officers, employees, agents and volunteers.</del>
Page B-3	5. Insurance 3. e.	<b>MODIFY</b> referenced section as indicated below: Each insurance policy required by this clause shall be endorsed to state that coverage shall not be <del>suspended, voided,</del> canceled by either party, <del>reduced in coverage or in limits</del> except after thirty (30) days prior to written notice by certified mail, return receipt requested, has been given to the District.
Page B-3	5. Insurance 4.	<b>DELETE</b> this section in its entirety. Praxair will not be able to change our deductibles nor will we pay to insure.
Page B-4	5, Insurance C.1.	<b>MODIFY</b> referenced section as indicated below: (1) Prior to execution of the contract, the Contractor shall file with the District evidence of insurance from an insurer or insurers certifying to the coverage of all insurance required herein. Such evidence shall include the ISO CG 2010 (or insurer's equivalent) signed by the insurer's representative and certificate of insurance (Accord Form 25-S or equivalent). All evidence of insurance shall be certified by a properly authorized officer, agent or qualified representative of the insurer and shall certify the names of the insured, any additional primary insurers, where appropriate, the type and amount of the insurance, the location and operations to which the insurance applies, the expiration date, and that the insurer will give by certified mail, written notice to the District at least thirty (30) days prior to the effective date of any cancellation, <del>lapse or material change in the policy.</del>
Page B-4	5. Insurance	<b>DELETE</b> this section in its entirety. It is not Praxair's standard procedure to provide copies of our insurance policies but, in lieu of that, we can provide OCUD with evidence and possibly a Declaration Page which is a high level overview of limits of insurance.



## Praxair's References

References				
Customer	Address	Contact	E-Mail	Phone
City of Fairfield (CA)	2900 Vista Grande Fairfield, CA 94533	Scott Leland	sleland@ci.fairfield.ca.us	(707) 434-6101
City of Fort Worth (TX)	1511 11th Avenue Fort Worth, TX 76102	Brenda Williams	brenda.williams@fortworthgov.org	(817) 392-8267
City of Tacoma (WA)	36932 Southeast Green River Headworks Ravensdale, WA 98051	Jeff Bolam	Jeff.bolam@cityoftacoma.org	(253)502-8346
City of Fargo (ND)	435 14th Street Fargo, ND 58103	Mark Peterson	mpeterson@cityoffargo.com	(701) 476-6600

In addition to the above, the following terms and conditions are hereby incorporated into the bid documents and confirm the agreement of Buyer (defined below) to purchase Buyer's total requirements, in gaseous and liquid form, of Product (defined below) for use at Buyer's Locations(s) (defined below) for the period of the Basic Term (defined below) and the agreement of Praxair, Inc. ("Seller") to deliver Product to Buyer pursuant to these terms and conditions. The terms and conditions set forth below are incorporated into the bid documents and these terms and conditions together with the bid documents as modified by the above letter are collectively referred to as the "Agreement". Payment terms are net thirty (30) days from date of invoice.

For purposes of this letter the terms "Buyer", "Buyer's Location", "Basic Term", "Prices", "Product," "Specifications", and "Product Storage System" will have the respective meanings set forth below:

"Buyer" means Casitas Municipal Water District, having an address of 1055 North Ventura Avenue

"Buyer's Location(s)" means oak View, CA

"Basic Term" means one year from the date of first fill

"Prices" means \$0.4372/gallon (\$91.79/ton)

"Product" means Liquid Oxygen

"Product Storage System" means Buyer's owned 13,000 gallon storage tank

"Specifications" means  $\geq 99.5\%$

Product will meet ANSI/AWWA and NSF-60 Standards. Praxair's plant is certified to these standards. Evidence of certification can be found by going to the following website: NSF.com

You will find a list of all the Praxair plants that are NSF-60 certified for Liquid Oxygen. Supply to your facility will be shipping from our Wilmington, CA plant. Attached is a copy of the paperwork that you will receive with each shipment of Carbon Dioxide to your facility indicating that the product is certified by NSF to the ANSI/NSF Standard 60, Drinking Water Treatment Chemicals – Health Effects.

Enclosed are Product Material Safety Data Sheet(s) P-4638-G & P-4637-H .

1. **BUYER'S STORAGE SYSTEM:** Buyer, at its expense, will maintain the Product Storage System ("Product Storage System") and the site on which the Product Storage System is located. Seller will have the right, without any liability hereunder, to refuse to deliver Product into the Product Storage System if Seller reasonably determines that the Product Storage System or Product Storage System site is unfit for the storage or delivery of Product or the site on which the Product Storage System is located is not safe as determined by Seller for the delivery of Product. Buyer will indemnify and hold harmless Seller from and against any and all costs, fees (including reasonable legal fees and expenses), damages, liabilities and claims arising out of Buyer's failure to properly install, maintain or operate the Product Storage System or the Product Storage System site.

2. **SPECIFICATIONS.** Product delivered hereunder will meet the Specifications. Buyer may reject any Product which does not meet the Specifications and no charge will be made for Product so rejected. Since Buyer may obtain devices which have the capability of testing whether Product meets the Specifications, no claim of any kind with respect to the conformance of Product to the foregoing Specifications, whether or not based on negligence,

warranty, strict liability or any other theory of law, will be greater than the price of the quantity of nonconforming Product in respect to which such claim is made. The foregoing constitutes Buyer's exclusive remedy and Seller's sole obligation with respect to any such claim. THERE ARE NO EXPRESS WARRANTIES BY SELLER OTHER THAN THOSE SPECIFIED IN THIS ARTICLE 2. NO WARRANTIES BY SELLER (OTHER THAN WARRANTY OF TITLE AS PROVIDED IN THE UNIFORM COMMERCIAL CODE) WILL BE IMPLIED OR OTHERWISE CREATED UNDER THE UNIFORM COMMERCIAL CODE INCLUDING, WITHOUT LIMITATION, WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

3. CONTINGENCIES. Neither party hereto will be liable to the other for default or delay in the performance of any of its obligations hereunder (except any obligation to make payments when due) due to act of God, accident, fire, flood, storm, riot, war, act of terrorism, sabotage, explosion, strike, concerted acts of workers, national defense requirements, governmental law, ordinance, rule or regulation, whether valid or invalid, extraordinary failure of equipment or apparatus, inability to obtain electricity or other type of energy, feedstock, raw or finished material from normal sources of supply, labor, equipment or transportation, or any similar or different contingency beyond its reasonable control which would prevent or delay performance or make performance commercially impracticable whether or not the contingency is of the same class as those enumerated above, it being expressly agreed that such enumeration is non-exclusive; provided, however, that neither business downturn nor economic conditions will qualify as a contingency within the meaning of this Article 3. In the event any such contingency affects only a part of Seller's capability to produce and/or deliver Product, Seller will allocate production and/or deliveries among the requirements of all its affected customers and Seller's own requirements in a fair and reasonable manner. Buyer will pay or reimburse Seller for any additional costs incurred relating to the delivery of any Product to Buyer during a contingency. In the event that a contingency event prevents Seller from delivering Product or requires Buyer to pay any additional costs for Product then Buyer shall be allowed to seek Product from alternative sources during the period of the contingency.

4. HEALTH, SAFETY AND LIABILITY. Buyer acknowledges that there are hazards associated with Product, including the storage, use and handling thereof, and Buyer agrees that its employees, agents, contractors, and others concerned with Product are aware of such hazards. Buyer assumes all responsibility for the suitability and the results of using Product alone or in combination with other articles or substances and in any manufacturing, medical, or other process or procedures. Buyer will notify Seller of any hazards and safety procedures at Buyer's Location(s) and Buyer will notify Seller in advance of any anticipated construction, renovation, or change in operations in the area of any Product Storage System site so that any hazards associated with same can be minimized. Buyer will be responsible for complying with all relevant reporting obligations under all applicable laws, including the Emergency Planning and Community Right-to-Know Act of 1986, 42 U.S.C. Sections 11001-11049 (EPCRA, also commonly known as Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III)), that result from the presence at Buyer's Location(s) of Product supplied under this Agreement. Buyer will warn and protect its employees, contractors and others exposed to the hazards posed by Buyer's storage, use and handling of Product. Seller will provide documents to Buyer containing Seller's safety and health information pertaining to Product, including Seller's Material Safety Data Sheet(s), and Buyer will incorporate such information into Buyer's safety program. Buyer hereby waives any right of subrogation that Buyer, any insurer of Buyer or any third party making a claim through Buyer, may have under this Agreement. Seller will not be liable to Buyer for any incidental, consequential, indirect, special or exemplary damages (including lost profits, sales or other similar damages) arising in connection with this Agreement without regard to the nature of the claim or the underlying theory or cause of action (whether in contract, tort, strict liability, equity or any other theory of law) on which such damages are based. Each party will indemnify and hold harmless the other party from and against any and all costs, fees (including reasonable legal fees and expenses), damages, liabilities and claims arising from the injury, illness or death of the indemnifying party's employees in any way related to any activities performed in connection with or Product supplied by Seller under this Agreement, whether or not such injury, illness, or death is claimed to have been caused by, resulted from, or was in any way connected with the negligence of the party to be indemnified.

If awarded the business, the supply of Product to the Product Storage System will be contingent upon receipt of the attached customer owned Product Storage System checklist and completion of a site survey. There will be a \$500 one time Product Storage System site inspection fee. This fee is to ensure that your tank and facilities are safe for our drivers to deliver product. Should work be required on the tank, Praxair will review the job scope and anticipated costs with Buyer prior to undertaking such work. Buyer shall be responsible for all costs associated with such work.

Please indicate your acceptance by signing below that the above provisions are included and made a part of the Agreement between the parties and shall be included as an amendment to the Agreement. A signed copy will be returned to you for your records. This document becomes a part of the contract documents for Liquid Oxygen.

Our proposal is valid for thirty (30) days and is subject to the above terms and conditions. I hope that Praxair can serve your industrial gas needs in the near future. If you have any questions, please feel free to contact me on (630) 320-4166.

Sincerely,

PRAXAIR, INC.



Diane M. McAvoy  
Sr. Account Manager



Kimberley E. Howard  
Account Manager

BID AUTHORIZATION:                     Doreen Deal                    

AGREED AND ACCEPTED THIS \_\_ DAY OF \_\_\_\_\_, 2016

**CASITAS MUNICIPAL WATER DISTRICT**

**PRAXAIR, INC.**

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**CASITAS MUNICIPAL WATER DISTRICT**

**REQUEST FOR PROPOSAL**

**TO PROVIDE AND DELIVER LIQUID OXYGEN  
TO CASITAS DAM**

**JANUARY 5, 2016**

**1. INTRODUCTION**

The Casitas Municipal Water District (Casitas) is requesting proposals for providing and delivering liquid oxygen to Casitas Dam in Ventura County, California. It is Casitas' intent to receive proposals and cost statements that include all services, including labor, materials, testing and equipment necessary to complete the work described by this request for proposal.

All work shall be proposed to be performed in accordance with State, Federal and local County laws and codes.

**2. PROPOSAL SUBMITTAL**

The proposal should be submitted in written form to Casitas Municipal Water District, 1055 North Ventura Avenue, Oak View, California 93022, Attention: Neil Cole. Proposals will be accepted until **February 2, 2016, by 4:00 P.M.** No proposals will be accepted after that time and date. The Supplier shall submit either one proposal electronically in PDF format or three identical paper copies of the proposal.

**3. BACKGROUND**

Casitas constructed a hypolimnetic aeration system to improve water quality in the lake. The hypolimnetic aeration system injects oxygen into the lake water. The system consists of a 13,000 gallon liquid oxygen storage tank, two vaporizers, flow control equipment and injection tubing. All equipment is owned by Casitas Municipal Water District.

**4. SCOPE**

The work to be performed shall consist of furnishing all tools, materials, supplies and manufactured articles and for furnishing all transportation, services, including fuel, taxes, permits, and the performance of all labor, work or other operations required for the fulfillment of the contract. The work shall be complete, and work, materials and services not expressly called for in this Request for Proposal which may be necessary for complete and proper workmanship to carry out the contract in good faith shall be performed, furnished and installed by the Supplier at no additional cost to Casitas.

The work shall involve providing and delivery of liquid oxygen to the hypolimnetic aeration system storage tank, transferring the liquid oxygen to the storage tank and general maintenance to the liquid oxygen storage tank, the vaporizers and all other equipment, valves, sensors and piping with the liquid oxygen system up to the aeration system flow control valves.

## 5. CONTRACT DOCUMENTS

The contract documents shall consist of the (1) Supplier's Proposal, (2) Casitas' Request for Proposal, (3) agreement of changes to the Proposal or Request for Proposal and (4) Casitas' Specification-Excerpt from Part B – General Conditions (attached).

## 6. SPECIAL CONDITIONS

Casitas has provided the following project scope to assist in clarifying its intent on what the completed project should contain. Although, it should be noted by the Contractor that there may be some elements that are added to the scope of work, and which the Supplier should consider during the preparation of the proposal.

(a) Project Location and Access. The Hypolimnetic Aeration System is located adjacent to Casitas Dam at 1890 Casitas Vista Road in Ventura County, California.

(b) Delivery Times. **Deliveries are restricted to the hours of 6 am to 6:30 pm seven days a week. Casitas must be notified a minimum of 24 hours in advance of a delivery.** All proposals must state the delivery times and any cost savings for Casitas if deliveries are allowed outside of the Casitas specified delivery times.

(c) Insurance and Indemnification. See attached "Specifications-Excerpt from Part B". Bonds are not required for this project.

(d) Safety. All work shall be performed in conformance with general industry safety orders of the State of California, Title 8 of Chapter 7, and safety standards set forth by the Occupational Safety and Health Agency (OSHA) and the California Occupational Safety and Health Agency (CALOSHA).

(e) Coordination. The Supplier shall provide coordination and cooperation with the District plant staff.

(f) Liquid Oxygen.

Liquid oxygen (LOX) shall meet the following minimum requirements:

- (1) Comply with ANSI/AWWA Standard B304, latest version.
- (2) LOX shall be a minimum of 99.5% oxygen by volume.
- (3) LOX shall comply with the Compressed Gasses Association's Type II, Grade B.
- (4) Supplier shall provide a Material Data Safety Sheet for the LOX.

- (5) LOX shall not contain impurities in excess of the following:

Water Content	6.6 ppm
Hydrocarbon Content	25 ppm.
- (6) Supplier shall perform an annual inspection of the tank, vaporizers, piping and control system and make any Casitas authorized repairs on a time and material basis. Repairs must be authorized by Casitas in writing prior to beginning non-emergency work.
- (7) Repairs shall be performed in a timely manner once repairs are authorized by Casitas to minimize equipment down time.
- (8) The supplier will respond on site within 24 hours after notification by Casitas that there is a problem with the LOX system. Supplier will be paid on a time and material basis based upon agreed unit costs.
- (9) Supplier shall conduct a training class once per year on the handling and safety of liquid oxygen. The training, as a minimum, shall meet the requirements of the Hazard Communication Act.
- (10) Supplier shall provide between 1000 and 2000 tons (209,900-419,800 gallons) of liquid oxygen in any given year. Deliveries will typically occur only between April 1 and November 1.
- (11) Casitas will notify the supplier by phone of the need for a delivery. Supplier shall have 48 hours from the time of the Casitas' notification to provide the delivery, unless otherwise approved by Casitas.

## 7. SUPPLIER'S PROPOSAL CONTENT

It is the intent of this Request for Proposal to seek only those proposals that will directly address the particular project of Casitas Municipal Water District. The Suppliers submitting proposals need not provide any general information about the firm, but only that particular information that specifically addresses the needs of this proposal. The proposal should not contain any information on personnel other than those who are actually going to be performing the work and are considered a primary human resource for the project. The scope provided by the proposal should address not only the details in the Request for Proposal, but should also address those issues and relative points that may not have been described in the Request For Proposal, which the Supplier believes to be pertinent to this particular project specified. The proposal should contain the following elements:

(a) Experience. The proposal content should begin with the experience the Supplier has with projects similar to that proposed by Casitas. The Supplier should submit a listing of the references with names and phone numbers of each similar project the Supplier has performed over the past five years. The Supplier shall provide a listing of all subcontractors whose work has a monetary value of 15 percent or more of the total price bid and shall include their reference experience as required of the primary Supplier.

