Bighorn-Desert View Water Agency

Board of Directors

Michael McBride, President Judy Corl-Lorono, Vice President David Larson, Director Terry Burkhart, Director J. Dennis Staley, Director

Marina D West, PG, General Manager



Agency Office 622 S. Jemez Trail Yucca Valley, CA 92284-1440

> 760/364-2315 Phone 760/364-3412 Fax

> > www.bdvwa.org

A Public Agency

BOARD OF DIRECTORS' REGULAR MEETING AGENDA

BOARD MEETING OFFICE 1720 N. Cherokee Trail, Landers, CA 92285 Tuesday, April 24, 2012 - 6:00 p.m.

- 1. CALL TO ORDER
- 2. PLEDGE OF ALLEGIANCE
- ROLL CALL
- 4. APPROVAL OF AGENDA

DISCUSSION AND ACTION ITEMS - The Board of Directors and Staff will discuss the following items, and the Board will consider taking action, if so inclined.

The Public is invited to comment on any item on the agenda during discussion of that item.

When giving your public comment, please have your information prepared, if you wish to be identified for the record then please state your name. Due to time constraints, each member of the public will be allotted three-minutes to provide their public comment.

5. CONSIDER DISSOLVING LOCAL AGENCY FORMATION COMMISSION (LAFCO) AD HOC COMMITTEE

Board considers taking the following action(s):

- 1. Board to receive Ad Hoc Committee final verbal report; and
- 2. Consider dissolving the Local Agency Formation Commission (LAFCO) Ad Hoc Committee.
- 6. CONSIDER ADOPTING POLICY NO. 12P-XX A STATEMENT OF BOARD POLICY ESTABLISHING THE CRITERIA FOR AGENCY FINANICIAL RESERVES

Board considers taking the following action(s):

1. Adopt Policy No. 12P-XX A Statement of Board Policy Establishing the Criteria for Agency Financial Reserves.

7. CONSIDER ADOPTING RESOLUTION NO. 12R-XX PUBLIC RECORDS RETENTION AND DESTRUCTION POLICY

Board considers taking the following action(s):

- 1. Adopt Resolution No. 12R-XX Public Records Retention and Destruction Policy.
- 8. CONSIDER ADOPTING RESOLUTION NO. 12R-XX OPPOSING SECTION 7.8 OF THE STATE WATER RESOURCES CONTROL BOARD'S FINAL DRAFT SEPTIC TANK POLICY

Board considers taking the following action(s):

- 1. Adopt Resolution No. 12R-XX Opposing Section 7.8 of State Water Resources Control Board Final Draft "Water Quality Control Policy for Siting, Design, Operation, and Maintenance of Onsite Wastewater Treatment Systems"
- 9. CONSIDER ADOPTING RESOLUTION NO. 12R-XX OPPOSING THE ELIMINATION OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD COLORADO RIVER REGION

Board considers taking the following action(s):

- 1. Adopt Resolution No. 12R-XX Opposing the Elimination of the California Regional Water Quality Control Board Colorado Region.
- 10. RECEIVE AND FILE JOHNSON VALLEY HYDROLOGIC INVESTIGATION REPORT AND AUTHORIZE CHANGE ORDER NO. 1 TO DANIEL B. STEVENS & ASSOC. FOR TIME EXTENSION UNTIL APRIL 24, 2012 AT NO COST

Board considers taking the following action(s):

- 1. Receive and file Johnson Valley Hydrologic Investigation Report dated April 16, 2012.
- 2. Authorize Change Order No. 1 to Daniel B Stephens & Assoc. for a time extension until the April 24, 2012 Receive and File date, at no cost to the Agency.

11. DISBURSEMENTS MARCH 2012

Board considers taking the following action(s):

- 1. Ratify Check Register (payment of bills) for March 2012.
- **12. CONSENT ITEMS -** The following items are expected to be routine and non-controversial and will be acted on by the Board at one time without discussion, unless a member of the Public or member of the Board requests that an item be held for discussion or further action.
 - a. Financial Statements March 2012
 - 1. Balance Sheet
 - 2. Statement of Revenue and Expense
 - 3. General Account (Union Bank)
 - 4. Disbursements
 - 5. Local Agency Investment Fund Balance Timeline
 - b. Consumption & Billing Comparison Report, March 2012
 - c. Service Order Report, March 2012
 - d. Production Report, March 2012
 - e. PLEGS Committee Regular Meeting Report, February 16, 2012
 - f. Special Board Meeting Minutes, April 3, 2012
 - g. Resolution No. 12R-XX Consenting to Join the Health Benefits Program of the ACWA Joint Powers Insurance Authority – Staff Recommends that the Board adopt Resolution 12R-XX Consenting to join the Health Benefits Program of the ACWA Joint Powers Insurance Authority, ratifying the action of the ACWA Health Benefits Authority Board of Directors to terminate the Health Benefits Authority Joint Powers

Agreement, and authorizing and directing the General Manager to execute all necessary documents.

Board considers taking the following action(s):

1. Approve as presented (Items a - g):

13. MATTERS REMOVED FROM CONSENT ITEMS

14. PUBLIC COMMENT PERIOD

Any person may address the Board on any matter within the Agency's jurisdiction on items not appearing on this agenda.

When giving your public comment, please have your information prepared, if you wish to be identified for the record then please state your name. Due to time constraints, each member of the public will be allotted three-minutes to provide their public comment. State Law prohibits the Board of Directors from discussing or taking action on items not included on the agenda.

15. VERBAL REPORTS - Including Reports on Courses/Conferences/Meetings.

- a. GENERAL MANAGER'S REPORT
- b. DIRECTORS' REPORT
- c. PRESIDENT'S REPORT

16. FUTURE AGENDA ITEMS

17. ADJOURNMENT

In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted in the main lobby of the Bighorn-Desert View Water Agency, 622 S. Jemez Trail, Yucca Valley, CA not less than 72 hours if prior to a Regular meeting, date and time above; or in accordance with California Government Code Section 54956 this agenda has been posted not less than 24 hours if prior to a Special meeting, date and time above.

As a general rule, agenda reports or other written documentation has been prepared or organized with respect to each item of business listed on the agenda.

Copies of these materials and other discloseable public records in connection with an open session agenda item, are also on file with and available for inspection at the Office of the Agency Secretary, 622 S. Jemez Trail, Yucca Valley, California, during regular business hours, 8:00 A.M. to 4:30 P.M., Monday through Friday. If such writings are distributed to members of the Board of Directors on the day of a Board meeting, the writings will be available at the entrance to the Board of Directors meeting room at the Bighorn-Desert View Water Agency.

Internet: Once uploaded, agenda materials can also be viewed at www.bdvwa.org.

Public Comments: You may wish to submit your comments in writing to assure that you are able to express yourself adequately.

Per Government Code Section 54954.2, any person with a disability who requires a modification or accommodation, including auxiliary aids or services, in order to participate in the meeting, should contact the Board's Secretary at 760-364-2315 during Agency business hours.

BIGHORN DESERT VIEW WATER AGENCY AGENDA ITEM SUBMITTAL

Meeting Date: April 24, 2012

To: Board of Directors Budgeted: N/A

Budgeted Amount: N/A

Cost: N/A

From: Marina D. West General Counsel Approval: N/A

CEQA Compliance: N/A

Subject: Consider Adopting Policy No. 12P-XX A Statement of Board Policy Establishing

the Criteria for Agency Financial Reserves

SUMMARY

Staff and Board agree that a Policy be establish to designate general ledger fund sub-accounts to differentiate the prescribed uses for financial reserve monies currently retained in the Local Agency Investment Fund (LAIF).

RECOMMENDATION

The Board considers taking the following action(s):

1. Adopt Policy No. 12P-XX A Statement of Board Policy Establishing the Criteria for Agency Financial Reserves.

BACKGROUND/ANALYSIS

Staff and Board agree that the board establish designated fund accounts, in the form of general ledger sub-accounts, to differentiate the prescribed uses for monies retained in the Local Agency Investment Fund (LAIF).

The LAIF account is used to hold monies that are not immediately needed because LAIF pays interest (currently 0.38%) whereas the Union Bank checking account does not.

The sub-accounts will provide more transparency in our financial reporting by tracking where the monies retained in LAIF are expected to be spent. The attached Chart of Accounts indicated the LAIF sub-accounts categories which were reviewed and approved by the Board on April 3rd.

A draft policy statement is attached. The purpose of the policy is to define the sub-accounts, set goals for some funds, and describe authorization for the use of the sub-accounts. Reporting to the Board will occur each month in the form of the "month-end general ledger Balance Sheet-Investments" Section.

On April 3 the Board of Directors recommended funding goals for the Emergency Contingencies Fund and the Replacement and Refurbishment Fund of at least \$200,000 each. The remaining unencumbered cash can provide for Capital Improvement Projects, budget shortfalls, etc.

Staff recommends the Board adopt Policy No. 12R-XX establishing the criteria for the Agency's financial reserves.

PRIOR RELEVANT BOARD ACTION(S)

4/3/2012 Board discussed Policy for establishing criteria for Agency financial reserves and provided direction to staff.

3/14/2012 Finance/Public Relations/Personnel/Education Committee discussed Policy for establishing criteria for Agency financial reserves.

7/14/98 98P-02 A Statement of Board Policy Establishing the Criteria for Agency Financial Reserves.

GENERAL FUND

ASSETS

01 -1204 2	WALTERS HYDRANT REPAIR	
01 11130	FA ORGANIZATION	
01 11131	ACCUMMULATED DEP ORGANIZATION	
	FA LAND	
	FA LAND & BUILDINGS	
01 11150	FA YARDS	
01 11150	FA FUELS TANKS	
01 11150 01 11160 01 11170	FA FUELS TANKS FA WATER SYSTEM	
01 11100	FA SHOP EQUIPMENT	
	FA MOBILE EQUIPMENT	
01 11190	FA OFFICE EQUIPMENT	
	ACCUMULATED DEPRECIATION	
01 12004	WIP BLUCKER ANNEXATION	
01 12005	WIP EPA GRANT	7377 /7077777
01 12006	WIP FLAMINGO HTS ASSN, SEC35	INACTIVE
01 12038	WIP HAHM INTERNATIONAL	
01 12039	WIP AIR VAC MAINTENANCE WIP HYDRANT MAINTENANCE	
01 12039 01 12040 01 12041	WIP HYDRANT MAINTENANCE	
01 12041	WIP-JVHI LAND	
	WALTERS HYDRANT REPAIR	
01 12043	WIP - JVHI WELL	
01 12044	PRV 13 REREFURBISH	
01 12044 01 12045 01 13120	PRV 14 REFURBISH CASH UNION BANK OF CA	
01 13120	CASH UNION BANK OF CA	
01 13130	CASH CASH DRAWERS BASE FUND	
01 13140	CASH FEMA	
01 13303 01 13306 01 13307	LAIF UNENCUMBERED CASH FUND	
01 13306	LAIF-BASIC FACILITIES CHGS	
01 13307	LAIF-CUSTOMER DEPOSITS	
01 13309	LAIF EMERGENCY CONTINGENCIES	
01 13310	LAIF REPLACE & REFURBISH FUND	
	LAIF ENCUMBERED FOR PROJECTS	
	CASH PETTY CASH FUND	
01 13600	A/R INTEREST EARNINGS	
	A/R WATER	
	A/R AVAILABILITY-STANDBY	
01 13712	A/R AVAILABILITY-STANDBY IDB	
	A/R UNBILLED	
	A/R PROPERTY TAXES	
01 13801	A/R MISCELLANEOUS	
01 13802	A/R MISCELLANEOUS 2	
01 13803	ACCRUED RECIEVABLE	
01 13900	A/R CUSTOMER PROJECTS	
01 13901	CUSTOMER UPGRADE 629-342-47	
01 13950	2009-2010 LIEN RECEIVABLE	
01 13951	2010-2011 LIEN RECEIVABLE	
01 14300	INVENTORY-OFFICE SUPPLIES	
01 14301	INVENTORY-WATER SYSTEM PARTS	
01 14400	PREPAYMENTS	
01 14401	PREPAYMENTS WORKERS COMP INSUR	
01 14402	PREPAYMENTS PL & PD LIAB INS	
01 15400	BOND ISSUE COSTS	

POLICY STATEMENT No. 12P-XX

A POLICY OF THE BOARD OF DIRECTORS OF THE BIGHORN-DESERT VIEW WATER AGENCY ESTABLISHING CRITERIA FOR AGENCY FINANCIAL RESERVES

The Board of Directors of the Bighorn-Desert View Water Agency, acting as the elected legislative body of the Agency, so far as practical, shall fix such rate or rates for water in the Agency and in each improvement district, provide for repairs and depreciation of works, provide a reasonable surplus for improvements, extension, and enlargements, pay the interest on any bonded debt, and provide a sinking or other fund for the payment of the principal of such debt as it may become due, pursuant to California State Water Code Appendix, Section 112-25.

In order to fulfill the fiduciary responsibilities of the Agency, the financial reserve account shall be established, maintained and updated periodically based on the following criteria.

The financial reserve account shall consist of:

Account No. 01-13303 – LAIF Unencumbered Cash Account No. 01-13306 – LAIF Basic Facilities Charge Account No. 01-13307 – LAIF Customer Deposits

Account No. 01-13309 – LAIF Emergency Contingencies

Account No. 01-13310 - LAIF Replacement & Refurbishment

Account No. 01-13311 - LAIF Encumbered for Projects

Authorization for use of funds within the financial reserve account shall be as follows:

- Emergency Contingencies Fund: Expenditures from this fund shall be authorized by the Board of Directors upon presentation of evidence that unencumbered cash is not available to meet an immediate need such as water system repairs or in response to an unforeseen circumstance (e.g. water quality issue or natural disaster)
- Replacement & Refurbishment Fund: Expenditures from this fund shall be authorized by the Board of Directors upon presentation of project costs not contemplated in the annual Operating Budget (e.g. well pump replacement or refurbishment, well rehabilitation, reservoir rehabilitation, etc.).

- 3. <u>Basic Facilities Charges Fund</u>: Expenditures from this fund shall be authorized by the Board of Directors as new capital projects (e.g. mainline extensions, new reservoirs, new wells, etc.).
- 4. Encumbered Funds for Approved Projects: As the Board of Directors authorizes expenditures from another reserve account the specified account will be reduced and the Encumbered Funds account will be increased to show that the funds have been appropriately "set aside" for payment of invoices as the authorized work proceeds.
- 5. <u>Current Customer Deposits:</u> The balance in this fund represents the approximate balance of customer deposits held by the Agency and refunded per the current Rules and Regulations for Water Service.
- 6. <u>Unencumbered Cash Fund:</u> Represents the difference between the total cash reserves and the balances in the identified funds.

<u>Fund Goals:</u> The Board of Directors hereby establishes "fund goals", which should be reviewed periodically to maintain effectiveness, for the following reserve account funds:

- Emergency Contingencies Fund Minimum Goal: \$200,000
- Replacement & Refurbishment Fund Minimum Goal: \$200,000

Effective immediately the General Manager shall establish the financial reserve account funds as set forth in this Policy Statement, with Policy Statement No. 98P-02 hereby rescinded.

I, the undersigned, hereby certify that I am the duly-appointed Secretary of the Board of Directors of the Bighorn-Desert View Water Agency, and that at a regular meeting of the Board held on April 24, 2012, the foregoing Policy 12P-XX was adopted by said Board, and that it has not been rescinded or amended since the date of its adoption, and is now in full force and effect.

David Larson,	Board Secretary

BIGHORN DESERT VIEW WATER AGENCY AGENDA ITEM SUBMITTAL

Meeting Date: April 24, 2012

To: Board of Directors Budgeted: Yes

Budgeted Amount: est. \$93K + EPA share

Cost: On budget

From: Marina D. West General Counsel Approval: N/A

CEQA Compliance: June 29, 2010

Subject: Consider Adoption of Resolution No. 12R-XX Public Records Retention and

Destruction Policy

SUMMARY

The Agency currently operates under Policy No. 97P-08 which then established a retention schedule for public records. Staff felt an updated policy was warranted. Working with both legal counsel and the Planning/Legislative/Engineering/Grants/Security Standing Committee, staff has prepared the attached Resolution concerning the retention and destruction of public records.

Staff recommends adoption of Resolution No. 12R-XX Public Records Retention and Destruction Policy.

RECOMMENDATION

The Board considers taking the following action(s):

1. Adopt Resolution No. 12R-XX Public Records Retention and Destruction Policy

BACKGROUND/ANALYSIS

No additional analysis provided.

PRIOR RELEVANT BOARD ACTION(S)

5/13/1997 Policy No. 97P-08 Adopt Policy Establishing a Retention Schedule for Public Records of the Agency.

RESOLUTION NO. 12R-XX

RESOLUTION OF THE BOARD OF DIRECTORS OF THE BIGHORN-DESERT VIEW WATER AGENCY ADOPTING A PUBLIC RECORDS RETENTION AND DESTRUCTION POLICY

WHEREAS, The Board of Directors of the Bighorn-Desert View Water Agency desires to implement a policy for the retention of public records according to provisions of the Government Code and the California Public Records Act; and

WHEREAS, the Government Code allows for the destruction of some public documents under certain circumstances, except those that are prepared or received in a manner required by state statute; and

WHEREAS, this Resolution rescinds and repeals Policy No. 97P-08.

NOW, THEREFORE, THE BOARD OF DIRECTORS HEREBY RESOLVES:

Section 1: Purpose

As a result of the growth of the Agency and increase in the number of customers, the logistical demands of cataloging, storing and retrieving Agency records, documents, instruments, books and papers (collectively, "records") has caused an increase in the amount of staff time devoted to such tasks, and the Agency is running out of space within which to store its records. Therefore, it is the purpose of this Resolution to adopt guidelines governing the retention and disposal of Agency records, to ensure prompt and accurate retrieval of records and to ensure compliance with legal and regulatory requirements.

Section 2: Retention of Public Records

Agency records shall be kept in either: (a) its original paper form, or (b) electronically, <u>provided</u> that the electronic copy complies with the requirement of **Section 4** below. Whether kept in paper form or electronically, records shall be kept for the minimum period of time required by law (see **Section 5**, below), or until the record is no longer required, whichever period is longer. When one section of the policy conflicts with another, that which provides for the longer retention period will be honored.

Section 3: Expiration of Retention Period: Destruction of Records

Upon expiration of the retention period applicable to an Agency record, the record may be destroyed in one of the following two ways:

- A. No Copy Retained, Permission Required: if the record is proposed to be destroyed <u>without</u> retaining an electronic copy, or if the record is less than 2 years old, the record shall only be destroyed with the permission of the Agency General Counsel; or
- **B. Copy Retained, No Permission Required:** if the record is proposed to be destroyed but an electronic copy will be made and maintained according to the provisions of **Section 4** below, no permission to destroy the record is necessary.

Section 4: Requirements for Making Electronic Copies of Records

Agency records may be destroyed without the written consent of the Agency General Counsel if all of the following conditions are complied with:

- A. The record is electronically recorded in a trusted system that does not permit additions, deletions or changes to the original record; **and**
- B. The device used to reproduce the record is one which accurately and legibly reproduces the original thereof in all details and does not permit additions, deletions, or changes to the original document images; and
- C. A **second true electronic copy** of archival quality of the original version shall be kept in a safe and separate place for security purposes.

No page of any records shall be destroyed if any page cannot be reproduced electronically with full legibility. Every un-reproducible page shall be permanently preserved for the period of time required by law in a manner that will afford easy reference.

For the purposes of this Section, every reproduction shall be deemed to be an original record and a transcript, exemplification or certified copy of any reproduction shall be deemed to be a transcript, exemplification or certified copy, as the case may be, of the original.

Section 5: Retention of Agency Records by Service Category

Administrative Services:

Indefinitely: Records affecting title to the Agency's real property (deeds, easements, etc.)

Board of Directors Meeting Minutes

Board Standing Committee Meeting Reports

Board of Directors Meeting Audio and Video Records

Ordinances and Resolutions

Administrative Policy Manual (current policies only)

Historical Documents

Audits

Agency Organic Act and associated amendments

Master Plan, Feasibility Studies, Groundwater Management Plan, etc.

3 years: Agenda Packets

Applications for appointment to Boards, Commissions and Committees

Membership in municipal organizations and groups Election petitions (initiative, referendum, recall and nomination)

Press releases

Public Information Request correspondence(s) (After PIR closed/completed)

General correspondence

10 years Service contracts (after expiration)

Proof of Publication

Statements of Economic Interest (Form 700) for designated employees

Ethics Training (AB 1234) Certifications

Joint Powers and Cooperative Agreements (after expiration)

Finance:

3 years Accounts Receivable (Billing) Records

- Daily Meter Reading Journal
- Record of Delinquent Billing
- Month End Reports (e.g. Monthly Trial Balance, Pending A/R, Water Control Report, Customer Deposits on Account)
- Taxes Receivable (general levy, Ad Valorem, Revenue bonds)

Accounts Payable Records

- Monthly Bank Reconciliation
- Cancelled checks
- Bank statements
- Vendor records

Fixed Assets (following disposal of asset)

General Correspondence

10 years General Ledger

Municipal Bonds (after pay-off)

Insurance Policies (Workers' Compensation, Liability, E&O, etc.)

California Public Employee Retirement System (CalPERS) Contracts

(after expiration)

Accounts Receivable Billing Register
Accounts Receivable Closing Register

Warrant register

Human Resources:

Indefinitely Certain CalPERS records to determine benefits due

3 years Personnel Records

(after employment has ended or upon vacating elected/appointed office)

- Personnel files
- Loyalty oaths
- · Safety Training Records
- Federal Immigration (Form I-9) records
- Minors' work permits
- · Internal investigations of employee misconduct

Medical (HIPPA) Records

- Family and Medical Leave Act records
- California Family Rights Act records
- Medical insurance plans (expired)

Payroll Information

- Time cards
- Wage rate tables
- · Records of additions to or deductions from wages
- · Payroll records
- Income Tax Withholding Records
- Federal Unemployment Tax Records
- FICA Contributions Records

Job applications (inc. job ads, test papers, physical exams <in HIPPA file>, etc.)

Expired Insurance Policies

General correspondence (employee memos, notices, etc.)

10 years Occupational Injury and Illness

- OSHA Log and Summary of Occupational Injury and Illnesses
- Employees' Claims for Worker's Compensation Benefits
- Employer's Report of Occupational Injury or Illness
- Reports to the Division of Worker's Compensation
- Doctor's First Report of Occupational Injury or Illness
- All medical records and reports
- WCAB Orders and Awards
- · Records of payment of compensation benefits
- · Worker's Compensation Claim Log
- Copies of applications for adjudication of claim filed with the WCAB

CalPERS contracts and related documents (after expiration or termination)
Illness and Injury Prevention Program inspection and training records

30 years Records of employee exposure to hazards

(e.g. toxic chemicals, high levels of noise, airborne contaminants and blood borne pathogens.

Information Systems:

3 years E-mails and correspondence

Planning:

Indefinitely Sphere of Influence

Annexations Variances

3 years General correspondence

Recorded documents pertaining to private property (e.g. lot line adjustments, parcel mergers) (Note: these documents are normally

recorded by the County of San Bernardino County Clerk)

10 years Environmental Impact Reports (EIR), California Environmental) Quality Act

(CEQA) Negative Declarations, Mitigated Negative Declarations,

Categorical Exemptions

Grant documents

(e.g. Community Development Block Grants, State and Federal grant documents)

Planning grants and other funding requests (unless other retention required by grantor)

Public Works/Maintenance:

Indefinitely As-built plans and drawings, Atlas Facility Maintenance Records

- Water Level Data
- Water Quality Lab Reports
- Major Repair/Refurbishment
- Valve Exercising
- Fire Hydrant Maintenance
- Storage Reservoir Maintenance

Customer Files by Assessor Parcel Number

(e.g. application for water service, site detail drawings, correspondence, and

maintenance records)

3 years

Preliminary notices

Unaccepted bids and proposals to construct or install

Unaccepted bids for professional services (e.g. design, inspection, etc.)

Agency (miscellaneous) Service Orders

General correspondence

3 years

(after completion)

Accepted bids and proposals to construct or install or professional services

Certified payroll

Conditional waivers

10 years

(after completion)

Performance and Maintenance Bonds

Soils reports Hydrology reports Inspection logs

Structural Calculation(s)
Department of Public Health

• Sanitary Surveys

Citations

30 years

Department of Public Health

- Consumer Confidence Reports (CCR)
- Lead and Copper Monitoring Reports (lab analysis, certifications)
- State Certifications

Risk Management:

10 years

Claims and Litigation files (closed cases)

PASSED, APPROVED, AND ADOPTED by the Board of Directors to Bighorn-Desert View Water Agency this 24th day of April 2012.

ATTEST:	By Michael McBride, President of the Board

David Larson, Secretary of the Board

Page 6 of 6 Resolution 12R-XX

BIGHORN DESERT VIEW WATER AGENCY AGENDA ITEM SUBMITTAL

Meeting Date: April 24, 2012

To: Board of Directors Budgeted: N/A

Budgeted Amount: N/A Cost: Unknown at this time

From: Marina D. West General Counsel Approval: N/A

CEQA Compliance: N/A

Subject: Consider Adopting Resolution No. 12R-XX Opposing Section 7.8 of the State

Water Resources Control Board's Final Draft Septic Tank Policy

SUMMARY

The Planning/Engineering/Legislative/Grant/Security Committee heard on April 19th of septic tank regulations being proposed by the State Water Resources Control Board. The Committee, staff and Mojave Water Agency oppose these new regulations.

The attached information was published by MWA on April 19th following their Legal, Legislative, Public Information Committee meeting.

RECOMMENDATION

The Board considers taking the following action(s):

1. Adopt Resolution No. 12R-XX Opposing Section 7.8 of the State Water Resources Control Board Final Draft "Water Quality Control Policy for Siting, Design, Operation and Maintenance of Onsite Wastewater Treatment Systems".

BACKGROUND/ANALYSIS

See attached MWA staff report and Final Draft "Water Quality Control Policy for Siting, Design, Operation and Maintenance of Onsite Wastewater Treatment Systems", specifically Section 7.8 (page 24).

PRIOR RELEVANT BOARD ACTION(S)

None

RESOLUTION NO. 12R-XX

RESOLUTION OF THE BOARD OF DIRECTORS OF THE BIGHORN-DESERT VIEW WATER AGENCY OPPOSING SECTION 7.8 OF THE FINAL DRAFT "WATER QUALITY CONTROL POLICY FOR SITING, DESIGN, OPERATION AND MAINTENANCE OF ON-SITE WASTERWATER TREATMENT SYSTEMS", OF THE STATE WATER RESOURCES CONTROL BOARD

WHEREAS, on March 20, 2012 the State Water Resources Control Board (SWRCB) released the Final Draft Water Quality Control Policy for Siting, Design, Operation and Maintenance of Onsite Wastewater Treatment Systems ("Policy"); and

WHEREAS, the entire population within the service territory of the Agency live in dwelling units served by onsite wastewater treatment systems ("septic systems"); and

WHEREAS, the Agency is located within the territory of the Mojave Water Agency (MWA) and approximately half of the population within the MWA boundaries also rely on septic systems; and

WHEREAS, under current regulations property owners within the Agency and MWA boundaries have enjoyed the ability, or potential, to develop land at a density of up to one dwelling unit per 0.5 acres, for properties relying on septic systems; and

WHEREAS, under Tier 1 of the Policy the maximum density allowed for properties relying on septic systems would be restricted to one dwelling unit per 2.5 acres (Section 7.8 of the Policy). This portion of the Policy has the potential to negatively impact property owners within both the Agency's and MWA's service territories; and

WHEREAS, a 1993 report by the United States Geological Survey (USGS Water-Resources Investigations Report 93-4137) indicates that in the Mojave River Basin "current on-site domestic-wastewater disposal practices pose little immediate threat to the local ground-water resource". The report further indicates septic systems contribute substantial return flows to groundwater and slow the decline of groundwater levels. This is a significant benefit to the region's water resources.

WHEREAS, Septic return flows contribute significantly to the water balance for the Ames/Reche Spreading Grounds and Recovery Program and Management Agreement recently executed by the Agency. Proposed changes in state policy could negatively impact the groundwater resources of the Agency in the future but lowering baseline production allocations.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Bighorn-Desert View Water Agency opposes Section 7.8 of the Final Draft Water Quality Control Policy for Siting, Design, Operation and Maintenance of Onsite Wastewater Treatment Systems.

PASSED, APPROVED AND ADOPTED by the Board of Directors to Bighorn-Desert View Water Agency this 24th day of April 2012.

	By		
ATTEST:			
David Larson, Secretary of the Board			

Mojave Water Agency

DATE:

April 26, 2012

TO:

Board of Directors

FROM:

Kirby Brill, General Manager

BY:

Lance Eckhart, Principal Hydrogeologist

SUBJECT:

Consider Adopting Resolution No. 949-12 Opposing Section 7.8 of

the State Water Resources Control Board's Final Draft Septic Tank

Policy

RECOMMENDATION

Staff recommends that the Board adopt Resolution No.949-12 opposing Section 7.8 of the State Water Resources Control Board (SWRCB) Final Draft Water Quality Control Policy for Siting, Design, Operation, and Maintenance of Onsite Wastewater Treatment Systems ("OWTS Policy"), dated March 20, 2012.

PREVIOUS CONSIDERATION BY COMMITTEE/BOARD OF DIRECTORS

- Board of Directors April 12, 2012: During public comment, Carl Coleman described the concerns he has regarding the OWTS Policy. The Board requested that staff review the OWTS Policy and bring a recommendation back to the Board.
- Legal, Legislative and Public Information Committee April 19, 2012: The Committee recommended that the Board oppose the Policy.

BACKGROUND

On March 20, 2012 the SWRCB released a Final Draft of the OWTS Policy. The stated purpose of the Policy is to allow the continued use of "onsite wastewater treatment systems" (OWTS, or "septic tanks") while protecting water quality and public health. The Policy establishes a statewide, risk-based, tiered approach to the regulation and management of OWTS. OWTS are placed into tiers, with differing levels of requirements depending upon the tier they fall under.

The SWRCB will hold a public hearing regarding the OWTS Policy on May 2, 2012, and an adoption hearing June 19, 2012. Written comments are due to the SWRCB on May 4, 2012.

ANALYSIS

Previous studies prepared by MWA staff have indicated that roughly one half of the population living within MWA is served by septic tanks. Currently, septic tanks are allowed at a density of one dwelling unit or its equivalent per 0.5 acres of land. Section 7.8, page 24, of the OWTS Policy would restrict new or replacement septic systems under Tier 1 to a maximum density of one dwelling unit or its equivalent per 2.5 acres of land. Section 7.8 states:

The average density for any subdivision of property occurring after the effective date of this Policy and implemented under Tier 1 shall not exceed one single-family dwelling unit, or its equivalent, per 2.5 acres for those units that rely on OWTS.

Property owners have in the past been able to enjoy the potential to utilize their land with up to one dwelling per 0.5 acres for dwellings on septic systems; therefore this change in the density requirement has the potential to negatively impact many property owners within MWA. The Policy appears to allow new development at higher densities than what is allowed under Tier 1, but only if the local agencies implementing the Policy prepare a Local Agency Management Program. Preparation of a Local Agency Management Program may not be a reasonable alternative because it would be costly, difficult to implement, and would still require the approval of the SWRCB.

The current allowed density of one dwelling unit per 0.5 acres is supported by a 1993 report prepared by the US Geological Survey ("Potential for Ground-Water Contamination from Movement of Wastewater Through the Unsaturated Zone, Upper Mojave River Basin, California," Water-Resources Investigations Report 93-4137). The report evaluated densities of 1 to 4 dwelling units per acre, and concluded that in the Mojave River Basin "current onsite domestic-wastewater disposal practices pose little immediate threat to the local ground-water resource." The USGS report also indicates septic systems contribute substantial return flows to groundwater and slow the decline of groundwater levels. This is a significant benefit to the region's water resources.

Per the Board of Director's request and further direction from the Legal Legislative and Public Information Committee, staff has prepared a draft resolution opposing Section 7.8 of the OWTS Policy.