(b) Scope of Work. The proposal shall contain a description of the scope of work and how the Supplier intends to approach the project tasks and complete the scope

of work in a timely manner. The Supplier shall provide a listing of those services to be provided during the course of the work and contribute to the cost element of the project. The Supplier shall provide information on the proposed sign.

(c) Fee. The proposal shall provide a cost per gallon of liquid oxygen delivered or a per ton cost. The cost shall include all fees, transportation costs, taxes and any miscellaneous costs. The proposal shall also include the unit cost for maintenance and repair services.

(d) Conflicts. The Supplier shall identify any conflicts which they believe could affect the project work and the ability to complete on schedule.

## 8. **PRE PROPOSAL CONFERENCE**

There will not be any formal pre-proposal conference prior to the selection of the supplier. If the supplier desires to visit the sites, the Supplier should arrange a field meeting with Neil Cole, Principal Civil Engineer at (805) 649-2251 x107.

## 9. **SELECTION**

The selection of the Supplier to complete the work will be based upon the following criteria:

- (a) Qualifications and experience of the Supplier with similar projects.
- (b) The supplier's ability to meet the needs and schedules of Casitas as stated in the proposal.
- (d) The cost per gallon (or ton) of liquid oxygen delivered and the unit cost for maintenance services.
- (e) The responsiveness of the proposal to this Request for Proposals.
- (f) Any additional information requested by Casitas.

Casitas reserves the right to reject any and all proposals that are considered unacceptable by Casitas or to waive any minor irregularities if so deemed by Casitas for any reason. If Casitas is unable to enter into agreement with the selected supplier for any reason, it reserves the right to award the contract to the next most qualified supplier who submitted a proposal. The same selection process would be used to select the alternate supplier. Casitas reserves the right to retain all proposals for a period of thirty (30) days and to reject any and all bids for any reason at the sole discretion of Casitas, with or without cause.

**10. CONTRACT**

It is expected that the selected supplier will enter into a Purchase Order Contract with Casitas to perform the work and include the full and agreed upon project description as contained herein, or as revised, including Casitas' Insurance and Indemnification requirements. It is anticipated that the contract term will be for a minimum of one (1) year with provisions for mutually agreed renewal for up to two (2) additional years.

**11. PAYMENT**

Casitas shall only accept one (1) payment request per month from the selected Supplier. Invoices shall fully define the amount of liquid oxygen delivered and any additional work requested by Casitas. Each bill shall also contain a purchase order number and the bill shall state the billing period. Supplier shall bill Casitas for the liquid oxygen based on the delivered quantity of liquid oxygen.

**12. CASITAS CONTACTS**

Neil Cole  
Principal Civil Engineer  
1055 N. Ventura Avenue  
Oak View, California 93022  
(805) 649-2251, Ext. 107; FAX # (805) 649-4485  
[ncole@casitaswater.com](mailto:ncole@casitaswater.com)



**SPECIFICATIONS**  
**Excerpts from Part B - General Conditions**

1. Definitions.

(a) Whenever the words defined in this article occur in these Specifications, or in any other contract document, they shall have the meaning here defined:

(b) The word "specifications" shall include these General Conditions, the Special Conditions and the applicable portions of the Standard Specifications. The form of these Specifications is intended to provide for all of the work performed for Casitas Municipal Water District.

(c) The word "District" shall mean the Casitas Municipal Water District.

(d) The word "Board" shall mean the Board of Directors of the Casitas Municipal Water District.

(e) The words "General Manager" shall mean the person holding the position or acting in the capacity of General Manager of the Casitas Municipal Water District.

(f) The word "Engineer" shall mean the General Manager, or his duly authorized representative.

(g) The word "Contractor" shall mean the Contractor in the agreement for the construction of the work and/or the furnishing of materials and/or equipment herein specified, the legal representative, or the agent of said party.

(h) The word "Subcontractor" shall mean one who, as a subcontractor, performs at the site of the work some part of the Contractor's obligation, the legal representative, or the agent therefor.

(i) The words "Standard Specifications" shall mean the provisions of the latest edition of the Standard Specifications for Public Works Construction (SSPWC) with all supplements, prepared and promulgated by the Southern California Chapters of the American Public Works Association and Associated General Contractors of America. Part one of the SSPWC is hereby deleted.

4. Indemnification of District. Contractor shall indemnify and hold harmless and defend United States Bureau of Reclamation, the District, their directors, employees, agents or volunteers, and each of them from and against:

(a) Any and all claims, demands, causes of action, damages, costs, expenses, losses or liabilities, in law or in equity, of every kind and nature whatsoever for, but not limited to, injury to or death of any person including District and/or Contractor, or any directors, officers, employees, agents or volunteers of District or Contractor, and damages to or destruction of property of any person, including but not limited to, District and/or Contractor and their directors, officers, employees, agents or volunteers, arising out of or in any manner directly or indirectly connected with the work to be performed under this agreement, however caused, regardless of any negligence of District or its directors, officers, employees, agents or volunteers, except the sole negligence or willful misconduct or active negligence of District or its directors, officers, employees, agents or volunteers.

(b) Any and all actions, proceedings, damages, costs expenses, penalties or liabilities, in law or equity, of every kind or nature whatsoever, arising out of resulting from, or on account of the violation of any governmental law or regulation, compliance with which is the responsibility of Contractor.

Contractor shall defend, at Contractor's own cost, expense and risk, any and all such aforesaid suits, actions or other legal proceedings of every kind that may be brought or instituted against District or District's directors, officers, employees, agents or volunteers.

Contractor shall pay and satisfy any judgment, award or decree that may be rendered against District or its directors, officers, employees, agents or volunteers, in any such suit, action or other legal proceeding.

Contractor shall reimburse District and its directors, officers, employees, agents and/or volunteers, for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

Contractor agrees to carry insurance for this purpose as set out in the specifications.

5. Insurance.

(A) Contractor shall provide and maintain the following commercial general liability and automobile liability insurance:

(1) Coverage for commercial general liability and automobile liability insurance shall be at least as broad as the following:

- a. Insurance Services Office Commercial General Liability coverage (Occurrence Form CG 0001).
- b. Insurance Services Office Form Number CA 0001 (ed. 1/87) covering Automobile Liability, Code 1 (any auto).

(2) The Contractor shall maintain limits no less than the following:

- a. General Liability. One million dollars (\$1,000,000) per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to the project/location (with the ISO CG 2501 or insurers equivalent endorsement provided to the district) or the general aggregate limit shall be twice the required occurrence limit.
- b. Automobile Liability. One million dollars (\$1,000,000 per accident for bodily injury and property damage combine single limit.

(3) The general liability and automobile liability policies are to contain, or be endorsed to contain the following provisions:

- a. The United States Bureau of Reclamation, the District, their directors, officers, employees, agents and volunteers are to be covered as insureds as respects: liability arising out of activities performed by or on behalf of the Contractors, products and

completed operations of the Contractor; premises owned, occupied or used by the Contractor; or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the United States Bureau of Reclamation, the District, their directors, officers, employees, agents and volunteers.

- b. For any claims related to this project, the Contractor's insurance shall be primary insurance as respects the United States Bureau of Reclamation, the District, their directors, officers, employees, agents and volunteers. Any insurance or self-insurance maintained by the District, its directors, officers, employees, agents and volunteers shall be excess of the Contractor's insurance and shall not contribute with it.
- c. Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage provided to the United States Bureau of Reclamation, the District, their directors, officers, employees, agents and volunteers.
- d. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
- e. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days prior to written notice by certified mail, return receipt requested, has been given to the District.
- f. Such liability insurance shall indemnify the Contractor and his subcontractors against loss from liability imposed by law upon, or assumed under contract by, the Contractor or his subcontractors for damages on account of such bodily injury (including death), property damage, personal injury and completed operations and products liability. Such insurance shall be provided on a policy written by underwriters through an agency satisfactory to the District (see Section 4-08.05), which includes a cross-liability clause, and covers bodily injury and property damage liability, owned and non-owned vehicles and equipment, blanket contractual liability and completed operations liability. Such liability insurance shall include explosion, collapse, underground excavation and removal of lateral support. The United States Bureau of Reclamation, the District, their directors, officers, employees agents and volunteers shall be named as additional primary insured on any such policies. An additional insured endorsement (ISO CG 2010 or equivalent) (modified to include provisions 2-5 above) and a certificate of insurance (Accord Form 25-S or equivalent), shall be provided to the District.

(4) Any deductible or self-insured retention must be declared to and approved by the District. At the option of the District, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the District, its directors, officers, employees, agents and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

(5) Insurance is to be placed with insurers having a current A.M. Best's rating of no less than A:VII or equivalent.

(6) The Contractor shall not commence work under this contract, nor allow any subcontractor to commence work on this subcontract, until he has secured all insurance required under the section and has filed with the District, certificates of insurance in the amounts specified. Such certificates shall contain a provision that they may not be called without at least thirty (30) days' written notice to the District.

**(B) Worker's Compensation Insurance.**

(1) By his signature hereunder, Contractor certifies that he is aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and he will comply with such provisions before commencing the performance of the work of this contract.

(2) The Contractor shall maintain, and shall cause all subcontractors he may employ to maintain adequate workers compensation insurance under the laws of the State of California for all labor employed by them, directly or indirectly, in the execution of the work. The Contractor and all subcontractors shall file with the District certification of such workers compensation insurance prior to beginning construction.

**(C) Evidences and Cancellation of Insurance.**

(1) Prior to execution of the contract, the Contractor shall file with the District evidence of insurance from an insurer or insurers certifying to the coverage of all insurance required herein. Such evidence shall include the ISO CG 2010 (or insurer's equivalent) signed by the insurer's representative and certificate of insurance (Accord Form 25-S or equivalent). All evidence of insurance shall be certified by a properly authorized officer, agent or qualified representative of the insurer and shall certify the names of the insured, any additional primary insurers, where appropriate, the type and amount of the insurance, the location and operations to which the insurance applies, the expiration date, and that the insurer will give by certified mail, written notice to the District at least thirty (30) days prior to the effective date of any cancellation, lapse or material change in the policy.

(2) The Contractor shall, upon demand of the District, deliver to the District all such policy or policies of insurance and the receipts for payment or premiums thereon; and should the Contractor neglect to obtain and maintain in force any such insurance or deliver such policy or policies and receipts to the District, then it shall be lawful for the District to obtain and maintain such insurance, and the Contractor hereby appoints the District his true and lawful attorney-in-fact to do all things necessary for this purpose. All money paid by the District for insurance premiums under the provisions of this article shall be charged to the Contractor.

**CASITAS MUNICIPAL WATER DISTRICT  
 SUMMARY OF INSURANCE, BOND & PAYMENT REQUIREMENTS  
 FOR VARIOUS CONSTRUCTION CONTRACTS**

	<b>Informal Under \$35,000</b>	<b>Formal \$35,000 &amp; Over</b>
<u>Certificates of Insurance</u> (CG 2010 Endorsement required))		
1. Workmen's Compensation	Yes	Yes
2. Commercial, General & Auto Liability	Yes	Yes
a. For one person per accident	\$1,000,000	\$1,000,000
b. More than one person per accident	\$1,000,000	\$1,000,000
3. Property damage per accident	\$1,000,000	\$1,000,000
4. Thirty days written notice prior to cancellation	Yes	Yes
<u>Bonds</u>		
Bidder's Bonds	None	10%
Payment Bonds (Material and Labor)* (Projects bid by CMWD only)	None	100%
Performance Bonds* (Projects bid by CMWD only)	None	100%
Maintenance and Guarantee Provisions	Yes	Yes
<u>Contracts</u>		
Period for Final payment upon acceptance	15 Days	35 Days
Amount of Retention	0, or stated in specs	10%
Progress Payment (if required, retain 5%)**	Per specs	Per specs
Final Cost Statement	None	Yes
Notice of Completion	None	Yes
Labor and Material Releases	Yes	Yes

\* At the option of the District and depending upon the type of construction activity, payment bonds and/or performance bonds may be placed as a requirement on the job.

\*\* If progress payments are required for a Purchase Order Contract, provisions therefor must be added.

**NOTE:**

The above listed are the minimum requirements for all construction contracts. Provisions are included within the Terms and Conditions for Purchase Order Contracts which will be issued for all jobs under \$35,000 and provisions should be included within the Specifications for all contracts which are \$35,000 and over. **The U.S. Bureau of Reclamation, Casitas Municipal Water District, their directors, officers, employees or authorized volunteers shall be named as additional insured as respects to all coverages listed above when the named insured is Lessee or Licensee of the Casitas Municipal Water District or when work is performed by the named insured for the Casitas Municipal Water District, and in both instances this coverage shall be primary.** Casitas, in addition to Certificates of Insurance, shall be provided with the ISO CG 2510 Endorsement or insurer's equivalent.

## Request for Taxpayer Identification Number and Certification

**Give form to the  
requester. Do not  
send to the IRS.**

Print or type  
See Specific Instructions on page 2.

Name (as shown on your income tax return)	
Business name, if different from above	
Check appropriate box: <input type="checkbox"/> Individual/Sole proprietor <input type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Limited liability company. Enter the tax classification (D=disregarded entity, C=corporation, P=partnership) ▶ ..... <input type="checkbox"/> Exempt payee <input type="checkbox"/> Other (see instructions) ▶	
Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
City, state, and ZIP code	
List account number(s) here (optional)	

### Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

**Note.** If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number
or
Employer identification number

### Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the instructions on page 4.

**Sign Here**

Signature of  
U.S. person ▶

Date ▶

## General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

### Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

**Note.** If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

**Definition of a U.S. person.** For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

**Special rules for partnerships.** Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,

- The U.S. grantor or other owner of a grantor trust and not the trust, and
- The U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

**Foreign person.** If you are a foreign person, do not use Form W-9. Instead, use the appropriate Form W-8 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

**Nonresident alien who becomes a resident alien.** Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a “saving clause.” Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

**Example.** Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity not subject to backup withholding, give the requester the appropriate completed Form W-8.

**What is backup withholding?** Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called “backup withholding.” Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

**Payments you receive will be subject to backup withholding if:**

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),
3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See the instructions below and the separate Instructions for the Requester of Form W-9.

Also see *Special rules for partnerships* on page 1.

## Penalties

**Failure to furnish TIN.** If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

**Civil penalty for false information with respect to withholding.** If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

**Criminal penalty for falsifying information.** Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

**Misuse of TINs.** If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

## Specific Instructions

### Name

If you are an individual, you must generally enter the name shown on your income tax return. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

**Sole proprietor.** Enter your individual name as shown on your income tax return on the “Name” line. You may enter your business, trade, or “doing business as (DBA)” name on the “Business name” line.

**Limited liability company (LLC).** Check the “Limited liability company” box only and enter the appropriate code for the tax classification (“D” for disregarded entity, “C” for corporation, “P” for partnership) in the space provided.

For a single-member LLC (including a foreign LLC with a domestic owner) that is disregarded as an entity separate from its owner under Regulations section 301.7701-3, enter the owner’s name on the “Name” line. Enter the LLC’s name on the “Business name” line.

For an LLC classified as a partnership or a corporation, enter the LLC’s name on the “Name” line and any business, trade, or DBA name on the “Business name” line.

**Other entities.** Enter your business name as shown on required federal tax documents on the “Name” line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the “Business name” line.

**Note.** You are requested to check the appropriate box for your status (individual/sole proprietor, corporation, etc.).

### Exempt Payee

If you are exempt from backup withholding, enter your name as described above and check the appropriate box for your status, then check the “Exempt payee” box in the line following the business name, sign and date the form.



Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends.

**Note.** If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following payees are exempt from backup withholding:

1. An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2),
2. The United States or any of its agencies or instrumentalities,
3. A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities,
4. A foreign government or any of its political subdivisions, agencies, or instrumentalities, or
5. An international organization or any of its agencies or instrumentalities.