FISCAL IMPACT

No fiscal impact

ATTACHMENT

Resolution No. 949-12

Final Draft Water Quality Control Policy for Siting, Design, Operation, and Maintenance of Onsite Wastewater Treatment Systems

RESOLUTION NO. 949-12

RESOLUTION OF THE MOJAVE WATER AGENCY
OPPOSING SECTION 7.8 OF THE FINAL DRAFT WATER QUALITY
CONTROL POLICY FOR SITING, DESIGN, OPERATION, AND MANTENANCE
OF ONSITE WASTEWATER TREATMENT SYSTEMS, OF THE
STATE WATER RESOURCES CONTROL BOARD

WHEREAS, on March 20, 2012 the State Water Resources Control Board (SWRCB) released the Final Draft Water Quality Control Policy for Siting, Design, Operation, and Maintenance of Onsite Wastewater Treatment Systems ("Policy"); and,

WHEREAS, approximately half of the population within the Mojave Water Agency (MWA) boundaries live in dwelling units served by onsite wastewater treatment systems ("OWTS", "septic systems"); and,

WHEREAS, under current regulations property owners within MWA have enjoyed the ability, or potential, to develop land at a density of up to one dwelling unit per 0.5 acres, for properties relying on septic systems; and

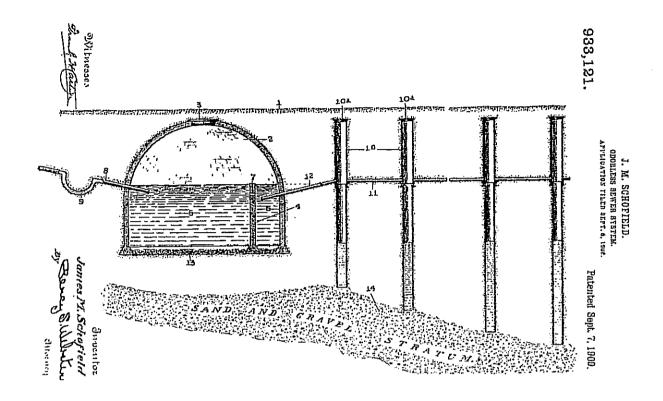
WHEREAS, under Tier 1 of the Policy the maximum density allowed for properties relying on septic systems would be restricted to one dwelling unit per 2.5 acres (Section 7.8 of the Policy). This portion of the Policy has the potential to negatively impact property owners within MWA; and,

WHEREAS, a 1993 report by the United States Geological Survey (USGS Water-Resources Investigations Report 93-4137) indicates that in the Mojave River Basin "current onsite domestic-wastewater disposal practices pose little immediate threat to the local ground-water resource." The report further indicates septic systems contribute substantial return flows to groundwater and slow the decline of groundwater levels. This is a significant benefit to the region's water resources.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the Mojave Water Agency opposes Section 7.8 of the Final Draft Water Quality Control Policy for Siting, Design, Operation, and Maintenance of Onsite Wastewater Treatment Systems.

ADOPTED this 26th day of April, 2012.

	Art Bishop, President	
ATTEST:		
Doug Shumway, Secretary		



Water Quality Control Policy for Siting, Design, Operation, and Maintenance of Onsite Wastewater Treatment Systems

March 20, 2012



STATE WATER RESOURCES CONTROL BOARD REGIONAL WATER QUALITY CONTROL BOARDS



Preamble - Purpose and Scope - Structure of the Policy

3/20/2012

Preamble

Onsite wastewater treatment systems (OWTS) are useful and necessary structures that allow habitation at locations that are removed from centralized wastewater treatment systems. When properly sited, designed, operated, and maintained, OWTS treat domestic wastewater to reduce its polluting impact on the environment and most importantly protect public health. Estimates for the number of installations of OWTS in California at the time of this Policy are that more than 1.2 million systems are installed and operating. The vast majority of these are functioning in a satisfactory manner and meeting their intended purpose.

However there have been occasions in California where OWTS for a varied list of reasons have not satisfactorily protected either water quality or public health. Some instances of these failures are related to the OWTS not being able to adequately treat and dispose of waste as a result of poor design or improper site conditions. Others have occurred where the systems are operating as designed but their densities are such that the combined effluent resulting from multiple systems is more than can be assimilated into the environment. From these failures we must learn how to improve our usage of OWTS and prevent such failures from happening again.

As California's population continues to grow, and we see both increased rural housing densities and the building of residences and other structures in more varied terrain than we ever have before, we increase the risks of causing environmental damage and creating public health risks from the use of OWTS. What may have been effective in the past may not continue to be as conditions and circumstances surrounding particular locations change. So necessarily more scrutiny of our installation of OWTS is demanded of all those involved, while maintaining an appropriate balance of only the necessary requirements so that the use of OWTS remains viable.

Purpose and Scope of the Policy

The purpose of this Policy is to allow the continued use of OWTS, while protecting water quality and public health. This Policy recognizes that responsible local agencies can provide the most effective means to manage OWTS on a routine basis. Therefore as an important element, it is the intent of this policy to efficiently utilize and improve upon where necessary existing local programs through coordination between the State and local agencies. To accomplish this purpose, this Policy establishes a statewide, risk-based, tiered approach for the regulation and management of OWTS installations and replacements and sets the level of performance and protection expected from OWTS. In particular, the Policy requires actions for identified areas where OWTS contribute to water quality degradation that adversely affect beneficial uses.

Preamble - Purpose and Scope - Structure of the Policy

3/20/2012

This Policy only authorizes subsurface disposal of domestic strength, and in limited instances high strength, wastewater and establishes minimum requirements for the permitting, monitoring, and operation of OWTS for protecting beneficial uses of waters of the State and preventing or correcting conditions of pollution and nuisance. And finally, this Policy also conditionally waives the requirement for owners of OWTS to apply for and receive Waste Discharge Requirements in order to operate their systems when they meet the conditions set forth in the Policy. Nothing in this Policy supersedes or requires modification of Total Maximum Daily Loads or Basin Plan prohibitions of discharges from OWTS.

This Policy applies to OWTS on federal, state, and Tribal lands to the extent authorized by law or agreement.

Structure of the Policy

This Policy is structured into ten major parts:

Definitions

Definitions for all the major terms used in this Policy are provided within this part and wherever used in the Policy the definition given here overrides any other possible definition.

[Section 1]

Responsibilities and Duties

Implementation of this Policy involves individual OWTS owners; local agencies, be they counties, cities, or any other subdivision of state government with permitting powers over OWTS; Regional Water Quality Control Boards; and the State Water Resources Control Board.

[Sections 2, 3, 4, and 5]

Tier 0 – Existing OWTS

Existing OWTS that are properly functioning, and do not meet the conditions of failing systems or otherwise require corrective action (for example, to prevent groundwater impairment) as specifically described in Tier 4, and are not determined to be contributing to an impairment of surface water as specifically described in Tier 3, are automatically included in Tier 0.

[Section 6]

Preamble - Purpose and Scope - Structure of the Policy

3/20/2012

Tier 1 - Low-Risk New or Replacement OWTS

New or replacement OWTS that meet low risk siting and design requirements as specified in Tier 1, where there is not an approved Local Agency Management Program per Tier 2.

[Sections 7 and 8]

<u>Tier 2 – Local Agency Management Program for New or Replacement OWTS</u>
California is well known for its extreme range of geological and climatic conditions. As such, the establishment of a single set of criteria for OWTS would either be too restrictive so as to protect for the most sensitive case, or would have broad allowances that would not be protective enough under some circumstances. To accommodate this extreme variance, local agencies may submit management programs ("Local Agency Management Programs") for approval, and upon approval then manage the installation of new and replacement OWTS under that program.

Local Agency Management Programs approved under Tier 2 provide an alternate method from Tier 1 programs to achieve the same policy purpose, which is to protect water quality and public health. In order to address local conditions, Local Agency Management Programs may include standards that differ from the Tier 1 requirements for new and replacement OWTS contained in Sections 7 and 8. As examples, a Local Agency Management Program may authorize different soil characteristics, usage of seepage pits, and different densities for new developments. Once the Local Agency Management Program is approved, new and replacement OWTS that are included within the Local Agency Management Program may be approved by the Local Agency. A Local Agency, at its discretion, may include Tier 1 standards within its Tier 2 Local Agency Management Program for some or all of its jurisdiction. However, once a Local Agency Management Program is approved, it shall supersede Tier 1 and all future OWTS decisions will be governed by the Tier 2 Local Agency Management Program until it is modified, withdrawn, or revoked. [Section 9]

Tier 3 - Impaired Areas

OWTS that are near impaired water bodes may be addressed by a TMDL and its implementation program, or special provisions contained in a Local Agency Management Program. If there is no TMDL or special provisions, new or replacement OWTS within 600 feet of impaired water bodies listed in Attachment 2 must meet the specific requirements of Tier 3. [Section 10]

Preamble – Purpose and Scope – Structure of the Policy

3/20/2012

<u>Tier 4 – OWTS Requiring Corrective Action</u>

OWTS that require corrective action or are either presently failing or fail at any time while this Policy is in effect are automatically included in Tier 4 and must follow the requirements as specified.

[Section 11]

Conditional Waiver of Waste Discharge Requirements

The requirement to submit a report of waste discharge for discharges from OWTS that are in conformance with this policy is waived.
[Section 12]

Effective Date

When this Policy becomes effective.

[Section 13]

Financial Assistance

Procedures for local agencies to apply for funds to establish low interest loan programs for the assistance of OWTS owners in meeting the requirements of this Policy. [Section 14]

Attachment 1

AB 885 Regulatory Program Timelines.

Attachment 2

Tables 4 and 5 specifically identify those impaired water bodies that have Tier 3 requirements and must have a completed TMDL by the date specified.

Attachment 3

Table 6 shows where one Regional Water Board has been designated to review and, if appropriate, approve new Local Agency Management Plans for a local agency that is within multiple Regional Water Boards' jurisdiction.

What Tier Applies to my OWTS?

Existing OWTS that conform to the requirements for Tier 0 will remain in Tier 0 as long as they continue to meet those requirements. An existing OWTS will temporarily move from Tier 0 to Tier 4 if it is determined that corrective action is needed. The existing OWTS will return to Tier 0 once the corrective action is completed. Any major repairs conducted as corrective action must comply with Tier 1 requirements or Tier 2 requirements, whichever are in effect for that local area. An existing OWTS will move from Tier 0 to Tier 3 if it is adjacent to an impaired water body listed on Attachment 2, or is covered by a TMDL implementation plan.

Preamble – Purpose and Scope – Structure of the Policy 3/20/2012

In areas with no approved Local Agency Management Plan, new and replacement OWTS that conform to the requirements of Tier 1 will remain in Tier 1 as long as they continue to meet those requirements. A new or replacement OWTS will temporarily move from Tier 1 to Tier 4 if it is determined that corrective action is needed. The new or replacement OWTS will return to Tier 1 once the corrective action is completed. A new or replacement OWTS will move from Tier 1 to Tier 3 if it is adjacent to an impaired water body, or is covered by a TMDL implementation plan.

In areas with an approved Local Agency Management Plan, new and replacement OWTS that conform to the requirements of the Tier 2 Local Agency Management Plan will remain in Tier 2 as long as they continue to meet those requirements. A new or replacement OWTS will temporarily move from Tier 2 to Tier 4 if it is determined that corrective action is needed. The new or replacement OWTS will return to Tier 2 once the corrective action is completed. A new or replacement OWTS will move from Tier 2 to Tier 3 if it is adjacent to an impaired water body, or is covered by a TMDL implementation plan, or is covered by special provisions for impaired water bodies contained in a Local Agency Management Program.

Existing, new, and replacement OWTS in specified areas adjacent to water bodies that are identified by the State Water Board as impaired for pathogens or nitrogen and listed in Attachment 2 are in Tier 3. Existing, new, and replacement OWTS covered by a TMDL implementation plan, or covered by special provisions for impaired water bodies contained in a Local Agency Management Program are also in Tier 3. These OWTS will temporarily move from Tier 3 to Tier 4 if it is determined that corrective action is needed. The new or replacement OWTS will return to Tier 3 once the corrective action is completed.

Existing, new, and replacement OWTS that do not conform with the requirements to receive coverage under any of the Tiers (e.g., existing OWTS with a projected flow of more than 10,000 gpd) do not qualify for this Policy's conditional waiver of waste discharge requirements, and will be regulated separately by the applicable Regional Water Board.

Definitions

- **1.0 Definitions.** The following definitions apply to this Policy:
- "303 (d) list" means the same as "Impaired Water Bodies."
- "At-grade system" means an OWTS dispersal system with a discharge point located at the preconstruction grade (ground surface elevation). The discharge from an atgrade system is always subsurface.
- "Basin Plan" means the same as "water quality control plan" as defined in Division 7 (commencing with Section 13000) of the Water Code. Basin Plans are adopted by each Regional Water Board, approved by the State Water Board and the Office of Administrative Law, and identify surface water and groundwater bodies within each Region's boundaries and establish, for each, its respective beneficial uses and water quality objectives. Copies are available from the Regional Water Boards, electronically at each Regional Water Boards website, or at the State Water Board's Plans and Policies web page (http://www.waterboards.ca.gov/plans_policies/).
- "Bedrock" means the rock, usually solid, that underlies soil or other unconsolidated, surficial material.
- "CEDEN" means California Environmental Data Exchange Network and information about it is available at the State Water Boards website or http://www.ceden.org/index.shtml.
- "Cesspool" means an excavation in the ground receiving domestic wastewater, designed to retain the organic matter and solids, while allowing the liquids to seep into the soil. Cesspools differ from seepage pits because cesspool systems do not have septic tanks and are not authorized under this Policy. The term cesspool does not include pit-privies and out-houses which are not regulated under this Policy.
- "Clay" means a soil particle; the term also refers to a type of soil texture. As a soil particle, clay consists of individual rock or mineral particles in soils having diameters <0.002 mm. As a soil texture, clay is the soil material that is comprised of 40 percent or more clay particles, not more than 45 percent sand and not more than 40 percent silt particles using the USDA soil classification system.
- "Cobbles" means rock fragments 76 mm or larger using the USDA soil classification systems.
- "Dispersal system" means a leachfield, seepage pit, mound, at-grade, subsurface drip field, evapotranspiration and infiltration bed, or other type of system for final wastewater treatment and subsurface discharge.

Definitions

- "Domestic wastewater" means wastewater with a measured strength less then highstrength wastewater and is the type of wastewater normally discharged from, or similar to, that discharged from plumbing fixtures, appliances and other household devices including, but not limited to toilets, bathtubs, showers, laundry facilities, dishwashing facilities, and garbage disposals. Domestic wastewater may include wastewater from commercial buildings such as office buildings, retail stores, and some restaurants, or from industrial facilities where the domestic wastewater is segregated from the industrial wastewater. Domestic wastewater does not include wastewater from industrial processes or RV dump stations.
- "Dump Station" means a facility intended to receive the discharge of wastewater from a holding tank installed on a recreational vehicle. A dump station does not include a full hook-up sewer connection similar to those used at a recreational vehicle park.
- "Domestic well" means a groundwater well that provides water for human consumption and is not regulated by the California Department of Public Health.
- "Earthen material" means a substance composed of the earth's crust (i.e. soil and rock).
- "EDF" see "electronic deliverable format."
- "Effluent" means sewage, water, or other liquid, partially or completely treated or in its natural state, flowing out of a septic tank, aerobic treatment unit, dispersal system, or other OWTS component.
- "Electronic deliverable format" or "EDF" means the data standard adopted by the State Water Board for submittal of groundwater quality monitoring data to the State Water Board's internet-accessible database system Geotracker (http://geotracker.waterboards.ca.gov/).
- "Escherichia coli" means a group of bacteria predominantly inhabiting the intestines of humans or other warm-blooded animals, but also occasionally found elsewhere. Used as an indicator of human fecal contamination.
- "Existing OWTS" means an OWTS that was constructed and operating prior to the effective date of this Policy, and OWTS for which a construction permit has been issued prior to the effective date of the Policy.
- "Gravel-less chamber" system means a buried structure used to create an aggregatefree absorption area for infiltration and treatment of wastewater.
- "Grease interceptor" means a passive interceptor that has a rate of flow exceeding 50 gallons-per-minute and that is located outside a building. Grease interceptors are used for separating and collecting grease from wastewater.
- "Groundwater" means water below the land surface that is at or above atmospheric pressure.

Definitions

- "High-strength wastewater" means wastewater having a 30-day average concentration of biochemical oxygen demand (BOD) greater than 300 milligrams-per-liter (mg/L) or of total suspended solids (TSS) greater than 330 mg/L or a fats, oil, and grease (FOG) concentration greater than 100 mg/L prior to the septic tank or other OWTS treatment component.
- "IAPMO" means the International Association of Plumbing and Mechanical Officials.
- "Impaired Water Bodies" means those surface water bodies or segments thereof that are identified on a list approved first by the State Water Board and then approved by US EPA pursuant to Section 303(d) of the federal Clean Water Act.
- "Local agency" means any subdivision of state government that has responsibility for permitting the installation of and regulating OWTS within its jurisdictional boundaries; typically a county, city, or special district.
- "Major repair" means either: (1) for a dispersal system, repairs required for an OWTS dispersal system due to surfacing wastewater effluent from the dispersal field and/or wastewater backed up into plumbing fixtures because the dispersal system is not able to percolate the design flow of wastewater associated with the structure served, or (2) for a septic tank, repairs required to the tank for a compartment baffle failure or tank structural integrity failure such that either wastewater is exfiltrating or groundwater is infiltrating.
- "Mottling" means a soil condition that results from oxidizing or reducing minerals due to soil moisture changes from saturated to unsaturated over time. Mottling is characterized by spots or blotches of different colors or shades of color (grays and reds) interspersed within the dominant color as described by the USDA soil classification system. This soil condition can be indicative of historic seasonal high groundwater level, but the lack of this condition may not demonstrate the absence of groundwater.
- "Mound system" means an aboveground dispersal system (covered sand bed with effluent leachfield elevated above original ground surface inside) used to enhance soil treatment, dispersal, and absorption of effluent discharged from an OWTS treatment unit such as a septic tank. Mound systems have a subsurface discharge.
- "New OWTS" means an OWTS permitted after the effective date of this Policy.
- "NSF" means NSF International (a.k.a. National Sanitation Foundation), a not for profit, non-governmental organization that develops health and safety standards and performs product certification.
- "Onsite wastewater treatment system(s)" (OWTS) means individual disposal systems, community collection and disposal systems, and alternative collection and disposal systems that use subsurface disposal. The short form of the term may be singular or plural. OWTS do not include "graywater" systems pursuant to Health and Safety Code Section 17922.12.

Definitions

- "Percolation test" means a method of testing water absorption of the soil. The test is conducted with clean water and test results can be used to establish the dispersal system design.
- "Permit" means a document issued by a local agency that allows the installation and use of an OWTS, or waste discharge requirements or a waiver of waste discharge requirements that authorizes discharges from an OWTS.
- "Person" means any individual, firm, association, organization, partnership, business trust, corporation, company, State agency or department, or unit of local government who is, or that is, subject to this Policy.
- "Pit-privy" (a.k.a. outhouse, pit-toilet) means self-contained waterless toilet used for disposal of non-water carried human waste; consists of a shelter built above a pit in the ground into which human waste falls.
- "Policy" means this Policy for Siting, Design, Operation and Management of OWTS.
- "Pollutant" means any substance that alters water quality of the waters of the State to a degree that it may potentially affect the beneficial uses of water, as listed in a Basin Plan.
- "Projected flows" means wastewater flows into the OWTS determined in accordance with any of the applicable methods for determining average daily flow in the USEPA Onsite Wastewater Treatment System Manual, 2002, or for Tier 2 in accordance with an approved Local Agency Management Program.
- "Public Water System" is a water system regulated by the California Department of Public Health or a Local Primacy Agency pursuant to Chapter 12, Part 4, California Safe Drinking Water Act, Section 116275 (h) of the California Health and Safety Code.
- "Public Water Well" is a ground water well serving a public water system. A spring which is not subject to the California Surface Water Treatment Rule (SWTR), CCR, Title 22, sections 64650 through 64666 is a public well.
- "Qualified professional" means an individual licensed or certified by a State of California agency to design OWTS and practice as professionals for other associated reports, as allowed under their license or registration. Depending on the work to be performed and various licensing and registration requirements, this may include an individual who possesses a registered environmental health specialist certificate or is currently licensed as a professional engineer or professional geologist. For the purposes of performing site evaluations, Soil Scientists certified by the Soil Science Society of America are considered qualified professionals. A local agency may modify this definition as part of its Local Agency Management Program.

Definitions

- "Regional Water Board" is any of the Regional Water Quality Control Boards designated by Water Code Section 13200. Any reference to an action of the Regional Water Board in this Policy also refers to an action of its Executive Officer, including the conducting of public hearings, pursuant to any general or specific delegation under Water Code Section 13223.
- "Replaced OWTS" means an OWTS that has its treatment capacity expanded, or its dispersal system replaced or added onto, after the effective date of this Policy.
- "Sand" means a soil particle; this term also refers to a type of soil texture. As a soil particle, sand consists of individual rock or mineral particles in soils having diameters ranging from 0.05 to 2.0 millimeters. As a soil texture, sand is soil that is comprised of 85 percent or more sand particles, with the percentage of silt plus 1.5 times the percentage of clay particles comprising less than 15 percent.
- "Seepage pit" means a drilled or dug excavation, three to six feet in diameter, either lined or gravel filled, that receives the effluent discharge from a septic tank or other OWTS treatment unit for dispersal.
- "Septic tank" means a watertight, covered receptacle designed for primary treatment of wastewater and constructed to:
 - 1. Receive wastewater discharged from a building;
 - 2. Separate settleable and floating solids from the liquid;
 - 3. Digest organic matter by anaerobic bacterial action;
 - 4. Store digested solids; and
 - 5. Clarify wastewater for further treatment with final subsurface discharge.
- "Service provider" means a person capable of operating, monitoring, and maintaining an OWTS in accordance to this Policy.
- "Silt" means a soil particle; this term also refers to a type of soil texture. As a soil particle, silt consists of individual rock or mineral particles in soils having diameters ranging from between 0.05 and 0.002 mm. As a soil texture, silt is soil that is comprised as approximately 80 percent or more silt particles and not more than 12 percent clay particles using the USDA soil classification system.
- "Site" means the location of the OWTS and, where applicable, a reserve dispersal area capable of disposing 100 percent of the design flow from all sources the OWTS is intended to serve.
- "Site Evaluation" means an assessment of the characteristics of the site sufficient to determine its suitability for an OWTS to meet the requirements of this Policy.

Definitions

- "Soil" means the naturally occurring body of porous mineral and organic materials on the land surface, which is composed of unconsolidated materials, including sand-sized, silt-sized, and clay-sized particles mixed with varying amounts of larger fragments and organic material. The various combinations of particles differentiate specific soil textures identified in the soil textural triangle developed by the United States Department of Agriculture (USDA) as found in Soil Survey Staff, USDA; Soil Survey Manual, Handbook 18, U.S. Government Printing Office, Washington, DC, 1993, p. 138. For the purposes of this Policy, soil shall contain earthen material of particles smaller than 0.08 inches (2 mm) in size.
- "Soil Structure" means the arrangement of primary soil particles into compound particles, peds, or clusters that are separated by natural planes of weakness from adjoining aggregates.
- "Soil texture" means the soil class that describes the relative amount of sand, clay, silt and combinations thereof as defined by the classes of the soil textural triangle developed by the USDA (referenced above).
- "State Water Board" is the State Water Resources Control Board
- "Supplemental treatment" means any OWTS or component of an OWTS, except a septic tank or dosing tank, that performs additional wastewater treatment so that the effluent meets the performance requirements prior to discharge of effluent into the dispersal field.
- "SWAMP" means Surface Water Ambient Monitoring Program and more information is available at: http://www.waterboards.ca.gov/water issues/programs/swamp/
- "Telemetric" means the ability to automatically measure and transmit OWTS data by wire, radio, or other means.
- "TMDL" is the acronym for "total maximum daily load." Section 303(d)(1) of the Clean Water Act requires each State to establish a TMDL for each impaired water body to address the pollutant(s) causing the impairment. In California, TMDLs are usually adopted as Basin Plan amendments and contain implementation plans detailing how water quality standards will be attained.
- "Total coliform" means a group of bacteria consisting of several *genera* belonging to the family *Enterobacteriaceae*, which includes Escherichia coli bacteria.
- "USDA" means the U.S. Department of Agriculture.
- "Waste discharge requirement" or "WDR" means an operation and discharge permit issued for the discharge of waste pursuant to Section 13260 of the California Water Code.

Responsibilities and Duties

3/20/2012

Responsibilities and Duties

2.0 OWTS Owners Responsibilities and Duties

- 2.1 All new, replaced, or existing OWTS within an area that is subject to a Basin Plan prohibition of discharges from OWTS, must comply with the prohibition. If the prohibition authorizes discharges under specified conditions, the discharge must comply with those conditions and the applicable provisions of this Policy.
- 2.2 Owners of OWTS shall adhere to the requirements prescribed in local codes and ordinances. Owners of new and replaced OWTS shall also meet the minimum standards contained in Tier 1, or an alternate standard provided by a Local Agency Management Program per Tier 2, or shall comply with the requirements of Tier 3 if near an impaired water body and subject to Tier 3, or shall provide corrective action for their OWTS if their system meets conditions that place it in Tier 4.
- 2.3 Owners of OWTS shall comply with any and all permitting conditions imposed by a local agency implementing its approved Local Agency Management Program per Section 9 of this Policy, including if those conditions are more stringent than required by this Policy.
- 2.4 To receive coverage under this Policy and the included waiver of waste discharges, OWTS shall only accept and treat flows of domestic wastewater. In addition, OWTS that accept high-strength wastewater from commercial food service buildings are covered under this Policy and the waiver of waste discharge requirements if the wastewater does not exceed 900 mg/L BOD and there is a properly sized and functioning oil/grease interceptor (a.k.a grease trap).
- 2.5 Owners of OWTS shall maintain their OWTS in good working condition including inspections and pumping of solids as necessary, or as required by local ordinances, to maintain proper function and assure adequate treatment.
- 2.6 The following owners of OWTS shall notify the Regional Water Board by submitting a Report of Waste Discharge for the following:
 - 2.6.1 a new or replaced OWTS that does not meet the conditions and requirements set forth in this Policy;
 - 2.6.2 a new or replacement OWTS with the projected flow of over 3,500 gallonsper-day where the local permitting authority does not have an approved Local Agency Management Program that includes regulations of flows greater than or equal to the projected flow of the OWTS;

Responsibilities and Duties

3/20/2012

- 2.6.3 an existing OWTS, not currently under individual waste discharge requirements or a waiver of individual waste discharge requirements issued by a Regional Water Board, with the projected flow of over 10,000 gallons-per-day;
- 2.6.4 an existing OWTS that will be receiving or has received after the effective date of this Policy a change in the nature of the waste stream from domestic wastewater to high-strength wastewater, unless the waste stream is from a commercial food service building;
- 2.6.5 a new or replaced OWTS that receives high-strength wastewater, unless the wastewater is from a commercial food service building;
- 2.6.6 a new, replacement, or existing OWTS that will be or already is receiving high-strength wastewater with: (1) a BOD higher than 900 mg/L from a commercial food service building, or (2) does not have a properly sized and functioning oil/grease interceptor, after the effective date of this Policy.
- 2.7 All Reports of Waste Discharge shall be accompanied by the required application fee pursuant to California Code of Regulations, title 23, section 2200.

3.0 Local Agency Requirements and Responsibilities

3.1 Local agencies, in addition to implementing their own local codes and ordinances, shall determine whether the requirements within their local jurisdiction will be limited to the water quality protection afforded by the statewide minimum standards in Tier 0, Tier 1, Tier 3, and Tier 4, which this Policy authorizes them to implement, or whether the local agency will implement a Local Agency Management Program in accordance with Tier 2 that provides protection to water quality and public health using standards differing from Tier 1. Except for Tier 3, local agencies may continue to implement their existing OWTS permitting programs in compliance with the Basin Plan in place at the effective date of the Policy and Tier 3 until 60 months after the effective date of this Policy, or approval of a Local Agency Management Program, whichever comes first, and may make minor adjustments as necessary that are in compliance with the applicable Basin Plan and this Policy. Tier 3 requirements take effect on the effective date of this Policy. In the absence of a Tier 2 Local Agency Management Program, to the extent that there is a direct conflict between the applicable minimum standards and the local codes or ordinances (such that it is impossible to comply with both the applicable minimum standards and the local ordinances or codes), the more restrictive standards shall govern.

Responsibilities and Duties

- 3.2 If preferred, the local agency may at any time provide the State Water Board and all affected Regional Water Board(s) written notice of its intent to regulate OWTS using a Local Agency Management Program with alternative standards as authorized in Tier 2 of this Policy. A proposed Local Agency Management Program that conforms to the requirements of that Section shall be included with the notice. A local agency shall not implement a program different than the minimum standards contained in Tier 1 and 3 of this Policy after 60 months from the effective date of this Policy until approval of the proposed Local Agency Management Program is granted by either the Regional Water Board or State Water Board. All initial program submittals desiring approval prior to the 60 month limit shall be received no later than 36 months from the effective date of this Policy. Once approved, the local agency shall adhere to the Local Agency Management Program, including all requirements, monitoring, and reporting. If at any time a local agency wishes to modify its Local Agency Management Program, it shall provide the State Water Board and all affected Regional Water Board(s) written notice of its intended modifications and will continue to implement its existing Local Agency Management Program until the modifications are approved.
- 3.3 All local agencies permitting OWTS shall report annually to the Regional Water Board(s). If a local agency's jurisdictional area is within the boundary of multiple Regional Water Boards, the local agency shall send a copy of the annual report to each Regional Water Board. The annual report shall include the following information (organized in a tabular spreadsheet format) and summarize whether any further actions are warranted to protect water quality or public health:
 - 3.3.1 number and location of complaints pertaining to OWTS operation and maintenance, and identification of those which were investigated and how they were resolved;
 - 3.3.2 shall provide the applications and registrations issued as part of the local septic tank cleaning registration program pursuant to Section 117400 et seq. of the California Health and Safety Code;
 - 3.3.3 number, location, and description of permits issued for new and repaired OWTS and which Tier the permit is issued.
- 3.4 All local agencies permitting OWTS shall retain permanent records of their permitting actions and will make those records available within 10 working days upon written request for review by a Regional Water Board. The records for each permit shall reference the Tier under which the permit was issued.
- 3.5 A local agency shall notify the owner of a public well or water intake and the California Department of Public Health as soon as practicable, but not later than 72 hours, upon its discovery of a failing OWTS as described in sections 11.1 and 11.2 within the setbacks described in sections 7.5.6 through 7.5.10.

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- 3.6 A local agency may implement this Policy, or a portion thereof, using its local authority to enforce the policy, as authorized by an approval from the State Water Board or by the appropriate Regional Water Board.
- 3.7 Nothing in the Policy shall preclude a local agency from adopting or retaining standards for OWTS in an approved Local Agency Management Program that are more protective of the public health or the environment than are contained in this Policy.
- 3.8 If at any time a local agency wishes to withdraw its previously submitted and approved Tier 2 Local Agency Management Program, it may do so upon 60 days written notice. The notice of withdrawal shall specify the reason for withdrawing its Tier 2 program, the effective date for cessation of the program and resumption of permitting of OWTS only under Tiers 1, 3, and 4.

4.0 Regional Water Board Functions and Duties

- 4.1 The Regional Water Boards have the principal responsibility for overseeing the implementation of this Policy.
- 4.2 Regional Water Boards shall incorporate the requirements established in this Policy by amending their Basin Plans within 12 months of the effective date of this Policy, pursuant to Water Code Section 13291(e). The Regional Water Boards may also consider whether it is necessary and appropriate to retain or adopt any more protective standards. To the extent that a Regional Water Board determines that it is necessary and appropriate to retain or adopt any more protective standards, it shall reconcile those region-specific standards with this Policy to the extent feasible, and shall provide a detailed basis for its determination that each of the more protective standards is necessary and appropriate.
 - 4.2.1 Notwithstanding 4.2 above, the North Coast Regional Water Board will continue to implement its existing Basin Plan requirements pertaining to OWTS within the Russian River watershed until it adopts the Russian River TMDL, at which time it will comply with section 4.2 for the Russian River watershed.
- 4.3 The Regional Water Board designated in Attachment 3 shall review, and if appropriate, approve a Local Agency Management Program submitted by the local agency pursuant to Tier 2 in this Policy. Upon receipt of a proposed Local Agency Management Program, the Regional Water Board designated in Attachment 3 shall have 90 days to notify the local agency whether the submittal contains all the elements of a Tier 2 program, but may request additional information based on review of the proposed program. Approval must follow a noticed hearing with opportunity for public comment. If a Local Agency Management Program is disapproved, the Regional Water Board designated in Attachment 3 shall provide a written explanation of the reasons for the

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disapproval. A Regional Water Board may approve a Local Agency Management Program while disapproving any proposed special provisions for impaired water bodies contained in the Local Agency Management Program. If no action is taken by the respective Regional Water Board within 12 months of the submission date of a complete Local Agency Management Program, the program shall be forwarded to the State Water Board for review and approval pursuant to Section 5 of this Policy.