Other payees that may be exempt from backup withholding include:

6. A corporation,
7. A foreign central bank of issue,
8. A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States,
9. A futures commission merchant registered with the Commodity Futures Trading Commission,
10. A real estate investment trust,
11. An entity registered at all times during the tax year under the Investment Company Act of 1940,
12. A common trust fund operated by a bank under section 584(a),
13. A financial institution,
14. A middleman known in the investment community as a nominee or custodian, or
15. A trust exempt from tax under section 664 or described in section 4947.

The chart below shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 15.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 9
Broker transactions	Exempt payees 1 through 13. Also, a person registered under the Investment Advisers Act of 1940 who regularly acts as a broker
Barter exchange transactions and patronage dividends	Exempt payees 1 through 5
Payments over \$600 required to be reported and direct sales over \$5,000 <sup>1</sup>	Generally, exempt payees 1 through 7

<sup>1</sup> See Form 1099-MISC, Miscellaneous Income, and its instructions.

<sup>2</sup> However, the following payments made to a corporation (including gross proceeds paid to an attorney under section 6045(f), even if the attorney is a corporation) and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, and payments for services paid by a federal executive agency.

## Part I. Taxpayer Identification Number (TIN)

**Enter your TIN in the appropriate box.** If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited liability company (LLC)* on page 2), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

**Note.** See the chart on page 4 for further clarification of name and TIN combinations.

**How to get a TIN.** If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at [www.ssa.gov](http://www.ssa.gov). You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at [www.irs.gov/businesses](http://www.irs.gov/businesses) and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting [www.irs.gov](http://www.irs.gov) or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

**Note.** Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

**Caution:** A disregarded domestic entity that has a foreign owner must use the appropriate Form W-8.

## Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, and 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). Exempt payees, see *Exempt Payee* on page 2.

**Signature requirements.** Complete the certification as indicated in 1 through 5 below.

**1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.** You must give your correct TIN, but you do not have to sign the certification.

**2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.** You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.



**3. Real estate transactions.** You must sign the certification. You may cross out item 2 of the certification.

**4. Other payments.** You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

**5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions.** You must give your correct TIN, but you do not have to sign the certification.

## Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, social security number (SSN), or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

Call the IRS at 1-800-829-1040 if you think your identity has been used inappropriately for tax purposes.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

### Protect yourself from suspicious emails or phishing schemes.

Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to [phishing@irs.gov](mailto:phishing@irs.gov). You may also report misuse of the IRS name, logo, or other IRS personal property to the Treasury Inspector General for Tax Administration at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: [spam@uce.gov](mailto:spam@uce.gov) or contact them at [www.consumer.gov/idtheft](http://www.consumer.gov/idtheft) or 1-877-IDTHEFT(438-4338).

Visit the IRS website at [www.irs.gov](http://www.irs.gov) to learn more about identity theft and how to reduce your risk.

## What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account <sup>1</sup>
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor <sup>2</sup>
4. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee <sup>1</sup>
b. So-called trust account that is not a legal or valid trust under state law	The actual owner <sup>1</sup>
5. Sole proprietorship or disregarded entity owned by an individual	The owner <sup>3</sup>
For this type of account:	Give name and EIN of:
6. Disregarded entity not owned by an individual	The owner
7. A valid trust, estate, or pension trust	Legal entity <sup>4</sup>
8. Corporate or LLC electing corporate status on Form 8832	The corporation
9. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
10. Partnership or multi-member LLC	The partnership
11. A broker or registered nominee	The broker or nominee
12. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity

<sup>1</sup> List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

<sup>2</sup> Circle the minor's name and furnish the minor's SSN.

<sup>3</sup> You must show your individual name and you may also enter your business or "DBA" name on the second name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

<sup>4</sup> List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 1.

**Note.** If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

## Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons who must file information returns with the IRS to report interest, dividends, and certain other income paid to you, mortgage interest you paid, the acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA, or Archer MSA or HSA. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return. The IRS may also provide this information to the Department of Justice for civil and criminal litigation, and to cities, states, the District of Columbia, and U.S. possessions to carry out their tax laws. We may also disclose this information to other countries under a tax treaty, to federal and state agencies to enforce federal nontax criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism.

You must provide your TIN whether or not you are required to file a tax return. Payers must generally withhold 28% of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to a payer. Certain penalties may also apply.

## Request for Taxpayer Identification Number and Certification

**Give Form to the  
 requester. Do not  
 send to the IRS.**

Print or type See Specific Instructions on page 2.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. <b>Praxair, Inc.</b>		
	2 Business name/disregarded entity name, if different from above		
	3 Check appropriate box for federal tax classification; check only <b>one</b> of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <b>Note.</b> For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶ _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) <b>5</b> Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i>	
	5 Address (number, street, and apt. or suite no.) <b>39 Old Ridgebury Road</b>	Requester's name and address (optional)	
	6 City, state, and ZIP code <b>Danbury, CT 06810</b>		
	7 List account number(s) here (optional)		

<b>Part I Taxpayer Identification Number (TIN)</b>																																																			
Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a TIN</i> on page 3.																																																			
<b>Note.</b> If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="10" style="text-align: center;"><b>Social security number</b></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td colspan="10" style="text-align: center;">or</td> </tr> <tr> <td colspan="10" style="text-align: center;"><b>Employer identification number</b></td> </tr> <tr> <td style="width: 20px; height: 20px; text-align: center;">0</td> <td style="width: 20px; height: 20px; text-align: center;">6</td> <td style="width: 20px; height: 20px; text-align: center;">-</td> <td style="width: 20px; height: 20px; text-align: center;">1</td> <td style="width: 20px; height: 20px; text-align: center;">2</td> <td style="width: 20px; height: 20px; text-align: center;">4</td> <td style="width: 20px; height: 20px; text-align: center;">9</td> <td style="width: 20px; height: 20px; text-align: center;">0</td> <td style="width: 20px; height: 20px; text-align: center;">5</td> <td style="width: 20px; height: 20px; text-align: center;">0</td> </tr> </table>	<b>Social security number</b>																				or										<b>Employer identification number</b>										0	6	-	1	2	4	9	0	5	0
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<b>Part II Certification</b>	
Under penalties of perjury, I certify that:	
1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and	
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and	
3. I am a U.S. citizen or other U.S. person (defined below); and	
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.	
<b>Certification instructions.</b> You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.	
<b>Sign Here</b>	Signature of U.S. person ▶
	Date ▶ <i>1/6/16</i>

**General Instructions**

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at [www.irs.gov/fw9](http://www.irs.gov/fw9).

**Purpose of Form**

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

*If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.*

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.



Certificate of Analysis - COA

PRAXAIR INC.

Customer Name

Customer Address

Praxair Number:

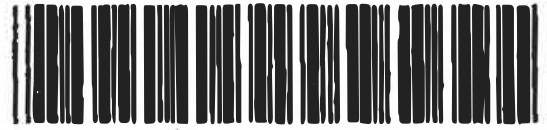
Product Label:       Liquid Oxygen

Lot Number:

Component	Specification	Analytical Result	Analytical Method
Assay	>= 99.5 %		Servomex 1100
H2O	<= 6 PPM		Analyzer
Odor	Is None Detected		Organoleptic
Total Hydrocarbons	<= 25 PPM		Analyzer

LDL = Lower Detection Limit of Analyzer

Authorized Praxair Representative \_\_\_\_\_



Order #:

20 Jan 2015

### Proof of Delivery

PRAXAIR INC

Praxair #:

Customer:

Measurement Site:

PO#:

Customer Prod ID:

Route #:

Release #:

Tractor #:

Product Label:

Trailer #:

Lot Number:

Driver 1:

Driver 2:

Service Agreement #:

Location:

Carrier:

Well Number:

### Liquid Delivery

Date/Time Arrived: \_\_\_\_\_

Date/Time Depart: \_\_\_\_\_

Tank Pressure Start: \_\_\_\_\_

Tank Pressure End: \_\_\_\_\_

Meter

U/M

Scale

U/M

Finish: \_\_\_\_\_

Gross Weight: \_\_\_\_\_

Start: \_\_\_\_\_

Tare Weight: \_\_\_\_\_

Net Weight: \_\_\_\_\_

Scale Ticket #: \_\_\_\_\_

Delivery Volume: \_\_\_\_\_

NSF60 O2			
Corporate Certification #:	Supply Center Certification #:	Ship To Certification #:	Bill To Certification #:
ALL LISTED PRODUCTS FROM THIS FACILITY ARE NSF CERTIFIED, WHETHER OR NOT THEY BEAR THE NSF MARK. MAXIMUM USE: N/A			





The Public Health and Safety Organization

## NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday, February 02, 2016** at 12:15 a.m. Eastern Time. Please [contact NSF International](#) to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

<http://info.nsf.org/Certified/PwsChemicals/Listings.asp?>

[Company Name=prax&Chemical Name=Oxygen&Plant State=California+CA&](http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=prax&ChemicalName=Oxygen&PlantState=California+CA&)

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### NSF/ANSI 60 Drinking Water Treatment Chemicals - Health Effects

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#### Praxair Inc.

175 East Park Drive

Tonawanda, NY 14150

United States

800-621-7100

800-PRAXAIR

[Visit this company's website \(http://www.praxair.com\)](http://www.praxair.com)

**Facility :** #861 Wilmington, CA

#### Oxygen

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Oxygen[1]	Ozone Reduction Oxidant	NA

[1] This product is Certified for use in ozone generators.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

**Facility :** #935 Pittsburg, CA

**Oxygen**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Oxygen[1]	Ozone Reduction Oxidant	NA

[1] This product is Certified for use in ozone generators.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

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Number of matching Manufacturers is 1

Number of matching Products is 2

Processing time was 0 seconds

## **QUALIFICATION OF BIDDER**

Praxair is prepared to meet the requirements of a qualified supplier of Liquid Oxygen.

### **Customer Care Center**

Whenever you need equipment assistance on your customer owned supply system, or have a question, a toll-free call to 1-800-PRAXAIR puts the resources of the entire Praxair organization at your service. Should you need equipment assistance you will be required to provide a Purchase Order Number for invoicing purposes. Praxair's service fee schedule is included.

### **Emergencies and Maintenance**

24 hours a day, 7 days a week

Have the following information available when you call:

- Your name and telephone number
- Your Praxair customer number
- A description of the situation, including unit specifications
- Your purchase order number to be used when invoiced

### **Documents and Information**

- Call for copies of your shipping documents, invoices, Safety Data Sheets, product brochures, Annual Reports, and more!
- For additional information about us, we would like to invite you to view our website [www.praxair.com](http://www.praxair.com).
- Praxair Express™ is available as an online tool to help YOU monitor and manage your supply information.

### **Supply Reliability**

Our global network of reliability centers maintains a world-class production system with sophisticated analytical tools to predict and prevent mechanical problems at our production facilities. Six Sigma and Lean projects have helped drive on-stream production reliability towards our goal of 100%.

### **Uninterrupted Delivery Gas Supply**

We know your business requires reliable industrial gas supply and we're committed to meeting this demand. Praxair has 54 production facilities strategically located in every major regional market. The benefit to our customers is our ability to load-shift product, maximizing supply flexibility to meet changing market conditions and customer requirements, particularly in tight-supply markets. Praxair's focus on customer supply priorities - all day, every day - has given us the distinction of having one of the lowest run-out rates in the industry.

### **Supply Management**

We can offer the advantage of reliable supply through the Praxair Supply Management program. To establish your customized usage pattern, planners at our North American Logistics Center in Tonawanda, New York collect tank-level information by telephone, facsimile or through Praxair's remote telemetry unit, Tracker™.

Once we receive the information about your operation, we then forecast your delivery requirements based on your specific usage patterns. You can further ensure accuracy by notifying us 24-hours in advance of any significant changes in your use rates. These changes might include adding another shift, new equipment, or extended shutdowns for vacation or maintenance. By enabling us to anticipate your needs, Praxair Supply Management increases the reliability of your product supply and eliminates the need to order product.

### **North American Logistics Center**

Because reliable supply and responsiveness are paramount for most industrial gas users, Praxair has put together a combination of delivery capabilities and supply system reliability that is second to none. Our commitment to delivery starts with a centralized North American Logistics Center, which coordinates our delivery resources to match customers' requirements. Our computerized North American Logistics Center controls all of our fleet dispatching operations and is the key to our distribution system, controlling a sophisticated network of hundreds of modern gas transportation vehicles for fast, reliable response throughout North America.

The state-of-the-art computer system at the North American Logistics Center maintains records of customer delivery requirements, delivery histories, and available delivery equipment. This information enables us to anticipate customer delivery requirements to provide reliable supply, efficient routing of transport vehicles and optimum use of customers' storage equipment.

## **THE QUALITY PROCESS**

### **Certified Analysis (if applicable)**

Praxair tests every on-site storage lot and every truck to ensure that it meets the specifications in your customer profile and our minimum purity requirements. We then complete a product fill tag and attach it to the truck's fill valves.

When the shipment arrives at your site, the driver, trained in truck filling and delivery procedures, ensures that your account number matches the number on the tank before connecting the product-specific truck and tank. Finally, the product fill tag is attached to the bulk shipping document, verifying the delivered purity level. The product fill tag includes the trailer number as well as the date and time of testing. The trailer number also must match the number on the bulk shipping document.

For no fee, we will provide a certificate of conformance, similar to our product fill tag, that includes the supply location, delivery address, the component purity levels you specify and verification of NSF60 certification (if required). We also offer additional testing for other components outside standard purity specifications, if required (additional fees may apply).

### **Quality Assurance Program**

Praxair Quality Assurance begins with a detailed customer profile that includes the purity specifications for your application. We check this profile when your order is placed and again before it is delivered to make certain the shipment matches your requirements.

In addition, our employees are fully trained in all of the critical procedures necessary to ensure that the product is produced and delivered to you as defined by your specifications.

Our plants are designed and equipped with the latest technology for efficient, reliable and safe production of industrial gases. From production to storage, continuous monitoring and critical operating parameters help ensure the product meets your requirements as well as our minimum purity specifications.

Praxair's inspection and testing program adheres to the most stringent requirements of traceability under the National Institute of Standards and Technology (NIST).

All of our trailers and customer tanks are equipped with product-specific identification and connections.

### **ISO Certification**

Praxair's commitment to world-class systems has been recognized by the International Organization for Standardization (ISO). In September, 1994, Praxair received the most comprehensive ISO 9002 certification in the industrial gases industry in the U.S., Canada and Puerto Rico, covering all bulk operations, distribution and customer service. Separately, Praxair's engineering and design group, worldwide procurement department and 23 other Praxair sites and business around the world have been certified to ISO standards. This certification is assurance that Praxair's quality systems are consistent regardless of where products are produced.

### **Quality Affidavits**

If, in addition to ISO certification, you require a Certificate of Conformance (COC), we are happy to provide it. We offer four levels of COCs; COC-1 through COC-4. Additional testing services outside the standard purity specifications are also available.

### **ANSI/NSF60 Certification (if required)**

Each delivery of Praxair liquid oxygen will include a signed Certificate of Analysis indicating that product delivered not only meets your specifications but as necessary is ANSI/NSF60 certified and/or meets the AWWA current standards for drinking water.

### **AWWA – American Water Works Association Guidelines**

Deliveries of oxygen and carbon dioxide to water treatment facilities across the U.S. are guided by the most current standards published by AWWA. Additionally, Praxair has been an active participant in the committee review of the following standards. B304-13: AWWA Standard for Liquid Oxygen for Ozone Generation for Water, Wastewater, and Reclaimed Water System.

### **DELIVERY AND LOCATION**

Praxair provides all the necessary equipment and procedures to safely offload liquid oxygen into the correct storage tanks at your facilities. Quantity delivered and invoiced is measured by on-board calibrated liquid meters. Calibration records are available upon request. Weight tickets as well as other special delivery requirements, may be requested and incur an additional charge as per the current delivery charge fee schedule.

### **New System Inspection And Fill (new customer and/or new tank)**

- A Customer Owned Tank Checklist is to be completed. (a Praxair technician is available to assist)
- A Praxair technician will inspect your customer unit to ensure it meets standards of safety before an initial fill will be scheduled
- A Praxair service technician shall be present at any Praxair delivery to fill a tank that is 'hot/warm'

### **Praxair Call Center**

The PRAXAIR Call Center at 1-800-PRAXAIR (1-800-772-9247) provides a reliable, single contact point for customer service, one-hour response time, and a process for measuring service call problems and causes.