- 4.3.1 Where the local agency's jurisdiction lies within more than one Regional Water Board, staff from the affected Regional Water Boards shall work cooperatively to assure that water quality protection in each region is adequately protected. If the Regional Water Board designated in Attachment 3 approves the Local Agency Management Program over the written objection of an affected Regional Water Board, that Regional Water Board may submit the dispute to the State Water Board under Section 5.3.
- 4.3.2 Within 30 days of receipt of a proposed Local Agency Management Program, a Regional Water Board will forward a copy to and solicit comments from the California Department of Public Health regarding a Local Agency Management Programs' proposed procedures for notifying local water purveyors prior to OWTS permitting.
- 4.4 Once a Local Agency Management Program has been approved, any affected Regional Water Board may require modifications or revoke authorization of a local agency to implement a Tier 2 program, in accordance with the following:
 - 4.4.1 The Regional Water Board shall consult with any other Regional Water Board(s) having jurisdiction over the local agency before providing the notice described in section 4.4.2.
 - 4.4.2 Written notice shall be provided to the local agency detailing the Regional Water Board's action, the cause for such action, remedies to prevent the action from continuing to completion, and appeal process and rights. The local agency shall have 90 days from the date of the written notice to respond with a corrective action plan to address the areas of non-compliance, or to request the Regional Water Board to reconsider its findings.
 - 4.4.3 The Regional Water Board shall approve, approve conditionally, or deny a corrective action plan within 90 days of receipt. The local agency will have 90 days to begin implementation of a corrective action plan from the date of approval or 60 days to request reconsideration from the date of denial. If the local agency fails to submit an acceptable corrective action plan, fails to implement an approved corrective action plan, or request reconsideration, the Regional Water Board may require modifications to the Local Agency Management Program, or may revoke the local agency's authorization to implement a Tier 2 program.

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- 4.4.4 Requests for reconsideration by the local agency shall be decided by the Regional Water Board within 90 days and the previously approved Local Agency Management Program shall remain in effect while the reconsideration is pending.
- 4.4.5 If the request for reconsideration is denied, the local agency may appeal to the State Water Board and the previously approved Local Agency Management Program shall remain in effect while the appeal is under consideration. The State Water Board shall decide the appeal within 90 days. All decisions of the State Water Board are final.
- 4.5 The appropriate Regional Water Board shall accept and consider any requests for modification or revocation of a Local Agency Management Program submitted by any person. The Regional Water Board will notify the person making the request and the local agency implementing the Local Agency Management Program at issue by letter within 90 days whether it intends to proceed with the modification or revocation process per Section 4.4 above, or is dismissing the request. The Regional Water Board will post the request and its response letter on its website.
- 4.6 A Regional Water Board may issue or deny waste discharge requirements or waivers of waste discharge requirements for any new or replaced OWTS within a jurisdiction of a local agency without an approved Local Agency Management Program if that OWTS does not meet the minimum standards contained in Tier 1.
- 4.7 The Regional Water Boards will implement any notifications and enforcement requirements for OWTS determined to be in Tier 3 of this Policy.
- 4.8 Regional Water Boards may adopt waste discharge requirements, or conditional waivers of waste discharge requirements, that exempt individual OWTS from requirements contained in this Policy.

5.0 State Water Board Functions and Duties

- 5.1 As the state agency charged with the development and adoption of this Policy, the State Water Board shall periodically review, amend and/or update this Policy as required.
- 5.2 The State Water Board may take any action assigned to the Regional Water Boards in this Policy.
- 5.3 The State Water Board shall resolve disputes between Regional Water Boards and local agencies as needed within 12 months of receiving such a request by a Regional Water Board or local agency, and may take action on its own motion in furtherance of this Policy. As part of this function, the State Water Board shall review and, if appropriate, approve Local Agency Management Programs in cases where the respective Regional Water Board has failed to

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consider for approval a Local Agency Management Program. The State Water Board shall approve Local Agency Management Programs at a regularly noticed board hearing and shall provide for public participation, including notice and opportunity for public comment. Once taken up by the State Water Board, Local Agency Management Programs shall be approved or denied within 180 days.

- 5.4 A member of the public may request the State Water Board to resolve any dispute regarding the Regional Water Board's approval of a Local Agency Management Program if the member of the public timely raised the disputed issue before the Regional Water Board. Such requests shall be submitted within 30 days after the Regional Water Board's approval of the Local Agency Management Program. The State Water Board shall notify the member of the public, the local agency, and the Regional Water Board within 90 days whether it intends to proceed with dispute resolution.
- 5.5 The State Water Board shall accept and consider any requests for modification or revocation of a Local Agency Management Program submitted by any person, where that person has previously submitted said request to the Regional Water Board and has received notice from the Regional Water Board of its dismissal of the request. The State Water Board will notify the person making the request and the local agency implementing the Local Agency Management Program at issue by letter within 90 days whether it intends to proceed with the modification or revocation process per Section 4.4 above, or is dismissing the request. The State Water Board will post the request and its response letter on its website.
- 5.6 The State Water Board, at the time of approving any Impaired Water Bodies [303 (d)] List, and for the purpose of implementing Tier 3 of this Policy, shall identify in Attachment 2 those water bodies where: (1) it is likely that operating OWTS will subsequently be determined to be a contributing source of pathogens or nitrogen and therefore it is anticipated that OWTS would receive a loading reduction, and (2) it is likely that new OWTS installations discharging within 600 feet of the water body would contribute to the impairment. This identification shall be based on information available at the time of 303 (d) listing and may be updated based on new information.
- 5.7 The State Water Board will make available to local agencies funds from its Clean Water State Revolving Fund loan program for mini-loan programs to be operated by the local agencies for the making of low interest loans to assist private property owners with complying with this Policy.

Tier 0 - Existing OWTS

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Tier 0 - Existing OWTS

Existing OWTS that are properly functioning and do not meet the conditions of failing systems or otherwise require corrective action (for example, to prevent groundwater impairment) as specifically described in Tier 4, and are not determined to be contributing to an impairment of surface water as specifically described in Tier 3, are automatically included in Tier 0.

6.0 Coverage for Properly Operating Existing OWTS

- 6.1 Existing OWTS are automatically covered by Tier 0 and the herein included waiver of waste discharge requirements if they meet the following requirements:
 - 6.1.1 have a projected flow of 10,000 gallons-per-day or less;
 - 6.1.2 receive only domestic wastewater from residential or commercial buildings, or high-strength wastewater from commercial food service buildings that does not exceed 900 mg/L BOD and has a properly sized and functioning oil/grease interceptor (a.k.a. grease trap);
 - 6.1.3 do not require supplemental treatment under Tier 3;
 - 6.1.4 do not require corrective action under Tier 4; and
 - 6.1.5 do not consist of a cesspool as a means of wastewater disposal.
- 6.2 A Regional Water Board or local agency may deny coverage under this Policy to any OWTS that is:
 - 6.2.1 Not in compliance with Section 6.1;
 - 6.2.2 In the opinion of the Regional Water Board not able to adequately protect the water quality of the waters of the State and should therefore submit a report of waste discharge to receive Region specific waste discharge requirements or waiver of waste discharge requirements so as to be protective.
- 6.3 Existing OWTS currently under waste discharge requirements or individual waiver of waste discharge requirements will remain under those orders until notified in writing by the appropriate Regional Water Board that they are covered under this Policy.

Tier 1 – Low Risk New or Replacement OWTS

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Tier 1 - Low Risk New or Replacement OWTS

New or replacement OWTS meet low risk siting and design requirements as specified in Tier 1. where there is not an approved Local Agency Management Program per Tier 2.

7.0 Minimum Site Evaluation and Siting Standards

- 7.1 A qualified professional shall perform all necessary soil and site evaluations for all new OWTS and for existing OWTS where the treatment or dispersal system will be replaced or expanded.
- 7.2 A site evaluation shall determine that adequate soil depth is present in the dispersal area. Soil depth is measured vertically to the point where bedrock, hardpan, impermeable soils, or saturated soils are encountered or an adequate depth has been determined. Soil depth shall be determined through the use of soil profile(s) in the dispersal area and the designated dispersal system replacement area, as viewed in excavations exposing the soil profiles in representative areas, unless the local agency has determined through historical or regional information that a specific site soil profile evaluation is unwarranted.
- 7.3 A site evaluation shall determine the anticipated highest level of groundwater within the dispersal field and its required minimum dispersal zone by estimation using one or a combination of the following methods:
 - 7.3.1 Direct observation of the highest extent of soil mottling observed in the examination of soil profiles, recognizing that soil mottling is not always an indicator of the uppermost extent of high groundwater; or
 - 7.3.2 Direct observation of groundwater levels during the anticipated period of high groundwater. Methods for groundwater monitoring and determinations shall be decided by the local agency; or
 - 7.3.3 Other methods, such as historical records, acceptable to the local agency.
 - 7.3.4 Where a conflict in the above methods of examination exists, the direct observation method indicating the highest level shall govern.
- 7.4 Percolation test results in the effluent disposal area shall not be faster than one minute per inch (1 MPI) or slower than ninety minutes per inch (90 MPI). Other percolation rates may be used under a Tier 2 Local Agency Management Program. All percolation rates shall be based on actual or simulated wet weather conditions by performing the test during the wet weather period as determined by the local agency or by presoaking of percolation test holes and shall be a stabilized rate.

Tier 1 – Low Risk New or Replacement OWTS

- 7.5 Minimum horizontal setbacks shall be as follows:
 - 7.5.1 5 feet from parcel property lines;
 - 7.5.2 100 feet from water wells and monitoring wells, unless regulatory or legitimate data requirements necessitate that monitoring wells be located closer;
 - 7.5.3 100 feet from any unstable land mass or any areas subject to earth slides identified by a registered engineer or registered geologist; other setback distance are allowed, if recommended by a geotechnical report prepared by a qualified professional.
 - 7.5.4 100 feet from springs and flowing surface water bodies where the edge of that water body is the natural or levied bank for creeks and rivers, or may be less where site conditions prevent migration of wastewater to the water body;
 - 7.5.5 200 feet from vernal pools, wetlands, lakes, ponds, or other surface water bodies where the edge of that water body is the high water mark for lakes and reservoirs, and the mean high tide line for tidally influenced water bodies:
 - 7.5.6 150 feet from a public water well where the depth of the effluent dispersal system does not exceed 10 feet;
 - 7.5.7 200 feet from a public water well where the depth of the effluent dispersal system exceeds 10 feet in depth;
 - 7.5.8 Where the effluent dispersal system is within 600 feet of a public water well and exceeds 20 feet in depth and the separation from the bottom of the system and ground water is less than five feet, the horizontal setback required to achieve a two-year travel time for microbiological contaminants shall be evaluated. A qualified professional shall conduct this evaluation. However in no case shall the setback be less than 200 feet.
 - 7.5.9 Where the effluent dispersal system is within 1,200 feet from a public water systems' surface water intake and within the catchment of the drainage, the dispersal system shall be no less than 400 feet from the high water mark of the reservoir, lake or flowing water body.
 - 7.5.10 Where the effluent dispersal system is located more than 1,200 but less than 2,500 feet from a public water systems' surface water intake and within the catchment of the drainage, the dispersal system shall be no less than 200 feet from the high water mark of the reservoir, lake or flowing water body.
- 7.6 Prior to issuing a permit to install an OWTS the permitting agency shall determine if the OWTS is within 1,200 feet of an intake for a surface water treatment plant for drinking water and is in the drainage catchment in which the intake is located. If the OWTS is within 1,200 feet of an intake for a surface

Tier 1 – Low Risk New or Replacement OWTS

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water treatment plant for drinking water and is in the drainage catchment in which the intake is located:

- 7.6.1 The permitting agency shall provide a copy of the permit application to the owner of the water system of their proposal to install an OWTS within 1,200 of an intake for a surface water treatment. If the owner of the water system cannot be identified, then the permitting agency will notify California Department of Public Health Drinking Water Program.
- 7.6.2 The permit application shall include a topographical plot plan for the parcel showing the OWTS components, the property boundaries, proposed structures, physical address, and name of property owner.
- 7.6.3 The permitting agency shall provide the estimated wastewater flows, intended use of proposed structure generating the wastewater, soil data, and estimated depth to seasonally saturated soils.
- 7.6.4 The public water system owner shall have 5 days from receipt of the permit application to provide recommendations and comments to the permitting agency.
- 7.7 Natural ground slope in all areas used for effluent disposal shall not be greater than 25 percent.
- 7.8 The average density for any subdivision of property occurring after the effective date of this Policy and implemented under Tier 1 shall not exceed one single-family dwelling unit, or its equivalent, per 2.5 acres for those units that rely on OWTS.

8.0 Minimum OWTS Design and Construction Standards

- 8.1 OWTS Design Requirements
 - 8.1.1 A qualified professional shall design all new OWTS and modifications to existing OWTS where the treatment or dispersal system will be replaced or expanded. A qualified professional employed by a local agency, while acting in that capacity may design or review and approve a design for a proposed OWTS.
 - 8.1.2 OWTS shall be located, designed, and constructed in a manner to ensure that effluent does not surface at any time, and that percolation of effluent will not adversely affect beneficial uses of waters of the State.
 - 8.1.3 The design of new and replaced OWTS shall be based on the expected influent wastewater quality with a projected flow not to exceed 3,500 gallons per day, the peak wastewater quantity for purposes of hydraulic sizing, the characteristics of the site, and the required level of treatment for protection of water quality and public health.
 - 8.1.4 All dispersal systems shall have at least twelve (12) inches of soil cover.

Tier 1 – Low Risk New or Replacement OWTS

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8.1.5 The minimum depth to the anticipated highest level of groundwater below the bottom of the leaching trench, and the native soil depth immediately below the leaching trench, shall not be less than prescribed in Table 1.

Table 1: Tier 1 Minimum Dept Depth from the Bottom of the	hs to Groundwater and Minimum Soil Dispersal System
Percolation Rate	Depth to groundwater
Percolation Rate ≤1 MPI	Only as authorized in a Tier 2 Local Agency Management Program
1 MPI< Percolation Rate ≤ 5 MPI	Twenty (20) feet
5 MPI< Percolation Rate ≤ 30 MPI	Eight (8) feet
30 MPI< Percolation Rate ≤ 90 MPI	Five (5) feet
Percolation Rate > 90 MPI	Only as authorized in a Tier 2 Local Agency Management Program
MPI = minutes per inch	

8.1.6 Dispersal systems shall be a leachfield, designed using not more than 4 square-feet of infiltrative area per linear foot of trench as the infiltrative surface, and with trench width no wider than 3 feet. Seepage pits and other dispersal systems may only be authorized for repairs where siting limitations require a variance. Maximum application rates shall be determined from stabilized percolation rate as provided in Table 2, or from soil texture and structure determination as provided in Table 3.

Tier 1 – Low Risk New or Replacement OWTS

Percolation Rate	Application Rate		Percolation Rate	Application Rate		Percolation Rate	Application Rate
(minutes per Inch)	(gallons per day per square foot)		(minutes per Inch)	(gallons per day per square foot)		(minutes per Inch)	(gallons per day per square foot
<1	Requires Local Manage- ment Program		31	0.522		61	0.197
1	0.8	- 234	32	0.511		62	0.194
2	0.8		33	0.5	The second secon	63	0.19
3	0.8		34	0.489		64	0.187
4	0.8	144	35	0.478	日素的强	65	0.184
5	0.8		36	0.467	22/11/38	66	0.18
6	0.8	17 THE ST 616	37	0.456	14-14/67	67	0.177
7	0.8		38	0.445		68	0.174
8	0.8		39	0.434		69	0.17
9	0,8		40	0,422		70	0.167
10	0.8	RESEAR.	41	0.411		71	0.164
11	0.786	MANAGE SEE	42	0.4		72	0.16
12	0.771	to the same of the	43	0.389	7 NET 12 13 14 14 15 1	73	0.157
13	0.757		44	0.378		74	0.154
14	0.743	JAMON .	45	0.367		75	0.15
15	0.729	100 miles	46	0.356		76	0.147
16	0.714	TW dis	47	D.345	群 秦林 二	77	0.144
17	0.7	107/78040	48	0,334	2-222	78	0.14
18	0.686		49	0.323		79	0.137
19	0.671		50	0.311	在建筑的建筑	80	0.133
20	0.657	c constitues may be a constitue of	51	0.3		81	0.13
21	0.643		52	0.289		82	0.127
22	0.629		53	0.278		83	0.123
23	0.614		54	0.267	46.5	84	0.12
24	0.6		55	0.256	- 111 132	85	0.117
25	0.589		56	0.245	THE HOUSE.	86	0.113
26	0.578		57	0.234	1.50	87	0.11
27	0.567	Dallet,	58	0.223		88	0.107
28	0.556		59	0.212	1000	89	0.103
29	0.545		60	0.2		90	0.1
30	0.533					>90	Requires Local Agency Manageme Program

Tier 1 - Low Risk New or Replacement OWTS

Soil Texture (per the USDA soil classification system)	Soil Structure Shape	Grade	Maximum Soil Application Rate(gallons per day per square foot) ¹
Coarse Sand, Sand, Loamy Coarse Sand, Loamy Sand	Single grain	Structureless	0.8
Fine Sand, Very Fine Sand, Loamy Fine Sand, Loamy Very Fine Sand	Single grain	Structureless	0.4
Coarse Sandy Loam, Sandy Loam	Massive	Structureless	0.2
	Platy	Weak	0,2
		Moderate, Strong	Prohibited
	Prismatic, Blocky,	Weak	0.4
	Granutar	Moderate, Strong	0.6
Fine Sandy Loam, very fine Sandy	Massive	Structureless	0.2
Loam	Platy	Weak, Moderate, Strong	Prohibited
	Prismatic, Blocky,	Weak	0.2
	Granular	Moderate, Strong	0.4
Loam	Massive	Structureless	0.2
	Flaty	Weak, Moderale, Strong	Prohibited
	Prismatic, Blocky,	Weak	0.4
	Granular	Moderate, Strong	0.6
Silt Loam	Massive	Structureless	Prohibited
	Platy	Weak, Moderate, Strong	Prohibited
	Prismatic, Blocky, Granular	Weak	0.4
	Cianulai	Moderate, Strong	0.6
Sandy Clay Loam, Clay Loam, Silty	Massive	Structureless	Prohibited
Clay Loam	Platy	Weak, Moderate, Strong	Prohibited
	Prismatic, Blocky, Granular	Weak	0.2
	Granular	Moderate, Strong	0.4
Sandy Clay, Clay, or Silty Clay	Massive	Structureless	Prohibited
	Platy	Weak, Moderate, Strong	Prohibited
	Prismatic, Blocky, Granular	Weak	Prohibited
	Cialina	Moderate, Strong	0.2

¹ Soils listed as prohibited may be allowed under the authority of the Regional Water Board ,or as allowed under an approved Local Agency Management Program per Tier 2.

Tier 1 - Low Risk New or Replacement OWTS

- 8.1.7 Dispersal systems shall not exceed a maximum depth of 10 feet as measured from the ground surface to the bottom of the trench.
- 8.1.8 All new dispersal systems shall have 100 percent replacement area that is equivalent and separate, and available for future use.
- 8.1.9 No dispersal systems or replacement areas shall be covered by an impermeable surface, such as paving, building foundation slabs, plastic sheeting, or any other material that prevents oxygen transfer to the soil.
- 8.1.10 Rock fragment content of native soil surrounding the dispersal system shall not exceed 50 percent by volume for rock fragments sized as cobbles or larger and shall be estimated using either the point-count or line-intercept methods.
- 8.1.11 Increased allowance for gravel-less chamber systems is only allowed under a Tier 2 Local Agency Management Program.
- 8.2 Septic Tank Construction and Installation
 - 8.2.1 All new or replaced septic tanks and new or replaced grease interceptor tanks shall comply with the standards contained in Sections K5(b), K5(c), K5(d), K5(e), K5(k), K5(m)(1), and K5(m)(3)(ii) of Appendix K, of Part 5, Title 24 of the 2007 California Code of Regulations.
 - 8.2.2 All new septic tanks shall comply with the following requirements:
 - 8.2.2.1 Access openings shall have watertight risers, the tops of which shall be set within 6 inches of finished grade; and
 - 8.2.2.2 Access openings shall be secured to prevent unauthorized access.
 - 8.2.3 New and replaced OWTS septic tanks shall be limited to those approved by the International Association of Plumbing and Mechanical Officials (IAPMO) or stamped and certified by a California registered civil engineer as meeting the industry standards, and their installation shall be according to the manufacturer's instructions.
 - 8.2.4 New and replaced OWTS septic tanks shall be designed to prevent solids in excess of three-sixteenths (3/16) of an inch in diameter from passing to the dispersal system. Septic tanks that use a National Sanitation Foundation/American National Standard Institute (NSF/ANSI) Standard 46 certified septic tank filter at the final point of effluent discharge from the OWTS and prior to the dispersal system shall be deemed in compliance with this requirement.

Tier 1 – Low Risk New or Replacement OWTS

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8.2.5 A Licensed General Engineering Contractor (Class A), General Building Contractor (Class B), Sanitation System Contractor (Specialty Class C-42), or Plumbing Contractor (Specialty Class C-36) shall install all new OWTS and replaced OWTS in accordance with California Business and Professions Code Sections 7056, 7057, and 7058 and Article 3, Division 8, Title 16 of the California Code of Regulations. A property owner may also install his/her own OWTS if the as-built diagram and the installation are inspected and approved by the Regional Water Board or local agency at a time when the OWTS is in an open condition (not covered by soil and exposed for inspection).

Tier 2 – Local Agency OWTS Management Program

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Tier 2 – Local Agency OWTS Management Program

Local agencies may submit management programs for approval, and upon approval then manage the installation of new and replacement OWTS under that program. Local Agency Management Programs approved under Tier 2 provide an alternate method from Tier 1 programs to achieve the same policy purpose, which is to protect water quality and public health. In order to address local conditions, Local Agency Management Programs may include standards that differ from the Tier 1 requirements for new and replacement OWTS contained in Sections 7 and 8. As examples, a Local Agency Management Program may authorize different soil characteristics, usage of seepage pits, and different densities for new developments. Once the Local Agency Management Program is approved, new and replacement OWTS that are included within the Local Agency Management Program may be approved by the Local Agency. A Local Agency, at its discretion, may include Tier 1 standards within its Tier 2 Local Agency Management Program for some or all of its jurisdiction. However, once a Local Agency Management Program is approved, it shall supersede Tier 1 and all future OWTS decisions will be governed by the Tier 2 Local Agency Management Program until it is modified, withdrawn, or revoked,

9.0 Local Agency Management Program for Minimum OWTS Standards

The Local Agency Management Program for minimum OWTS Standards is a management program where local agencies can establish minimum standards that are differing requirements from those specified in Tier 1 (Section 7 and Section 8), including the areas that cannot meet those minimum standards and still achieve this Policy's purpose, which is to protect water quality and public health. Local Agency Management Programs may include any one or combination of the following to achieve this purpose:

- Differing system design requirements;
- Differing siting controls such as system density and setback requirements;
- Requirements for owners to enter monitoring and maintenance agreements; and/or
- Creation of an onsite management district.
- 9.1 Where different and/or additional requirements are needed to protect water quality the local agency may consider any of the following, as well as any other conditions deemed appropriate, when developing Local Agency Management Program requirements:
 - 9.1.1 Degree of vulnerability to pollution from OWTS due to hydrogeological conditions.
 - 9.1.2 High Quality waters or other environmental conditions requiring enhanced protection from the effects of OWTS.

Tier 2 - Local Agency OWTS Management Program

- 9.1.3 Shallow soils requiring a dispersal system installation that is closer to ground surface than is standard.
- 9.1.4 OWTS is located in area with high domestic well usage.
- 9.1.5 Dispersal system is located in an area with fractured bedrock.
- 9.1.6 Dispersal system is located in an area with poorly drained soils.
- 9.1.7 Surface water is vulnerable to pollution from OWTS.
- 9.1.8 Surface water within the watershed is listed as impaired for nitrogen or pathogens.
- 9.1.9 OWTS is located within an area of high OWTS density.
- 9.2 The Local Agency Management Program shall detail the scope of its coverage, such as the maximum authorized projected flows for OWTS, as well as a clear delineation of those types of OWTS included within and to be permitted by the program, and provide the local site evaluation, siting, design, and construction requirements, and in addition each of the following:
 - 9.2.1 Any local agency requirements for onsite wastewater system inspection, monitoring, maintenance, and repairs, including procedures to ensure that replacements or repairs to failing systems are done under permit from the local governing jurisdiction.
 - 9.2.2 Any special provisions applicable to OWTS within specified geographic area near specific impaired water bodies listed for pathogens or nitrogen. The special provisions may be substantive and/or procedural, and may include, as examples: consultation with the Regional Water Board prior to issuing permits, supplemental treatment, development of a management district, special siting requirements, additional inspection and monitoring.
 - 9.2.3 Local Agency Management Program variances, for new installations and repairs in substantial conformance, to the greatest extent practicable. Variances are not allowed for the requirements stated in sections 9.4.1 through 9.4.9.
 - 9.2.4 Any educational, training, certification, and/or licensing requirements that will be required of OWTS service providers, site evaluators, designers, installers, pumpers, maintenance contractors, and any other person relating to OWTS activities.
 - 9.2.5 Education and/or outreach program including informational materials to inform OWTS owners about how to locate, operate, and maintain their OWTS as well as any Water Board order (e.g., Basin Plan prohibitions) regarding OWTS restrictions within its jurisdiction. The education and/or outreach program shall also include procedures to ensure that alternative onsite system owners are provided an informational maintenance or replacement document by the system designer or installer. This document

Tier 2 - Local Agency OWTS Management Program

- shall cite homeowner procedures to ensure maintenance, repair, or replacement of critical items within 48 hours following failure.
- 9.2.6 An analysis of existing and proposed disposal locations for septage, the volume of septage anticipated, and whether adequate capacity is available.
- 9.2.7 Any consideration given to onsite maintenance districts.
- 9.2.8 Any consideration given to the development and implementation of, or coordination with, Regional Salt and Nutrient Management Plans.
- 9.2.9 Any consideration given to coordination with watershed management groups.
- 9.2.10 Procedures for evaluating the proximity of sewer systems to new or replacement OWTS installations.
- 9.2.11 Procedures for notifying the owner of a public water system prior to issuing an installation or repair permit for an OWTS, if the OWTS is within 1,200 feet of an intake for a surface water treatment plant for drinking water and is in the drainage area catchment in which the intake is located, or if the OWTS is within a horizontal sanitary setback from a public well.
- 9.2.12 Policies and procedures that will be followed when a proposed OWTS dispersal area is within the horizontal sanitary setback of a public well or a surface water intake. These policies and procedures shall either indicate that supplemental treatment as specified in 10.9 and 10.10 of this policy are required for OWTS that are within a horizontal sanitary setback of a public well or surface water intake, or will establish alternate siting and operational criteria for the proposed OWTS that would similarly mitigate the potential adverse impact to the public water source.
- 9.3 The minimum responsibilities of the local agency for management of the Local Agency Management Program include:
 - 9.3.1 Maintain records of the number, location, and description of permits issued for OWTS where a variance is granted.
 - 9.3.2 Maintain a water quality assessment program to evaluate the impact of OWTS discharges and assess the extent to which groundwater and local surface water quality may be adversely impacted. The focus of the assessment should be areas with characteristics listed under section 9.1. The assessment program will include monitoring and analysis of water quality data, review of complaints, variances, failures, and any information resulting from inspections. The assessment may use existing water quality data from other monitoring programs and/or establish the terms, conditions, and timing for monitoring done by the local agency. At a minimum this assessment will include monitoring data for nitrates and pathogens, and may include data for other constituents which are needed

Tier 2 – Local Agency OWTS Management Program

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to adequately characterize the impacts of OWTS on water quality. Other monitoring programs for which data may be used include but are not limited to any of the following:

- 9.3.2.1. Random well samples from a domestic well sampling program.
- 9.3.2.2. Routine real estate transfer samples if those are performed and reported.
- 9.3.2.3. Review of public system sampling reports done by the local agency or another municipality responsible for the public system.
- 9.3.2.4. Water quality testing reports done at the time of new well development if those are reported.
- 9.3.2.5. Beach water quality testing data performed as part of Health and Safety Code Section 115885.
- 9.3.2.6. Receiving water sampling performed as a part of a NPDES permit.
- 9.3.2.7. Data contained in the California Water Quality Assessment Database.
- 9.3.2.8. Groundwater sampling performed as part of Waste Discharge Requirements.
- 9.3.2.9. Groundwater data collected as part of the Groundwater Ambient Monitoring and Assessment Program and available in the Geotracker Database.
- 9.3.3 Submit an annual report by February 1 to the applicable Regional Water Board summarizing the status of items 9.3.1 through 9.3.2 above. Every fifth year, submit an evaluation of the monitoring program and an assessment of whether water quality is being impacted by OWTS, identifying any changes in the Local Agency Management Program that will be undertaken to address impacts from OWTS. The first report will commence one year after approval of the local agency's Local Agency Management Program. In addition to summarizing monitoring data collected per 9.3.8 above, all groundwater monitoring data generated by the local agency shall be submitted in EDF format for inclusion into Geotracker, and surface water monitoring shall be submitted to CEDEN in a SWAMP comparable format.
- 9.4 The following are not allowed to be included in a Local Agency Management Program:
 - 9.4.1 Cesspools of any kind or size.
 - 9.4.2 OWTS receiving a projected flow over 10,000 gallons per day.

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- 9.4.3 OWTS that utilize any form of effluent disposal that discharges on or above the post installation ground surface such as sprinklers, exposed drip lines, free-surface wetlands, or a pond.
- 9.4.4 Slopes greater than 30 percent without a slope stability report approved by a registered professional.
- 9.4.5 Decreased leaching area for IAPMO-approved dispersal systems using a multiplier less than 0.70.
- 9.4.6 Supplemental OWTS without requirements for periodic monitoring or inspections.
- 9.4.7 OWTS dedicated to receiving wastes from RV dumps.
- 9.4.8 Separation of the bottom of dispersal system to groundwater less than two (2) feet.
- 9.4.9 Installation of OWTS where public sewer is available. The public sewer may be considered as not available when such public sewer or any building or exterior drainage facility connected thereto is located more than 200 feet from any proposed building or exterior drainage facility on any lot or premises that abuts and is served by such public sewer.
- 9.4.10 Except as provided for in sections 9.4.11 and 9.4.12, new or repaired onsite systems with minimum horizontal setbacks less than any of the following:
 - 9.4.10.1 150 feet from a public water well where the depth of the effluent dispersal system does not exceed 10 feet in depth.
 - 9.4.10.2 200 feet from a public water well where the depth of the effluent dispersal system exceeds 10 feet in depth.
 - 9.4.10.3 Where the effluent dispersal system is within 600 feet of a public water well and exceeds 20 feet in depth and the separation from the bottom of the system and ground water is less than five feet the horizontal setback required to achieve a two-year travel time for microbiological contaminants shall be evaluated. A qualified professional shall conduct this evaluation. However in no case shall the setback be less than 200 feet.
 - 9.4.10.4 Where the effluent dispersal system is within 1,200 feet from a public water systems' surface water intake and within the catchment of the drainage, the dispersal system shall be no less than 400 feet from the high water mark of the reservoir, lake or flowing water body.
 - 9.4.10.5 Where the effluent dispersal system is located more than 1,200 but less than 2,500 feet from a public water systems' surface water intake and within the catchment area of the drainage, the dispersal

Tier 2 - Local Agency OWTS Management Program

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system shall be no less than 200 feet from the high water mark of the reservoir, lake or flowing water body.

- 9.4.11 For replacement OWTS that do not meet the above horizontal separation requirements, the replacement OWTS shall meet the horizontal separation to the greatest extent practicable. In such case, the replacement OWTS shall utilize supplemental treatment and other mitigation measures, unless the permitting authority finds that there is no indication that the existing system is adversely affecting the public water source, and there is limited potential that the system could impact the water source based on topography, soil depth, soil texture, and groundwater separation.
- 9.4.12 For new OWTS, installed on parcels of record existing at the time of the effective date of this Policy, that cannot meet the above horizontal separation requirements, the OWTS shall meet the horizontal separation to the greatest extent practicable and shall utilize supplemental treatment for pathogens as specified in section 10.8 and any other mitigation measures prescribed by the permitting authority.
- 9.5 A Local Agency Management Program for OWTS must include adequate technical detail to support how all the criteria in their program work together to protect water quality and public health.
- 9.6 A Regional Water Board reviewing a Local Agency Management Program shall consider, among other things, the past performance of the local program to adequately protect water quality, and where this has been achieved with criteria differing from Tier 1, shall not unnecessarily require modifications to the program for purposes of uniformity, as long as the Local Agency Management Program meets the requirements of Tier 2.