The call center offers the following benefits:

- Customers have a single, easy-to-remember number to contact Customer Service 24 hours a day, 7 days a week
  - Technical and information specialists are available to speak directly with customers
  - Immediate response is available for most questions and safety issues
  - Maintenance technician is able to call back customer within one hour
  - Praxair can identify and resolve recurring service problems
- Maintenance and customer service technical support will be handled by your local Customer Service Organization. Should any work be required on the Supply System you can call 1-800-PRAXAIR and a work order for your purchase order will be issued for service.



## **MAINTENANCE / REPAIR WORK**

### **Service Technician inspections**

Periodic customer unit inspections are performed by service technicians to identify supply system problems before supply interruptions occur. As you have customer owned equipment, technician will not perform any preventive maintenance and correct any deficiencies discovered, without first quoting and receiving your authorization to perform work via the release of a purchase order for billing. The inspection is also an opportunity for the technician to foster a good relationship with the customer and answer questions about the system's operating characteristics. Praxair has developed a detailed process checklist for inspection of a LOX supply system which is retained in the files of our Customer Service organization.

- Completion of safety and integrity Praxair's Inspection process
- Advise customer that you have completed the unit safety inspection and release for safe delivery
- Notify of observed overgrowth of weeds, debris, or flammables at or near the system in order to ensure site is properly maintained.

At the time of each product delivery

- Praxair drivers perform an 'eyes-on' inspection. Routine visual assessments of key conditions at a customer supply system site.
- If a problem is observed, the driver reports it to the Praxair U.S.A. Call Center. The Call Center then issues a request to call the customer to resolve the problem and record the results. This process helps to ensure the safety of product delivery for Praxair drivers and the reliability of product supply for customers.

### **Customer Owned Supply System Repairs**

Contact 1-800-Praxair with a purchase order

- A Praxair Customer Service Technician will be assigned the issue
- A site visit will be scheduled as required
- Work will be defined, quoted, approval obtained and expenses and/or outcome reported

### **Praxair's Pressure Relief Valve Policy**

Replacement of tank pressure relief valves (PRVs) at 5-year intervals is no longer required. Tank PRV replacement is now required when one of the following events occurs:

- The TANK PRV fails
- A bursting disk is replaced. Replace both the bursting disk and PRV on the side that failed
- A customer unit inspection reveals an external defect of TANK PRV
- A tank is removed from the customer and then rehabbed  
Pressure relief valves will be inspected to ensure:
  - Setpoint of PRV does not exceed MAWP on storage tank data plate. Compare PRV setpoint with MAWP on manufacturer's data plate on storage tank (as per ASME Boiler and Pressure Vessel Code Section VIII UG-129)
  - The PRV outlet is open and free to discharge. Remove any ice buildup
  - Outlet piping is not less than the PRV outlet size
  - Outlet piping is not oriented in a manner that will unscrew the PRV
  - Inlet piping is properly supported and not deformed
  - No cracks or other mechanical damage are present
  - No leaks are found, as evidenced by frost, sound, or escaping gas
  - Wire seal is intact and cap is in place
  - Both PRVs on diverter valve are operational. Check by operating diverter valve to confirm that both sides are operational

## **RESPONSIBLE CARE**

As a member of the American Chemistry Council, Praxair is a Responsible Care® company. The American Chemistry Council launched Responsible Care in 1988 to respond to public concerns about the manufacture and use of chemicals. Through Responsible Care, member companies are committed to support a continuing effort to improve the industry's management of chemicals. Responsible Care companies:

- Continually improve their health, safety and environmental performance;
- Listen and respond to public concerns;
- Assist each other to achieve optimum performance; and
- Report their goals and progress to the public  
New program enhancements adopted by the American Chemistry Council include:
  - A Responsible Care Management System;
  - An independent third party certification of the management system to ensure appropriate actions are taken to improve performance;
  - Tracking and publicly reporting performance based on economic, environmental, health and safety, societal and product related metrics;
  - A Security Code that helps protect people, property, products, processes, information and information systems by enhancing security throughout the chemical industry value chain.

## **SAFE HANDLING TRAINING**

One of the most important components of our safety program is the product information and training we provide to help you use our products safely. We can provide a wide range of safety information, including:

- Safety Data Sheets which can be received by auto-fax by calling 1-800-PRAXAIR or downloaded from our on-line Tech Center at [www.Praxair.com](http://www.Praxair.com).
- Product literature is available containing additional safety information
- Safety CD's are available for our customers with safety information about hydrogen, oxygen, nitrogen and argon

➤ **Booklet: PRAXAIR CRYOGENIC SUPPLY SYSTEMS: AN INSIDE LOOK** (upon customer request)

While Praxair realizes the tanks at your facility are customer owned, we felt you still would find this booklet helpful. It is designed to increase customer understanding of Praxair supply systems and, thereby, improve their ability to recognize and report problems. By referring to this booklet, customers can help correct supply system problems before they cause supply interruptions. In addition, by becoming better acquainted with the supply system, customers will be better able to discuss problems over the phone.

The following subjects are addressed in this booklet:

- Overall cryogenic supply system description
- Description and common problems related to cryogenic tanks, fill zone, liquid level gage and Tracker, pressure controls and pressure relief system, vaporizers, low temperature pipeline protection, and product pressure regulation
- Reporting problems to 1-800-PRAXAIR

### **EMERGENCY PLAN OF ACTION**

Our safety programs begin and end with our employees, especially our truck drivers. Praxair has consistently been an industry leader in fleet safety. We maintain this leadership position by having some of the most experienced, highly trained fleet personnel in the industry. Most of our truck drivers have 10 or more years of experience with us and regularly attend safety training workshops. Safety on the road, in and around your facilities and in transferring product from our vehicles to your tanks is a top priority.

Praxair's commitment to safety is reflected in programs such as our Local Emergency Assistance Program (LEAP) in North America and its counterparts worldwide. These programs have minimized the consequences of a variety of emergency situations. Through LEAP, Praxair's dedicated Safety and Environmental Services and Customer Service personnel provide prompt, safe and effective response to emergencies at our customer sites.

Through LEAP, Praxair's expert Safety & Environmental Services and Customer Service personnel provide prompt, safe and effective response to emergencies for customers, and ensure that every problem is resolved quickly and safely. In North America, our LEAP network comprises more than 150 trained Praxair supervisors, location managers and technical representatives who can assist with emergencies. If an incident occurs involving a Praxair product, LEAP teams:

- Work with you to evaluate the situation
- Help mitigate the incident
- Work on any cylinder, container and valve problems
- Provide assistance in the disposal of hazardous materials

LEAP works in conjunction with the Chemical Transportation Emergency Center (CHEMTREC), a program established by the American Chemistry Council, and also trains local police and fire departments. For direct access to LEAP, call the nearest Praxair facility or 1-800-645-4633.

Praxair personnel are available 24/7 to assist with any emergencies that may arise and will respond accordingly. As a Praxair customer you have three levels of emergency response as listed below:

- 800-621-7100 – Product Supply
- 800-772-9247 – Supply System Service & General Information
- 800-645-4633 – LEAP (Local Emergency Assistance Program - i.e. spills, leaks, accidents, etc.)
- 800-424-9300 – The Chemical Transportation Emergency Center (CHEMTREC)

Because of our comprehensive approach, Praxair maintains a strong safety performance record. As a member of the American Chemistry Council, Praxair is committed to conducting its business according to the industry's Responsible Care Codes. These codes cover pollution prevention, distribution safety, employee health and safety, process safety, community awareness and emergency response, and product stewardship. Praxair personnel also are active members, often leaders, of technical committees of the Compressed Gas Association, which is the principal developer of technical specifications and safety standards for this segment of the chemical industry.

# Price Schedule for Supply System Service

**Charges apply to services including but not limited to:**

- Customer-requested tank painting
- Relocation of equipment (permanent or temporary)
- Modifications to existing equipment
- Installation of accessory equipment
- Vaporizer de-icing
- All customer-caused damage
- Pressure washing
- All services on customer-owned tanks and Praxair-owned carbon dioxide tanks
- Annual tank inspection
- Pressure adjustment
- Warm tank fill
- Repairs associated with improper use of Supply System
- Piping work
- Installation, removal of permanent or temporary Supply System
- Custom services completed on site

Charges apply to services performed on Supply Systems for: argon, carbon dioxide, helium, hydrogen, nitrogen, and oxygen. If you are unsure if services performed on your Supply System will be billed to you, please contact your AccountManager.

**Services performed on all customer-owned tanks for all products, and all Praxair-owned carbon dioxide tanks, will be billed per charges in this schedule.**

**Charges For All Services:**

Customer Service Technician Rates

- Labor, portal-to-portal, weekdays  
 .....\$105/hour, \$420 minimum charge
- Labor, portal-to-portal, weekends and holidays  
 .....\$160/hour, \$640 minimum charge

Travel, portal-to-portal  
 .....\$1.25/mile

Plus out-of-pocket costs, including parts

**Additional Charges:**

Crane/freight charges as applicable (Supply System installations, removals, relocations)

A Purchase Order number is required before any services are performed. Please be prepared to provide the number when calling 1-800-PRAXAIR (1-800-772-9247) for service requests.

Additional information regarding Praxair and Praxair's products and services is available at [www.praxair.com](http://www.praxair.com) or by contacting 1-800-PRAXAIR.

Charges are subject to change.



## Customer-Owned Tank Checklist

*NOTE: This form must be completed before Praxair fills your tank. Accurate completion of this checklist ensures safe operating conditions for the customer and for Praxair drivers.*

Customer Name \_\_\_\_\_

Customer Address \_\_\_\_\_  
(Street, City, State, Zip)

### Tank Information

Is this tank outdoors?    Yes    No      **(IF NO, STOP!! CALL CUSTOMER SERVICE.)**

Tank Manufacturer and Model No. \_\_\_\_\_

Manufacturer's Serial No. \_\_\_\_\_ National Board No. \_\_\_\_\_

Product \_\_\_\_\_ Tank Capacity (gallons) \_\_\_\_\_ Tank fills at \_\_\_\_\_ inches

Inner Tank Material of Construction\* \_\_\_\_\_

Tank Maximum Allowable Working Pressure (psig) \_\_\_\_\_

Tank Pressure Relief Valve – Set Pressure (psig) \_\_\_\_\_ Size \_\_\_\_\_

Rupture Disk (if applicable) – Set Pressure (psig) \_\_\_\_\_ Size \_\_\_\_\_

CO<sub>2</sub> Fill Connection Size:    CGA 1½"    CGA 2"    Other \_\_\_\_\_

\* Praxair Customer Service Personnel: Refer to Customer Service Standards database, Cross-Functional Work Processes view, Section 01.06, for the policy on cryogenic tanks with aluminum inner containers in oxygen service.

### Safety Parameters

*Customer or Tank Owner: Please verify that each of the following safety conditions are met. (Check box that applies.)*

1. Tank has manufacturer's nameplate that indicates that tank meets ASME code requirements, is suitable for the product service indicated above, specifies maximum allowable working pressure (MAWP), and specifies maximum and minimum working temperature.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
2. Tank is equipped with ASME coded pressure relief valve(s) sized to relieve product at the MAWP. Each relief valve meets the capacity requirements specified in the manufacturer's instruction manual.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
3. Tank is equipped with rupture disk(s) sized to relieve product at tank test pressure.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
4. Pressure relief devices have been inspected and will protect <b>all</b> equipment against damage if the pressure should rise to MAWP. Also: a) There is no isolation valve between tank and relief devices. b) No cracks or other mechanical damage are present. c) No leaks are present, as evidenced by frost, sound, or escaping gas. d) Adjacent piping is not deformed. e) Relief device outlets are open and free to discharge. f) Relief devices discharge away from areas where personnel operate valves. g) Relief devices do not discharge against the tank surface.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
5. If tank is vacuum-jacketed, it is equipped with vacuum jacket relief devices.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
6. The pipes and valves that may be exposed to cryogenic liquid or gas are made of aluminum, brass or bronze alloys, copper, or stainless steel (carbon steel is acceptable for CO <sub>2</sub> ; PVC is not acceptable).	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
7. On argon, nitrogen, or oxygen tank, a trycock (95% valve) is installed and verified to be unobstructed.  <b>Note:</b> Contents gauge does not qualify as a fill termination device on these tanks.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	



## Customer-Owned Tank Checklist

8. Tee fix (I): Union Carbide and Taylor Wharton 500 – 6,000 gallon tanks manufactured between 1964 and 1983 had the stainless steel liquid line slip-fitted and braised over the branch connection of the brass tee. This configuration is not acceptable.			
8a. If within this manufacturing range, has the tee fix been retrofitted?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
8b. If within this manufacturing range and not retrofitted, is the temporary clamp and support fix in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
9. Tee fix (II): Union Carbide and Taylor Wharton vertical and horizontal 9,000 – 13,000 gallon tanks up to 355 psig MAWP manufactured between 1970 and 1985 had the stainless steel liquid and gas lines joined to a brass tee. This configuration may not be acceptable.			
9a. If within this manufacturing range and construction, have the joints been inspected for leakage?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
9b. If within this manufacturing range and construction, and if either of the joints have leaked, have the tees been repaired/replaced?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
10a. Is this vessel compliant with CGA Position Statement PS-8 regarding overpressure protection?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
10b. If answer to 10a is Yes, what type of OPP device is installed? _____			
11. Are all areas where liquid product can be trapped protected from overpressurization by a block line relief device?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

Customer Representative \_\_\_\_\_ Date \_\_\_\_\_

Customer Representative Signature (required) \_\_\_\_\_

Phone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

**Praxair Number** (to be filled in by Praxair Customer Service) \_\_\_\_\_

**Return this form to Praxair Customer Service. Fax No.** \_\_\_\_\_

**Direct any questions to Praxair Customer Service at** \_\_\_\_\_

# Oxygen, refrigerated liquid

## Safety Data Sheet P-4637

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1979    Revision date: 10/03/2014    Supersedes: 12/01/2013

### SECTION: 1. Product and company identification

#### 1.1. Product identifier

Product form : Substance  
Name : Oxygen, refrigerated liquid  
CAS No : 7782-44-7  
Formula : O<sub>2</sub>  
Other means of identification : Oxygen (cryogenic liquid), Liquid Oxygen, Medipure Liquid Oxygen

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Industrial use  
Medical applications.

#### 1.3. Details of the supplier of the safety data sheet

Praxair, Inc.  
39 Old Ridgebury Road  
Danbury, CT 06810-5113 - USA  
T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146  
[www.praxair.com](http://www.praxair.com)

#### 1.4. Emergency telephone number

Emergency number : Onsite Emergencies: 1-800-645-4633  
CHEMTREC: USA 1-800-424-9300, International 001-703-527-3887 (Collect calls accepted, contract 17729)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Ox. Gas 1                    H270  
Refrigerated liquefied gas H281  
Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS03

GHS04

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H270 - MAY CAUSE OR INTENSIFY FIRE; OXIDIZER  
H281 - CONTAINS REFRIGERATED GAS; MAY CAUSE CRYOGENIC BURNS OR INJURY  
CGA-HG13 - COMBUSTIBLES IN CONTACT WITH LIQUID OXYGEN MAY EXPLODE ON IGNITION OR IMPACT.  
Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood  
P220 - Keep/Store away from clothing, combustible materials  
P244 - Keep reduction valves/valves and fittings free from oil and grease  
P271+P403 - Use and store only outdoors or in a well-ventilated place.  
P282 - Wear cold insulating gloves, face shield, eye protection  
P370+P376 - In case of fire: Stop leak if safe to do so  
CGA-PG05 - Use a back flow preventive device in the piping.  
CGA-PG20+CGA-PG10 - Use only with equipment of compatible materials of construction and rated for cylinder pressure.  
CGA-PG22 - Use only with equipment cleaned for oxygen service.  
CGA-PG24 - DO NOT change or force fit connections.  
CGA-PG28 - Avoid spills. Do not walk on or roll equipment over spills.  
CGA-PG06 - Close valve after each use and when empty.

# Oxygen, refrigerated liquid

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

CGA-PG23 - Always keep container in upright position.