Tier 3 - Impaired Areas

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Tier 3 – Impaired Areas

OWTS that are near impaired water bodes may be addressed by a TMDL and its implementation program, or special provisions contained in a Local Agency Management Program. If there is no TMDL or special provisions, new or replacement OWTS within 600 feet of impaired water bodies listed in Attachment 2 must meet the specific requirements of Tier 3.

10.0 Advanced Protection Management Program

The Advanced Protection Management Program is the minimum required management program for all local agencies where an OWTS is located near a water body that has been listed as an impaired water body due to nitrogen or pathogen indicators pursuant to Section 303(d) of the Clean Water Act. This Tier 3 contains the OWTS requirements within the Advanced Protection Management Program. Local agencies are authorized to implement Advanced Protection Management Programs in conjunction with an approved Local Agency Management Program or, if there is no approved Local Agency Management Program, Tier 1. Local agencies are encouraged to collaborate with the Regional Water Boards by sharing any information pertaining to the impairment, provide advice on potential remedies, and regulate OWTS to the extent that their authority allows for the improvement of the impairment.

- 10.1 The geographic area for each water body's Advanced Protection Management Program is defined by the applicable TMDL, if one has been approved. If there is not an approved TMDL, it is defined by an approved Local Agency Management Program, if it contains special provisions for that water body. If it is not defined in an approved TMDL or Local Agency Management Program, it shall be 600 linear feet [in the horizontal (map) direction] of a water body listed in Attachment 2 where the edge of that water body is the natural or levied bank for creeks and rivers, the high water mark for lakes and reservoirs, and the mean high tide line for tidally influenced water bodies, as appropriate. OWTS near impaired water bodies that are not listed on Attachment 2, and do not have a TMDL and are not covered by a Local Agency Management Program with special provisions, are not addressed by Tier 3.
- 10.2 The requirements of an Advanced Protection Management Program for all OWTS will be in accordance with an adopted TMDL, and its implementation program, if one has been adopted to address the impairment. An adopted TMDL supersedes all requirements in Tier 3, except that, for TMDL implementation plans adopted after the effective date of this Policy, all required OWTS implementation actions shall commence within 5 years after the TMDL's effective date. The TMDL may use some or all of the Tier 3 requirements and shall establish the applicable area of implementation for OWTS requirements within the watershed. For those impaired water bodies that do have an adopted TMDL addressing the impairment, but the TMDL does not assign a

Tier 3 - Impaired Areas

- load allocation to OWTS, no further action is required unless the TMDL is modified at some point in the future to include actions for OWTS.
- 10.3 If no TMDL has been adopted, the requirements of an Advanced Protection Management Program for all OWTS will be in accordance with the Local Agency Management Program, if any special provisions for the water body have been approved.
- 10.4 The Regional Water Boards shall adopt TMDLs for impaired water bodies identified in Attachment 2, in accordance with the specified dates.
 - 10.4.1 If a Regional Water Board does not complete a TMDL within two years of the time period specified in Attachment 2, coverage under this Policy's waiver of waste discharge requirements shall expire for any OWTS that has any part of its dispersal system discharging within the geographic area of an Advanced Protection Management Program. The Regional Water Board shall issue waste discharge requirements, general waste discharge requirements, waivers of waste discharge requirements, or require corrective action for such OWTS. The Regional Water Board will consider the following when establishing the waste discharge requirements, general waste discharge requirements, waivers of waste discharge requirements, or requirements for corrective action:
 - 10.4.1.1 Whether supplemental treatment should be required.
 - 10.4.1.2 Whether routine inspection of the OWTS should be required.
 - 10.4.1.3 Whether monitoring of surface and groundwater should be performed.
 - 10.4.1.4 The collection of a fee for those OWTS covered by the order.
 - 10.4.1.5 Whether owners of previously-constructed OWTS should file a report by a qualified professional in accordance with section 10.5.
 - 10.4.1.6 Whether owners of new or replaced OWTS should file a report of waste discharge with additional supporting technical information as required by the Regional Water Board.
- 10.5 If the Regional Water Board requires owners of OWTS to submit a qualified professional's report, the report may include a determination of whether the OWTS is functioning properly and as designed or requires corrective actions per Tier 4, and regardless of its state of function, whether it is contributing to impairment of the water body.
 - 10.5.1 The qualified professional's report may also include, but is not limited to:
 - 10.5.1.1 A general description of system components, their physical layout, and horizontal setback distances from property lines, buildings, wells, and surface waters.

Tier 3 - Impaired Areas

- 10.5.1.2 A description of the type of wastewater discharged to the OWTS such as domestic, commercial, or industrial and classification of it as domestic wastewater or high-strength waste.
- 10.5.1.3 A determination of the systems design flow and the volume of wastewater discharged daily derived from water use, either estimated or actual if metered.
- 10.5.1.4 A description of the septic tank, including age, size, material of construction, internal and external condition, water level, scum layer thickness, depth of solids, and the results of a one-hour hydrostatic test.
- 10.5.1.5 A description of the distribution box, dosing siphon, or distribution pump, and if flow is being equally distributed throughout the dispersal system, as well as any evidence of solids carryover, clear water infiltration, or evidence of system backup.
- 10.5.1.6 A description of the dispersal system including signs of hydraulic failure, condition of surface vegetation over the dispersal system, level of ponding above the infiltrative surface within the dispersal system, other possible sources of hydraulic loading to the dispersal area, and depth of the seasonally high groundwater level.
- 10.5.1.7 A determination of whether the OWTS is discharging to the ground's surface.
- 10.5.1.8 For a water body listed as an impaired water body for pathogens, a determination of the OWTS dispersal system's separation from its deepest most infiltrative surface to the highest seasonal groundwater level or fractured bedrock.
- 10.5.1.9 For a water body listed as an impaired water body for nitrogen, a determination of whether the groundwater under the dispersal field is reaching the water body, and a description of the method used to make the determination.
- 10.6 For new, replaced, and existing OWTS in an Advanced Protection Management Program, the following are not covered by this Policy's waiver but may be authorized by a separate Regional Water Board order:
 - 10.6.1 Cesspools of any kind or size.
 - 10.6.2 OWTS receiving a projected flow over 10,000 gallons per day.
 - 10.6.3 OWTS that utilize any form of effluent disposal on or above the ground surface.
 - 10.6.4 Slopes greater than 30 percent without a slope stability report approved by a registered professional.

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- 10.6.5 Decreased leaching area for IAPMO-approved dispersal systems using a multiplier less than 0.70.
- 10.6.6 OWTS utilizing supplemental treatment without requirements for periodic monitoring.
- 10.6.7 OWTS dedicated to receiving wastes from RV dumps.
- 10.6.8 Separation of the bottom of dispersal system to groundwater less than two (2) feet.
- 10.6.9 Minimum horizontal setbacks less than any of the following:
 - 10.6.9.1 150 feet from a public water well where the depth of the effluent dispersal system does not exceed 10 feet in depth;
 - 10.6.9.2 200 feet from a public water well where the depth of the effluent dispersal system exceeds 10 feet in depth:
 - 10.6.9.3 Where the effluent dispersal system is within 600 feet of a public water well and exceeds 20 feet in depth and the separation from the bottom of the system and ground water is less than five feet the horizontal setback required to achieve a two-year travel time for microbiological contaminants shall be evaluated. A qualified professional shall conduct this evaluation. However in no case shall the setback be less than 200 feet.
 - 10.6.9.4 Where the effluent dispersal system is within 1,200 feet from a public water systems' surface water intake and within the catchment of the drainage, the dispersal system shall be no less than 400 feet from the high water mark of the reservoir, lake or flowing water body.
 - 10.6.9.5 Where the effluent dispersal system is located more than 1,200 but less than 2,500 feet from a public water systems' surface water intake and within the catchment of the drainage, the dispersal system shall be no less than 200 feet from the high water mark of the reservoir, lake or flowing water body.
 - 10.6.9.6 For replacement OWTS that do not meet the above horizontal separation requirements, the replacement OWTS shall meet the horizontal separation to the greatest extent practicable. In such case, the replacement OWTS shall utilize supplemental treatment and other mitigation measures.
 - 10.6.9.7 For new OWTS, installed on parcels of record existing at the time of the effective date of this Policy, that cannot meet the above horizontal separation requirements, the OWTS shall meet the horizontal separation to the greatest extent practicable and shall utilize supplemental treatment for pathogens as specified in section

Tier 3 – Impaired Areas

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10.8 and any other mitigation measures as prescribed by the permitting authority.

- 10.7 The requirements contained in Section 10 shall not apply to owners of OWTS that are constructed and operating, or permitted, on or prior to the date that the nearby water body is added to Attachment 2 who commit by way of a legally binding document to connect to a centralized wastewater collection and treatment system regulated through WDRs as specified within the following timeframes:
 - 10.7.1 The owner must sign the document within forty-eight months of the date that the nearby water body is initially listed on Attachment 2.
 - 10.7.2 The specified date for the connection to the centralized community wastewater collection and treatment system shall not extend beyond nine years following the date that the nearby water body is added to Attachment 2.
- 10.8 In the absence of an adopted TMDL or Local Agency Management Program containing special provisions for the water body, all new or replaced OWTS permitted after the date that the water body is initially listed in Attachment 2 that have any discharge within the geographic area of an Advanced Protection Management Program shall meet the following requirements:
 - 10.8.1 Utilize supplemental treatment and meet performance requirements in 10.9 if impaired for nitrogen and 10.10 if impaired for pathogens,
 - 10.8.2 Comply with the setback requirements of Section 7.5.1 to 7.5.5, and
 - 10.8.3 Comply with any applicable Local Agency Management Program requirements.
- 10.9 Supplemental treatment requirements for nitrogen
 - 10.9.1 Effluent from the supplemental treatment components designed to reduce nitrogen shall be certified by NSF, or other approved third party tester, to meet a 50 percent reduction in total nitrogen when comparing the 30-day average influent to the 30-day average effluent.
 - 10.9.2 Where a drip-line dispersal system is used to enhance vegetative nitrogen uptake, the dispersal system shall have at least six (6) inches of soil cover.

Tier 3 - Impaired Areas

- 10.10 Supplemental treatment requirements for pathogens
 - 10.10.1 Supplemental treatment components designed to perform disinfection shall provide sufficient pretreatment of the wastewater so that effluent from the supplemental treatment components does not exceed a 30-day average TSS of 30 mg/L and shall further achieve an effluent fecal coliform bacteria concentration less than or equal to 200 Most Probable Number (MPN) per 100 milliliters.
 - 10.10.2 The minimum soil depth and the minimum depth to the anticipated highest level of groundwater below the bottom of the dispersal system shall not be less than three (3) feet. All dispersal systems shall have at least twelve (12) inches of soil cover.
- 10.11 OWTS in an Advanced Protection Management Program with supplemental treatment shall be designed to meet the applicable performance requirements above and shall be stamped or approved by a Qualified Professional.
- 10.12 Prior to the installation of any proprietary treatment OWTS in an Advanced Protection Management Program, all such treatment components shall be tested by an independent third party testing laboratory.
- 10.13 The ongoing monitoring of OWTS in an Advanced Protection Management Program with supplemental treatment components designed to meet the performance requirements in Sections 10.9 and 10.10 shall be monitored in accordance with the operation and maintenance manual for the OWTS or more frequently as required by the local agency or Regional Water Board.
- 10.14 OWTS in an Advanced Protection Management Program with supplemental treatment components shall be equipped with a visual or audible alarm as well as a telemetric alarm that alerts the owner and service provider in the event of system malfunction. OWTS using supplemental treatment shall, at a minimum, provide for 24-hour wastewater storage based on design flow as a means to minimize pollution from overflow discharge after a system malfunction or power outage. Where telemetry is not possible, the owner shall inspect the system at least monthly as directed and instructed by a service provider and notify the service provider not less than quarterly of the observed operating parameters of the OWTS.
- 10.15 OWTS in an Advanced Protection Management Program designed to meet the disinfection requirements in Section 10.10 shall be inspected for proper operation quarterly by a service provider unless a telemetric monitoring system is capable of continuously assessing the operation of the disinfection system. Testing of the wastewater flowing from supplemental treatment components that perform disinfection shall be sampled at a point in the system after the treatment components and prior to the dispersal system and shall be conducted quarterly based on analysis of total coliform with a minimum detection limit of 2.2 MPN. All effluent samples must include the

Tier 3 - Impaired Areas

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geographic coordinates of the sample's location. Effluent samples shall be taken by a service provider and analyzed by a California Department of Public Health certified laboratory.

10.16 The minimum responsibilities of the local agency administering an Advanced Protection Management Program include those prescribed for the Local Agency Management Programs in Section 9.3 of this policy, as well as monitoring owner compliance with Sections 10.13, 10.14, and 10.15.

Tier 4 – OWTS Requiring Corrective Action

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Tier 4 – OWTS Requiring Corrective Action

OWTS that require corrective action or are either presently failing or fail at any time while this Policy is in effect are automatically included in Tier 4 and must follow the requirements as specified. OWTS included in Tier 4 must continue to meet applicable requirements of Tier 0, 1, 2 or 3 pending completion of corrective action.

11.0 Corrective Action for OWTS

- 11.1 Any OWTS that has pooling effluent, discharges wastewater to the surface, or has wastewater backed up into plumbing fixtures, because its dispersal system is no longer adequately percolating the wastewater is deemed to be failing, no longer meeting its primary purpose to protect public health, and requires major repair, and as such the dispersal system must be replaced, repaired, or modified so as to return to proper function and comply with Tier 1, 2, or 3 as appropriate.
- 11.2 Any OWTS septic tank failure, such as a baffle failure or tank structural integrity failure such that either wastewater is exfiltrating or groundwater is infiltrating is deemed to be failing, no longer meeting its primary purpose to protect public health, and requires major repair, and as such shall require the septic tank to be brought into compliance with the requirements of Section 8 in Tier 1 or a Local Agency Management Program per Tier 2.
- 11.3 Any OWTS that has a failure of one of its components other than those covered by 11.1 and 11.2 above, such as a distribution box or broken piping connection, shall have that component repaired so as to return the OWTS to a proper functioning condition and return to Tier 0, 1, 2, or 3.
- 11.4 Any OWTS that has affected, or will affect, groundwater or surface water to a degree that makes it unfit for drinking or other uses, or is causing a human health or other public nuisance condition shall be modified or upgraded so as to abate its impact.
- 11.5 If the owner of the OWTS is not able to comply with corrective action requirements of this section, the Regional Water Board may authorize repairs that are in substantial conformance, to the greatest extent practicable, with Tiers 1 or 3, or may require the owner of the OWTS to submit a report of waste discharge for evaluation on a case-by-case basis. Regional Water Board response to such reports of waste discharge may include, but is not limited to, enrollment in general waste discharge requirements, issuance of individual waste discharge requirements, or issuance of waiver of waste discharge requirements. A local agency may authorize repairs that are in substantial conformance, to the greatest extent practicable, with Tier 2 in accordance with section 9.2.3 if there is an approved Local Agency Management Program, or with an existing program if a Local Agency

Tier 4 – OWTS Requiring Corrective Action

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Management Program has not been approved and it is less than 5 years from the effective date of the Policy.

- 11.6 Owners of OWTS will address any corrective action requirement of Tier 4 as soon as is reasonably possible, and must comply with the time schedule of any corrective action notice received from a local agency or Regional Water Board, to retain coverage under this Policy. In no case shall the time schedule be allowed to extend beyond three months for a corrective action, with the exception of seasonal high groundwater or snow conditions.
- 11.7 Failure to meet the requirements of Tier 4 constitute a failure to meet the conditions of the waiver of waste discharge requirements contained in this Policy, and is subject to further enforcement action.

Waiver – Effective Date – Financial Assistance

3/20/2012

Conditional Waiver of Waste Discharge Requirements

- 12.0 In accordance with Water Code section 13269, the State Water Board hereby waives the requirements to submit a report of waste discharge, obtain waste discharge requirements, and pay fees for discharges from OWTS covered by this Policy. Owners of OWTS covered by this Policy shall comply with the following conditions:
 - 12.0.1 The OWTS shall function as designed with no surfacing effluent.
 - 12.0.2 The OWTS shall not utilize a dispersal system that is in soil saturated with groundwater.
 - 12.0.3 The OWTS shall not be operated while inundated by a storm or flood event.
 - 12.0.4 The OWTS shall not cause or contribute to a nuisance or pollution.
 - 12.0.5 The OWTS shall comply with all applicable local agency codes, ordinances, and requirements.
 - 12.0.6 The OWTS shall comply with and meet any applicable TMDL implementation requirements, special provisions for impaired water bodies, or supplemental treatment requirements imposed by Tier 3.
 - 12.0.7 The OWTS shall comply with any corrective action requirements of Tier 4.
- 12.1 This waiver may be revoked by the State Water Board or the applicable Regional Water Board for any discharge from an OWTS, or from a category of OWTS.

Effective Date

13.0 This Policy becomes effective six months after its approval by the Office of Administrative Law, and all deadlines and compliance dates stated herein start at such time.

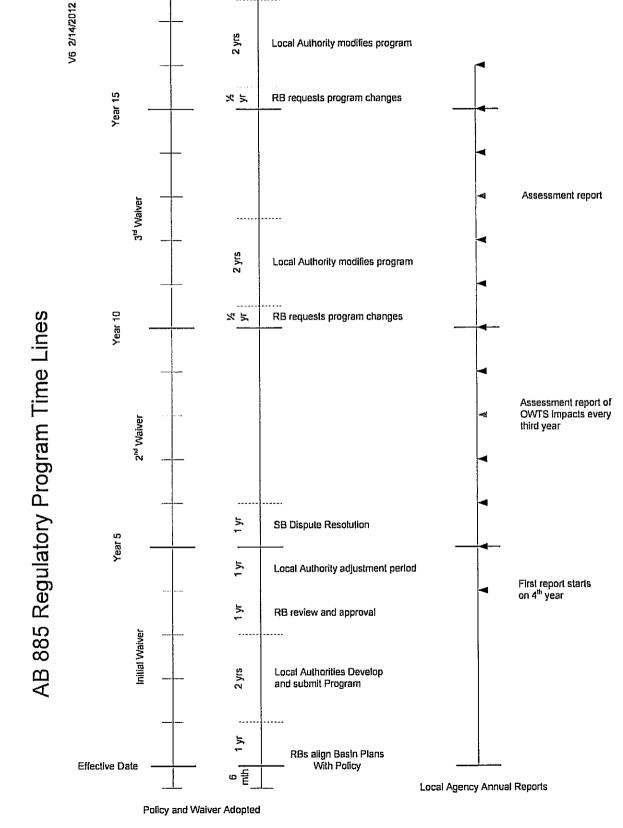
Waiver - Effective Date - Financial Assistance

3/20/2012

Financial Assistance

- 14.0 Local Agencies may apply to the State Water Board for funds from the Clean Water State Revolving Fund for use in mini-loan programs that provide low interest loan assistance to private property owners with costs associated with complying with this Policy.
 - 14.1 Loan interest rates for loans to local agencies will be set by the State Water Board using its policies, procedures, and strategies for implementing the Clean Water State Revolving Fund program, but will typically be one-half of the States most recent General Obligation bond sale. Historically interest rates have ranged between 2.0 and 3.0 percent.
 - 14.2 Local agencies may add additional interest points to their loans made to private entities to cover their costs of administering the mini-loan program.
 - 14.3 Local agencies may submit their suggested loan eligibility criteria for the min-loan program they wish to establish to the State Water Board for approval, but should consider the legislative intent stated in Water Code Section 13291.5 is that assistance is encouraged for private property owners whose cost of complying with the requirements of this policy exceeds one-half of one percent of the current assessed value of the property on which the OWTS is located.

Attachment 1 - Final Draft



Attachment 2 - Final Draft

3/20/2012

The State Water Board, at the time of approving future 303 (d) Lists, will specifically identify those impaired water bodies that are to be determined to be a contributing source of pathogens or nitrogen and therefore it is anticipated that OWTS would receive a loading impairment. Per this Policy (Tier 3, Section 10) the Regional Water Boards must adopt a TMDL by the date specified in the table. The tables below specifically identify those impaired water bodies where: (1) it is likely that operating OWTS will subsequently be reduction, and (2) it is likely that new OWTS installations discharging within 600 feet of the water body would contribute to the added or removed from the tables below.

Table 4. Water Bodies impaired for pathogens that are subject to Tier 3 as of 2012.

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TMDL	Completion Date	2016	2015	2016	2017	2017	2019	2015	2015	2017	2015	2017	2017	2015	2015	2015	2015	2015	2015	2017	2015	2020	2020
	COUNTIES	San Mateo	Marin	San Mateo	Marin, Sonoma	Marin, Sonoma	San Mateo	Santa Barbara	Santa Barbara, Ventura	Ventura	Los Angeles, Orange	Ventura	Ventura	Los Angeles	Los Angeles	Los Angeles	Los Angeies	Los Angeles	Los Angeles	Ventura	Los Angeles	Nevada, Placer	Tualumne
	WATERBODY NAME	Pacific Ocean at Fitzgerald Marine Reserve	Pacific Ocean at Muir Beach	Pacific Ocean at Pillar Point Beach	Petaluma River	Petaluma River (tidal portion)	San Gregorio Creek	Pacific Ocean at Point Rincon (mouth of Rincon Cr, Santa Barbara County)	Rincon Creek	Canada Larga (Ventura River Watershed)	Coyate Creek	Rincon Beach	San Antonio Creek (Tributary to Ventura River Reach 4)	San Gabriel River Reach 1 (Estuary to Firestone)	San Gabriel River Reach 2 (Firestone to Whittier Narrows Dam	San Gabriel River Reach 3 (Whittier Narrows to Ramona)	San Jose Creek Reach 1 (SG Confluence to Temple St.)	San Jose Creek Reach 2 (Temple to I-10 at White Ave.)	Sawpit Creek	Ventura River Reach 3 (Weldon Canyon to Confl. w/ Coyote Cr)	Walnut Creek Wash (Drains from Puddingstone Res)	Wolf Creek (Nevada County)	Woods Creek (Tuolumne County)
	- 1	San Francisco Bay	San Francisco Bay	San Francisco Bay	San Francisco Bay	San Francisco Bay	San Francisco Bay	Central Coast	Central Coast	Los Angeles	Los Angeles	Los Angeles	Los Angeles	Los Angeles	Los Angeles	Los Angeles	Los Angeles	Los Angeles	Los Angeles	Los Angeles	Los Angeles	Central Valley	Central Valley
ROID		2	2	Ŋ	2	2	2	ന	3	4	4	4	4	4	4	4	4	4	4	4	4	5	Ω.

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TMDL Completion Date	2017	2017	2019	2019	2019	2017	2019	2015	2015	2017	2019	2019	2017	2017	2019		2019	2017	2017	2017
CO	Imperial	Imperial, Riverside	Riverside	Riverside	Riverside	Orange	San Bernardino	San Bernardino	San Bernardino	Orange	San Bernardino	San Bernardino	Orange	Orange	Orange, Riverside		Riverside	Orange	Orange	Orange
WATERBODY NAME	Alamo River	Palo Verde Outfall Drain and Lagoon	Canyon Lake (Railroad Canyon Reservoir)	Fulmor, Lake	Goldenstar Creek	Los Trancos Creek (Crystal Cove Creek)	Lytle Creek	Mill Creek Reach 1	Mill Creek Reach 2	Morning Canyon Creek	Mountain Home Creek	Mountain Home Creek, East Fork	Silverado Creek	Peters Canyon Channel	Santa Ana River, Reach 2	Temescal Creek, Reach 6 (Elsinore Groundwater sub basin	boundary to Lake Elsinore Outlet)	Seal Beach	Serrano Creek	Huntington Harbour
REGION NAME	Colorado River	Colorado River	Santa Ana	Santa Ana	Santa Ana	Santa Ana	Santa Ana	Santa Ana	Santa Ana	Santa Ana	Santa Ana	Santa Ana	Santa Ana	Santa Ana	Santa Ana		Santa Ana	Santa Ana	Santa Ana	Santa Ana
REGION	7		8	8	œ	8	œ	8	8	8	ဆ	ဆ	æ	8	æ		æ	æ	æ	80

Attachment 2 – Final Draft 3/20/2012

Table 5. Water Bodies impaired for nitrogen that are subject to Tier 3.

REGION NO.	REGION NAME	WATERBODY NAME	COUNTIES	TMDL Completion Date
_ +	North Coast	Russian River HU, Middle Russian River HA, mainstem Laguna de Santa Rosa	Sonoma	2015
2	San Francisco Bay	Lagunitas Creek	Marin	2016
2	San Francisco Bay	Napa River	Napa, Solano	2014
2	San Francisco Bay	Petaluma River	Marin, Sonoma	2017
2	San Francisco Bay	Petaluma River (tidal portion)	Marin, Sonoma	2017
2	San Francisco Bay	Sonoma Creek	Sonoma	2014
2	San Francisco Bay	Tomales Bay	Marin	2019
2	San Francisco Bay	Walker Creek	Marin	2016
4	Los Angeles	Lake Calabasas	Los Angeles	2012
4	Los Angeles	Legg Lake	Las Angeles	2012
4	Los Angeles	San Antonio Creek (Tributary to Ventura River Reach 4)	Ventura	2013
80	Santa Ana	East Garden Grove Wintersburg Channel	Orange	2017
8	Santa Ana	Grout Creek	San Bernardino	2015
æ	Santa Ana	Rathbone (Rathbun) Creek	San Bernardino	2015
Ф	Santa Ana	Summit Creek	San Bernardino	2015
80	Santa Ana	Serrano Creek	Orange	2017

Attachment 3 - Final Draft

3/20/2012

Regional Water Boards, upon mutual agreement, may designate one Regional Water Board to regulate a person or entity that is under the jurisdiction of both (Water Code Section 13228). The following table identifies the designated Regional Water Board for all counties within the State for purposes of reviewing and, if appropriate, approving new Local Agency Management Plans.

Table 6. Regional Water Board designations by County.

County	Regions with Jurisdiction	Designated Region
Alameda	2,5	2
Alpine	5,6	6
Amador	5	5
Butte	5	5
Calaveras	5	5
Colusa	5	5
Contra Costa	2,5	2
Del Norte	1	1
El Dorado	5,6	5
Fresno	5	5
Glenn	5,1	5
Humboldt	1	1
Imperial	7	7
Inyo	6	6
Kern	5,6	5
Kings	5	5
Lake	5,1	5
Lassen	5,6	6
Los Angeles	4,6	4
Madera	5	5
Marin	2,1	2
Mariposa	5	5
Mendocino	1	1
Merced	5	5
Modoc	1,5,6	5
Mono	6	6
Monterey	3	3
Napa	2,5	2
Nevada	5,6	5
Orange	8,9	8

County	Regions with Jurisdiction	Designated Region
Placer	5,6	5
Plumas	5	5
Riverside	7,8,9	7
Sacramento	5	5
San Benito	3,5	3
San		
Bernardino	6,7,8	6
San Diego	9,7	9
San	_	
Francisco	<u>2</u> 5	2
San Joaquin	5	5
San Luis		_
Obispo	3,5	3
San Mateo	2,3	2
Santa Barbara	9	2
Santa Clara	3 2,3	3 2
Santa Cruz	3 5	<u>3</u> 5
Shasta		
Sierra	5,6	5
Siskiyou	1,5	11
Solano	2,5	5
Sonoma	1,2	1
Stanislaus	5	5
Sutter	5	5
Tehama	5	5
Trinity	1	1
Tulare	5	5
Tuolumne	5	5
Ventura	4,3	4
Yolo	5	5
Yuba	5	5

BIGHORN DESERT VIEW WATER AGENCY AGENDA ITEM SUBMITTAL

Meeting Date: April 24, 2012

To: Board of Directors

Budgeted: N/A

Budgeted Amount: N/A

Cost: Increased future costs to conduct

business with the RWQCB)

From: Marina D. West

General Counsel Approval: Under Review

CEQA Compliance: N/A

Subject:

Resolution No. 12R-XX, Regarding the Elimination of the California

Regional Water Quality Control Board - Colorado River Region

SUMMARY

Staff has recently discovered that on April 11, 2012 the California State Assembly Budget Subcommittee approved the Governor's proposal to eliminate the and to reduce the number of board members on all state regional boards from nine (9) to seven (7). The primary concern is how this change will impact our ability to effectively work to represent local community interests with a Board located in the Lake Tahoe region. In addition, the travel distance will increase costs to appear before the Board. In addition, it is unclear if the region will be operated remotely or if the staff offices will remain at the Palm Desert location.

The Planning/Legislative/Engineering/Grant/Security Committee was briefed on this matter at their April 19th meeting and the Committee opposes the dissolution of the Regional Water Quality Control Board - Colorado River Region.

Staff recommends the Board adopting a resolution, Resolution No. 12R-XX, in opposition of the elimination of the Colorado Regional Board.

RECOMMENDATION

The Board considers taking the following action(s):

1. Adopt Resolution No. 12R-XX Opposing the Elimination of the California Regional Water Quality Control Board - Colorado River Region.

BACKGROUND/ANALYSIS

See attached information from Hi Desert Water District.

PRIOR RELEVANT BOARD ACTION(S)

None

RESOLUTION NO. 12R-XX

RESOLUTION OF THE BOARD OF DIRECTORS OF THE BIGHORN-DESERT VIEW WATER AGENCY OPPOSING THE ELIMINATION OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD COLORADO RIVER REGION #7

WHEREAS, the Bighorn-Desert View Water Agency (Agency) is a retail water provider and special district serving the communities of Flamingo Heights, Johnson Valley and portions of Landers, CA, approximately 40 miles north of Palm Springs; and

WHEREAS, the Agency is within the State Water Resources Board, Regional Water Quality Control Board – Colorado River Region 7, which encompasses a large and unique geographic region including the Salton Sea, Imperial Valley, Coachella Valley, Morongo Basin, Twentynine Palms Marine Base and whose mission it is to protect water quality, preserving water resources and preventing pollution nuisance, contamination, and degradation of the quality of water; and

WHEREAS, the Governor's proposal to is to eliminate the Regional Board 7 and combine the Morongo Basin with the Lahontan Region; thereby requiring the Agency to travel further for local representation (by as much as 9 hours), thereby, increasing local costs; and

WHEREAS, there is not sufficient evidence to warrant this increase of burden and costs to the local agencies and community members; and

WHEREAS, the Agency believes it necessary to retain adequate representation on regulatory matters affecting water quality both within the Agency's service area and the entire Morongo Basin region;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Bighorn-Desert View Water Agency:

 To oppose the elimination of the California Regional Water Quality Control Board – Colorado River Region 7.

PASSED, APPROVED, AND ADOPTED by the Board of Directors to Bighorn-Desert View Water Agency this 24th day of April 2012.

	By Michael McBride, President of the Board
ATTEST:	
David Larson, Secretary of the Board	



April 16, 2012

Subject: Elimination of the California Regional Water Quality Control Board - Colorado River Region

Dear Community Leaders,

On April 11, 2012, the California State Assembly Budget Subcommittee (No. 3 on Resources and Transportation) approved by a 4-0-1 vote the Governor's proposal to eliminate the California Regional Water Quality Control Board — Colorado River Region and reduce the number of board members on all state regional boards from nine to seven (see attached "Item to be heard"). While we support the reduction of the number of board members on all boards, as this will make it easier for each to have a quorum; we are not in support of the elimination of the Colorado Regional Board. The State Senate Budget Subcommittee will meet on April 25, 2012 to consider this item.

The proposal calls for the elimination of the Colorado Regional Board. It claims it merges two of the smaller regional water boards. The proposal is to split Region 7 by placing the Imperial Valley and the Coachella Valley in the San Diego Board area and place the Morongo Basin and Lucerne Valley in the Lahontan Board area. This will reduce our ability to effectively work with this regulatory agency, negatively impact our ability to represent community interests and increase the distance of travel to meetings (by up to nine-hours).

There are no specific details as to how the cost savings will be achieved and whether the costbenefit of these savings has been evaluated against other options for State reorganization. There are other regions that encompass smaller geographic regions.

The Colorado region is one of the larger geographic regions representing significant issues such as the Salton Sea, Coachella Valley, Morongo Basin, Yucca Valley's septic issue, Lucerne Valley, etc (see attached map).

As Yucca Valley faces a tremendous challenge protecting groundwater supplies and complying with recently adopted septic discharge prohibitions, it is a critical time to maintain adequate representation. We also believe that as a rural region, the area will also experience increased



need to communicate with the Regional Board on issues arising from water resource protection and new development.

It is for these reasons the Hi-Desert Water District is considering adoption of the attached resolution opposing the elimination of the Colorado Regional Board.

Sincerely yours,

Sarann Graham.

President of the Board of Directors

Enclosure



STATE WATER RESOURCES CONTROL BOARD

REGIONAL WATER QUALITY CONTROL 804805

P.O. Box 100, Sacramento, CA 95812-0100 www.waterboards.ca.gov

Office of Public Affairs: Office of Legislative Affairs: Office of the Ombudaman

(916) 341-5254 (916) 341-5251 (916) 341-5254

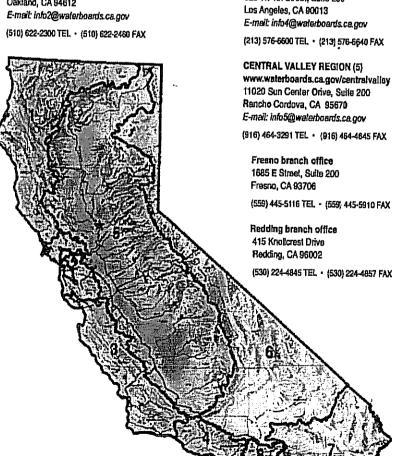
Water Quality Information: (916) 341-5455 Water Rights Information: (916) 341-5300 Financial Assistance Information: (916) 341-5700

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARDS

NORTH COAST REGION (1) www.waterboards.ca.gov/northcoast 5550 Skylane Blvd., Suite A Santa Rosa, CA 95403 E-mail: info1@waterboards.ca.gov (707) 576-2220 TEL • (707) 523-0135 FAX

SAN FRANCISCO BAY REGION (2) www.waterboards.ca.gov/sanfranciscobay 1515 Clay Street, Suite 1400 Oakland, CA 94612 E-mail: info2@waterboards.ca.gov

Updated 1/19/2011



CENTRAL COAST REGION (3) www.waterboards.ca.gov/centralcoast 895 Aerovista Place, Suite 101 San Luis Obisoo, CA 83401 E-mail: info3@waterboards.ca.gov (905) 549-3147 TEL + (805) 543-0397 FAX

LOS ANGELES REGION (4) www.waterboards.ca.gov/losangeles 320 W. 4th Street, Suite 200

LAHONTAN REGION (6) www.waterboards.ca.gov/lahonten 2501 Lake Tahoe Blvd. South Lake Tahoe, CA 95150 E-mail: info@waterboards.ca.gov (530) 542-5400 TEL · (530) 544-2271 FAX

Victorville branch office 14440 Civic Drive, Suite 200 Victorville, CA 92392

(760) 241-5583 TEL + (760) 241-7308 FAX

COLORADO RIVER BASIN REGION (7) www.waterboarda.ca.gov/coloradoriver 73-720 Fred Waring Or., Suite 100 Palm Desert, CA 92260 E-mail: info7@waterboards.ca.gov (760) 346-7491 TEL · (760) 341-6820 FAX

SANTA ANA REGION (8) www.waterboards.ca.gov/santaana 3737 Main Street, Suite 500 Riverside, CA 92501-3339 E-mail: info8@waterboards.ca.gov (951) 782-4130 TEL · (951) 781-6288 FAX

SAN DIEGO REGION (9) www.waterboarda.ca.gov/sandlego 9174 Sky Park Court, Suite 100 San Diego, CA 92123 E-mail: info9@waterboards.ca.gov (858) 467-2952 TEL · (858) 571-6972 FAX

State Water Resources Control Board (Headquarters) 1001 I Street, Sacramento, CA 95814

State of California Edmund G. Brown Jr., Governor

California Environmental Protection Agency Linda S. Adams, Acting Secretary

State Water Resources Control Board Charles R. Hoppin, Chair

Marina West

From:

Thursday April 10, 2012 7:50 AM

Sent:

Thursday, April 19, 2012 7:50 AM

To:

Jim Ventura; alan.rasmussen@sbcounty.gov

Subject: Fwd: Fw: A message from the Hi-Desert Water District Board President jim and alan.

dissolving the colorado region water board does not seem to make sense when you look at water supply in the state. with the colorado river aqueduct one of the two major water suppliers for southern california, this board should be at the top of the "must-save" list in water priority.

eliminating this board and consolidating the governance of this board with a board more than 600 miles that does not share our interests or needs. this decision dismantles the level playing field that protects our region and undermines the water representation/self-govenance of the last amercian frontier, the great california desert, as well as the largest land county in the nation. despite the excuse of being a "smaller" water board, we are not small. this then undescores that we are considered dispensible despite the resources outlined of land area and water suppliers. with this attitude, we cannot feel confident that eliminating the colorado region water board as a cost cutting measure is the correct decision, but it is a political decision. clearly that decision puts our wellbeing and future at risk.

i urge mwa, awac, and the county to rally their political support in sacramento and also join hdwd in staunchly opposing this move by the governor.

Claudia Sall

---- Original Message ----

From: Jennifer Cusack

Sent: Tuesday, April 17, 2012 10:44 AM

Subject: A message from the Hi-Desert Water District Board President

Dear Community Leader,

Please see the attached letter for our Board President.

Please call if you have any questions.

Sincerely yours,

Resolution Approved by HOWD April 18,2012

Resolution No. 12-08

Resolution of the Board of Directors of the Hi-Desert Water District Opposing the Elimination of the California Regional Water Quality Control Board Colorado River Region #7

Whereas, the Board Hi-Desert Water District (District) is a retail water provider and special district serving the community of 24,000 residents in Yucca Valley, Yucca Mesa and a portion of Joshua Tree, less than 30 miles north of Palm Springs; and

Whereas, the District is within the State Water Resources Board, Regional Water Quality Control Board — Colorado River Region 7, which encompasses a large and unique geographic region including the Salton Sea, Imperial Valley, Coachella Valley, Morongo Basin, Twentynine Palms Marine Base and whose mission it is to protect water quality, preserving water resources and preventing pollution nuisance, contamination, and degradation of the quality of water; and

Whereas, the Governor's proposal to is to eliminate the Regional Board 7 and combine the Morongo Basin with the Lahontan Region; thereby requiring the District to travel further for local representation (by as much as 9 hours), thereby, increasing local costs; and

Whereas, there is not sufficient evidence to warrant this increase of burden and costs to the local agencies and community members; and

Whereas, the District believes it necessary to retain adequate representation on regulatory matters affecting water quality within the District service area;

Now and therefore be it resolved by the Board of Directors of the Hi-Desert Water District, to oppose the elimination of the California Regional Water Quality Control Board – Colorado River Region 7; and

Effective upon adoption.

Adopted by the Board of Directors of the Hi-Desert Water District on April 18, 2012 by the following vote

Ayes: Noes: Absent:

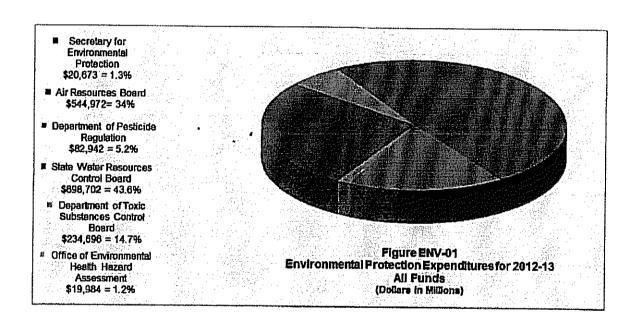
Abstain:		
	Sarann Graham, Pres	ident of the Board of Directors
ATTEST:		
		(SEAL)
Ed Muzik Secretary of the	no Board of Directors	

Res. 10-12 (Exhibit A)

ITEMS TO BE HEARD

0555 ENVIRONMENTAL PROTECTION AGENCY

California Environmental Protection Agency programs restore and protect environmental quality, and protect public health. The Secretary coordinates the state's environmental regulatory programs and ensures fair and consistent enforcement of environmental law, which safeguards the state's residents and promotes the state's economic vitality. The Budget proposes total funding of \$1.54 billion (\$43.1 million GF and \$1.5 billion other funds) and 4,294 positions for all programs included in this Agency. Total proposed state funds, excluding federal funds, certain non-governmental cost funds, and reimbursements equals \$1.3 billion. This represents approximately 1 percent of the State budget.



Presentation by Secretary Matt Rodriguez

Items Proposed for Discussion. The Governor's Budget proposes trailer bill language to eliminate or consolidate the following agencies under the Secretary for Cal/EPA:

- 1. Elimination of Varlous Underutilized Programs within the Department of Toxic Substances Control. The Governor's Budget proposes to eliminate the following programs because they have outlived their purposes, are underutilized, or have been superseded by other programs: Expedited Remedial Action Program, Private Site Management Program, California Land Environmental Restoration and Reuse Act Program, Hazardous Waste and Border Zone Property Designations, Abandoned Site Assessment Program, Registered Environmental Assessor Program.
- 2. Reduction of the Number of Regional Water Boards. The Budget proposes to reduce the number of Regional Water Boards by merging two of the smaller existing regional water boards. The proposal also reduces the number of members on the boards from nine to seven.

STAFF COMMENTS

Staff has reviewed the proposals and concur with the Administration's proposals to eliminate or consolidate activities. The Secretary should outline his vision for the Agency and how these eliminations and consolidations fit into the overall Cal/EPA structure and functions.

Staff Recommendation: Approve Governor's Proposals 1-3

BIGHORN DESERT VIEW WATER AGENCY AGENDA ITEM SUBMITTAL

Meeting Date: April 24, 2012

To: Board of Directors

Budgeted: Yes

Budgeted Amount: est. \$93K + EPA share

Cost: On budget

From: Marina D. West

General Counsel Approval: N/A CEQA Compliance: June 29, 2010

Subject:

Receive and File Johnson Valley Hydrologic Investigation Report and Authorize

Change Order No. 1 to Daniel B. Stephens & Assoc. for time extension until April

24, 2012 at no cost.

SUMMARY

The Johnson Valley Hydrologic Investigation is complete and all findings are summarized in the attached report titled, "Johnson Valley Hydrologic Investigation", April 16, 2012. The Board should receive and file the report to complete the Professional Service Agreement (PSA).

Change Order No. 1 is to extend the PSA completion date from March 31, 2012 to the April 24th Receive and File date, at no cost to the Agency.

RECOMMENDATION

The Board considers taking the following action(s):

- Receive and file Johnson Valley Hydrologic Investigation Report dated April 16, 2012;
- 2. Authorize Change Order No. 1 to Daniel B. Stephens & Assoc. for a time extension until the April 24, 2012 Receive and File date, at no cost to the Agency.

BACKGROUND/ANALYSIS

The existing EPA State Tribal Assistance Grant approved Work Plan Task 10 calls for completion of the *Johnson Valley Hydrologic Investigation*. The Work Plan dates back to 2006 and states the following:

"Regarding the Johnson Valley Groundwater Basin Hydrologic Investigation, a Conceptual Model and Assessment of Water Supply for the Johnson Valley Area completed in 2007 suggests there are 900 acre feet of unused water in that groundwater basin. Previous studies indicate that there is adequate ground water storage and available groundwater storage capacity for another conjunctive use project. Before planning a groundwater storage project additional studies are needed to better define the characteristics of the basin for the benefit of the region. It will be necessary to conduct geophysical resistivity surveys across the area in order to understand the subsurface geometry, and to install monitoring wells as needed. It also includes ground borings, sampling and analysis activities".

This project was developed to investigate the feasibility of groundwater resources and recharge potential of the Johnson Valley Groundwater Basin. Property for the well site was chosen based upon data analysis provided by Todd Engineers, a need to stay within the boundaries of the Agency and finding a willing seller.

Water level information nearest to the purchased property came from a well drilled in 1980 located approx. 2,000 feet northeast and 60 feet lower in elevation, Well No. 9K1 as depicted on the attached Figures 2 and 3 from the report. Geologic information came from a variety of nearby well logs and generally consists of desert alluvial sediments characterized by interbedded sands, silts, clays and gravels. Water level at 9K1 was 260 feet below ground surface. This well was drilled using the air rotary drilling method which in most cases can provide uncontaminated drill cuttings and hence an indication of the depth of saturated conditions during drilling. No historical production, water level or water quality records or their trends surfaced during 2007 when the Conceptual Model was being developed or during the time this project was being discussed by the Board. While staff never approached the property owner to request access to measure water levels, production or quality, staff remains confident that the property owner would never have provided access to their well to obtain such information for the benefit of this project for the community.

From the available data, the water table at the JVTW1 site was estimated to be 380 (60 ft. higher elevation than 9K1). An additional 60 feet of drilling was expected to achieve at least the same depth as 9K1. Clay was encountered during drilling at 320 ft. and continued to a depth of 460 ft. Clay zones are generally non-producible so perforations were placed above the clay in anticipation that the water level would be close to the historical data obtained from 9K1. Further scrutiny of the 9K1 well log reveals that a sand zone was encountered in the lower 75 feet of that well and that is where perforations were located. JVTW1 produced such little water that operations were halted before water quality analysis could be obtained.

Since Managed Aquifer Recharge projects are not generally located in hydrogeologic settings that lack an existing, pumpable and demonstrated saturated aquifer system. It is not recommended at this site due to the low hydraulic conductivity and the aquifer is thin. However, the total amount of data collected is small and the report makes several recommendations for further assessment of production and recharge potential of the vicinity.

PRIOR RELEVANT BOARD ACTION(S)

11/30/2011 Motion 11-062 Authorize General Manager to execute a Professional Services Agreement with Daniel B. Stephens & Associates, Inc. in the amount of \$171,372 for completion of the Johnson Valley Hydrologic Investigation in accordance with the Agency's proposal dated August 11, 2011 and the proposal received from Daniel B. Stephens & Associates, Inc. dated September 9, 2011 and revised cost estimate dated November 16, 2011; and authorize a budget of \$93,611 to cover the Agency's projected cost share.

7/22/2011 Motion 11-037 Accept an offer of \$4900.00 plus all closing costs estimated at \$1,592 to acquire real property, parcel #454-181-06, for the Johnson Valley Hydrologic Investigation monitoring (test) well; and ratify Use of "Office of Real Estate Appraisers", for this property as a Substitute for MAI "Member of Appraisal Institute" appraisal; and authorize the General Manager to execute a sale and purchase agreement approved "As to Form" by the Agency's Legal Counsel

4/26/2011 Motion 11-019: Authorize the General Manager to begin process of acquiring real property for the Johnson Valley Hydrologic Investigation, authorize the General Manager to

execute a MAI (Member of the Appraisal Institute) appraisal, and authorize the General Manager to make an offer, including negotiate price and terms, subject to Board approval. **4/21/2011 Planning/Legislative/Engineering/Grant & Security (PLEGS)** Johnson Valley Hydrologic Investigation: Property Acquisition options for construction of a monitoring well in Johnson Valley. Committee recognized it may be in the best interest of the Agency to acquire land for the monitoring well and recommended moving the issue to the full Board for further consideration

10/25/2010 Motion 10-070: Approved staff recommendation to proceed with EPA State and Tribal Assistance Grant (STAG) project: Johnson Valley Hydrologic Investigation.

10/20/2010 Planning/Legislative/Engineering/Grant & Security (PLEGS) Committee directed staff to bring the status report on the EPA STAG grant to the full board for further consideration including financial participation in order to proceed with the Johnson Valley Hydrologic Investigation.

6/29/2010 Resolution No. 10R-04 Adopt California Environmental Quality Act (CEQA) Mitigated Negative Declaration (MND) for the Water Infrastructure Restoration Program: Ames/Reche Groundwater Storage and Recovery Program and Pipeline Installation/Replacement Program CEQA MND.

3/23/2010 Motion 10-016: Approved estimated costs of \$1,700 for "Johnson Valley Area" Questionnaire regarding property owner interest in pressurized water system.

9/18/2007 Board Workshop to discuss the results of the Basin Conceptual Model and Assessment of Water Supply and Demand for the Ames Valley, Johnson Valley, and Means Valley Groundwater Basins by Kennedy/Jenks/Todd, LLC.

4/24/2007 Motion to accept the Basin Conceptual Model and Assessment of Water Supply and Demand for the Ames Valley, Johnson Valley, and Means Valley Groundwater Basins by Kennedy/Jenks/Todd, LLC.

4/24/2007 Motion to accept Water Master Plan Report by Don Howard Engineering.

12/20/2006 06R-18 Resolution of the Board of Directors of the Bighorn-Desert View Water Agency declaring its intention to draft a Groundwater Management Plan for the Ames/Means/Johnson Valley Groundwater Basins.

3/28/2006 06R-04 Resolution authorizing General Manager to enter Grant Agreement of \$477,000 (EPA STAG).

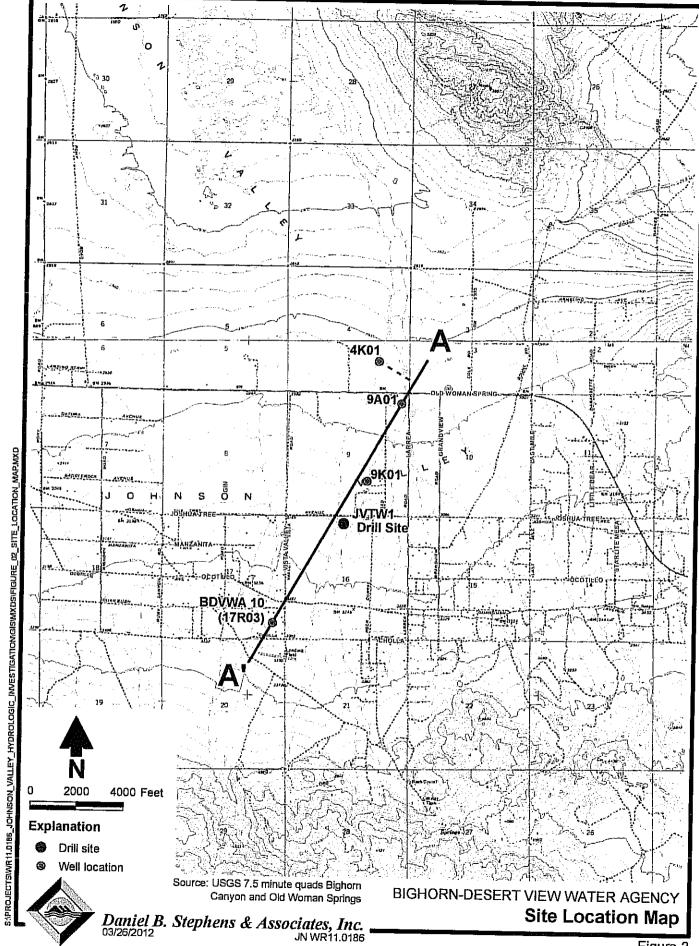


Figure 2

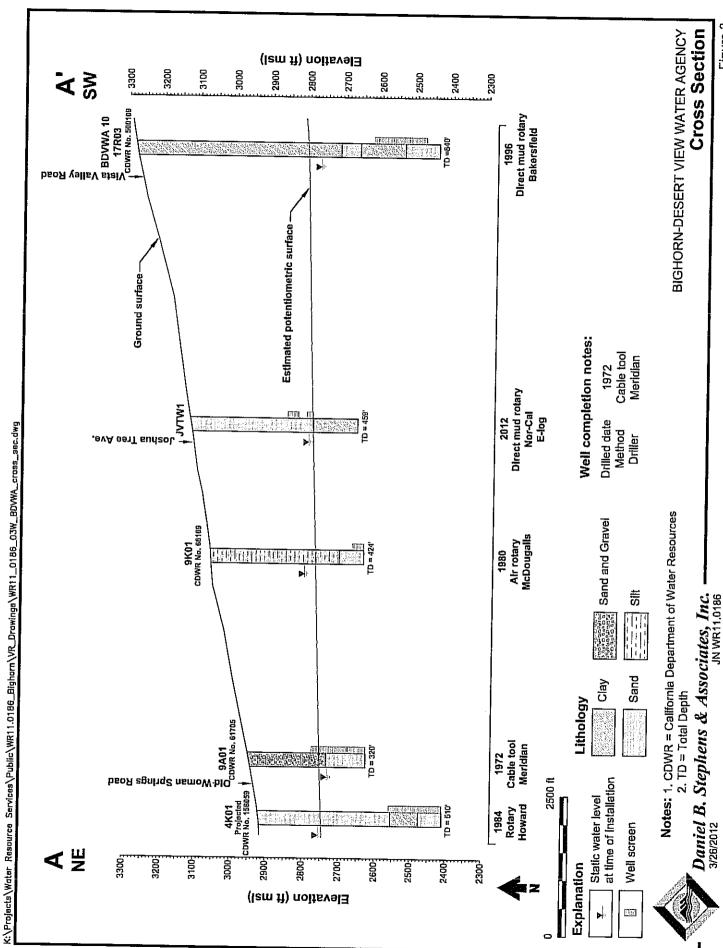


Figure 3

Well Installation Report Johnson Valley Test Well 1 Johnson Valley, California

Prepared for

Bighorn-Desert View Water Agency Yucca Valley, California

April 16, 2012



Daniel B. Stephens & Associates, Inc.

260 Newport Center Drive • Newport Beach, California 92660



Well Installation Report Johnson Valley Test Well 1 Johnson Valley, California

Prepared for Bighorn-Desert View Water Agency Yucca Valley, California

April 16, 2012

Certification

The material and data in this report were prepared under the supervision and direction of the California state licensed professionals listed below, consistent with generally accepted practices of the environmental industry.

David W. Abbott, P.G., C.Hg.

Daniel B. Stephens & Associates, Inc.

John J. Dodge, P.G.

Daniel B. Stephens & Associates, Inc.



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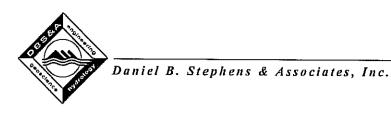
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- A Well Completion Reports for Existing Nearby Wells
- B JVTW1 Well Completion Report and Construction Information
- C JVTW1 Geologist Log
- D JVTW1 Geophysical Logs



Well Installation Report Johnson Valley Test Well 1 Johnson Valley, California

1. Introduction

On August 11, 2011, Bighorn-Desert View Water Agency (BDVWA) circulated a Request for Proposal (RFP) for the Johnson Valley Groundwater Basin Hydrologic Investigation. Proposals were submitted on September 12, 2011. The scope of work specified in the BDVWA RFP included (1) the installation of one permanent 6- to 8-inch-diameter test well to a depth of 400 feet below ground surface on property owned by BDVWA in Johnson Valley, (2) characterization of the vadose zone and saturated zone to a depth of 400 feet beneath the BDVWA-selected site to evaluate a possible managed aquifer recharge (MAR) project in the area, and (3) installation of a security fence around the site. In addition, BDVWA is exploring for a reliable 200-gallon per minute (gpm) potable water supply well to supplement their current water demands in Johnson Valley.

The goal of this project was to determine the potential yield and feasibility of a properly designed and reliable production well at this site that can yield 100 gpm. BDVWA specified and estimated the total depth of drilling at 400 feet but revised that estimate to 450 feet and selected 8-inch-diameter casing during final RFP negotiations in November 2011. Daniel B. Stephens & Associates, Inc. (DBS&A) was awarded the contract on December 1, 2011.

The test well site is located about 24 miles north-northwest of Yucca Valley, California in San Bernardino County in Section 16C of Township 3 North, Range 4 East (3N/4E-16C) of the San Bernardino base and meridian. It is about 15 miles northwest of the BDVWA office, in the northern and western portion of the BDVWA service area (Figure 1). The site (Assessor Parcel Number 045-418-106) is located in Johnson Valley with geographical coordinates of N34.354° and W116.571°. The rural parcel is on the south side of Joshua Tree Road and is halfway between the intersections of Larrea and Vista Valley Roads at an elevation of about 3,120 feet above mean sea level (ft msl).

Figure 1

Daniel B. Stephens & Associates, Inc. 03/26/2012



Daniel B. Stephens & Associates, Inc.

Access to the site is from Highway 247 (Old Woman Highway), about 1 mile north of the test well site. Potable water (used to mix drilling fluid) was pumped from BDVWA well 10 (3N/4E-17R3), which is located about 1 mile southwest of the site near the intersection of Cholla and Vista Valley Roads and currently yields about 55 gpm.

2. Purpose

The purpose of drilling the test well was to characterize the subsurface geology and hydrogeology beneath the site in the southern portion of the Johnson Valley Groundwater Basin, which is also known as the Soggy Lake Subbasin. The resulting characterization will be used to supplement and update hydrogeologic information summarized in the basin conceptual model and assessment report (Kennedy/Jenks/Todd LLC, 2007), to evaluate the potential for a permanent water supply well at this location, and to identify and evaluate the potential for MAR in this area.

An exploration hole was installed using direct mud rotary drilling methods to evaluate the subsurface geology. The exploration hole was to be completed as a permanent 8-inch-diameter test well and, if sufficiently productive, would serve BDVWA as a possible future water supply source. Pumping tests and water quality analyses were originally planned for this project, but were not conducted because following drilling, design and construction, the saturated thickness of the aquifer was thin, resulting in inadequate available drawdown.

3. Hydrogeology

The site is located on a gentle north-sloping alluvial fan composed of sediments transported from the San Bernardino and smaller Bighorn Mountains during infrequent rainfall events. The San Bernardino and Bighorn Mountains reach elevations of 7,512 to 5,894 ft msl, respectively (Figure 2). Annual rainfall is about 6 to 8 inches (Rantz, 1969) on the lower elevations of the alluvial fan. The valley floor ranges in elevation from 3,560 ft msl near the southern foothills to 2,710 ft msl at Melville Lake. A second closed depression (less than 2,760 ft msl) is located about 2 miles west of Means Mountain (3,601 ft msl) before reaching Melville Lake, about 6 miles north of the site.

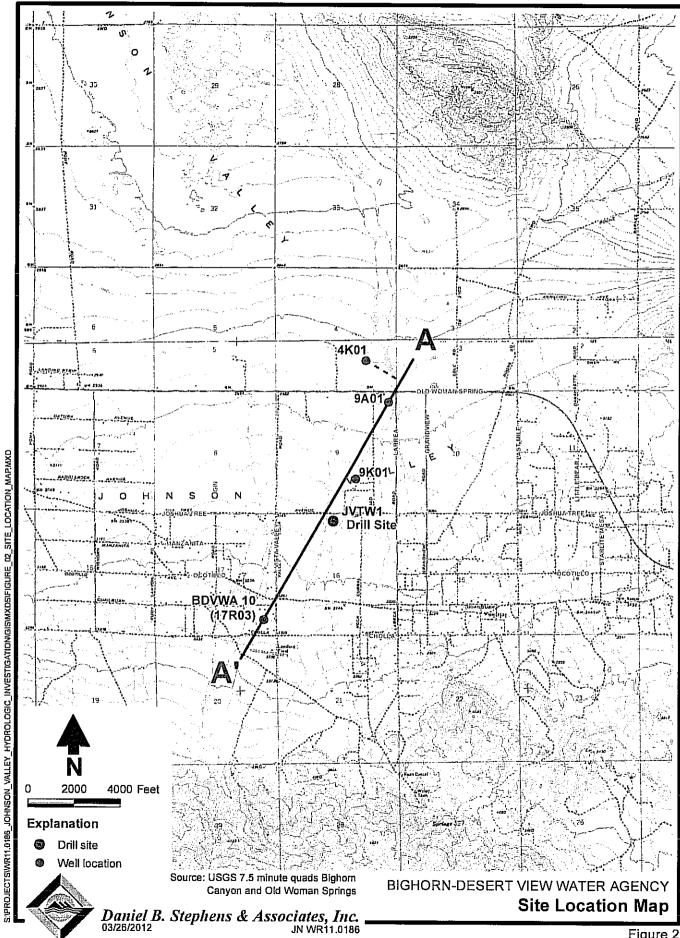


Figure 2



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Small tributary watersheds and washes from the mountains and hills along the southern perimeter of Johnson Valley flow intermittently northward to Melville Lake in the Upper Johnson Valley area. The valley is filled with up to 1,000 feet (Kennedy/Jenks/Todd LLC, 2007) of unconsolidated alluvial materials derived from the underlying and surrounding bedrock of Mesozoic Granite and Precambrian metamorphic rocks (Jennings et al., 1977). The alluvial fan is a sequence of interbedded clays, silts, sands, and gravels. The alluvial thickness increases with the distance from the mountain front. The test well site is about 2 miles from the foothills of the San Bernardino Mountains.

Alluvial fans are divided into three depositional areas (Reading, 1978; Walker, 1981). The proximal portion of the fan is near the apex or source area near the mountain fronts where sediment textures are generally coarse-grained (Hogan et al., 2004). The distal portion of the fan is located in the downslope direction (near the closed depressions) and contains fine-grained textured sediments. The mid-portion of the fan, where the drilling site is located, contains a mixture of coarse- and fine-grained sediments. The geologic, stratigraphic, and facies sequence of alluvial fans is usually coarsening upwards as the alluvial fan builds out or progrades.

Five anastomosing, interlacing, and bifurcating intermittent washes flow northward (Figure 2). The test well site is located between the two westernmost washes. The southeast termination trace of the concealed and hidden northwest-trending Johnson Valley Fault (not shown on Figure 2), which may affect subsurface hydrogeology, is located about 2 miles northwest of the site (Kennedy/Jenks/Todd LLC, 2007).

Figure 3 shows the northeast-southwest hydrogeologic cross section (A-A') (location shown on Figure 2) that includes four existing wells and the new test well (Johnson Valley Test Well 1 [JVTW1]). The well logs for existing wells 4K1, 9A1, 9K1, and 7R3 are included in Appendix A. Table 1 summarizes the dimensions, designs, and relevant information for these wells. The ground surface of the cross section ranges from about 2,920 to 3,280 ft msl. The topographic map (Figure 2) was used to estimate the surface elevation for the wells. The wells range in depth from 320 (well 9A1) to 840 feet (well 7R3). Screen elevations range from about 2,400 to 2,800 ft msl, and screen lengths range from 40 feet to 150 feet.

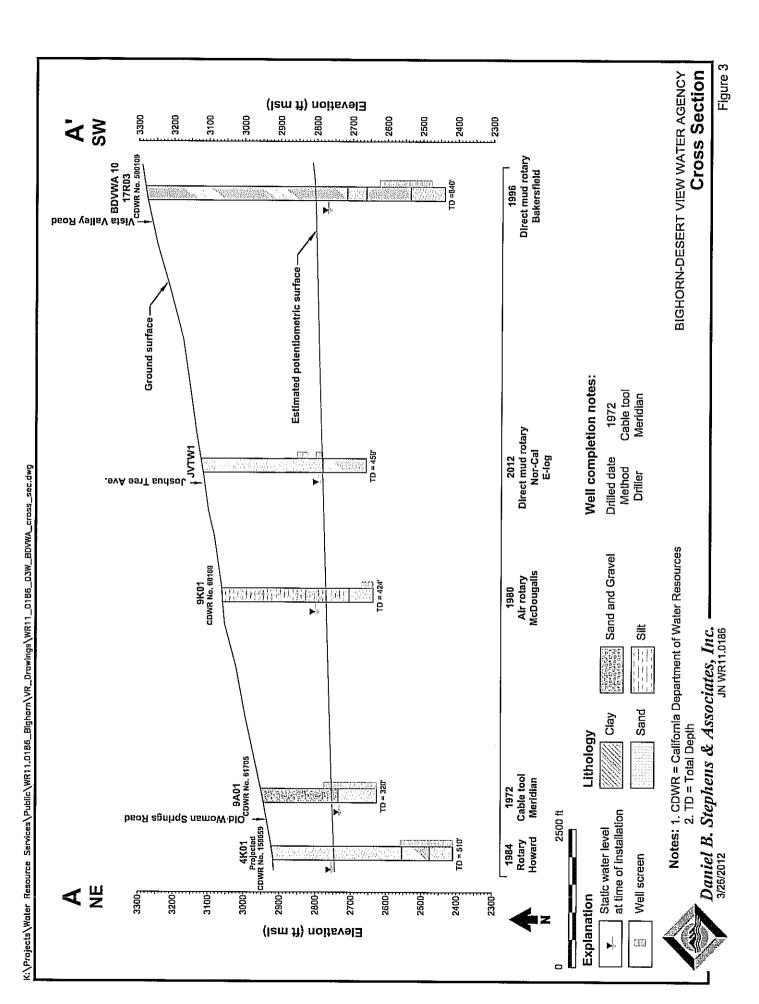




Table 1. Summary of Well Logs Shown on Cross Section A-A'

						Casing		S.	Screen		Static				
		Flevation	Drilling	Depth	pleted	Dia-	Interva	nterval (ft btoc)	1		Water				
CDWR No. 3N/4E a	3N/4E ^a		Date	(feet)	(feet)	(inches)	Тор	Bottom	(feet)	Type	(ft btoc)	Type	Driller	Use	Comments
158059	4K1	2,920	Jul-84	510	510	4	360	510	150	Unknown	165	Rotary	Howard	Test well	
61705	9A1	2,950	Jul-72	320	320	8	220	320	100	100 Perforated	215	Cable	Meridian	Domestic	
68169	9K1	3,060	Nov-80	424	424	9	384	424	40	Slots	260	Air rotary	McDougall		
e0145517°	16C1	3,120	Jan-12	459	340	8	260	330	50	Screen	321	Mud rotary Nor-Cal	Nor-Cal	Test well	1WTVL
500109	7R3	3,280	Apr-96	840	840	12	650	800	150	Louver	503	Mud rotary	Mud rotary Bakersfield Domestic	Domestic	BDVWA Well 10

Note: Well logs shown on cross section A-A' (Figure 3)

Locations shown on Figure 2

Don date of installation

Geophysical logs and this report

CDWR = California Department of Water Resources 3N/4E = Township/Range and Section ft msl = Feet above mean sea level ft bgs = Feet below ground surface ft btoc = Feet below top of casing



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The non-pumping water levels measured at the time of well construction range from 165 (4K1) to 503 (7R3) feet reflecting the differences in ground surface elevations of the wells. Although these water levels were measured in different years and different seasons, the water table elevation appears to be relatively flat along the cross section and ranges from 2,750 ft msl at 4K1 to 2,810 ft msl at 7R3. The groundwater gradient between 4K1 and 7R3 is about 0.0052 (60-foot difference between water levels ÷ 11,500 feet [the distance between the two wells]) and slopes gently toward the northeast.