### 2.3. Other hazards

Other hazards not contributing to the classification : Breathing 80 percent or more oxygen at atmospheric pressure for more than a few hours may cause nasal stuffiness, cough, sore throat, chest pain, and breathing difficulty. Breathing oxygen at higher pressure increases the likelihood of adverse effects within a shorter time period. Breathing pure oxygen under pressure may cause lung damage and central nervous system (CNS) effects, resulting in dizziness, poor coordination, tingling sensation, visual and hearing disturbances, muscular twitching, unconsciousness, and convulsions. Breathing oxygen under pressure may cause prolongation of adaptation to darkness and reduced peripheral vision. Contact with liquid may cause cold burns/frostbite.

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name	Product identifier	%
Oxygen, refrigerated liquid (Main constituent)	(CAS No) 7782-44-7	100

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to uncontaminated area. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

First-aid measures after skin contact : For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Get immediate medical attention.

First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

None.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Vigorously accelerates combustion. Use media appropriate for surrounding fire. Water (e.g., safety shower) is the preferred extinguishing media for clothing fires.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Oxidizing agent; vigorously accelerates combustion. Contact with flammable materials may cause fire or explosion.

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

### 5.3. Advice for firefighters

Firefighting instructions : DANGER! Extremely cold liquid and gas under pressure. Take care not to direct spray onto vents on top of container. Do not discharge sprays directly into liquid; cryogenic liquid can freeze water rapidly. Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.

# Oxygen, refrigerated liquid

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Special protective equipment for fire fighters	: Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
Specific methods	: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. Exposure to fire may cause containers to rupture/explode. Stop flow of product if safe to do so. Use water spray or fog to knock down fire fumes if possible. If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire.
Other information	: Do not walk on or roll equipment over a spill; any impact could cause an explosion. Smoking, flames, and electric sparks are potential explosion hazards in oxygen-enriched atmospheres. Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.).

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ensure adequate air ventilation. Eliminate ignition sources. Evacuate area. Try to stop release. Monitor concentration of released product. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Stop leak if safe to do so.
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##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Try to stop release.

#### 6.3. Methods and material for containment and cleaning up

No additional information available

#### 6.4. Reference to other sections

See also sections 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	: Never use oxygen as a substitute for compressed air. Never use an oxygen jet for any type of cleaning, especially for cleaning clothing. Oxygen-saturated clothing may burst into flame at the slightest spark and be quickly consumed in an engulfing fire. Do not get liquid in eyes, on skin, or on clothing. Persons exposed to high concentrations of liquid oxygen should stay in a well-ventilated or open area for 30 minutes before entering a confined space or going near any source of ignition. Immediately remove clothing exposed to oxygen and air it out to reduce the likelihood of an engulfing fire. Prevent ignition sources, such as static electricity generated in clothing while walking. Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.
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# Oxygen, refrigerated liquid

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

### 7.3. Specific end use(s)

None.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Oxygen, refrigerated liquid (7782-44-7)	
ACGIH	Not established
USA OSHA	Not established

### 8.2. Exposure controls

Appropriate engineering controls : Avoid oxygen rich (>23.5%) atmospheres. Systems under pressure should be regularly checked for leakages. Ensure exposure is below occupational exposure limits (where available). Gas detectors should be used when oxidizing gases may be released. Oxygen detectors should be used when asphyxiating gases may be released. Provide adequate general and local exhaust ventilation. Consider work permit system e.g. for maintenance activities.

Hand protection : Wear working gloves when handling gas containers.

Eye protection : Wear safety glasses with side shields. Wear goggles and a face shield when transfilling or breaking transfer connections.

Skin and body protection : Wear loose-fitting, cryogenic gloves, metatarsal shoes for container handling, and protective clothing where needed. Cuffless trousers should be worn outside the shoes. Gloves must be free of oil and grease. Select in accordance with OSHA 29 CFR 1910.132, 1910.136, and 1910.138.

Respiratory protection : None required under normal use. An air-supplied respirator must be used while working with this product in confined spaces. The respiratory protection used must conform with OSHA rules as specified in 29 CFR 1910.134. Select per OSHA 29 CFR 1910.134 and ANSI Z88.2.

Thermal hazard protection : Wear cold insulating gloves. Wear cold insulating gloves when transfilling or breaking transfer connections.

Environmental exposure controls : None necessary.

Other information : Consider the use of flame resistant safety clothing. Wear safety shoes while handling containers.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Gas

Appearance : Colorless gas.

Molecular mass : 32 g/mol

Color : Bluish liquid.

Odor : No data available

Odor threshold : No data available

pH : Not applicable.

Relative evaporation rate (butyl acetate=1) : No data available

Relative evaporation rate (ether=1) : Not applicable.

# Oxygen, refrigerated liquid

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Melting point	: -219 °C
Freezing point	: -218.4 °C
Boiling point	: -183 °C
Flash point	: No data available
Critical temperature	: -118.6 °C
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: Not applicable.
Critical pressure	: 5043 kPa
Relative vapor density at 20 °C	: No data available
Relative density	: 1.1
Specific gravity / density	: 1.4289 kg/m <sup>3</sup> (at 21.1 °C)
Relative gas density	: 1.1
Solubility	: Water: 39 mg/l
Log Pow	: Not applicable.
Log Kow	: Not applicable.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: Not applicable.
Oxidizing properties	: Oxidizer.
Explosive limits	: No data available

### 9.2. Other information

Gas group	: Refrigerated liquefied gas
Additional information	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Risk of explosion if spilt on organic structural materials (e.g. wood or asphalt). Violently oxidizes organic material.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Consult supplier for specific recommendations. Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated polymers in high pressure (> 30 bar) oxygen lines in case of combustion. Keep equipment free from oil and grease. May react violently with combustible materials. May react violently with reducing agents.

### 10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: Not applicable.

# Oxygen, refrigerated liquid

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Serious eye damage/irritation	: Not classified pH: Not applicable.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified No known effects from this product.
Aspiration hazard	: Not classified Not applicable.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : No ecological damage caused by this product.

#### 12.2. Persistence and degradability

##### Oxygen, refrigerated liquid (7782-44-7)

Persistence and degradability	No ecological damage caused by this product.
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#### 12.3. Bioaccumulative potential

##### Oxygen, refrigerated liquid (7782-44-7)

Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.

#### 12.4. Mobility in soil

##### Oxygen, refrigerated liquid (7782-44-7)

Mobility in soil	No data available.
Ecology - soil	No ecological damage caused by this product.

#### 12.5. Other adverse effects

Other adverse effects : Can cause frost damage to vegetation.  
Effect on ozone layer : None.  
Effect on the global warming : No known effects from this product.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Do not discharge into any place where its accumulation could be dangerous.  
Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

### SECTION 14: Transport information

In accordance with DOT  
Transport document description : UN1073 Oxygen, refrigerated liquid (cryogenic liquid), 2.2  
UN-No.(DOT) : UN1073  
Proper Shipping Name (DOT) : Oxygen, refrigerated liquid  
(cryogenic liquid)  
Department of Transportation (DOT) Hazard Classes : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

# Oxygen, refrigerated liquid

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Hazard labels (DOT) : 2.2 - Non-flammable gas  
5.1 - Oxidizer



DOT Special Provisions (49 CFR 172.102) : T75 - When portable tank instruction T75 is referenced in Column (7) of the 172.101 Table, the applicable refrigerated liquefied gases are authorized to be transported in portable tanks in accordance with the requirements of 178.277 of this subchapter.  
TP5 - For a portable tank used for the transport of flammable refrigerated liquefied gases or refrigerated liquefied oxygen, the maximum rate at which the portable tank may be filled must not exceed the liquid flow capacity of the primary pressure relief system rated at a pressure not exceeding 120 percent of the portable tank's design pressure. For portable tanks used for the transport of refrigerated liquefied helium and refrigerated liquefied atmospheric gas (except oxygen), the maximum rate at which the tank is filled must not exceed the liquid flow capacity of the pressure relief device rated at 130 percent of the portable tank's design pressure. Except for a portable tank containing refrigerated liquefied helium, a portable tank shall have an outage of at least two percent below the inlet of the pressure relief device or pressure control valve, under conditions of incipient opening, with the portable tank in a level attitude. No outage is required for helium.  
TP22 - Lubricants for portable tank fittings (for example, gaskets, shut-off valves, flanges) must be oxygen compatible.

### Additional information

Emergency Response Guide (ERG) Number : 122 (UN1072, UN1073)  
Other information : No supplementary information available.  
Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:  
- Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

### Transport by sea

UN-No. (IMDG) : 1073  
Proper Shipping Name (IMDG) : OXYGEN, REFRIGERATED LIQUID  
Class (IMDG) : 2 - Gases  
MFAG-No : 122

### Air transport

UN-No.(IATA) : 1073  
Proper Shipping Name (IATA) : OXYGEN, REFRIGERATED LIQUID  
Class (IATA) : 2  
Civil Aeronautics Law : Gases under pressure/Gases nonflammable nontoxic under pressure

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Oxygen, refrigerated liquid (7782-44-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Sudden release of pressure hazard

### 15.2. International regulations

#### CANADA

# Oxygen, refrigerated liquid

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

### Oxygen, refrigerated liquid (7782-44-7)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

Class A - Compressed Gas  
Class C - Oxidizing Material

### EU-Regulations

### Oxygen, refrigerated liquid (7782-44-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Ox. Gas 1 H270

Refrigerated liquefied gas H281

Full text of H-phrases: see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

O; R8

Full text of R-phrases: see section 16

### 15.2.2. National regulations

### Oxygen, refrigerated liquid (7782-44-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

### 15.3. US State regulations

### Oxygen, refrigerated liquid(7782-44-7)

U.S. - California - Proposition 65 - Carcinogens List

No

U.S. - California - Proposition 65 - Developmental Toxicity

No

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

No

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

No

State or local regulations

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Revision date

: 10/3/2014 12:00:00 AM

# Oxygen, refrigerated liquid

## Safety Data Sheet

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

### Other information

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc., it is the user's obligation to determine the conditions of safe use of the product.

Praxair SDSs are furnished on sale or delivery by Praxair or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your Praxair sales representative, local distributor, or supplier, or download from [www.praxair.com](http://www.praxair.com). If you have questions regarding Praxair SDSs, would like the document number and date of the latest SDS, or would like the names of the Praxair suppliers in your area, phone or write the Praxair Call Center (Phone: 1-800-PRAXAIR/1-800-772-9247; Address: Praxair Call Center, Praxair, Inc., P.O. Box 44, Tonawanda, NY 14151-0044).

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### Full text of H-phrases:

Ox. Gas 1	Oxidizing gases Category 1
Refrigerated liquefied gas	Gases under pressure Refrigerated liquefied gas
H270	MAY CAUSE OR INTENSIFY FIRE; OXIDIZER
H281	CONTAINS REFRIGERATED GAS; MAY CAUSE CRYOGENIC BURNS OR INJURY

### NFPA health hazard

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

### NFPA fire hazard

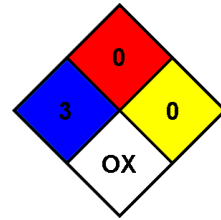
: 0 - Materials that will not burn.

### NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

### NFPA specific hazard

: OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.



### HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard

Physical : 2 Moderate Hazard

SDS US (GHS HazCom 2012) - Praxair

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

### SECTION 1: Product and company identification

#### 1.1. Product identifier

Product form	: Substance
Name	: Oxygen, compressed
CAS No	: 7782-44-7
Formula	: O <sub>2</sub>
Other means of identification	: Oxygen, Compressed; MediPure Oxygen; Aviator's Breathing Oxygen; USP Oxygen; Oxygen - Diving Grade

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	: Medical applications. Industrial use Diving Gas (Underwater Breathing)
------------------------------	--

#### 1.3. Details of the supplier of the safety data sheet

Praxair, Inc.  
 39 Old Ridgebury Road  
 Danbury, CT 06810-5113 - USA  
 T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146  
[www.praxair.com](http://www.praxair.com)

#### 1.4. Emergency telephone number

Emergency number : Onsite Emergency: 1-800-645-4633

CHEMTREC, 24hr/day 7days/week  
 — Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887  
 (collect calls accepted, Contract 17729)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Ox. Gas 1	H270
Compressed gas	H280

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US)	:		
		GHS03	GHS04

Signal word (GHS-US)	: DANGER
Hazard statements (GHS-US)	: H270 - MAY CAUSE OR INTENSIFY FIRE; OXIDIZER H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
Precautionary statements (GHS-US)	: P202 - Do not handle until all safety precautions have been read and understood P220 - Keep/Store away from combustible materials, clothing P244 - Keep reduction valves/valves and fittings free from oil and grease P271+P403 - Use and store only outdoors or in a well-ventilated place. P370+P376 - In case of fire: Stop leak if safe to do so CGA-PG05 - Use a back flow preventive device in the piping. CGA-PG20+CGA-PG10 - Use only with equipment of compatible materials of construction and rated for cylinder pressure. CGA-PG22 - Use only with equipment cleaned for oxygen service. CGA-PG21 - Open valve slowly. CGA-PG06 - Close valve after each use and when empty.

# Oxygen, compressed

## Safety Data Sheet P-4638

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

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CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F).

### 2.3. Other hazards

Other hazards not contributing to the classification : Breathing 80 percent or more oxygen at atmospheric pressure for more than a few hours may cause nasal stuffiness, cough, sore throat, chest pain, and breathing difficulty. Breathing oxygen at higher pressure increases the likelihood of adverse effects within a shorter time period. Breathing pure oxygen under pressure may cause lung damage and central nervous system (CNS) effects, resulting in dizziness, poor coordination, tingling sensation, visual and hearing disturbances, muscular twitching, unconsciousness, and convulsions. Breathing oxygen under pressure may cause prolongation of adaptation to darkness and reduced peripheral vision.

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : Oxygen, compressed

CAS No : 7782-44-7

Name	Product identifier	%
Oxygen	(CAS No) 7782-44-7	99.5 - 100

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Move to fresh air. Get medical advice/attention.

First-aid measures after skin contact : Adverse effects not expected from this product.

First-aid measures after eye contact : Adverse effects not expected from this product. In case of eye irritation: Rinse immediately with plenty of water. Consult an ophthalmologist if irritation persists.

First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

None.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Vigorously accelerates combustion. Use media appropriate for surrounding fire. Water (e.g., safety shower) is the preferred extinguishing media for clothing fires.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Oxidizing agent; vigorously accelerates combustion. Contact with flammable materials may cause fire or explosion.

### 5.3. Advice for firefighters

Firefighting instructions : High-pressure, oxidizing gas.

Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.

Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.



# Oxygen, compressed

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according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

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Specific methods	: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas containers to rupture. Cool endangered containers with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.  Stop flow of product if safe to do so.  Use water spray or fog to knock down fire fumes if possible.
Other information	: Heat of fire can build pressure in container and cause it to rupture. Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.) No part of the container should be subjected to a temperature higher than 125°F (52°C). Smoking, flames, and electric sparks in the presence of enriched oxygen atmospheres are potential explosion hazards.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ensure adequate air ventilation. Eliminate ignition sources. Evacuate area. Try to stop release. Monitor concentration of released product. Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. Stop leak if safe to do so.

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Try to stop release.

#### 6.3. Methods and material for containment and cleaning up

No additional information available

#### 6.4. Reference to other sections

See also sections 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

Safe use of the product : **The suitability of this product as a component in underwater breathing gas mixtures** is to be determined by or under the supervision of personnel experienced in the use of underwater breathing gas mixtures and familiar with the physiological effects, methods employed, frequency and duration of use, hazards, side effects, and precautions to be taken.

# Oxygen, compressed

## Safety Data Sheet P-4638

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1979 Revision date: 06/23/2015 Supersedes: 05/11/2015

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store only where temperature will not exceed 125°F (52°C). Post "No Smoking or Open Flames" signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g., NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16.

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

### 7.3. Specific end use(s)

None.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Oxygen, compressed (7782-44-7)	
ACGIH	Not established
USA OSHA	Not established
Oxygen (7782-44-7)	
ACGIH	Not established
USA OSHA	Not established

### 8.2. Exposure controls

Appropriate engineering controls : Avoid oxygen rich (>23.5%) atmospheres. Use a local exhaust system with sufficient flow velocity to maintain an adequate supply of air in the worker's breathing zone. Mechanical (general): General exhaust ventilation may be acceptable if it can maintain an adequate supply of air.