4. Test Well Installation

On January 9, 2012, the Department of Public Health, Environmental Health Services of San Bernardino County approved the drilling permit (permit number 201210023 record ID WP7803) for the installation of the test well. The drilling and National Pollutant Discharge Elimination System (NPDES) permits are included in Appendix B. All drilling, well construction, and well development operations were performed by subcontractor Nor-Cal Pump and Well Services, Inc. (Nor-Cal), with Mr. Nar Heer serving as the drilling supervisor. The security fence (400 feet by 6 feet high) was installed by McCullah Fence Company under a subcontract to Nor-Cal.

To provide site-specific data and to determine the thickness and physical characteristics of the underlying sediments, Nor-Cal used a direct circulation mud rotary TH-60 Ingersol Rand rig to drill an uncased mud rotary exploration boring to a depth of 459 feet on January 24, 2012. Data collected from the exploration boring, including a descriptive lithologic log by the field geologist, a driller's log, and geophysical logs, were used to design the test well. The pilot borehole was drilled with a 7.875-inch-diameter drag bit to a depth of 315 feet. The formation became "harder" at 315 feet, so the drilling contractor replaced the drag bit with a tricone roller bit (7.875-inch-diameter) and drilled from 320 to 459 feet; total boring depth was reached after almost 10 hours of drilling.

The boring was drilled using a bentonite-based freshwater fluid system that was mixed sparingly with polymeric additives for filtrate control. Drilling fluid properties (viscosity and weight) were measured to ensure that they remained within the specifications. Viscosity, measured using a marsh funnel, ranged between 32 and 40 seconds, while mud weight, measured using a mud scale, ranged between 70 and 85 pounds per cubic foot. Drilling penetration rates were about



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60 feet per hour. After total depth was reached, the drilling fluid was circulated for 2 hours, to allow the removal of all drill cuttings from the boring, to ensure that the full depth of the boring could by logged, and to prepare the exploration hole for geophysical logging.

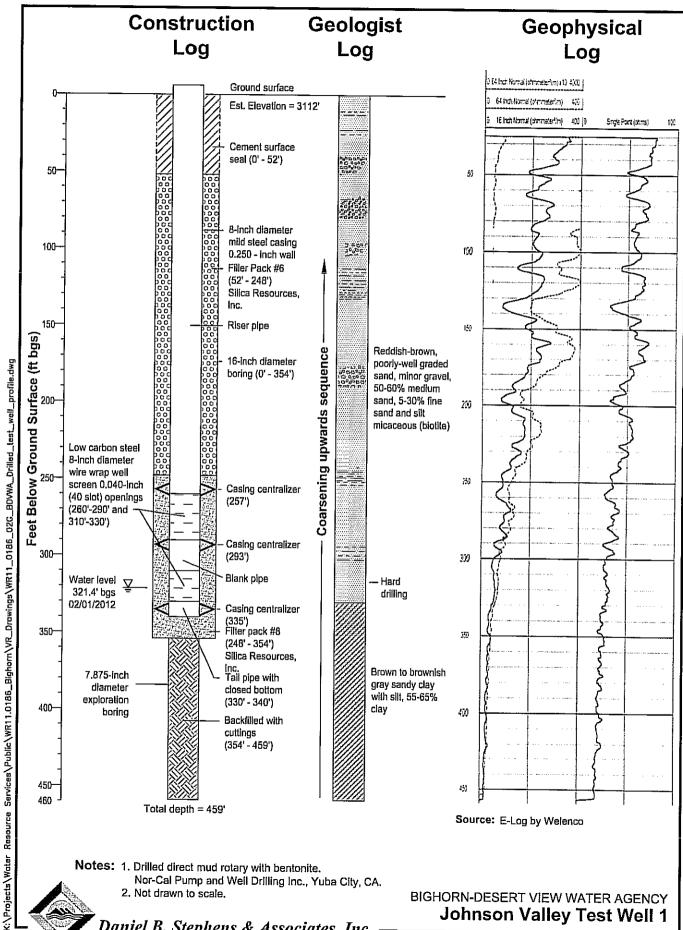
Drill cuttings were collected at 5-foot intervals from 0 to 40 feet and at 10-foot intervals from 40 to 459 feet. Samples of the drill cuttings were collected and stored in plastic compartmentalized containers and described by the on-site geologist. The geologist's log and pictures of the samples are included in Appendix C. The driller's log is in Appendix B. Figure 4 summarizes the geologist's log. Laboratory soil analysis of the samples for vertical and horizontal hydraulic conductivity was not conducted because the drilling method (direct mud rotary) results in poor sample integrity; instead, geophysical logging techniques were used to evaluate the relative permeability of the geologic formations. The observed sediments included reddish brown, poorly graded to well graded sand and some gravel from ground surface to about 330 feet. A thick sequence of brown to brownish gray sandy and silty clay underlies the sand and gravel unit.

5. Geophysical Logging

Welenco of Bakersfield, California conducted the geophysical logging over an elapsed time of 3 hours on January 24 and 25, 2012. Two separate sondes were used for logging: the standard suite of geophysical logs (Electric log [E-Log], including spontaneous potential [SP], 16-inch, 64-inch, and point resistivity, and natural gamma radiation log) and the induction log. Appendix D includes all the geophysical logs, and Figure 4 shows selected E-logs. All geophysical logs correlate well with the field geologist's log.

The SP log determines changes in lithology by measuring the naturally occurring electrical potentials that exist at contacts between different types of geologic materials. These changes result from chemical and physical changes that occur between a clay layer and a sand layer (Poehls and Smith, 2009). Excursions of the log to the right (less negative) indicate fine-grained and clay-textured sediments.

The 16-inch, 64-inch, and single point E-logs measure the resistivity of the geologic materials at various horizontal distances from the sonde. The low resistivity measurements (below 350 feet)



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BIGHORN-DESERT VIEW WATER AGENCY Johnson Valley Test Well 1



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indicate clay textures and sediments; this is called the clay baseline and ranges from about 30 to 40 ohm-meter² per meter. Resistivity log excursions or peaks to the right of the clay baseline indicate silt to coarse-grained sediments. Excessively high and persistent resistivity values indicate unsaturated materials (occurring between ground surface and at least 200 feet for this exploration hole). High resistivity values (which occurred between 200 and 330 feet) may indicate silt to coarse-grained saturated sediments.

The natural gamma radiation log measures the radiation decay of daughter products emitted by potassium-40 and the uranium- and thorium-decay series. In most unconsolidated formations, high gamma radiation emissions (excursions to the right) suggest fine-grained materials (i.e., clay) while low radiation emissions (excursions to the left) indicate coarse-grained materials. Descriptions provided on the geologic log for JVTW1 suggest significant amounts of muscovite (and biotite) in the sand and gravel units. High biotite concentrations in sands and gravels can produce high gamma radiation emissions, which can affect the customary interpretation of the log.

These geophysical logs consistently indicate a stratigraphy that is comprised of a thick unsaturated unit from ground surface to about 250 to 300 feet, a low-permeability and thin saturated zone from 300 to 330 feet, and a thick clay layer below 330 feet.

The induction log evaluates the stratigraphic sequence in the unsaturated zone (Asquith and Gibson, 1982; Keys, 1989; Welenco, 1994) and helps to identify thin clay layers that could impede vertical percolation or migration of water recharged at the surface. It is an electromagnetic technique that measures resistivity or conductivity to induce eddy currents in the rock or sediments around a borehole (Keys, 1989). The induction log for JVTW1 (Appendix D) suggests that no significant or thick clay layers exist that would impede vertical percolation of groundwater to the water table. Also note that the induction and resistivity logs suggest an upward coarsening stratigraphic sequence.

6. Well Design and Construction

Because no water level data were available from other nearby wells, the static water level was unknown at this site. In addition, the water level in the well could not be measured during mud



rotary drilling, and in general, the geophysical logs were unable to identify the depth of the water table. BDVWA estimated that the depth to water at this site would range between 200 and 250 feet. Because of the unknown water level depth, a flexible well design was used so that the test well could be modified later if the water level was at shallower depths.

Based on the BDVWA water level estimate and information from the geologist's, driller's, and geophysical logs, two potential water bearing zones were identified for screen settings:

- The interval from 310 to 330 feet was selected because (1) the underlying thick clay layer would impede vertical percolation of water and would tend to pond groundwater on top of the clay, and (2) the small E-log resistivity "kick" to the right indicated a silty-sand layer. Experience suggests that this zone would be limited to low well yields and potentially poor water quality.
- The interval from 260 to 290 feet was selected because (1) BDVWA indicated that the
 water level could range between 200 and 250 feet, and (2) the apparent "kick" of the
 E-log to the right suggested that these sediments would be more permeable than those
 from 310 to 330 feet.

The interval from 200 to 240 feet was also considered but was not selected because of the uncertainty in the depth to the static water level. However, the well design specifically incorporates a coarser filter pack in this interval that would allow for potential future design modifications (downhole perforations) if the static water level is found to be above 200 feet or shallower. The test well design specified the installation of blank casing between the two screens so that the lower zone (310 to 330 feet) could be isolated and separated from the upper zone (260 to 290 feet) if the water yield or quality was poor in the deeper screen.

DBS&A provided the preliminary well design to the drilling contractor on January 25, 2012 and instructed the driller to ream the boring to 354 feet with a 16-inch-diameter drilling bit. Exploration borehole reaming began on January 26, 2012 and was completed the following day. The 16-inch-diameter bit allowed for the installation of 8-inch-diameter mild steel casing, low-carbon steel wirewrap screen, and the associated filter pack.



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Well construction began on the morning of January 27, 2012. JVTW1 was constructed with 8-inch-diameter 0.250-inch-wall mild steel casing. Two low-carbon steel 0.040-inch (40-slot) wirewrap screens were placed at the selected intervals and separated with a 20-foot blank pipe. Appendix B includes the well screen specifications. A 10-foot tailpipe with a closed bottom was installed on the screen assembly. Three centralizers were used to center the casing and screen assembly in the borehole. The well screen assembly was lowered down the reamed boring with 260 feet of mild steel riser pipe.

On January 27, 2012, installation of the filter pack envelope began using a tremie pipe. Chlorine was added to the filter pack for disinfection. Two filter packs were used so that if the static water level was higher than expected, the 200- to 240-foot zone could be perforated and developed to evaluate that zone. Silica Resources Inc. (SRI) Number 6 filter pack was used from 50 to 280 feet and SRI Number 8 was used from 280 to 340 feet. Appendix B includes the filter pack specifications. The Number 8 filter pack allows about 10 percent passing through a 40-slot screen. The Number 6 filter pack is coarser than the Number 8 and should minimize filter pack entering the well if downhole perforations between 200 and 240 feet are recommended. On January 28, 2012, the cement seal was installed between the 16-inch-diameter borehole and the 8-inch-diameter casing from ground surface to 50 feet. No additional work was conducted on the well for 48 hours.

7. Well Development

Well development is conducted to remove residual drilling fluids from the well casing, borehole annulus, filter pack, and surrounding aquifer materials (Driscoli, 1986). During filter pack installation, water is circulated within both the filter pack and the test well to dilute and remove the drilling fluid. Well development procedures are designed to repair drilling- and construction-induced damages to the borehole/filter pack/well screen interface and are aimed mainly at removing drilling fluids and cakes from the interface and improving the permeability of the near-well materials to restore well performance (Detay, 1992). Well development also improves the flow of water to the well by removing fine-grained material in the formation and the filter pack surrounding the well, increasing the natural porosity and permeability of the formation in the vicinity of the borehole and removing the filter cake or drilling fluid film that may have invaded the formation (Poehls and Smith, 2009).



Well development was conducted on JVTW1 using a combination of methods, including bailing, airlifting, and swabbing. Development began on January 30, 2012 using a 10-gallon bailer lowered down on the sand line to remove drilling fluids. All fluid and water levels are measured from the top of the casing. Initially the fluid level in the test well was about 52 feet. After 3.5 hours of bailing at an average rate of 3 gpm, the fluid level dropped to 175 feet and appeared to stabilize at that depth.

Development with airlift equipment was used next to continue the process and evaluate potential well yields. The airlift system consisted of the following components: 250 feet of airline, 4-inch-diameter eductor, and 300-pound per square inch compressor. Airlifting was conducted for about 1 hour and resulted in pumping rates of less than 0.5 gpm. The fluid level in the well had dropped to about 320 feet. Because insufficient water was available in the well to allow additional well development, a volume of water (about 800 gallons) from BDVWA well 10 was introduced into JVTW1. Water levels were measured after the water was added, and the water level dropped from an initial depth of 21 to 90 feet in about 12 hours, suggesting that a low-permeability formation is present at the well screens. This drop in water level indicates that the formation and/or filter pack accepted about 180 gallons in 12 hours or about 0.25 gpm.

On January 31, 2012, development activities continued with swabbing, which loosens sand and mud from the borehole and filter pack. The swab block was composed of two 6-inch-diameter steel plates and one 8-inch-diameter, 1-inch-thick rubber disk sandwiched between the two steel plates. About 3.5 inches of fine-grained sediment settled to the bottom of the well after about 1.25 hours of swabbing. The screen sections were swabbed for 2.7 hours, after which time the depth to water was 94.5 feet.

Airlifting resumed for about 1 hour. The well yield was estimated at about 0.5 gpm and the water level depth was 244.5 feet. The airlift tool was lowered to 300 feet and air-lifting resumed at that depth, but no water was pumped from the well. The water level was re-measured at 281.6 feet. Work stopped on the well to allow the water level to recover for about 20 hours; the water level had dropped to 285.7 feet on February 1, 2012.



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On February 1, 2012, a 1.5-horsepower Centipro submersible pump was installed in JVTW1 to continue well development. The pump was set at 326.5 feet near the bottom of the test well. Water levels and discharge were measured during the pump development process. Flow was measured using a 5-gallon bucket and watch.

Initially, the water level was measured at 285.67 feet. The pump was turned on, and the well became "dry" after about 30 minutes of pumping. The pumping rate ranged between 1 and 5 gpm, while the water level dropped from 285.67 to 325.83 feet. The pump was turned off and water level recovery was measured for about 2 hours, at which time the water level had recovered to 325.08 feet, a net recovery of less than 1 foot. The total volume of water removed from the well during development and pumping was approximately 600 gallons, about 200 gallons less than the volume of water placed in the well.

Because the well yield was small (less than 1 gpm), the saturated thickness of the aquifer was small (3 feet), the volume of water removed was less than the volume recharged, and the water had elevated turbidity, it was decided that no water quality samples would be collected from the test well as originally planned. The drilling contractor was instructed to remove the pump, demobilize all equipment and materials from the site, and secure the site.

8. Managed Aquifer Recharge

Artificial recharge or MAR is a groundwater management strategy to recharge an aquifer during times of surplus water for later beneficial use during times of shortage. Surface water is purposely transferred into the groundwater system at rates greater than natural recharge (Poehls and Smith, 2009). Two methods are used to achieve artificial recharge of groundwater: (1) spreading basins, which allow the water to percolate to the water table beneath the footprint of the basin, and (2) recharge wells, which inject water at a specific depth interval and location in an aquifer. Both spreading basins and wells can be used to recharge unconfined aquifers; wells must be used to recharge confined aquifers. Aquifer storage and recovery (ASR) wells are a special type of recharge well that is used for the storage of water in suitable aquifers during times when water is available and recovery of the water from the same well during times when it is needed (Pyne, 1995, 2005).



The feasibility and success of a MAR project depends on answering questions related to regional, site-specific, policy- and regulatory-oriented, institutional, and project-specific characteristics and objectives:

- Can the source, accessibility, amount, and quality of water to be recharged meet project objectives, regulatory policy goals, and institutional agreements?
- Is a convenient and economical source of acceptable water quality available to recharge?
- Is the regional hydrogeology favorable for storage and recovery?
- Is the site hydrogeology favorable for percolation of water through the vadose zone using spreading basins or for injection of water using recharge wells?
- Can the water be stored, contained, and recovered economically from the aquifer?
- Can the water be recovered in acceptable quantities and quality to meet project goals?

JVTW1 was installed in part to provide a preliminary evaluation of the subsurface geology and hydraulic characteristics of the underlying vadose zone and aquifer system for consideration of MAR. Although many of the questions posed above and their associated components cannot be answered without additional and focused investigations, the preliminary findings and information derived from the JVTW1 exploration program can help to design future investigations and move the feasibility process forward. Among the more important findings from this investigation are the following:

A sequence of upward coarsening sands and gravels was encountered from ground surface to about 330 feet. The induction log did not identify any significant clay layers beneath the JVTW1 site to a depth of 330 feet. However, depending on the borehole and fluid conditions and the instrument sensitivity, the induction log cannot detect clay layers that are thinner than 1 to 4 feet. Interpretation of the induction log and observation of drill cuttings indicate that these sediments have lithologic characteristics



and hydraulic properties that are likely to be favorable for percolation of water through the vadose zone, although no data exist to quantify the vertical and horizontal hydraulic conductivity.

- The relatively thick vadose zone (300 feet) provides opportunity for groundwater storage.
- A relatively thick, low-permeability clay layer encountered in JVTW1 at a relatively shallow depth (330 feet) would impede leakage and vertical downward escape of the recharge water.
- The static water level was deeper (326.8 feet below ground surface as of March 9, 2012)
 than expected. The original estimate of the static water level ranged between 200 and 250 feet below ground surface.
- The estimated saturated thickness of the aquifer is about 3 feet (depth to the top of the clay [330 feet] minus the static water level [326.8 feet]).
- The estimated long term-yield of JVTW1 is less than 1 gpm.

To summarize, this investigation determined that the thick vadose zone provides plenty of storage volume at this site and that the lithology and stratigraphy are favorable for percolation and MAR. Some of the answers to many of the questions listed above about the feasibility of MAR are provided in the conceptual model report (Kennedy/Jenks/Todd LLC, 2007). However, many questions still remain unanswered for a Johnson Valley MAR project. For example, the lateral groundwater containment features are largely unknown from the existing data. Existing well drillers' logs available for review for this investigation provide some initial data to characterize the area but detailed hydrogeologic data from the drillers' logs are lacking.

The basin conceptual model (Kennedy/Jenks/Todd LLC, 2007) provides an initial understanding of the regional and local hydrogeology for Johnson Valley. However, data gaps still exist relating to the understanding of Johnson Valley hydrogeology for MAR projects. Additional valley-wide and site-specific hydrogeologic investigations (including exploration drilling) are needed to evaluate the lateral extent of the aquifers and underlying clay, the regional



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groundwater containment features, and the vertical and horizontal variations of the unsaturated/saturated hydraulic conductivities of the underlying sediments. In addition, water quality studies are needed to evaluate the geochemical compatibility between potential recharge water with local groundwater and lithology.

In addition to adequate percolation rates and sufficient storage space for the recharge water, project-specific groundwater recovery rates are also required to meet MAR project goals. MAR projects are typically not constructed in hydrogeologic settings that lack an existing, pumpable, and demonstrated saturated aquifer system. At this site, the relatively deep water level optimizes the available storage volume; but the 3-foot-thick saturated zone overlying the relatively shallow clay layer restricts the volume of water that can be efficiently removed by a recovery well. Water recharged by a spreading basin would percolate to the existing water table to form a recharge mound beneath the basin and then spread outward radially. The recharged water would flow away from the mound, forming a thin ("pancake") aquifer, and would likely escape the influence of an ASR well. Well yields and groundwater recovery rates would depend on a relative combination of values for hydraulic conductivity and saturated thickness.

During MAR, the thickness of the saturated zone beneath the spreading facility or near the recharge well will increase and provide more available drawdown for operating the recovery wells. However, groundwater within this engineered saturated zone or dead storage zone (similar to what occurs at surface water reservoirs) is not fully recoverable. Dead storage is the volume of water in a reservoir below the lowest controllable level (Wilson and Moore, 1998) and represents permanent loss of recoverable water. Additional water losses occur from groundwater escaping the influence of pumping wells. Also, the amount of recoverable water will be reduced by specific retention (which can range from 4 percent for boulders to 32 percent for fine sand [Johnson, 1967]). For example, if 2 inches of water is required to saturate a foot of silty sand with an assumed porosity of 50 percent and the specific yield (porosity less the specific retention) is assumed to be 25 percent, then only 1 inch of the originally percolated water would be recoverable.

The basin conceptual model report (Kennedy/Jenks/Todd LLC, 2007) summarizes three high desert groundwater basins (Ames Valley, Means Valley, and Johnson Valley) and points out the paucity of data in Johnson Valley. Additional site- and basin-specific investigations are needed



to characterize and evaluate the hydrogeology of the Soggy Lake Subbasin as a potential MAR site using spreading basins, recharge wells tapping the water table, or ASR wells installed in the deeper aquifer system.

The development of MAR projects is usually divided into three or more phases that each build upon the previous phase. For evaluation of a MAR project in the Soggy Lake Subbasin at least three phases are suggested:

- The Phase 1 investigation would (1) incorporate the conceptual model (Kennedy/Jenks/Todd LLC, 2007), (2) identify a scope of work to address data gaps, (3) assemble and evaluate all existing hydrogeologic information specifically for the Soggy Lake Subbasin, (4) review and update regulatory and institutional controls, and (5) evaluate engineering options and community issues related to the proposed project.
- The Phase 2 investigation would include installation of a network of basin- or subbasin-specific exploration/monitoring wells to better define the regional and local shallow and deep hydrogeology of the Soggy Lake Subbasin and address data gaps identified in Phase 1. Phase 2 data would include improved definitions of the subsurface geology on a local scale, basin and stratigraphic dimensions, hydraulic and physical parameters of the unsaturated and saturated sediments, and groundwater and recharge water quality data. Phase 2 would also provide recommendations for Phase 3.
- The Phase 3 investigation would include the installation of pilot-scale projects to demonstrate the feasibility of MAR in a selected area.

Development of a MAR facility using the water table aquifer underlying the JVTW1 site poses hydrogeological and technical challenges. However, JVTW1 could be deepened and drilled to bedrock as a first step in evaluating the feasibility of planning a MAR project in the deeper aquifer system that is pumped by BDVWA well 10. The deeper exploration boring would help to determine the thickness and characteristics of the unconsolidated sediments overlying the basement rock.



9. Recommendations

Based on the results obtained from the drilling of well JVTW1, DBS&A offers the following recommendations and ideas:

- Water levels should be measured periodically to evaluate and determine whether the static water level changes over the next few months.
- The geologic and hydrogeologic data from JVTW1 should be incorporated into the regional conceptual model (Kennedy/Jenks/Todd LLC, 2007) and used as a reference during future supply well drilling projects.
- BDVWA should consider the cost/benefits of deepening JVTW1. The test well could be deepened to tap the aquifer pumped by BDVWA well 10 (Well 17R03 on Figure 3). The cap on the bottom of the casing would be drilled out and drilling would be continued to bedrock, at an elevation of about 2,400 ft msl or a depth of about 800 feet (about 340 feet of additional drilling). Downhole geophysical logging would be conducted in the deepened borehole below 459 feet. Additional casing (maximum 4-inch-diameter) would be installed within the existing casing (8-inch-diameter) to extend JVTW1 to the interval that is screened by BDVWA well 10.
- Additional well development using other techniques could be conducted on JVTW1 to
 determine if sufficient water is available to convert the test well into a low-yield domestic
 water supply. However, due to the relatively small saturated interval overlying the lowpermeability clay unit, additional development is not recommended unless the water
 level rises, as it would be unlikely to yield significantly different results.
- A more focused Phase 1 investigation should be conducted to evaluate MAR feasibility if BDVWA plans to pursue artificial recharge and groundwater recovery in the Soggy Lake Subbasin. The subbasin-specific Phase 1 investigation may include reconnaissancelevel geophysical surveys to supplement the conceptual model report (Kennedy/Jenks/ Todd LLC, 2007).



If BDVWA plans to pursue MAR in the Soggy Lake Subbasin, DBS&A recommends
deepening JVTW1, which could serve as an initial project to explore and evaluate the
aquifer that is pumped by BDVWA well 10. Planning an MAR project at this site in the
water table aquifer may be challenging and is not recommended because the hydraulic
conductivity is low and the aquifer is thin.

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Appendix A

Vell Completion Reports for

Well Completion Reports for Existing Nearby Wells

MOJAVE WATER AGENCY 16849 D ST., VICTORVILLE, CA 92392 (619) 245-7717

NOTICE OF INTENT to extract or divert water

1.	This report must be filed with the Agency at commencement of drilling any new well or div Boundary. In emergency cases the Agency may to drilling.	erting water within the Agency
	PROPERTY OWNER Southern California Edison AI DRILLER Howard Pump, Inc. AI DRILLER LICENSE# 281814 DA	DDRESS 28753 W. Hwy 58, Barstow, CA 92311
2.	LOCATION OF WELL OR DIVERSION:	·
	Township_3NRange_4E	SECTION DIAGRAM (Denote Well Location)
	Section_4Parcel#_454-271-02	(Denote Well Hotation)
3.	TYPE OF WELL CONSTRUCTION: Rotary drill (x) Cable tool () Other ()	
4.	PROPOSED USE OF EXTRACTED WATER: (If for irrigation, note the number of acres irrigated.)	
5.	PROPOSED DATE OF DRILLING: PRO	JECTED DATE OF COMPLETION:
6.	FAILURE TO FILE THIS NOTICE IS PUNISHABLE BY HUNDRED DOLLARS (\$500). Both the person own and the person constructing the well or dive this subdivision. (Section 1 or Section 39, of the Statutes of 1959)	ing the land or an interest therein rsion facility shall be assessed under
7.	VERIFICATION:	
	This report is true to the best of my knowledge and belief.	This report is true to the best of my knowledge and belief. This well (or diversion) will be drilled or constructed under my jurisdiction.
	OWNER DATE	Howard Pump, Inc. 9-17-84 DRILLER DATE

() CHECK HERE FOR ADDITIONAL FORMS

ORIGINAL

File with DWR

STATE OF CALIFORNIA

THE RESOURCES AGENCY

Do not fill in

DEPARTMENT OF WATER RESOURCES 17 1084 No. 158059
WATER WELL DRILLERS REPORT
MOJAVE WATER Well No. 3N/45-4/ Not : of Intent No. 200682 emit No. or Date 06258404

	ACCIICY Other Well No.
(1) OWNER: Name Southern California Edison	
Address P.O. Box 800	(12) WELL LOG: Total depthft. Depth of completed wellft.
Description of the second of t	from ft. to ft. Formation (Describe by color, character, size or material)
Zip_J1770_	
(2) LOCATION OF WELL (See instructions):	0 - 00 \$and.
County Dail Delitalulio Owner's Well Number 4	10 - 20 Band, gravel, and pebbles.
Well address if different from above	20 - 30 Pebbles, band, & gravel.
Township 3N Range 4E Section 4	30 -40 Course sand, pebbles, sand.
Distance from cities, roads, milmads, fences, etc.	40 -60 course sand, pebbles.
	60 - 80 Med Sand.
/F/ 071 00 ·	80 - 90 \ Med. sand.
454-271-02 /	90 -100 Med. to course sand.
(3) TYPE OF WORK:	100 110 White silty clay, course sand.
New Well 23 Deepening [110 No Med to course sand, some gravely
Reconstruction	110 Med to course sand, some gravelx, pebbles.
Reconditioning	20 -160 Med sand.
Horizontal Well	150 -170 165 water level.
1	THE TEVEL
Destruction [(Describe destruction materials and procedures in Item 12)/	may band.
(4) PROPOSED USE?	The course to med said, brown cra-
Domestic	silty (
	190 - 200. Sourse gand, silty, gravel.
	200 210 Sandy silt, gravel, sourse sand.
	210 -230 Med sand.
	Street Street
	240 -280 \Silty sand.
Municipal)	280 -290 Fine to med sand.
WELL LOCATION SKETCH Other (5) EQUIPMENT: (6) CRAYN PACK	290 -300) Fine to med sand.
(a) sint and (a)	300(5320 Med sand, some silt.
7 7/60 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1d 320 340 Silty sand, gravel.
	(3400)-370 Sandy clay, silt.
Other Bucket Packet from 20 to 520 ftr.	
(7) CASING INSTALLED: (8) PERFORATIONS:	√)390 -398 95% brown clay, 5% med sand.
Steel Plastic Concrete Type of perfetation or sine of screen	398 -410 50% brown clay, 50% med to course
From To Dia Gago of From To Slot	sand.
it. ft. Wall ft. size	410 -430 Silty clay to med sand.
0 510 × 1/4 360 510	430 -440 Silty clay to sand.
	440 -450 Silt, med sand, some clay.
	450 -465 Silty med RMM to course sand & sil
(9) WELL SEAL:	465 -500 Silty med sand.
Was surface sanitary seal provided? Yesy No □ If yes, to depth 20 ft.	500 -510 gravel, silt, and sand.
Were strata sealed against pollution? Yes No Intervalft.	- 8-11-19 21-19 21-19
Method of sealing MUG	Wark started 19 Completed 19
(10) WATER LEVELS:	WELL DRILLER'S STATEMENT:
Depth of first water, if knownft. Standing level after well completionft.	This well was drilled under my jurisdiction and this report is true to the best of
(11) WELL TESTS:	This being diff delief.
Was well test made? Yes □ No □ If yes, by whom?	Signed Gregg Brown (Well Driller)
Type of test Pump Bailer Air lift	NAME. Howard Pump, Inc.
Depth to water at start of testft. At end of testft	(Person, firm, or corporation) (Typed or printed)
Discharge gal/min after hours Water temperature	Address 28753 W. Hwy 58
C al analysis made? Yes No If yes, by whom?	City Barstow, CA Zip 92311
Was electric log made? Yes No If yes, attach copy to this report	License No. 281814 Date of this report 7-17-84

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

11/6/92, car

State of California The Resources Agency DEPARTMENT OF WATER RESOURCES

State	Well	No.	N	./.4.E	4K	1	В&М

WELL INDEX

Location No. Serial or Ventura No. Local or Riv. No. Bulletin 39-J No.	County Can Bernardino Areal Designation Areal Code No.
Other No.	Well Condition
Data Available Filed Under	Ref. Pt. Elev. ft. Effective date ft. Ground Elev. ft.
Water Analyses	Original Well Depth 510 ft. Well Soundings
Well Use Test Well Well Type New DWR 1058 (Rev. 6/70)	Perf. 3400'-510'

Agency Code No	
Pump Serial No.	All De D
Motor Serial No	Address PO. BOA. BOO.
Electric Meter No.	Address Pa Bar Boo
	Tenant
Data Program	1
Well Location Map No	Address 78753 W. Huy 58 Date Well Completed 1984
Name	Date Well Completed 1991
W=11.1:	Completed
Heri Location	Remarks
********************************	***************************************
***************************************	*******************************

Plotted: By Date 1985	*******************************
Date1.0.5	***************************************

STATE OF CALIFORNIA THE RESOURCES AGENCY 3NIAL - A

Do Not Fill In

ORIGINAL File with DW2

DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT Jul 3 1 1972 Other Well No. (1) OWNER: (11) WELL LOG: Name S.D. Rosenburg Total depth 320 ft. Depth of completed well ſŧ. Address 3313 - Fircraft Formation: Describe by color, character, size of material, and structure Covina, Ca. 91723 (2) LOCATION OF WELL: Sand, gravel and brown clay. County San Bernardino Owner's number, if any 215 feet to 320 feet (water) Township, Range, and Section T.P. 3N, R 4E, N E1 N E 1, N E1 Coarse sand & gravel laminated in brown elay. Distance from cities, roadt, railroads, etc. S 1 5 acres (3) TYPE OF WORK (check): New Well A Deepening [Reconditioning [Destroying [If destruction, describe material and procedure in Item 11. (4) PROPOSED USE (check): (1) EQUIPMENT: Domestic ٌ Industrial 🗌 Municipal 🗍 Rotary Irrigation | Test Well | Other 🔲 Cable XХ Other (6) CASING INSTALLED: If gravel packed OTHER: SINGLE DOUBLE - -Gage Diameter Fram T'o αf Fram Τ'n Diam. Wall Bore ft. 0 320 8 5/8 10 Size of shoe or well ring: 8 x 8 x 5/8 Size of gravel: But weld (7) PERFORATIONS OR SCREEN: Type of perfuration or name of screen Perf Rowe From To per рег Size ſŧ. row ſr. in. x in. CONFIDENTIAL - NOT FOR PUBLIC RELEASE 220 320 $1/8 \times 6$ (8) CONSTRUCTION: Was a surface sanitary seal provided? Yes X No 🗆 To what depth Were any strata scaled against pollution? Yes [No FX If yes, note depth of strata ft. to ft. l- tum ft. 7/7 Work started 19 72 , Completed 7/21 1772 Method of sealing Back fibl with drilling fluid WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best (9) WATER LEVELS: of my knowledge and belief. Depth at which water was first found, if known Meridian Drilling & Well Supply Standing level before perforating, If known ft. Standing level after perfurating and developing 215 (10) WELL TESTS: Box 489 Address was pump test made? Yes D No K If yes, by whom? id: gal./min. with ft. drawdown after hrz. [SIGNED] Temperature of water Was a chemical analysis made? Yes 🔲 Was electric log made of well? Yes No Y

License No.___

242028

Dated

State of California The Resources Agency DEPARTMENT OF WATER RESOURCES State Well No. 3N /4E _ 9.A-1 B&M

WELL INDEX

County Son Benardino Areal Designation Areal Code No.
Well Condition
Effective date
Original Well Depth
Perf. Aquifer(s) Record: Begins, Ends

Agency Code No	Owner's Name S.D. Rosenburg
Pump Serial No	Address 3313 Fireraft
	Tenant
Data Program	Driller's Name Meridian Drilling + Well Address BOX 489 NAME VALLE VALLE Date Well Completed 21 JULY 1972
Name	Date Well Completed 21 JULY 1972
Well Location	Remarks
Parcel 454 283 20	

ORIGINAL

File with DWR

of Intent No.

STATE OF CALIFORNIA

THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Do not fill in

10. Ub8169 10. NO. Ub8169

Permit No. or Date	Other Well No.
(1) OWNER: Name Dor othy J. Dosch	
Address 50220 Saddle Rock Rd. Box 788A	(12) WELL LOG: Total depth 12/1 ft. Depth of completed well 12/1 ft.
City Yucca Valley, Ca. Zip. 92284	from it. to it. Formation (Describe by color, character, size or material)
6/p =	
(2) LOCATION OF WELL (See instructions):	bor o drayey samu
CountySBOwner's Well Number Well address if different from above	Garage Brazilea B a carrying
T 1: 2M	c onsiderable water
	415 - 424 silty san d
Distance from cities, mads, railmads, fences, etc	
454-542.00 0	- shoe
7=7-077	
(3) TYPE OF WORK	
1 t	
New Well 🔁 Deepening	
Reconstruction	- 1
Reconditioning	
Horizontal Well	1111- 1110
Destruction (Describe destruction materials and	10- 10)
procedures in Item LEX	
(4) PROPOSED DSE	
Domestic	2 (0)
Irrigation	
Industrial	
Test Well	4111 2- 601
Stock	0 0 - 000
Municipit	-6%
WELL LOCATION SKETCH Other	
(5) EQUIPMENT: (6) GRAVEL PACK:	
Rotary Reverse No Size	
Cable	-(AV)-
Other Bucket Parket Hom to 16 (7) CASING INSTALLED: (8) PERFORATIONS:	
The same and the s	<u> </u>
Steel Plastic Concrete Type of perilkation or size of screen	
From To Dia. Gape of From To Slat ft. Vin. Wall ft.	
	-
- 0 421 8) -188 384 4210 hawk sl	ots 3&5 rows
	-
(9) WELL SEAL:	<u>-</u>
	-
-	
Were strata sealed against pollution? Yes NoX Interval ft. Method of sealing	W. b. 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
(10) WATER LEVELS:	Work started 11-1 1980 Completed 11-7 1980 WELL DRILLER'S STATEMENT:
Depth of first water, if known approx 260 ft.	This well was drilled under my jurisdiction and this report is true to the best of my
Standing level after well completion 11 260 ft.	-1
(11) WELL TESTS: Was well test made? Yes [] No XO If yes, by whom?	SIGNED BY SIGNED BY JOINT
Was well test made? Yes ☐ No ② If yes, by whom? Type of test Pump ☐ Bailer ☐ Air lift ☐	NAME McDougalls well Drilling, Inc.
Depth to water at start of testft. At end of testft	(Person, firm, or corporation) (Typed or printed)
Discharge gal/min after hours Water temperature	Address P.O. Box 351
C. al analysis made? Yes No 🙀 If yes, by whom?	city Lucerne Valley, Ca. 92356 zip
Was electric log made? Yes No K If yes, attach copy to this report	License No. 332221 Date of this report 11-7-80
DWR (88 (HEV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE N	EXT CONSECUTIVELY NUMBERED FORM

State of California The Pesources Agency DEPARTMENT OF WATER RESOURCES State Well No. DBN / DHE DG KOI B&M

WELL INDEX

Serial or Ventur Local or Riv. N	a No	Areal Desi Areal Code	County					
Other No	BC 068/69	Mell Collai	tion					
Data Available		ad finder Effective of	lev. date					
		*************	//5//	,				
Water Levels		Original We	ell Depth 424 ings in., Legistan in., Legistan 384	ft.				
Well Use Do	nestic	• • • • • • • • • • • • • • • • • • • •	88-> 384	ngrnrr.				
Well Type N DWR 1058 (Rev. 6/7	က ဖာ	Adulter(s).	egins, End					

Agency Code No	Owner's Name Dorothy J. Dosch
Pump Serial No	Address 5 DZZO Saddle Rock Pd. Box 788A Yucca Valley (A 92284)
	Tenant
Data Program	Driller's Name M.C. Dozgall's New Drilling
Well Location Map No. Name Dig Dassu	Date Well Completed 17-7-80
Well Location	Remarks APN 454-542-04
Plotted: By Date	

33NO4EL IO. STATION NO. THIPLICATE STATE OF CALIFORNIA WELL COMPLETION REPORTED Owner's Copy Page I of 3 Johnson Valley Well 10 Owner's Well No. 2-1-96 Date Work Began No. 500109 4-20-96 , Ended . LATITUDE Local Permit Agency San Bernadino Dept. of Environmental Realth Servicess Permit No. 01319650v

LONGITUDE

PUFII	m (va. <u>_9</u>	13130304 Permit Date 1231296	APACH970IIEI
		GEOLOGIC LOC	WELL OWNER
ORIENTATI	ON (Z)	X VERTICAL HORIZONTAL ANGLE (SPECIFY)	Name BigfHorn-Desert View Water Agency
DEPTH		DEPTH TO FIRST WATER(FL) BELOW SURFACE	Mailing Address P.O. Box 3838 Landers CA 91365-0838
SURF		DESCRIPTION	
FI. Ic	Fl.	Describe material, grain size, culor, etc.	WELL LOCATION STATE FOR
0			
10	20	black clay	Johnson Valley CA 92285
20	30	black clay	County San Bernadino
30	40 :	black clay	APN Paul 454 Paul 301 Paul 35-73
40	50	black clay	APN Book 454 Page 301 Parcel 35-73 Township Range 48 Section
50	60	black clay	I of the last and
60 :	1	black clay	Latifiede DEG. MIN. SEC. NORTH Langitude NEG. MIN. SEC.
70 ;	HO;	black caly	LOCATION SKETCH — ACTIVITY (2)—
80	90	black clay	TIT DEA ARET
90	100	black clay	Old Women Springs Rd. MODIFICATION/AFT/AIR
1.00	110	black clay	CEIVE 6 -Bunning
110	120	black clay	
120	130	black clay	
1.30	. 140	black and gray clay	1 - 6 1990 — DESTROY (Described Procedures and Extraction
140	150	bleek clay	Proandwea and Mitter's Under GFOLOWIC (VS)
1.50	160	black and gray clay	
1.69	170	black grayish clay	≥ MONTOPIN
L/0	180	Dinck clay	
180	190	black clay	X
190	200	black clay	To Public
200	210	black clay	holderlien [
21.0	220	black clay	Cholla Rd. Po Industrial
220	230	blesk clay	
230	240	blenk clay	SOUTH CATHODIC PROTECT
240	250	black clay and a little arnd	Illustrate in Describe Dislance of Well Jiani Landmarks OTHER (Spootly) such as Roads, Ibildings, Feners, Rivers, etc. PLEASE RE ACCURATE & COMPLETE.
250	260	bleak clay and a little sand	PLEASE RE ACCURATE & COMPLETE,
260	270	gritty block clay	DRILLING Direct Rotary FLUID Bon Gol.
270	280	gritty black clay (started sample on god)	WATER LEVEL & VIELD OF COMPLETED WELL
280	290	gritty black clay	WATER LEVEL (FL) & DATE MEASURED 45-96
290	300	gritty black clay	ESTIMATED VIELD • 2.3 (GPM) & TEST TYPE CONSTANT
TOTAL DE	PTH OF BO	DRING (Feet)	TEST LENGTH (Hrs.) TOTAL DRAWDOWN (FL.)
		OMPLETED WELL (Feel)	* May not be representative of a well's long-term yield. (Ft.)
		(111)	оту то съ герняхнитес и а wen з иту-тенн усы.

ДЕРТН FROM SURFACE		BORE-					C	ASING(S)				D	EPTH	{		ANNI	TLA N	M	ATERI	VI.
		HOLE	HOLE	HOLE	HOLE		_	_	(_		MATERIAL/	INTERNAL	GAUGE	SLOT SIZE	FROM SURFACE			TYPE		
FI, lo	FI.	(Inches)	BLARK	SCREE		FIL PIP	GRADE	DIAMETER (Inches)	OR WALL THICKNESS	IF ANY (Inches)	F	FI. 10	Ft.	CE- MENT (ム)	(六) 10MH 10MH	FILL (로)		FILTER (TYPE		
+5!	6501	2011	X	Γ				12"	1/4"	H/A		O	-	50	X	<u> </u>		┪	······································	· ·-
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eno	8401	20"	X					12"	1/4"	N/A			!		i		 	+		
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ATTAGRAENTS (2)	CERTIFICATION STATEMENT
Geologic Log Well Construction Diagram	I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief. Bakersfield Well & Pump Co.
Geophysical Log(s) Solf/Whiter Chemical Analyses	1600 E./California Ave. Bakersfield, CA 93307
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.	Signed M11112 CITY STATE AT 111 4405376
	WILL DRILLER/AUTHORIZED REFERSEMANYC DATE SIGNED C-57 LICENSE MIMBERS SPACE IS NEEDED. USE NEXT CONSECUTIVELY MUMBERS FORM

TRIPLICATE
Owner's Copy
Page 2 of 3
Owner's Well No.

tion recitive mal

STATE OF CALIFORNIA

WELL COMPLETION REPO

Owner's Well No. Johnson Date Work Began Local Permit Agency San Dannit No. 01319650V	Valley Well 10	4-20-96	No. I	5001	.10
Local Permit Agency San	Bernadino Dept.	of Enviro	nmental	Health	Serv
Permit No		rmit Date _	1-31-	96	

OWR USE ONLY DO NOT FILL IN
\ \ <u>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</u>
STATE WELL HO./STATION NO.
LATITUDE LONGITURE

DEFINITION Z X DEFINITION DESCRIPTION DESCRIPT		GEOLOGIC LOG	WELL ARMED	
DESCRIPTION	ONENTATION (스)	X VERTICAL HORIZOHTAL ATIGLE (SPECIFY)	Nome Big Horn-Desert View Water Agen	cy
Survace DESCRIPTION City	DEBTH FROM	DEPTH TO FIRST WATER (FO BELOW SURFACE	Mailing Address	
Fig. 10 11 11 12 12 13 13 13 13	SUNFACE	DESCRIPTION		
Address	Ft. to Ft.	Describe material, grain size, color, etc.		STATE ZII
320 330 Britty gray clay County San Bernadino County San Bernadino ASA 301 302 303 304 305 305 305 305 307 3			Address Airport Ra. & Quail Bush Ra.	
330 340 gray clay 330 gritty gray clay 340 350 gray clay 340 350 gray clay 350	31.0 320	gritty gray clay		
Stop Stop Stap	320 330	; gritty gray clay	County San Bernadino	
Stop Stop Stap			APN Book Page Parcel	73
Stop Stop Stap	340 350	gray clay	Township Range 4E Section 17	
ACTIVITY (2)			Latituda . MORTH Laurituda	WEST
Second S	360 370	gray clay		
380 390 390 370 111	370, 380	gray clay	LOCATION SKETCH	1
April	300 390	grey clay		
\$10 \$40 \$10 \$20 \$10 \$20 \$10 \$20 \$10 \$20 \$10 \$20 \$10 \$20 \$10 \$20 \$10 \$20 \$10 \$20 \$10 \$20 \$10 \$20 \$10 \$20	390 490	gray little chunky clay		i
### ### ##############################	400 410	gray clay		,
440 450 Chin gray clay	B10 420	thin gray clay		Onan (Specify
440	420: 430	gray clay		DESTROY (Describe
A		1 4 4		Procedures and Hot wint
A60	440 450	thin gray clay	<u> </u> ⊢	
470 480 gray milky clay	450 460	gray clny	WES EAS	(<u><</u>)
A80 A90 thick gasy clay	460 470	gray clay		· ·
190 190		gray milky clny		Damestic
Sol Sto Gray clay Sto Gray clay Sto Sto Gray clay Sto Sto Sto Gray clay Sto Sto Gray clay Sto Gray clay clay Sto Gray clay clay Sto Gray clay clay clay clay Sto Gray clay clay clay clay clay clay clay cl	<u> </u>			l
Since Sinc		1 0-33		frigation
SOUTH SOUTH SOUTH CATHODIC PROJECT SOUTH South as Bloads, Ruildings, Fences, cir. SOUTH SOUTH STATE SOUTH				Industrial
SOUTH SOUTH CATHODIC PROTECTION SOUTH CATHODIC PROTECTION STATE SOUTH	li	to-the-the-the-the-the-the-the-the-the-the		"TEST WELL"
Stop Stop Stay		D/		CATHODIC PROTEC
Substitute Sub			Illustrate at Describe Distance of Well from Landmorks	
DRILLING	<u> </u>	<u> </u>	such as Roads, Ruildings, Fences, Rivers, etc.	
STO STO STREY DIGITAL BANG	550 569	gray clay/little silty sand		
WATER LEVEL & VIELD OF COMPLETED WELL				
Section 1970 Gray bluish sand WATER LEVEL (FL.) & DATE MEASURED	570; 580	gray bluish sand		LETED WELL -
TOTAL DEPTH OF BORING (Feet) ESTIMATED YIELD (GPM) & TEST TYPE (FIL)	580 590	gray bluish sond		D
TOTAL DEPTH OF BURING (Fed) TEST LENGTH (Hrs.) TOTAL DRAWDOWN (FL)	590¦ 600	gray bluish sand		
TOTAL DEPTH OF COMPLETED WELL, (Feet) . "May not be representative of a well's long-term yield.	TOTAL DEPTH OF	BORING(Frei)	1	
	TOTAL DEPTH OF	COMPLETED WELL (Feet)	* May not be representative of a well's long-term yield.	

DEPTH	BORE-		CASING(5) DEPTH A						ANNULAR MATERIAL								
FROM SURFACE	HOLE DIA.	_		12		MATERIAL/	IIITERNAL	GAUGE	SLOT SIZE	FROM	SU	RFACE	CE-	BEN-	TY	'PE	
Ft. to Ft.	(Inches)	BLANK	SCREE	CON-	FEL PIP	GUVDE	DIAMETER (inches)	OR WALL THICKNESS	IF ANY (Inchen)	Ft.	to	FI.		10mmc (二)	FILL (ニ)	FILTER CA (1 YEF RIZ	(1) ZE)
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—— ATTAGHAIENTS (≥) ———	CERTIFICATION STATEMENT —
Goologic Lop	i, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
Well Construction Diagram	NAME Bakersfield Well & Pump Co.
Geophysical Log(s)	
Soil/Water Chemical Analyses	1600 E. California Ave. Bakersfield, CA 93307
Other	
TACH ADDITIONAL INFORMATION, IF IT EXISTS.	Signed VILL DRILL CRAUHUMIZED REPRESENTATIVE DATE SIGNED CASE THE PROPERTY OF THE STATE OF THE PROPERTY OF THE STATE OF TH

TRIPLICATE Owner's Copy

STATE OF CALIFORNIA

WELL COMPLETION REPO

1	JV.	T.T		لدندا	. ⊥ ν	/LY	TITL
Re	/er i	o 1	un	ucti	nn l	am.	pbler

Page _3 of 3 Owner's Well No. Johanon Will 10
Data Work Borgan 2-1-96

4-20-96 ate Work Began 2-1-96 , Ended 4-20-96 UULLL
Local Permit Agency San Bernadino Dept. of Environmental Health services Date Work Began_ Permit No. 01319650V 1-31-96 Permit Date

DWR USE ONLY - DO NOT FILL IN								
STATE WELL NO./STATION NO.								
LATITUDE LONGITUDE								
APMITHSINIHER								

	GEOLOGIC LOG	WELL OWNER
ORIENTATION (८)	X VERTICAL HORIZONTAL ANGLE (SPECIFY) DEPTH TO FIRST WATER (FL) BELOW SURFACE	Name Big Horn-Desert View Water Agency Mailing Address
DEPTH FROM	1	With the American
SURFACE	DESCRIPTION	CITY STATE 7/0
Fl. lo Fl.	Describe material, grain size, color, etc.	WELL LOCATION
600 610		Address Airpoet Rd. & Quail Bush Rd.
610 620	grny clay	City
620 630	gray clay	County San Bernadino
630; 640	gray clay	APN Runk 454 Page 301 Paged 35 73
640, 650	gray clay	APN Book 454 Page 301 Parcel 35 73 Township Range Section 17
650 660	gray clay	Township nange beetion
660 670		Latitude nen mu sec norm Longitude nen mu sec veri
[ı	1 2 2	LOCATION SKETCH ACTIVITY (<)
670; 680		NORTH
600 690		MODIFICATION/GETAIR
690 700	gray ciny	
700 710	gray caly	Despuis Other (Specify)
710 720	gray alushy caay	— rittor (sheart)
720m 730	gray slushy clay	
730 . 740	gray clay	DESITION (Percenter Procedures and Materials
740 750	gray clay/little dand	Under "GEOLOGIC LUS")
750; 760		PLANNED USE(S) (年)
i		
760 770		WATER SUPPLY
770: 780		Domestic
780; 700	gray cloy/alot of sand	<u> </u>
790 800	gray clay/alot of mand	Pablic
800; 810	gray clay/alot of dend	1
810, 820		Industrial
820 830	gray clay lots of send	"TEST WFLL"
830! 840		SOUTH — GATHOUIC PROTES
830; 840		Illustrate or Describe Distance of Well from Landmarks
		such as Roads, Bulldings, Fenres, Bivers, etc. PLEASE BE ACCIVIATE & COMPLETE,
i		Charles III. (Colonial), a Carpi (anta)
1		DRILLING METHOD FLUID
1	1	WATER LEVEL & VIELD OF COMPLETED WELL
		DEPTH OF STATIC
		WATER LEVEL (FI.) & DATE MEASURED
	t	ESTIMATED YIELD (GPM) & TEST TYPE
TOTAL DEPTH OF	BORING (Feet)	TEST LENGTH (Hrs.) TOTAL DRAWDOWN (FL)
	COMPLETED WELL, (Feet)	
TOTAL DEPTH OF	COMPLETED WEEL (FPC)	* May not be representative of a well's long-term yield.
	CASING(S)	ANNULAR MATERIAL

		EPTH		BORE-	CASING(S)				DEPTH			ANNULAR MATERIAL							
FAC	OM	SUAI	ACE	HOLE DIA,			<u> </u>		MATERIAL/	INTERNAL	GAUGE	SLOT SIZE	FRON	f SUI	FACE	CE-	BEN-	11	PE
Fl	l .	10	F1.	(inchas)	BLANK	SCHEE	CLEAT	FILL PIPE	GRADE	DIAMETER (Inches)	OR WALL THICKNESS	IF ANY (Inches)	FI,	la	FI.	MENT	10Mite (二)	FILL (ニ)	FILTER PACK (TYPE/SIZE)
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──── ATTAGHMENTS (ヱ) ────	CERTIFICA	FION STATEMENT —	
Goologic Log Well Construction Dingram	i, the undersigned, certify that this report is compt NAME Bakersfield Well & Pu		and belief,
Geophysical Log(s) Soil/Water Chemical Analyses	1600 E. California Ave.	Bakersifeld, CA 9330	7
Other	ADDITES ALL STATES	CITY STATE 44	0537
ATTACH ADDITIONAL INFORMATION IF IT EXISTS.	Signed WELL DRILLER/AUTHORIZED REPRESENTATIVE	DATE SIGNED C-57 LIC	ENSE NUMBER

Appendix B

JVTW1 Well Completion Report and Construction Information

	The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. State of California														
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	Other	ation Wit o	ซ์สเร	——-	Signed	C-57 Lins	ensed Water W	fell Contra		مودسي	_	02/08/2		1591	
Allach pddillonal Information, if it exists. C-57 Licensed Water Well Contractor DWR 188 REV. 1/2006 IF ADDITIONAL SPACE IS NEEDED LISE NEXT CO.								Date Sig	neo C-5.	/ Licen	se Number				

Roscoe Moss Company

We Make Water Work Worldwide

4360 Worth St.

Los Angeles, CA 90063, U.S.A. Phone: (323)263-4111 Fax: (323)263-4497

January 25, 2012

Norcal Pump and Well Drilling, Inc. 1325 Barry Road Yuba City, CA 95993

Attn: Harri Heer

Re: Yucca Valley Test Well

Casing Submittals

Please accept this letter as our Submittal for the Casing Materials required for the above referenced job. Roscoe Moss Company will supply the following:

- 1. 8 5/8" OD X .188" Low Carbon Steel, Blank Casing. Well casing shall be manufactured in accordance with applicable parts of ASTM A 139-B. Welding shall be by the automatic submerged-arc process using at least one pass on the inside and one pass on the outside. Steel from which the casing is manufactured shall be low carbon steel. Casing shall be 8 5/8 inches outside diameter and .188 inches in wall thickness.
- 2. <u>8.625" OD Low Carbon Steel Continuous Wire Wrap Screen</u>. Well screen shall be manufactured in accordance with the aforementioned casing requirements:

Screen Details

Nominal Diameter (in.)	8.63
Screen length	10' or 20'
Slot size (in.)	0.040
Wire width (in.)	0.146
Wire altitude (in.)	0.215
Wire base (in.)	0.040
Rod diameter (in.)	0.177
Rod count (ea)	44
Weight (lb/ft)	13.84
Length of weld ring (in)	14.00
Collapse strength (psi)	414
Safe hanging weight (lbs)	11,362
Transmitting capacity @0.1	
(gpm/ft)	21.79
Transmitting capacity @1.5	
(gpm/ft)	326.92
Open area (%)	21.51
Open area (sq. in.)	70

Actual mill certifications can be supplied with the delivery of your order, by request. Roscoe Moss certifies that the products listed meet all manufacturing requirements as set forth in the project specifications. If you have any questions please don't hesitate to call.

Best Regards,

Walter Genie Inside Sales Manager



SRI SUPREME

DATE

OPENING MICRON	OPENING INCHES		% RET.	% RET.	%.RET.	% RET.	% RET.	% RE
		BIEVE	3/4	6/8"	1/2"	3/8"	1/4"	#6
37500	1.5	1 1/2"		·	· · · · · · · · · · · · · · · · · · ·			
25000	1	1"	0.0%	· · · · · · · · · · · · · · · · · · ·				
19000	0.75	3/4"	13.6%		<u></u>		· · · · · · · · · · · · · · · · · · ·	
16000	0.625	5/6"	52.4%	0.0%	· •			
12500	0.5	1/2	93.0%	3.4.5.	D,8%	0.0%		
8500	0.375	3/8"	99,6%	75,4%	34.7%	28.0%		(3:10
6800)	0.25	1/4"		98.6%	P9.6%	89.0%	0,1%	
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4000	0.467	#5	<u> </u>	· · · · · · · · · · · · · · · · · · ·		-	48.0%	2.7%
3350	0,132	. #6					85,0%	22.4%
2800	0.13	47					95.0%	67.5%
2350	0.0937	#8					99.0%	B7.3%
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SRI SUPREME

DATE:

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16000	0.625	5/8"						
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8500	0.25	1/4"						
1750	0.187	#4		1		1		
4000	0.157	#5				1		
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850	0.0331	#20		95.2%	48.3%	7.8%		j
710	0.0278	#25		100.0%	75.8%	37.8%	0:0%	
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COMMENTS:	

ONTARIO VICTORVILLE SAN BERNARDINO	County of San Bernardino DEPARTMENT OF PUBLIC HEALTH ENVIRONMENTAL HEALTH SERVICES RECEIPT FOR SERVICES	RECEIPT # 96627
DATE 1/9 12012 s	SUPERVISORIAL DISTRICT (circle one) 1 2	3 4 5
RECEIVED BY UMANCE	Stringer	PAID BY
ADDRESS 6020 A	phansa Associates INC	CASH 5
CITY ST ZIP AIDL GULTGE	R MM 87/09	CHECK (# 9/248) \$26980 TOTAL \$269
DESCRIPTION_UEL A	PN 045418105	
FACILITY NO CITY CODE	QTY P/F SD#	
04841810S	452054046 550E	REVENUE AMOUNT 9800 XG
510123 Receipt for Services.INDD 49 01-16858-611 Rev. 9/05		TOTAL \$26900
5100.008.H62	DISTRIBUTION: While - Customer Canary - I	FAS Green - FAS Pink - Office

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Permit Number 2012010023 Record ID WP 7803 Expiration 09-10-12 FF	of San Bernardino IT OF PUBLIC HEALTH TAL HEALTH SERVICES whead Ave., 2nd Floor rdino, CA 92415-0160 199) 884-4056 bcounty.gov/dehs L PERMIT lease Print) Do NOT FILL IN Date 0/- 0 9 - /2 Amount \$ 26 9 - Check # 9/2 4 8 Receipt Number 96627 Paid by DANIEL STEPHOUS! ASC City Code PS				
1. OWNER: Name Bighorn Desert View Water Agency Site Address SO JOSHUA TREE RD City Yucca Valley Zip 92284-1440 Mailing Address 622 S Jemez Trail City Yucca Valley Zip 92284-1440 Telephone Number (760) 364-2315	Items 6 through 9 to be estimated for new wells, exact for all other wells 5. ANNULAR SEAL: Seal Depth 50 ft. Furnished by: □ Owner M Contractor □ Driven Comductor Dia. □ in., Wall (Gage) M Sealing Material Cement/Grout, Thickness 2 in. 6. DEPTH OF WELL (feet): Proposed 450 Existing □ DIAMETER OF BORE (in.):				
2. WELL DRILLER: Nor-Cal Pump & Well Drilling, INC. Business Name O1/16/2012 O2/03/2012 Start Date Completion Date 3. INTENDED WELL USE (check): Agricultural Horizontal Market Test Cathodic Monitoring/Observation Dairy Ind/Domestic Community/PWS/City Other	7. CASING INSTALLED: **N Steel				
4. TYPE OF WORK (check): ☑ New ☐ Reconstruction ☐ Destruction	9. SEALED ZONES (if applicable): From to ft.				
SECTION MAP - DO NOT FILL IN Scale: 1 inch = ½ n JOSHUA REE NW NE V OCOTILL KD	(a) TOWNSHIP: Tier 03 NS Range 04 EW Section 16 (b) Assessor's Parcel No. 045418105 - 0000 (c) Latitude and Longitude Lat: 34 °, 21 ', 08.95 "NS Long: 116 °, 34 ', 17.44 " N/S (d) Solid or Liquid Disposal Site within Two Miles Yes Ø No Location				
7	DO NOT FILL IN				

Сар ____

Tag ____

Check Valve ____

Electricals _____

Building & Safety Notified

SE 14

sw ¼

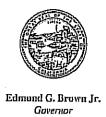
Assesso	r's Parcel No. 045418105	5-0000	11. PLO	
		N	(a)	In perspective to the well site, sketch and label the following items: well lot properly lines, other wells (include abandoned wells), sewage disposal systems (sewers, septic tanks, teaching fields, seepage pits, cesspools),
			(b)	lakes and ponds, watercourses and animals or fowl kept. Indicate the distance, in feet, of any of the following which are within 500 ft. of the well site:
w		Well * Site		Other Sewers Septic tanks Leaching fields Seepage pits Cesspools Lakes and ponds Watercourses Animal or fowl kept
Scale: % in:	ch = 100 feet	S		(c) 🗵 None of the above are within 500 feet of the well site.
	ve read this application and agree			
C-57	7 Contractor's Signature		HEER,	
Cou	nty Registration No3	42c	elifomia Lice	nse No. # 908591 <57,661, D21
		DISPOSITION OF P (For Department Use		
☐ Water ☐ Denie		tions attached.		
	ved subject to the following:	E-Dill Wil D	D	
A.☑	Notify the Department, Sa to make an inspection of the follow	ife Drinking Water Program, (90	9) 387-4666	twenty-four (24) hours in advance
	Prior to sealing of the annular	- <i>'</i>	casing.	
	After installation of the surface	e protective slab and pumping e	quipment.	
	During destruction of wells, pr			
8.☑	Submit to the Department, within		of work, a co	opy of:
	Water Well Driller's Report	☐ Bacterial Analysis ☐] Inorganic	Chemical Analysis
	Radiological Analysis	☐ General Mineral ☐	Organic C	hemical analysis General Physical
Comments	WELL NOT APPROVED F	OBIISE		· · · · · · · · · · · · · · · · · · ·
	WITH SOLAR PANEL			
	SOLAR PANEL PROJE			FERROR MAN II CO. IN INCO.



Matthew Rodriquez Secretary for Environmental Protection

California Regional Water Quality Control Board Colorado River Basin Region

73-720 Fred Waring Drive, Suite 100, Palm Desert, California 92260 (760) 346-7491 • FAX (760) 341-6820 http://www.waterboards.ca.gov/coloradoriver



September 19, 2011

Marina Dee West, General Manager Bighorn Desert View Water Agency 622 S. Jemez Trail Yucca Valley, CA 92284

Dear Ms. West:

SUBJECT: NOTICE OF APPLICABILITY FOR STATEWIDE GENERAL WASTE

DISCHARGE REQUIREMENTS FOR DISCHARGES TO LAND WITH A LOW THREAT TO WATER QUALITY, BOARD ORDER NO. 2003-0003-

DWQ(25)

Regional Water Board staff has reviewed your Notice of Intent (NOI) requesting enrollment under State Board General Waste Discharge Requirements Order No. 2003-0003-DWQ for discharges from test well drilling and development. The project, described as a monitoring and production test well, is located at Larrera Road and Joshua Tree Lane, Johnson Valley, San Bernardino County, T3N, R4E, Section 16 SBB&M, Assessor's Parcel Number 454-181-06. The land owner is identified as Bighorn Desert View Water Agency.

The Water Quality Control Plan for the Colorado River Basin (Basin Plan) designates Beneficial Uses, establishes Water Quality Objectives and contains implementation programs to achieve those objectives. Board Order 2003-0003-DWQ designates prohibitions, discharge specifications and provisions to ensure compliance with those objectives.

The Regional Water Board finds that your project meets the requirements for enrollment under the subject Order. This letter constitutes your Notice of Applicability.