Eye protection : Wear safety glasses with side shields.

Skin and body protection : Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138. As needed for welding, wear hand, head, and body protection to help prevent injury from radiation and sparks. (See ANSI Z49.1.) At a minimum, this includes welder's gloves and protective goggles, and may include arm protectors, aprons, hats, and shoulder protection as well as substantial clothing.

Respiratory protection : When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure (e.g., an organic vapor cartridge). For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Gas

Appearance : Colorless gas.

Molecular mass : 32 g/mol

Color : Colorless.

# Oxygen, compressed

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according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

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Odor	: No odor warning properties.
Odor threshold	: No data available
pH	: Not applicable.
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable.
Melting point	: -219 °C (-362°F)
Freezing point	: No data available
Boiling point	: -183 °C (-297°F)
Flash point	: Not applicable.
Critical temperature	: -118.6 °C (-181.48°F)
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: Not applicable.
Critical pressure	: 50.4 bar (731.4 psia)
Relative vapor density at 20 °C	: 0.0827 lb/ft <sup>3</sup> (1.325 kg/m <sup>3</sup> ) absolute vapor density at 70°F/21.1°C, 1 atm
Relative density	: 1.1
Density	: 1.4289 kg/m <sup>3</sup> (at 21.1 °C)
Relative gas density	: 1.1
Solubility	: Water: 39 mg/l
Log Pow	: Not applicable.
Log Kow	: Not applicable.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: Not applicable.
Oxidizing properties	: Oxidizer.
Explosion limits	: No data available

### 9.2. Other information

Gas group	: Compressed gas
Additional information	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Violently oxidizes organic material.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Keep equipment free from oil and grease. Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated polymers in high pressure (> 30 bar) oxygen lines in case of combustion. May react violently with combustible materials. May react violently with reducing agents.

### 10.6. Hazardous decomposition products

None.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: Not applicable.
Serious eye damage/irritation	: Not classified pH: Not applicable.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : No ecological damage caused by this product.

#### 12.2. Persistence and degradability

Oxygen, compressed (7782-44-7)	
Persistence and degradability	No ecological damage caused by this product.
Oxygen (7782-44-7)	
Persistence and degradability	No ecological damage caused by this product.

#### 12.3. Bioaccumulative potential

Oxygen, compressed (7782-44-7)	
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.
Oxygen (7782-44-7)	
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.

#### 12.4. Mobility in soil

Oxygen, compressed (7782-44-7)	
Mobility in soil	No data available.
Ecology - soil	No ecological damage caused by this product.
Oxygen (7782-44-7)	
Mobility in soil	No data available.
Ecology - soil	No ecological damage caused by this product.

#### 12.5. Other adverse effects

Effect on ozone layer : None.

Effect on the global warming : No known effects from this product.

# Oxygen, compressed

## Safety Data Sheet P-4638

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

### SECTION 14: Transport information

In accordance with DOT

Transport document description : UN1072 Oxygen, compressed, 2.2  
 UN-No.(DOT) : UN1072  
 Proper Shipping Name (DOT) : Oxygen, compressed  
 Transport hazard class(es) (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115  
 Hazard labels (DOT) : 2.2 - Non-flammable gas  
 5.1 - Oxidizer



DOT Special Provisions (49 CFR 172.102) : 110 - Fire extinguishers transported under UN1044 may include installed actuating cartridges (cartridges, power device of Division 1.4C or 1.4S), without changing the classification of Division 2.2, provided the aggregate quantity of deflagrating (propellant) explosives does not exceed 3.2 grams per extinguishing unit.  
 A14 - This material is not authorized to be transported as a limited quantity or consumer commodity in accordance with 173.306 of this subchapter when transported aboard an aircraft.

#### Additional information

Emergency Response Guide (ERG) Number : 122 (UN1072)  
 Other information : No supplementary information available.  
 Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:  
 - Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

#### Transport by sea

UN-No. (IMDG) : 1072  
 Proper Shipping Name (IMDG) : OXYGEN, COMPRESSED  
 Class (IMDG) : 2 - Gases  
 MFAG-No : 122

#### Air transport

UN-No. (IATA) : 1072  
 Proper Shipping Name (IATA) : Oxygen, compressed  
 Class (IATA) : 2  
 Civil Aeronautics Law : Gases under pressure/Gases nonflammable nontoxic under pressure

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Oxygen, compressed (7782-44-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard Fire hazard
-------------------------------------	--

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.

# Oxygen, compressed

## Safety Data Sheet P-4638

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

##### Oxygen, compressed (7782-44-7)

Listed on the Canadian DSL (Domestic Substances List)

##### Oxygen (7782-44-7)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

##### Oxygen, compressed (7782-44-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 15.2.2. National regulations

##### Oxygen, compressed (7782-44-7)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

### 15.3. US State regulations

##### Oxygen, compressed(7782-44-7)

U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

##### Oxygen (7782-44-7)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

##### Oxygen (7782-44-7)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Revision date : 6/23/2015 12:00:00 AM

# Oxygen, compressed

## Safety Data Sheet P-4638

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1979    Revision date: 06/23/2015    Supersedes: 05/11/2015

**Other information**

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

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PRAXAIR and the Flowing Airstream design are trademarks or registered trademarks of Praxair Technology, Inc. in the United States and/or other countries.

**NFPA health hazard**

: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

**NFPA fire hazard**

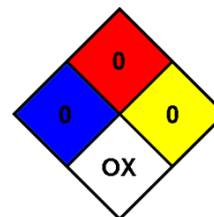
: 0 - Materials that will not burn.

**NFPA reactivity**

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

**NFPA specific hazard**

: OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.



**HMIS III Rating**

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard

Physical : 3 Serious Hazard

SDS US (GHS HazCom 2012) - Praxair

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

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**CASITAS MUNICIPAL WATER DISTRICT  
MEMORANDUM**

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**TO:** STEVE WICKSTRUM, GENERAL MANAGER  
**FROM:** MICHAEL MOLER, O&M MANAGER  
**SUBJECT:** PURCHASE OF 2 - 42" BUTTERFLY VALVES  
**DATE:** MARCH 1, 2016

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**RECOMMENDATION:**

It is recommended to approve the Purchase Order to FAMCON Pipe and Supply for the purchase of two 42" Mueller Butterfly Valves in the amount of \$26,434.25. These valves are budgeted in Capital Project #236.

**BACKGROUND:**

There are two 42" valves in need of replacement on the Oak View Main. These valves are needed for isolation and flow control. Current planning and design is underway for the construction phase during the 2016-17 fiscal year.



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**CASITAS MUNICIPAL WATER DISTRICT  
INTEROFFICE MEMORANDUM**

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**TO:** STEVE WICKSTRUM, GENERAL MANAGER  
**FROM:** CAROL BELSER, PARK SERVICES MANAGER  
**SUBJECT:** Heating Ventilation and Air Conditioning (HVAC) Replacement  
At Lake Casitas Recreation Area  
**DATE:** MARCH 4, 2016

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**RECOMMENDATION:**

Approve the purchase and installation of an HVAC unit for the Lake Casitas Recreation Area (LCRA) from West Coast Air Conditioning, Ventura, the lowest responsive and responsible bidder, in the amount of \$5,990.00.

**BACKGROUND AND DISCUSSION:**

The HVAC system for the LCRA office building is old and in need of replacement. The heating unit stopped working in December 2015 and, upon inspection, West Coast Air Conditioning determined that there were multiple cracks in the heat exchanger creating an unsafe condition. The heating portion was disabled to prevent carbon monoxide from entering the workspace. It would not be feasible to make repairs.

The project involves removing the existing HVAC unit and replacing it with a new one.

Five potential bidders were contacted and the following bids were received:

West Coast Air Conditioning, Ventura ...	<b>\$5,990.00</b>
VACO, Ventura .....	<b>\$8,495.00</b>
Smith Electric, Santa Maria .....	<b>\$12,028.00</b>

West Coast Air Conditioning currently performs monthly inspections and has satisfactorily performed maintenance and repairs in the past. West Coast Air Conditioning has a current contractor's license and is registered with the Department of Industrial Relations.

This project is not budgeted.

# CASITAS MUNICIPAL WATER DISTRICT

## INFORMAL BID IFB0000103

### LAKE CASITAS RECREATION AREA REMOVAL AND REPLACEMENT OF HVAC UNIT

#### 1. INTRODUCTION

Casitas Municipal Water District (District) is soliciting bids from qualified contractors to remove the existing HVAC system from the roof of the office at the Lake Casitas Recreation Area (LCRA) located at 11311 Santa Ana Road, Ventura, California and install a new unit.

The undersigned Bidder (sometimes referred to as Contractor herein) proposes to furnish all tools, materials, supplies, labor, equipment and mobilization necessary for the completion of the work described in this bid submittal.

#### 2. BID SUBMITTAL

One copy of the bid should be submitted in written form or by email to Casitas Municipal Water District, c/o Lake Casitas Recreation Area, 11311 Santa Ana Road, Ventura, California 93001, Attention: Carol Belser, Park Services Manager, email: [cbelser@casitaswater.com](mailto:cbelser@casitaswater.com). Bids will be accepted until Thursday, March 3, 2016 @ 2:00 p.m. No bids will be accepted after that time and date.

#### 3. PRE BID WORK SITE INSPECTION

All bidders submitting bids may visit the project site and shall understand the scope of work to be performed. A bid work site inspection may be scheduled by contacting Tim Lawson, Maintenance Foreman, at 805-797-1732 or by email at [tlawson@casitaswater.com](mailto:tlawson@casitaswater.com).

#### 4. SCOPE OF WORK

(a) The work to be performed under this contract shall consist of furnishing all plans, tools, materials, supplies and manufactured articles and for furnishing all transportation, services, including fuel, power and water and essential communications and the performance of all labor, work or other operations required for the fulfillment of the contract in strict accordance with the specifications, schedules and drawings, all of which are made a part hereof, including such detail sketches as may be furnished by District from time to time during the work in explanation of said drawings. The work shall be complete, and work, materials and services not expressly called for in the specifications or not shown on the drawings which may be necessary for complete and proper construction to carry out the contract in good faith shall be performed, furnished and installed by the Contractor at no increase in cost to the District.

(b) Remove existing HVAC unit from the roof of the office at the LCRA and dispose of it outside the LCRA and surrounding watershed lands in compliance with local, state and federal laws.

(c) Provide and install a Lennox HVAC unit, Model #12GCS042X-100-3PA or approved equivalent. The referenced unit consists of a 3.5 ton rooftop AC and 100,000 BTU in and 80,000 out

heating unit using propane as the fuel.

- (d) Provide a new adaptor to connect to existing roof curb.
- (e) Extend all existing electrical, propane and condensate piping as required for complete installation of system.
- (f) Provide and install sheet metal flashing as required for complete installation of system. Roof does not leak currently and shall not leak after installation is complete.
- (g) Provide all high and low voltage cabling to power HVAC system including control system.
- (h) Perform startup operations to check unit performance and troubleshoot as necessary until optimum performance is achieved.
- (i) Test heating and air conditioning system. Complete system shall operate in compliance with manufacturer's specifications.
- (j) Provide training and operating and maintaining the system.
- (k) Provide operation and maintenance manuals and As Built drawings for the installation.
- (l) Provide crane for removal of existing unit and hoisting and placement of new unit.

## 5. CONTRACT DOCUMENTS

Contract documents shall consist of the following:

- (a) Informal Bid (including Bidding Sheet, ~~Bidder's Plan~~, Bidder's Statement of Subcontractor and References).
- (b) District Part B-General Conditions Specifications.

## 6. INSURANCE REQUIREMENTS

These are stated in the attached Summary of Insurance, Bond and Payment Requirements for Various Construction Contracts. Bonds are not required for project amounts less than \$35,000. **Note: the Insurer's Endorsement Form CG 2010 (sample attached) is required in addition to the Certificate of Insurance.** The successful bidder shall provide the District with all insurance forms per the time schedule stated in Item 9 below.

## 7. LICENSING OF CONTRACTORS

All Contractors submitting bids shall be licensed in accordance with the provisions of Chapter 9, Division 3, of the Business and Professions code of the State of California. Effective January 1, 1990, Contractors submitting bids must state, under penalty of perjury, the Contractor's license number and expiration date. Any bid not containing this information shall be considered non-responsive and shall be rejected by District (Business & Professions Code 7028.15). The contractor license required for this project is General Engineering Contractor Class A or C-20 license and have a minimum of three (3) years practical experience doing similar projects. Bidder shall furnish a written list of references,

including names and phone numbers with the Informal Bid.

**8. PREVAILING WAGE**

(a) In accordance with the provisions of Section 1770 of the California Labor Code, it shall be mandatory upon the Contractor to whom the contract is awarded, and upon all subcontractors under them, to pay not less than the specified rates to all laborers and mechanics employed by them in the execution of the contract. The wage scale is now available at web site [http://www.dir.ca.gov/dlsr/statistics\\_research.html](http://www.dir.ca.gov/dlsr/statistics_research.html). **Final payment for services provided shall not be distributed until receipt of proof of prevailing wage payments.**

(b) The project is recognized as a public works project and as such Articles 1 and 2 of Chapter 1, Part 7, Division II of the California Labor Code, including Sections 1720 through 1861 are applicable to this project. Said sections require the use of prevailing wages for each craft or classification necessary to do the work. Contractors and subcontractors shall be registered pursuant to this section to be qualified to bid on, be listed in a bid proposal, subject to the requirement of Section 4104 of the Public Contract Code, or engage in the performance of any public work contract that is subject to the requirements of this chapter. For the purposes of this section, "Contractor" includes a subcontractor as defined by Section 1722.1.

(c) **All bidders and their subcontractors shall be registered with the California Department of Industrial Relations (DIR) in accordance with Labor Code Sections 1725.5, 1771, 1773.3 and 1776. Failure of the bidder or subcontractors to be registered with the DIR shall render their bid as non-responsive and will be rejected except where State code provides for exceptions to the registration requirements. All contractors and their subcontractors shall furnish electronic certified payroll records directly to the Labor Commissioner, also known as Division of Labor Standards Enforcement.**

**9. TIME SCHEDULE**

(a) Contractor shall submit Certificates of Insurance, Insurer's Endorsements, proof of valid Contractor's license and Form W-9 and any other required documents satisfactory to District within fourteen (14) calendar days of verbal acceptance of bid.

(b) A purchase order shall be issued after receipt of the above documents.

(c) Contractor shall begin the work after issuance of the Purchase Order and complete the work within fourteen (14) working days of delivery of the HVAC equipment.

(b) Work completed after the contract time specified above will be subject to liquidated damages as outlined in Part B, Section 24 of the Specifications attached hereto and made a part hereof.

**10. GENERAL SEQUENCE OF PRE-CONSTRUCTION**

The General Sequence of the Contractor's pre-construction shall be as follows unless otherwise approved by the Maintenance Foreman:

(a) Submit all necessary forms.

(b) Prior to the start of construction, at a time agreed on between the Contractor and District, a pre-construction and safety conference shall be held for the purpose of discussing and familiarizing all

concerned with the contract documents, procedures, standards, correspondence, shop drawing requirements and safety issues relevant to this project.

(c) Personnel to be present at this meeting are representatives of District, Contractor, subcontractors and their foremen or superintendents, whose presence is requested by District.

(d) A final field verification and measurement shall be made by Contractor and District.

#### **11. ACCESS TO THE SITE AND HAUL ROUTES.**

(a) Contractor shall make an investigation of the condition of the available public or private roads or other access, and of clearances, restrictions, bridge load limits, bond requirements and other limitation that affect or may affect transportation and ingress and egress at the job site. The unavailability of transportation facilities or limitation thereon shall not become a basis for claims for damages or extension of time for completion of work. It shall be the Contractor's responsibility to construct and maintain, at Contractor's expense and Contractor's risk, any haul roads, access roads, bridges or drainage structures required by construction operations.

(b) The use of existing public or private roads shall be at the Contractor's own expense and risk. It shall be the Contractor's responsibility to anticipate and meet all conditions properly imposed upon the use of existing roads by those having jurisdiction there over, including (without limitation of the generality of the foregoing) seasonal or other limitations or restrictions, the payment of excess size and weight fees, and the posting of bonds conditioned upon repair of road damage caused by contract generated traffic. It shall be the Contractor's responsibility to satisfy all lawful demands for repair of damage to existing roads caused by contract generated traffic and barricade public access to project sites.

(c) Contractor shall provide worker training and follow-up reminders about traffic safety issues and restrictions to all employees and representatives from firms that will be traveling to the work site. Contractor shall promptly take correct active action, including forbidding any offending party or parties from entering the work site.

#### **12. WATER & POWER**

Contractor will be required to make arrangements for water and power that may be required during construction of the project. If water is obtained from existing District facilities, the water will be furnished free of charge but Contractor shall install and subsequently remove at Contractor's expense, all temporary facilities required to obtain and use the water.

#### **13. ACCESS AND SECURITY**

(a) Access to the LCRA shall be through the front entrance.

(b) Any actions of Contractor's employee(s) deemed by the District as unacceptable while within the LCRA shall result in the immediate and permanent removal of Contractor's employee(s) from the work site.

(c) Work shall only be performed between the hours of 8:00 a.m. and 4:30 p.m. Monday through Friday. No work or presence of Contractor's employees will be allowed at the work site between 4:30 PM through 8:00 AM., Saturdays, Sundays or holidays observed by the District. Work outside of these hours is prohibited unless District grants explicit written approval.

(e) All work shall be performed in a manner such as to minimize disruption to the LCRA daily operations. Contractor shall coordinate work with the Maintenance Foreman, park staff, material suppliers, manufacturers and subcontractors to minimize any impact of the operation of the LCRA and to allow for continuous access to the LCRA by the public and staff.

(f) Contractor shall be responsible for the security of the equipment and materials left at the job site. Any losses due to theft and/or vandalism of project components during the completion of the work shall be the sole responsibility of Contractor. Further, Contractor shall secure the site when not present.

(g) Contractor shall be responsible for the safe storage and security of equipment, materials and waste by-products used or produced during the course of work. Waste by-products shall be disposed of outside the LCRA and surrounding watershed in compliance with all local, state and federal laws.

#### **14. SAFETY**

(a) Contractor shall execute and maintain Contractor's work so as to avoid injury or damage to any person or property. Contractor shall comply with the requirements of the specifications relating to safety measures applicable in particular operations or kinds of work.

(b) In carrying out Contractor's work, Contractor shall at all times, exercise all necessary precautions for the safety of employees appropriate to the nature of the work and the conditions under which the work is to be performed, and be in compliance with all federal, state and local statutory and regulatory requirements including State of California, Division of Industrial Safety (Cal/OSHA) regulations. Safety precautions as applicable shall include, but not be limited to, adequate life protection and life saving equipment, adequate illumination for underground and night operations, instructions in accident prevention for all employees, such machinery guards, safe walkways, scaffolds, ladders, bridges, gang planks, confined space procedures, trenching and shoring, and other safety devices, equipment and wearing apparel as are necessary or lawfully required to prevent accidents or injuries, traffic control per County of Ventura requirements, and adequate facilities for the proper inspection and maintenance of all safety measures.

#### **15. NONRESIDENCY AT JOB SITE**

Contractor, Contractor's employees or any subcontractors shall not be permitted to remain at any of the job sites during non-working hours.

#### **16. MATERIALS**

All parts and materials provided for construction of the project shall be new unless otherwise indicated.

#### **17. METHODS**

Generally any method may be used to complete the work provided the following conditions are met:

(a) The method is in compliance with Cal-OSHA requirements.

(b) All gasoline or diesel powered equipment shall be in compliance with Ventura County Air Pollution Control District regulations.

(c) The method used provides a finished project that meets this specification requirements and general industry standards for quality and workmanship.

**18. MEASUREMENT AND PAYMENT – BID ITEMS 1-3**

(a) Measurement and payment shall be at the lump sum bid price and shall include compensation for all plants, equipment, tools, material, labor, service, permits and all other items required to complete the work in conformity with the contract documents unless specifically excluded. No other compensation will be made except for the items listed in the bid sheet. Work for which no separate payment has been provided will be considered as a subsidiary obligation of Contractor and the cost therefor shall be included in the applicable contract price for the item to which the work applies. All measurements of work will be made by the Maintenance Foreman.

(b) Bidder declares that Bidder has examined the site(s) of the work and agrees that if this bid is accepted, to perform all the work stipulated in the Contract Documents, complete the same within the time limits stipulated herein and accept the amount stated in this Informal Bid in full payment therefor.

(c) Payment will be made within thirty (30) days after completion of project to District's complete satisfaction.

Attachments:

Part B-General Conditions Specifications

Summary of Insurance, Bond & Payment Requirements

Insurance Certificate & Endorsement (Example)

W-9 – Request for Taxpayer ID Number & Certification

**BIDDING SHEET  
LAKE CASITAS RECREATION AREA  
REMOVAL AND REPLACEMENT OF  
HVAC UNIT - IFB0000103**

Bid & Item #	Quantity & Unit	Task Description & Price in Words	Lump Sum \$
1	LS	Remove and dispose of existing HVAC unit for the lump sum price of <u>\$400,00</u> <u>FOUR HUNDRED</u> dollars	<u>\$1400,00</u>
2	LS	Provide and install Lennox HVAC unit, Model #12GCS042X-100-3PA or approved equivalent for the lump sum price of <u>\$2,900,00</u> <u>TWO THOUSAND NINE HUNDRED</u> dollars	<u>\$2,900,00</u>
3	LS	Provide and install all necessary adaptors, electrical and gas condensate piping, sheet metal flashing, high and low voltage cabling. Provide crane and perform startup operations, testing and training for the lump sum price of <u>TWO THOUSAND SIX HUNDRED NINETY</u> dollars	<u>\$12,690,00</u>
<b>BID TOTAL (Items 1, 2 and 3)</b>			<u>\$5,990,00</u>

All work to be completed in compliance with maximum manufacturer's recommendations, bidders will not be released on account of errors. When a discrepancy occurs between the written price and the number listed, the written price shall govern.

Bidder understands that the District reserves the right to reject any or all bids, and to waive any formalities in the bidding. Bidder declares that he/she (1) has examined the work site(s) (2) has examined the plans and specifications for the week, and (3) fully understands the scope and extent of the work to be completed.

Date: 03-02-16

Bidder: WEST COAST AIR CONDITIONING

(CORPORATE SEAL)

By: CHRIS PYNE  
Title INSTALLATION MANAGER

License # 710984 Date License Expires: 12-31-16  
License Classification(s): C-20  
California Dept. of Industrial Relations (DIR) # 1000008249  
Telephone # (805) 485-1410 Cell # (805) 667-7043  
Email Address: CHRIS@WESTCOAST-AIR.COM  
Address: 561-A KINETIC DR. OXNARD, CA  
93030



**BIDDER'S STATEMENT OF SUBCONTRACTORS**

The bidder is required to state the name and address of each subcontractor who will perform work in an amount in excess of one-half (1/2) of one percent (1%) of the total bid price and the portion of the work which each subcontractor will do.

The undersigned submits herewith a list of subcontractors whom he proposes to employ on the work, with the proper firm name and business address of each and a statement of the work or bid item which will be done by each subcontractor.

Subcontractor	BIG RED CRANE COMPANY	Portion of Work CRANE
Location and Place of Business	9300 CASITAS PASS RD. CARPINTERIA, CA	
License No. A-1008895	Expiration Date: 12 / 31 / 16	Phone (805) 680-9600

Subcontractor		Portion of Work
Location and Place of Business		
License No.	Expiration Date: / /	Phone ( )

Subcontractor		Portion of Work
Location and Place of Business		
License No.	Expiration Date: / /	Phone ( )

Subcontractor		Portion of Work
Location and Place of Business		
License No.	Expiration Date: / /	Phone ( )

Subcontractor		Portion of Work
Location and Place of Business		
License No.	Expiration Date: / /	Phone ( )

Signed: \_\_\_\_\_

## BIDDER'S REFERENCES

List all similar projects completed by your organization in the last five (5) years.

1. Project Completion Date<sup>(1)</sup> 2-26-16  
 Value of Contract<sup>(2)</sup> \$25,000  
 General Description of Work<sup>(3)</sup> PACKAGE UNIT REPLACEMENTS  
 Name and Address of Owner SEYMOUR DUNLAP  
5427 Hollister Ave. Santa Barbara, CA 93111  
 Party to Contact FRANK MACIEL  
 Phone Number (805) 964-9610 x 1026  
 State whether organization was prime, joint venture, sub or other: PRIME

2. Project Completion Date 08-20-15  
 Value of Contract \$240,000  
 General Description of Work PACKAGE UNIT REPLACEMENTS  
 Name and Address of Owner SKURKA AEROSPACE  
4600 Calle Bolero Camarillo, CA 93012  
 Party to Contact CALE TOLLEY  
 Phone Number (805) 484-8884 x 250  
 State whether organization was prime, joint venture, sub or other: PRIME

3. Project Completion Date 03-30-15  
 Value of Contract \$6,000.00  
 General Description of Work PACKAGE UNIT REPLACEMENT  
 Name and Address of Owner VITESSA  
4721 Calle Carga Camarillo, CA 93012  
 Party to Contact JOEY CARMONA  
 Phone Number (805) 389-7177  
 State whether organization was prime, joint venture, sub or other: PRIME

4. Project Completion Date \_\_\_\_\_  
 Value of Contract \_\_\_\_\_  
 General Description of Work \_\_\_\_\_  
 Name and Address of Owner \_\_\_\_\_  
 \_\_\_\_\_  
 Party to Contact \_\_\_\_\_  
 Phone Number \_\_\_\_\_  
 State whether organization was prime, joint venture, sub or other: \_\_\_\_\_

- (1) Project Completion Date - If current, state current; if incomplete, state incomplete.
- (2) Value of Contract is the total amount of money paid for your work, including all settlements or judgements.
- (3) General Description of Work should indicate the predominant type of construction; i.e., water pipeline, paving, earthwork, sewer, pump plant, etc.



## MEMORANDUM

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TO: Casitas Municipal Water District Board of Directors  
COPY: Steve Wickstrum, General Manager  
FROM: Carol Belser, Parks Services Manager  
RE: TROUT IN THE CLASSROOM PROGRAM SUPPORT  
DATE: March 1, 2016

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### RECOMMENDATION:

It is recommended that the Board of Directors support the Trout in the Classroom program organized by the California Department of Fish and Wildlife by allowing classroom raised triploid rainbow trout fingerlings to be released in Lake Casitas.

### BACKGROUND

At the March 1<sup>st</sup>, 2016 meeting of the Recreation Committee, the Committee reviewed the attached February 16, 2016 letter from Dr. Dwayne Maxwell, Biologist for the California Department of Fish and Wildlife. The Committee supported the request for Lake Casitas to be an option for a release location for Ventura area classroom raised fingerlings.

If approved by the Board, the Park Services Manager and Park Services Officer staff who are certified by the Pacific States Marine Fisheries Commission (PSMFC) in Water Inspection Training and Decontamination (WITII) will work directly with the school administration personnel to coordinate the release protocol outlined in the attached letter. The protocol will include that releases will be pre-scheduled and only allowed under direct supervision of a Park Services Officer. The Park Services Officer will transplant the fingerlings into a container filled with water from Lake Casitas. The container used will be clean and decontaminated by using Casitas' thermal decontamination procedures. The fingerlings and water from Lake Casitas will then be released in to the lake.



State of California – Natural Resources Agency  
DEPARTMENT OF FISH AND WILDLIFE  
Los Alamitos Field Office  
4665 Lampson Avenue, Suite C  
Los Alamitos, CA 90720  
[www.wildlife.ca.gov](http://www.wildlife.ca.gov)

EDMUND G. BROWN JR., Governor  
CHARLTON H. BONHAM, Director



February 16, 2016

Ms. Carol Belser  
Park Services Manager  
Lake Casitas Recreation Area  
11311 Santa Ana Road  
Ventura, CA 93001

Dear Ms. Belser:

I know I am tardy getting back to you regarding the release of Trout in the Classroom fingerlings to Lake Casitas waters, for which I apologize. We fully understand your concerns for the release of trout raised in a classroom aquarium setting and I will try to answer your questions as completely and succinctly as I can.

There is only one species of trout egg we allow for this program in Southern California and that is rainbow trout (*Oncorhynchus mykiss*). California regulations make it illegal to release salmon south of Point Conception. There are also issues with anadromous runs of Southern California steelhead and introduced rainbow trout. The rainbow trout issues are resolved by our hatcheries using only sterile triploid eggs. The potential for competitive interactions with resident trout in Lake Casitas, even if the fingerlings survive, is negligible.

Eight classrooms in the Ventura area received trout eggs in January. Each classroom got about 100 eggs. Of those 100 eggs, depending on the skill of the teacher, it might be expected that the average survival rate is 60% to 80%. The best guess is the eight classrooms might produce, at most, about 640 fingerlings. Some of these classrooms still prefer to go to Reyes Creek or other waters for releases. You might expect half to two-thirds of the classrooms to request Lake Casitas as a release site.

Seasonal releases depend on when eggs are available from the hatcheries. So far this school year, eggs were available in September and again in January. We expect another delivery in March or April. In the past we received four shipments each year, but more recently, we have gotten three per school year. The fingerlings have to be released within eight weeks of receiving the eggs. For the January delivery, this means the fish have to be released by March 22. If it would be helpful, between the two of us, we could arrive at a protocol for releases to be signed and agreed to by signature of the teacher, the principal, and the sponsoring organization, if there is one.

Neither pathogens nor invasive species have been detected in the past. Water sources must be either dechlorinated tap water or bottled water. Because of the cost of

*Conserving California's Wildlife Since 1870*



Ms. Carol Belser, Park Services Manager  
Lake Casitas Recreation Area  
February 9, 2016  
Page 2

bottled water, most teachers opt for using tap water. Filters, rocks, aquaria, and tubing are sterilized between sessions. This is in the teachers' best interest since diseases in an aquarium do not make for a successful project. No living organisms such as plants or insects may be introduced into the aquaria just for this reason. One option I believe we offered to help alleviate your concerns and prevent the introduction of pathogens and invasive species to Lake Casitas is to use only lake water for the releases. Water could be removed from the lake using clean, sterilized buckets, the fingerlings could then be placed in lake water, and released without introducing aquarium water to the lake. All of our hatcheries are under a surveillance program for invasive species, but since invasive species such as quagga mussels are not known to be transmitted by the egg stage, this should not be an issue.

Beside its proximity to the Ventura classrooms, one of the very real advantages Lake Casitas offers is the access to school buses.

I hope this addresses your questions fully. If not, please get back to me if we need to discuss matters further. I can be reached at [Dwayne.Maxwell@wildlife.ca.gov](mailto:Dwayne.Maxwell@wildlife.ca.gov) or by telephone at (714) 501-8156.

Sincerely,



Dwayne C. Maxwell, Ph.D.  
Biologist

Cc: John O'Brien  
Department of Fish and Wildlife  
Los Alamitos

Jennifer O'Brien  
Department of Fish and Wildlife  
Los Alamitos

**CASITAS MUNICIPAL WATER DISTRICT**

**MINUTES**  
**Recreation Committee**

DATE: March 3, 2016  
TO: Board of Directors  
FROM: General Manager, Steven E. Wickstrum  
Re: Committee Meeting of March 1, 2016

**RECOMMENDATION:**

It is recommended that the Board of Directors receive and file this report.

**BACKGROUND AND OVERVIEW:**

1. **Roll Call.**  
Director Bill Hicks  
Director Jim Word  
Steve Wickstrum, General Manager  
Carol Belser, Park Services Manager
  
2. **Public comments.**  
None.
  
3. **Board/Management Comments.**  
Director Word confirmed with the Park Services Manager that the boating ramp is still accessible.  
  
Carol Belser stated that the federal law enforcement will be in the park during the Easter Sunday. Carol Belser further reported that the contractor is making progress on the Water Playground leak repairs.
  
4. **Review of the January Recreation Report.**  
The report was reviewed and recommended to move forward to the Board as information.
  
5. **Discussion regarding the Department of Fish & Wildlife request for Trout in the Classroom partnership.**  
Carol Belser presented a letter from Dwayne C. Maxwell, Ph.D., of the Department of Fish & Wildlife requesting the release of classroom-raised trout into Lake Casitas. The trout eggs are provided to eight local classrooms to raise from egg to fingerlings (3 months) and then to be release into local waters. The Committee discussed the measures to follow to assure compliance with the invasive species prevention program. The item is to be moved forward to the Board for consideration and direction to staff.
  
6. **Review of Incidents and Comments.**  
Carol Belser summarized the incidents occurring at the LCRA during February 2016.

CASITAS MUNICIPAL WATER DISTRICT  
LAKE CASITAS RECREATION AREA

DATE: February 22, 2016  
 TO: Recreation Committee  
 FROM: Carol Belser, Park Services Manager  
 SUBJECT: Recreation Area Monthly Report for January 2016

Visitation Numbers

The following is a comparison of visitations\* for January 2016:

	January 2016	January 2015	Dec. 2015
Visitor Days	20,152	23,008	21,468
Camps	1,931	2,241	1,907
Cars	5,038	5,752	5,367
Boats	104	169	103
Kayaks & Canoes	7	7	1

Fiscal Year to Date Visitation	
2014/2015	311,200
2015/2016	296,978
% Change	-4.570

\*The formulas for calculating the above attendance figures derived from the daily cash reports are as follows:

**Visitor Days** = Daily vehicles + 30 minute passes X 3 + café passes + attendance at special events + annual vehicle decals + replacement decals + campsites occupied + extra vehicles X 4

**Camps** = Campsites occupied + extra vehicles

**Cars** = Daily vehicles + 30 minute passes X 3 + café passes + attendance at special events + annual vehicle decals + replacement decals + campsites occupied + extra vehicles

**Boats** = Daily boats + overnight boats + annual decals + replacement decals

**Kayaks & Canoes** = Daily kayaks and canoes + overnight kayaks and canoes + annual kayaks and canoes

Boating

There were three cables sold for new inspections, two vessels were re-inspected and a total of 283 vessels were retagged. Five vessels failed the first inspection in January 2016. With the historic drought and receding water levels, the launch ramp conditions are seriously impacted but staff, with support from the community, have been able to keep the ramp area in use.

Operations

The District received 250 pounds of rainbow trout planted on January 29 from the Department of Fish and Wildlife. This was encouraging since it was the first plant of the calendar year. The Park Manager continued to work with RNT Consulting and the Department of Fish and Wildlife to complete the Control and Management Plan and Vulnerability Assessment for Lake Casitas. The documents are now under third review by the Department of Fish and Wildlife.



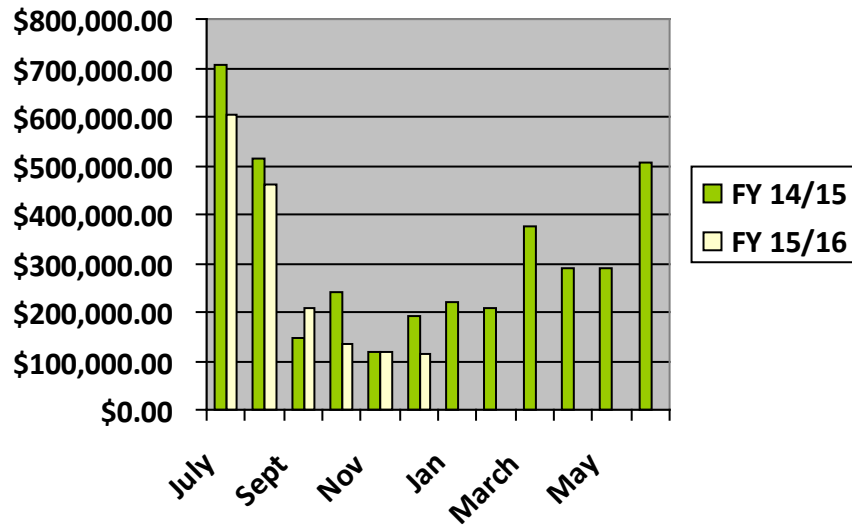
Incidents

Incidents in the Recreation Area for the month of January that included assistance from outside services: Report of stolen property, traffic collision resulting in a DUI Arrest and a medical resulting in a fatality.

Revenue Reporting

The 2015 unaudited monthly figures below available to date illustrate all Lake Casitas Recreation Area's revenue collected in the respective months (operations, concessions, Water Adventure, etc.) per the District's Financial Summary generated by the Finance Manager.

LCRA TOTAL REVENUE



MAR 02 2016

February 29, 2016

Casitas Municipal Water District  
1055 Ventura Ave  
Oak View, CA 93022

**Subject: GROUNDWATER SUSTAINABILITY AGENCY FORMATION**

Dear Well Owner:

Under the recently enacted Sustainable Groundwater Management Act (SGMA) legislation, many groundwater basins in California must now be managed to ensure sustainability. Accordingly, a Groundwater Sustainability Agency (GSA) is being formed for the Upper Ventura River Basin (Basin). You have been identified as a well owner within the Basin that could be affected by this change in groundwater management. The purpose of this letter is to inform you of the process underway and to invite your participation.

Formation of this Agency, to be called the Upper Ventura River Groundwater Sustainability Agency, is being done by a committee consisting of Casitas Municipal Water District, Meiners Oak Water District, Ventura River Water District, the City of Ventura, and the County of Ventura. The Upper Ventura River Groundwater Sustainability Agency will have the authority to regulate and restrict pumping within the Basin.

The next GSA formation committee meeting will be held on Tuesday, April 12<sup>th</sup> at 2 PM at 1055 Ventura Avenue in Oak View. Completion of the GSA is expected by July 2016. Preparation of a Groundwater Sustainability Plan will begin at that time.

The objective of the Groundwater Sustainability Plan is to ensure that pumping of groundwater does not cause undesirable results such as reduction of groundwater storage, degraded water quality, subsidence, and adverse impacts on surface water.

Operation of the GSA and development of the Groundwater Sustainability Plan will require funding that may include the assessment of fees. You could also be affected by a proposed change to the Basin boundary. This issue will be discussed by the Ventura River Water District Board of Directors at its meeting on Wednesday, March 9<sup>th</sup> at 3 PM at 409 Old Baldwin Road in Ojai.

If you want more information, have concerns or suggestions that could help us form this GSA, there are several options. You can visit the website: [www.UVRGroundwater.org](http://www.UVRGroundwater.org) to see maps of existing and proposed Basin boundaries, a work plan, meeting agendas, meeting notes, etc. You may also contact Bert Rapp, General Manager of Ventura River Water District, at (805) 646-3403 or via email at [info@UVRGroundwater.org](mailto:info@UVRGroundwater.org) to ask questions and be notified of upcoming activities.

Regards,

Upper Ventura River Basin Groundwater Sustainability Agency Formation Committee



**Consumption Report**

**Water Sales FY 2015-2016 (Acre-Feet)**

Classification	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Month to Date		
													2015 / 2016	2014 / 2015	
													Total	Total	
AD Ag-Domestic	422	517	547	509	464	403	22	0	0	0	0	0	0	2884	2707
AG Ag	298	375	377	353	298	270	31	0	0	0	0	0	0	2002	2258
C Commercial	58	83	81	60	39	27	9	0	0	0	0	0	0	357	363
DI Interdepartmental	8	8	8	7	7	5	3	0	0	0	0	0	0	46	86
F fire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I Industrial	1	2	2	1	1	1	0	0	0	0	0	0	0	8	19
OT Other	17	13	13	13	14	10	3	0	0	0	0	0	0	83	117
R Residential	106	122	127	103	103	95	50	0	0	0	0	0	0	706	888
RS - P Resale Pumped	50	81	172	150	131	131	27	0	0	0	0	0	0	742	754
RS - G Resale Gravity	456	487	453	363	338	422	228	0	0	0	0	0	0	2747	2971
TE Temporary	6	1	1	0	1	0	0	0	0	0	0	0	0	9	20
<b>Total</b>	1,421	1689	1781	1559	1396	1364	373	0	0	0	0	0	0	<b>9,583</b>	10,183
<b>Total 2014 / 2015</b>	2286	1972	2317	1506	1187	432	483	688	1410	1283	1483	1601		<b>N/A</b>	<b>16648</b>

\*\* July 2015 was the first month when all customers were on monthly billing. July 2015 now reflects actual consumption for July.

**Casitas Municipal Water District**  
**CFD No. 2013-1 (Ojai) - Monthly Cost Analysis**  
**2015 / 2016**



3/2/2016

	<b>Services &amp; Suplies</b>	<b>Legal Fees</b>	<b>Labor Expense</b>	<b>Other Services</b>	<b>Total Expenses</b>
<b>2011 / 2012</b>	<b>-289.50</b>	<b>42,560.00</b>	<b>11,098.37</b>	<b>0.00</b>	<b>53,368.87</b>
<b>2012 / 2013</b>	<b>831.82</b>	<b>223,462.77</b>	<b>14,836.68</b>	<b>0.00</b>	<b>239,131.27</b>
<b>2013 / 2014</b>	<b>29.89</b>	<b>91,878.06</b>	<b>3,835.65</b>	<b>0.00</b>	<b>95,743.60</b>
<b>2014 / 2015</b>	<b>0.00</b>	<b>68,457.10</b>	<b>0.00</b>	<b>0.00</b>	<b>68,457.10</b>
July	0.00	0.00	0.00	0.00	0.00
August	0.00	1,022.00	0.00	0.00	1,022.00
September	0.00	2,140.00	0.00	0.00	2,140.00
October	0.00	21,424.00	0.00	0.00	21,424.00
November	0.00	24,356.00	0.00	0.00	24,356.00
December	0.00	16,494.00	440.42	0.00	16,934.42
January	0.00	7,112.00	0.00	0.00	7,112.00
Feburary	0.00	25,000.00	0.00	0.00	25,000.00
March	0.00	0.00	0.00	0.00	0.00
April	0.00	0.00	0.00	0.00	0.00
May	0.00	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00	0.00
<b>Total Cost YTD</b>	<b>0.00</b>	<b>97,548.00</b>	<b>440.42</b>	<b>0.00</b>	<b>97,988.42</b>
<b>Total Project Cost</b>	<b>572.21</b>	<b>523,905.93</b>	<b>30,211.12</b>	<b>0.00</b>	<b>554,689.26</b>

**CASITAS MUNICIPAL WATER DISTRICT  
TREASURER'S MONTHLY REPORT OF INVESTMENTS  
03/02/16**

Type of Invest	Institution	CUSIP	Date of Maturity	Adjusted Cost	Current Mkt Value	Rate of Interest	Date of Deposit	% of Portfolio	Days to Maturity
*TB	Federal Farm CR Bank	3133EAZM3	7/24/2023	\$1,658,682	\$1,722,413	2.380%	9/16/2014	8.87%	2662
*TB	Federal Farm CR Bank	3133EFNR4	11/18/2024	\$809,209	\$802,054	2.870%	11/18/2015	4.13%	3136
*TB	Federal Farm CR Bank	33133EFHV2	10/13/2022	\$588,552	\$580,911	2.200%	10/23/2015	2.99%	2381
*TB	Federal Farm CR Bank	3133EED31	4/28/2025	\$2,989,237	\$2,968,326	2.800%	6/2/2015	15.29%	3296
*TB	Federal Home Loan Bank	313381TA3	1/17/2023	\$277,619	\$282,694	2.240%	9/8/2014	1.46%	2475
*TB	Federal Home Loan Bank	313379EE5	6/14/2019	\$1,371,681	\$1,368,347	1.625%	10/3/2012	7.05%	1182
*TB	Federal Home Loan Bank	3133802D8	11/23/2022	\$1,477,575	\$1,465,695	2.400%	11/19/2014	7.55%	2421
*TB	Federal Home Loan Bank	313379RN1	12/27/2024	\$978,364	\$995,020	2.840%	6/18/2014	5.13%	3175
*TB	Federal Home Loan Bank	3130A5R35	6/13/2025	\$773,596	\$754,690	2.875%	2/19/2016	3.89%	3341
*TB	Federal Home Loan Bank	313380A98	8/14/2024	\$126,966	\$132,000	2.500%	7/3/2014	0.68%	3042
*TB	Federal Home Loan Bank	313380S73	10/11/2022	\$378,227	\$378,424	2.430%	8/11/2014	1.95%	2379
*TB	Federal Home Loan Bank	3133XFKF2	6/11/2021	\$677,467	\$672,381	5.625%	1/16/2013	3.46%	1899
*TB	Federal Home Loan MTG Corp	3134G43A4	10/30/2024	\$849,441	\$885,044	2.500%	7/3/2014	4.56%	3118
*TB	Federal Home Loan MTG Corp	3137EADB2	1/13/2022	\$678,608	\$691,224	2.375%	9/8/2014	3.56%	2111
*TB	Federal Home Loan MTG Corp	3134G34R8	7/23/2021	\$513,841	\$517,259	2.000%	12/2/2014	2.67%	1941
*TB	Federal Home Loan MTG Corp	3137EABA60	11/17/2017	\$1,063,051	\$1,071,260	5.125%	1/3/2012	5.52%	615
*TB	Federal National Assn	3136G0K67	4/9/2021	\$192,000	\$192,223	2.000%	12/2/2014	0.99%	1837
*TB	Federal National Assn	3135G0ES80	11/15/2016	\$685,094	\$686,429	1.375%	3/12/2012	3.54%	253
*TB	US Treasury Inflation Index NTS	912828JE10	7/15/2018	\$1,144,563	\$1,147,821	1.375%	7/6/2010	5.91%	853
*TB	US Treasury Inflation Index NTS	912828MF4	1/15/2020	\$1,129,366	\$1,156,869	1.375%	11/18/2015	5.96%	1393
*TB	US Treasury Note	912828WE6	11/15/2023	\$769,031	\$824,226	2.750%	12/13/2013	4.25%	2773
Accrued Interest					\$112,903				
<b>Total in Gov't Sec. (11-00-1055-00&amp;1065)</b>				<b>\$19,132,169</b>	<b>\$19,408,212</b>			<b>99.98%</b>	
<b>Total Certificates of Deposit: (11.13506)</b>				<b>\$0</b>	<b>\$0</b>			<b>0.00%</b>	
**	<b>LAIF as of: (11-00-1050-00)</b>		N/A	<b>\$448</b>	<b>\$448</b>	0.32%	Estimated	<b>0.00%</b>	
***	<b>COVI as of: (11-00-1060-00)</b>		N/A	<b>\$2,848</b>	<b>\$2,848</b>	0.42%	Estimated	<b>0.01%</b>	
<b>TOTAL FUNDS INVESTED</b>				<b>\$19,135,465</b>	<b>\$19,411,507</b>			<b>100.00%</b>	
Total Funds Invested last report				\$19,104,762	\$19,386,331				
Total Funds Invested 1 Yr. Ago				\$18,194,390	\$18,418,740				
****	<b>CASH IN BANK (11-00-1000-00) EST.</b>			<b>\$4,737,054</b>	<b>\$4,737,054</b>				
	<b>CASH IN Western Asset Money Market</b>			<b>\$4,064</b>	<b>\$4,064</b>	0.01%			
<b>TOTAL CASH &amp; INVESTMENTS</b>				<b>\$23,876,582</b>	<b>\$24,152,625</b>				
TOTAL CASH & INVESTMENTS 1 YR AGO				\$23,882,994	\$24,107,344				
*CD	CD - Certificate of Deposit								
*TB	TB - Federal Treasury Bonds or Bills								
**	Local Agency Investment Fund								
***	County of Ventura Investment Fund								
	Estimated interest rate, actual not due at present time.								
****	Cash in bank								

No investments were made pursuant to subdivision (i) of Section 53601, Section 53601.1 and subdivision (i) Section 53635 of the Government Code.

All investments were made in accordance with the Treasurer's annual statement of investment policy.