Sincerely,

Robert Perdue Executive Officer Colorado River Basin

Regional Water Quality Control Board

JC/tab

File: WDID 7A 36 0121 001, Bighorn Desert View Water Agency, 03-03-DWQ(25)

California Environmental Protection Agency

Bighorn-Desert View Water Agency

Board of Directors

Terry Burkhart, President Michael McBride, Vice President David Larson, Director Judy Corl-Lorono, Director J. Dennis Staley, Director



Agency Office 622 S. Jemez Trail Yucca Valley, CA 92284-1440

> 760/364-2315 Phone 760/364-3412 Fax

Marina D West, F.G., General Manager

A Public Agency

www.bdvwa.org

March 29, 2012

Ms. Maribel Rodriguez
Colorado Regional Water Quality Control Board
73-720 Fred Waring Drive, Suite 100
Palm Desert, CA 92260

RE:

2012 1st Quarter Monitoring Report Bighorn-Desert View Water Agency APN 454-181-06 Board Order No. 0303DWQ25 WDID 7A 36 0121 001

Dear Ms. Rodriguez:

During the 1st Quarter of 2012 the Agency did complete the drilling and construction of a test well at the location of the permitted facility. Unfortunately, the completed well yield was extremely low (< 1 gpm) and the project was halted. Therefore, there were no discharges from the permitted facility.

This is the final report for this permitted facility. Please let me know if you require any further information.

Sincerely,

Marina D. West, PG General Manager

Appendix C

JVTW1 Geologist Log

Joshua Tree Ros

Johnson Valley Test Well 1

Daniel B. Stephens & Associates, Inc. JN WR11.0186.00





Johnson Valley Test Well 1



J:\Projects\WR11,0186 Bighom\Fleid Docs\

Johnson Valley Test Well 1

Drill Rig: TH 60 IR

Date completed: 01-28-12

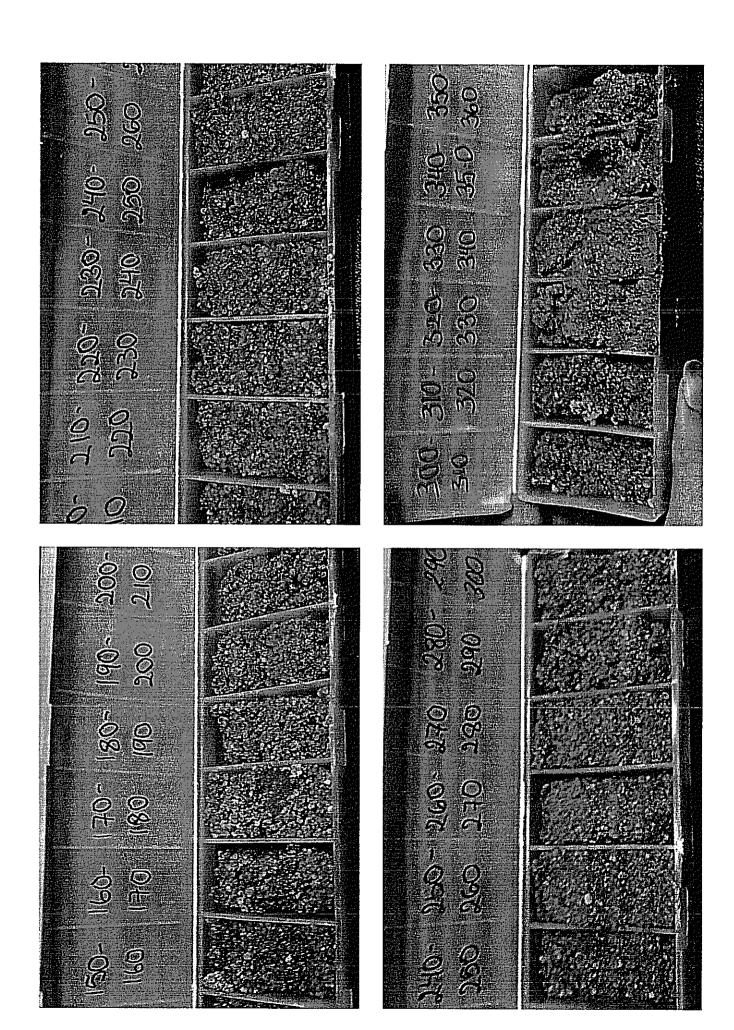
Bit diameter: 7 7/8"Tricone cone bit, reamed with 16" Tricone bit to 354' bgs



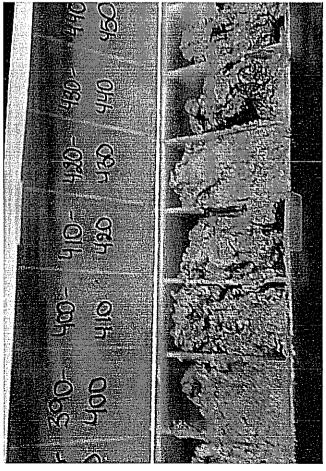
Longitude: 116°34'14.5" W

Johnson Valley Test Well 1









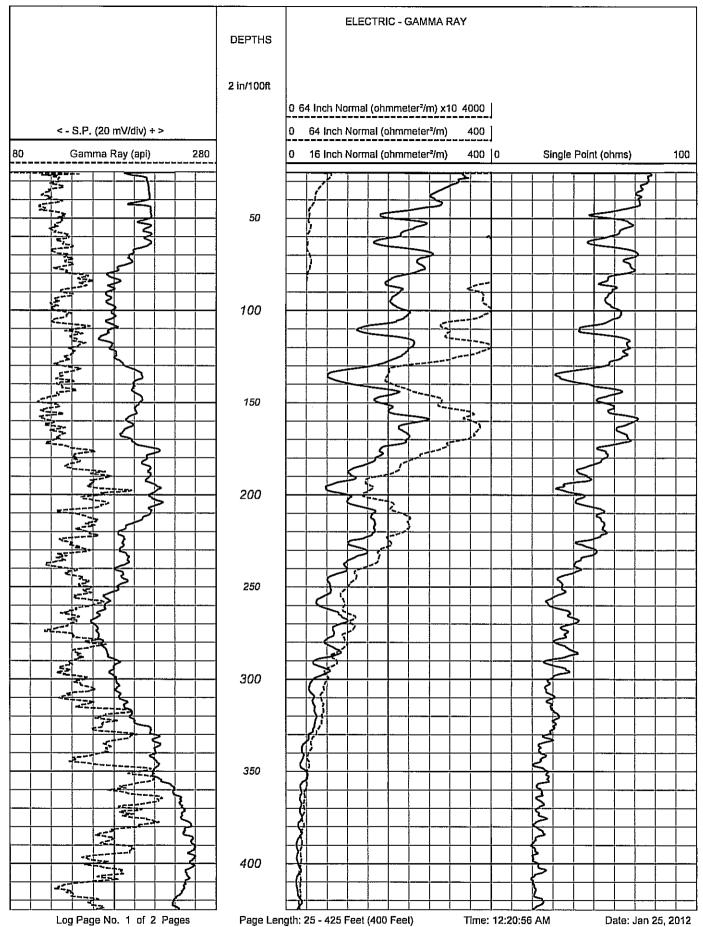
Appendix D JVTW1 Geophysical Logs

-	
elen	CO

5201 Woodmere Drive, Bakersfield, CA 93313-- www.welenco.com--(800) 445-9914 California Contractor's License No. 722373

		EL	ECT	R	IC - G	AM	M	4 RAY				
FILING NO.	COMPA	ANYD	aniel B	Ste	vens and A	ssocia	tes					
	WELL	J	Johnson Valley Test Well No 1									
:	FIELD	L	anders									
	1	_	aliforni	_				San E	Bernardino			•
	STATE		amom	a		col	YTY	, San E				-
	LOCATIO	N;								other service landuction L		
	50083 J	loshua T	ree Ro	ađ							•	
JOB NO.	-											
15321	SEC: 16	TWD: 3N	pos. 4	4E	LAT - 34° 21'	15.0"	LONG	· 116° 34' 14] MERINIA	N.: San Berr	nardino	
Permanent Dat	•	Ground								Elev.: K.B		
Log Measured		Ground						e Perm. Da				
Drilling Measu		Ground	Level		,						3112	
Run		One								T -		
Date		Jan. 24	2012									
Depth-Driller		460		Ft			Ft		F			F
Depth-Logger		459		Ft			Ft		F			F
Top Logged Inte	erval	30		Ft			Ft		F	4		F
Btm. Logged In	erval	458		Ft			Ft		F	t .		F
Casing-Driller		NA Ir	1@	Ft	lı lı	1@	Ft	tn	@ F	<u> </u>	n @	F
Casing-Logger			1 <u>@</u>	Ft		1@	Ft	<u> </u>	@ F		n @	F
Bit Size Time On Botton	_	7.875		ln			In		1r			In
Type Fluid In He		1120 pr Benton										
	osity	Denton									1	
pH Fluid	d Loss			ml			ml		m	1		m
Source of Sample		Pit	<u> </u>			·						
Rm @ Measured To	emp.	12.70	<u>a</u> 75	٩F		<u> </u>	٩F	(0) "!	= (<u> </u>	°F
Rmf @ Measured T	emp.	11.30	₁₀ 75	°F		<u>)</u>	₽F	(0) "I	. (<u> </u>	٩°
Rmc @ Measured 1	Temp.	(9	°F		2 0	۴	6) "I	- (@	°F
Source Rmf F	Rmc .	Meas				<u> </u>				ļ		
Rm @ BHT			<u> </u>	°F		9	۰F	@		<u></u>	<u> </u>	°F
Time Since Circ		.25		H			Hr		Н	1		Н
Max. Rec. Temp		NA LV3	l L.A.	*F		1	٩۴		<u>°</u> [1	Т	*F
Recorded By	IIIOI I	Ozman		•	-	<u> </u>						
Witnessed By		Diana N										

Miccellanceus Information
Miscellaneous Information
A recreational GPS accurate to +/- 45 feet set for Datum NAD27 was used to calculate
Latitude, Longitude & Elevation values. The Section, Township, and Range then determined using the TRS program (TRS accuracy is not guaranteed). The TRS
program converts Latitude and Longitude to Section, Township, and Range. The
NOTICE at the bottom of this heading also applies.
NOTICE
All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule. Welenco, inc. January 25, 2012



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 VV	CI	e			U

5201 Woodmere Drive, Bakersfield, CA 93313-- www.welenco.com--(800) 445-9914 California Contractor's License No. 722373

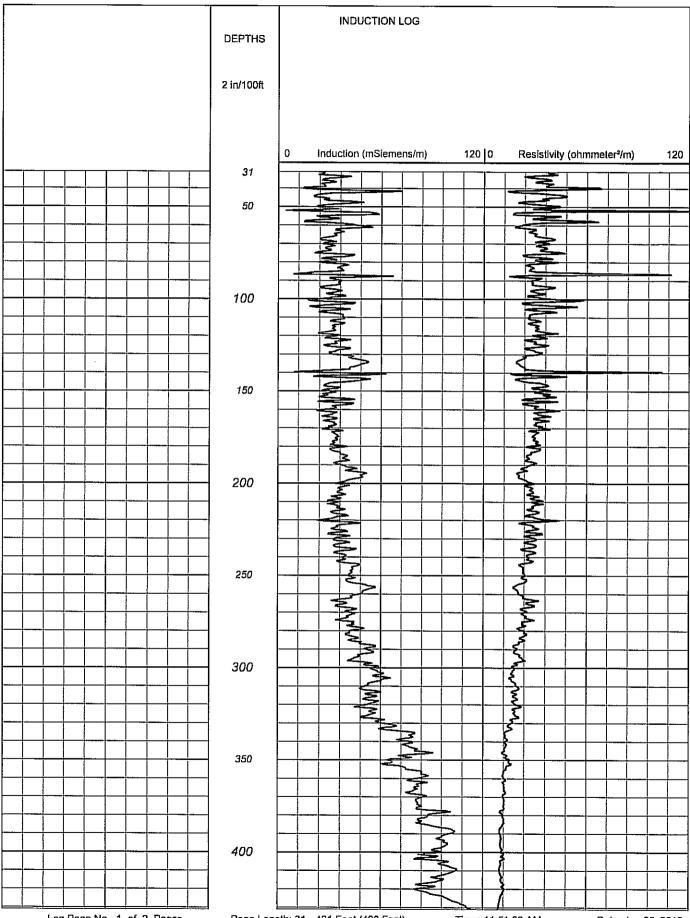
		C.	morma	V	intractor s	LIC	ense r	10. /223/	J				
				D	UCTIO	ON	I LC)G					
FILING N		MPANY	Daniel B	Ste	vens and A	Asso	clates						
	WE		Johnson	Va	lley Test W	ell N	lo 1			•	_		-
	***	<u></u>					-	<u>-</u>					-
	FIE	LD	.anders										_
	STA	NTE	Californi	а		с	CTNUO	San	Bernai	dino			_
	LOCA	ATION:								01	HER SERVIC	ES:	
	5008	33 Joshua	Tree Roa	ď						E	log		
				_									
JOB NO	1												
15321	SEC: _1	6 TWP: 3N	RGE:_4	E	LAT.: 34° 21'	15.0	<u>"</u> LONG	<u>.: 116° 34' 1</u>	<u>4.9"</u> ме	RIDIAN.:	San Berr	ardino	
Permanen	it Datum:	Groun	d Level				Elev	3112	F	t. El	ev.: K.B		Ft.
Log Meas	ured From:	Groun	Level		0	F	t. Abov	re Perm. D	atum		D.F.		_ _Ft.
Drilling Mo	easured Fro	m: Groun	d Level							_		3112	
Run		One											
Date		Jan. 24	, 2012										
Depth-Drill	er	460		Fŧ			Ft			Ft			Ft
Depth-Log	ger	459		Ft			Ft			Ft			Ft
Top Logge	d Interval	30		Ft			Ft			Ft			Ft
Btm. Logge	ed Interval	458		Ft			Ft		••	Ft			Ft
Casing-Dri	ller	NA I	n @	Ft	i	n @	Ft		n @	Ft	lt	n @	Ft
Casing-Log	gger	I	n @	Ft	t.	n @	Ft		n @	Ft		1@	Ft
Bit Size		7.875		In			ln			1n			ln
Time On B		1200 aı	п										
Type Fluid	In Hole	Bentor	ite										
Density	Viscosity												
рH	Fluid Loss			ml			m!			ml			ml
Source of Sa	mple	Pit											
Rm @ Measu	red Temp.	12.70	~	٩F	(<u> </u>	٩F	(<u> </u>	°F	(6	<u> </u>	٩
Rmf @ Meas	ured Temp.	11.30	<u> 75</u>	°F	(2)	°F		<u> </u>	°F_	@	<u>)</u>	°F
Rmc @ Meas	ured Temp.		<u> </u>	۴	@	2)	°F		2	°F	@	<u>)</u>	٩F
Source Rmf	Rmc	Meas	<u> </u>							_			
Rm @ BHT	0:		<u> </u>	°F	@	<u> </u>	•F	(<u> </u>	"F	æ	2	٩F
	Circulation	.25		Hr			Hr		_	Нг			Hr
Max. Rec. Van No.	<u> </u>	NA UVO		*F		ı	ª F		· ···	°F			۴F
Recorded E	Location	LV3	L.A.						L				
Witnessed		Ozman											
A AITH ICOOCH	LLY.	Diana N	viedina							1			

Miscellaneous Information
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NOTICE

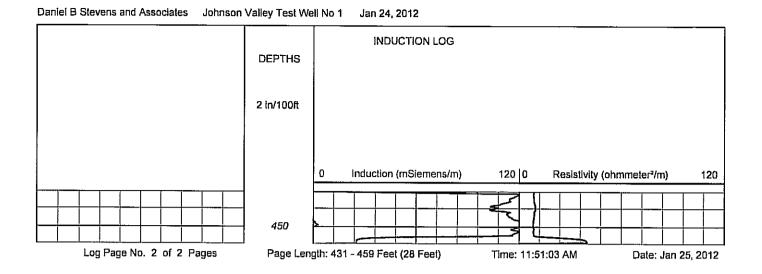
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Welenco, inc. January 25, 2012



Log Page No. 1 of 2 Pages

Page Length: 31 - 431 Feet (400 Feet)



BIGHORN-DESERT VIEW WTR AGENCY CHECK REGISTER MARCH 31, 2012

CHECK#			AMOUNT
10765	03/15/12	ERBY L MC FALL UNCASHED CHECK - VOID	-103.07
11982	03/08/12	BDVWA BALANCE RFND ACCT# 8007203	14.26
11983	03/08/12	MARGARET SHAFFNER	
11997	03/15/12	BALANCE RFND ACCT# 07-0380-7 * VOID *	65.41
11998	03/16/12	CYBERSPIKE WEBSITE MAINTENANCE	612.50
11999	03/16/12	DANIEL B STEPHENS & ASSOC, INC JVHI 12/01/12-01/28/12	17,768.08
12000	03/16/12	ERBY L MC FALL REISSUE BALANCE REFUND	103.07
12001	03/16/12	GOODSPEED DISTRIBUTING INC UNLEADED FUEL	1,953.88
12002	03/16/12	GOVT FINANCE OFFICERS ASSOC	
12003	03/16/12	GFOA REVIEW FEE BALANCE THE HOME DEPOT #6971	580.00
12004	03/16/12	MTG OFFICE MAINTENANCE INLAND WATER WORKS	38.92
12005	03/16/12	INVENTORY MAID TO ORDER	95.36
		SVC JEMEZ SVC JEMEZ & MTG RM 2	
		SVC JEMEZ SVC JEMEZ & MTG RM 2	442.00
12006	03/16/12	McCALL'S METERS, INC TEST TAMPERED METER, BILLED TO	
12007	03/16/12	CUSTOMER PITNEY BOWES PURCHASE POWER	40.53
12008	03/16/12	MAILING FOR W1 PROTECTION ONE ALARM MONITORNG	500.00
		OFFICE 2ND QTR SHOP 03/26/12-04/25/12	184.52
12009	03/16/12	QUILL OFFICE SUPPLIES	75.41
12010	03/16/12	SDRMA SDRMA MEDICAL BENEFITS	, , , , , ,
12023	02/20/12	APR-JUN WORKERS COMP	7,882.10
	03/29/12	BDVWA PAY TOWARD BALANCE 11-0229-7	20.73
12024	03/29/12	CRAIG SCOTT HURD BALANCE RFND ACCT# 0707715	14.64
12025	03/29/12	DONNA SMITH BALANCE RFND ACCT# 1003174	117.58
12026	03/29/12	ETHAN WICHITA BALANCE RFND ACCT# 0406807	8.44
12027	03/29/12	JOYCE V SURVIVOR TRUST WOHLER BALANCE RFND ACCT# 1003108	30.72
12028	03/29/12	LANCE JONES	JU. 72

BIGHORN-DESERT VIEW WTR AGENCY

CHECK REGISTER MARCH 31, 2012

CHECK#	DATE	MARCH 31, 2012 PAYEE & DESCRIPTION	AMOUNT
		BALANCE RFND ACCT# 1102298 LAURA HARRIS	17.71
12030		BALANCE RFND ACCT# 0206815 LIZA DIGALIZA	7.98
12031	03/29/12	BALANCE RFND ACCT# 0409307 BARR LUMBER CO INC FIELD MATERIAL	57.79
12032	03/29/12	WATER SYSTEM REPAIR CA SPECIAL DISTRICTS ASSN	56.24
12033	03/29/12	WEBINAR 700, PRES MCBRIDE CLINICAL LABORATORY OF GEN PHYSICAL, PLATE CT, BACT TEST PLATE CT, BACT TEST	69.00
12034	03/29/12	URANIUM, GROSS ALPHA, PLATE CT BACT TEST, GEN PHYSICAL DATASTREAM BUSINESS SOLUTIONS	673.00
12034	03/29/12	SOFTWARE MAINT 4/01/12-6/30/12	645.00
		WATER SYS FEE 070111-123111	1,134.00
12036	03/29/12	DISCOUNT TIRE CENTERS '10' RANGER 39128 OIL CHG, BRAKES, FUEL SYSTEM & ALIGNMT '10' RANGER 39127 OIL CHANGE, BRAKES & SHOCKS	1,341.02
12037	03/29/12	FIRST NATIONAL BANK OMAHA MULTIPLE REG FEES-EDUCATION WATER ED FOUNDATION SEMINAR, MISC MAILING, OFFICE SUPPLIES LAFCO MTG LUNCH, PROP 218 LNCH	·
12038	03/29/12	DATASTREAM PRINTER THE HOME DEPOT #6971 SMALL TOOLS	2,435.71
12039	03/29/12	FIELD MATERIALS INLAND WATER WORKS WATER SYSTEM-GAUGES PRV#14 INVENTORY PRV STATION PARTS	164.31
12040	03/29/12	PRV STATION PARTS OFFICE DEPOT	757.77
12041	03/29/12	OFFICE SUPPLIES QUILL	360.90
12042	03/29/12	OFFICE SUPPLIES SOUTHERN CALIFORNIA EDISON	60.33
12043	03/29/12	POWER EXP BEF 2012 STATE WATER RES CONTROL BOARD FILING FEE - NOTICE OF GROUND-	5,289.33
12044	03/29/12	WATER EXTRACTION VERIZON CALIFORNIA	400.00
12045	03/30/12	OFFICE PHONES & AUTO CONTROLS JOHN BLUCKER	43.60
12046	03/30/12	REFUND BLUCKER ANNEXATION E & J LOCKSMITH LOCKS	7,388.48 42.67

BIGHORN-DESERT VIEW WTR AGENCY

CHECK REGISTER MARCH 31, 2012

CHECK#	DATE	PAYEE & DESCRIPTION	AMOUNT
12047	03/30/12	HERCULES INDUSTRIES, INC. WATER SYSTEM - LOCKS	313.96
12048	03/30/12	THE HOME DEPOT #6971 FRONT OFFICE REPAIR	3.01
12049	03/30/12	J&G ELECTRIC EXIT SIGNS OFFICE SAFETY SDRMA	
		RECOMMENDATION	585.59
12050	03/30/12	MAID TO ORDER SVC JEMEZ	68.00
12051	03/30/12	VERIZON CALIFORNIA OFFICE PHONES & AUTO CONTROLS	543.99
		TOTAL	52,904.47
			==,,,,,,,

Prepared By 18
Date 4/16/12
Reviewed Www.

PAGE 3

GENERAL FUND

ASSETS	
CASH & CASH EQUI	VALENTS
01 13120	CASH UNION BANK OF CA 34,770.33
01 13130	CASH CASH DRAWERS BASE FUND 750.00
01 13400	CASH PETTY CASH FUND 800.00
TOTAL CA	SH & CASH EQUIVALENTS 36,320.33
INVESTMENTS	
	CASH LAIF-UNRESTRICTED 898,068.98
01 13307	LAIF-CUSTOMER DEPOSITS 50,000.00
moma r	
TOTAL IN	VESTMENTS 948,068.98
ACCOUNTS RECEIVA	BLE. WATER
01 13710	A/R WATER 131,753.31
	2009-2010 LIEN RECEIVABLE 23,798.91
	2010-2011 LIEN RECEIVABLE 26,356.69
TOTAL AC	CTS RECEIVABLE, WATER 181,908.91
ACCOUNTS RECEIVA	HLE, OTHER
01 13901	CUSTOMER UPGRADE 629-342-47 (845.76)
TOTAL AC	CTS RECEIVABLE, OTHER (845.76)
TATIONATED	
INVENTORIES	THURSDAY WARRED CHARRY DANNE CA COS OF
01 14201	INVENTORY-WATER SYSTEM PARTS 61,620.28
TOTAL IN	
1017111 117	41,020.25
PREPAID EXPENSES	
01 14401	PREPAYMENTS WORKERS COMP INSUR 1,608.00
	PREPAYMENTS PL & PD LIAB INS 7,120.12
TOTAL PR	EPAID EXPENSES 8,728.12
FIXED ASSETS	
01 11130	FA ORGANIZATION 336,271.36
01 11131	ACCUMMULATED DEP ORGANIZATION (66,344.01)
01 11135	FA LAND 12,507.94
01 11140	FA LAND & BUILDINGS 294,654.63
01 11150	FA YARDS 52,957.71
01 11160	FA FUELS TANKS 16,604.30
01 11170	FA WATER SYSTEM 7,533,872.86
01 11180	FA SHOP EQUIPMENT 43,075.46
01 11181	FA MOBILE EQUIPMENT 444,498.62
01 11190	FA OFFICE EQUIPMENT 129,713.10
01 11400	ACCUMULATED DEPRECIATION (5,381,728.16)

GENERAL FUND

-----TOTAL FIXED ASSETS

3,416,083.81

WORK IN PROGRESS (FOR OTHERS)

TOTAL WORK IN PROGRESS (OTHERS) 0.00

WORK IN PROGRESS (AGENCY)

01 12005 WIP EPA GRANT 792.937.97

01 12043 WIP - JVHI WELL 22,813.92

PRV 13 REREFURBISH 01 12044 73.27

TOTAL WORK IN PROGRESS (AGENCY) 815,825,16

DEBT ISSUANCE COST

TOTAL DEBT ISSUANCE COST 0.00

TOTAL ASSETS 5,467,709.83

LIABILITIES ------

ACCOUNTS PAYABLE

TOTAL ACCOUNTS PAYABLE 0.00

ACCRUED PAYROLL

TOTAL ACCRUED PAYROLL 0.00

CUSTOMER DEPOSITS

01 22550 CUSTOMER DEPOSITS PENDING 1,145.73 CUSTOMER DEPOSITS 01 22600

56,570.19 -----

TOTAL CUSTOMER DEPOSITS 57,715.92

WORK IN PROGRESS DEPOSIT

-----TOTAL WORK IN PROGRESS DEPOSIT 0.00

LIAB PYBL FRM RESTRICTD ASSETS

01 22951 ACCRUED BONDS PAYABLE DV ID 2,000.00

-----TOTAL LIAB PYBL FRM REST ASSET 2,000.00

LONG TERM DEBT 01 21101 REVENUE BONDS PAYABLE - DV 260,977.05

01 22300 REVENUE BONDS PAYABLE - BH 702,000.00

TOTAL LONG TERM DEBT 962,977.05

GENERAL FUND

TOTAL LIABILITIES 1,022,692.97

EQUITY

01 30109 CONTRIBUTED CAPITAL/HUD 291,035.88 01 30111 FMHA GRANTS 758,297.76 01 31000 FUND BALANCE 2,796,093.48 01 31001 FUND BALANCE FEMA & OES 427,895.00 01 31111 CURR YEAR NET REVENUE/EXPENSE 171,694.74

TOTAL EQUITY 4,445,016.86

TOTAL LIABILITIES & EQUITY 5,467,709.83

Prepared By 33

Date 4/16/12

Reviewed By Mulest

PAG

GENERAL FUND

		BUDGET	REV OR EXP	REV OR EXP	AVAILABLE	YTD % OF BUDGET
REVENUE						
OPERATING REVENUE						
01 41000	SERVICE LINE INSTALLATION FEES	1,255.00	0.00	0.00	1,255.00	0.00%
01 41001	BASIC FACILITIES CHARGE	4,098.00	0.00	0.00	4,09B.00	
01 41100	INCOME METERED WATER	439,848.00	20,704.80		150,036.12	
01 41300	BASIC SERVICE CHARGE	594,000.00	49,957.44		147,070.75	
01 41400	INCOME METERED BULK WATER	0.00	4,979.95		0.00	
01 41600	INCOME REVENUE BONDS DV FMHA	49,662.00	4.99	•	16,342.56	
01 41700	INCOME OTHER (OPERATING)	34,480.00	2,691.93		6,438.73	
TOTAL OPERATING	REVENUE	1,123,343.00	78,339.11	835,498.80	287,844.20	74.38%
NON-OPERATING REVENUE						
01 49100	INCOME GEN TAX ID A 1% BH GA02	52,100.00	4,140.97	28,393.58	23,706.42	54.50%
01 49101	INCOME BOND DEET BH FMHA DAO1	175,900.00	21,506.81		•	
01 49102	INCOME GENERAL TAX 1% DV GA01	52,100.00		27,526.30		
01 49200	INTEREST INCOME	3,600.00	0.00		2,138.54	
01 49999	FEDERAL/STATE GRANTS FEMA/OES	0.00	0.00	9,923.60	0.00	0.00%
0.1.19999	1200.011/ BINTE GIGNIE TEM, CEE		0.00	5,525.60	0.00	
TOTAL NON-OPERA	ATING REVENUE	283,700.00	29,058.87		110,786.47	
TOTAL REVENUE		1,407,043.00	107,397.98	1,008,412.33	398,630.67	71.67%
EXPENSE						
OPERATIONS EXPENSE						
01 54102	OPERATIONS COMPENSATION	147,640.00	11,231.51	101,386.68	46,253.32	6B.67%
01 54103	UNIFORMS	2,525.00	98.14	1,463.99	1,061.01	57.98%
01 54105	AUTO CONTROLS	0.00	211.46	1,944.23	0.00	0.00%
01 5410 6	VEHICLE/TRACTOR/EQUIP EXPENSE	9,000.00	1,558.99	3,401.27	5,598.73	37.79%
01 54107	VEHICLE EXPENSE - FUEL	18,000.00	1,983.88	12,990.45	5,009.55	72.17%
01 54109	FIELD MATERIALS & SUPPLIES	25,000.00	1,055.52	12,142.42	12,857.58	48.57%
01 54111	WATER TESTING	5,000.00	737.00	4,769.71	230.29	95.39%
01 54112	CONTRACTUAL SERV- ENGINEERING	52,000.00	11,201.32	53,761.52	-1,761.52	103.39%
01 54114	WATER SYSTEM REPAIRS	25,000.00	268.91	1,056.80	23,943.20	4.23%
01 54115	BUILDING MAINTENANCE/REPAIR	11,680.00	1,685.64	10,202.43	1,477.57	87.35%
01 54117	AMES BASIN MONITORING	0.00	0.00	1,510.00	0.00	0.00%
01 54119	COMMUNICATIONS EXPENSE	1,680.00	98.22	1,381.41	298.59	82.23%
01 54121	DISINFECTION EXPENSE	4,000.00	0.00	2,533.60	1,466.40	63.34%
01 54125	POWER WELLS & PUMPS	59,570.00	4,471.18	39,716.43	19,853.57	66.67%
01 54130	OTHER OPERATIONS EXPENSES	17,000.00	1,835.87	17,507.76	-507.76	102.99%
01 54150	PAYROLL LABOR TO PROJECTS	0.00	0.00	-2,224.99	0.00	0.00%
01 54160	VEH & EQUIP EXPENSE TO PROJECT	0.00	0.00	-309.06	0.00	0.00%
01 54170	INVENTORY EXP TO WIP PROJECTS	0.00	0.00	-574.37	0.00	0.00%

GENERAL FUND

### TOTAL OPERATIONS EXPENSE 178,095.00 16,437.64 262,660.28 115,434.72 69.474 ### BULK SYSTEM EXPENSE 0155001 FUNDING PLANT EXPENSE 8,915.00 603.45 4,507.16 4,427.84 50.444 ### O155002 SULK OPERATIONS & MAINTENANCE 5,000.00 0.00 275.96 4,721.04 5.584 ### TOTAL BULK SYSTEM EXPENSE 11,935.00 603.45 4,786.12 9,148.88 34.354 ### TOTAL BULK SYSTEM EXPENSE 11,935.00 603.45 4,786.12 9,148.88 34.354 ### AZMINISTRATIVE EXPENSE 11,935.00 603.45 4,786.12 9,148.88 34.354 ### AZMINISTRATIVE EXPENSE 10,000.00 2,841.13 3,953.94 7,066.06 33.944 ### 0156001 DIRECTOR FEES 20,000.00 800.00 11,600.00 8,400.00 58.00 ### 0156001 DIRECTOR MERTING EXPENSES 11,000.00 2,841.13 3,953.94 7,066.06 33.944 ### 0156003 ADMINISTRATIVE MEGTING EXPENSE 1,000.00 65.63 170.63 829.37 17.065 ### 0156003 ADMINISTRATIVE MEGTING EXPENSE 1,000.00 65.63 170.63 829.37 17.065 ### 0156003 ADMINISTRATIVE MEGTING EXPENSE 1,000.00 65.63 170.63 829.37 17.065 ### 0156003 ADMINISTRATIVE MEGTING EXPENSE 1,000.00 65.63 170.63 829.37 17.065 ### 0156003 ADMINISTRATIVE MEGTING EXPENSE 1,000.00 65.63 170.63 829.37 17.065 ### 0156003 ADMINISTRATIVE MEGTING EXPENSE 1,000.00 65.66 26,739.31 13,510.19 66.60 ### 0156003 ADMINISTRATIVE MEGTING EXPENSE 1,000.00 65.66 67.63 170.63 82.93 ### 0156004 CONTRACTURAL SERV-AUDITOR 29,418.00 0.00 26,472.00 26,400.00 26,92.30 ### 0156009 DAVING ATTENDET PURS 7,420.00 1,077.09 6,100.95 1,150.09 29.594 ### 0156014 CONTRACTURAL SERV-OTHER 3,305.00 0.107.09 6,100.95 1,150.09 29.594 ### 0156014 CONTRACTURAL SERV-OTHER 30,600.00 1,077.09 6,100.95 1,150.00 26,54.70 26,500.00 ### 0156015 DOMER OFFICES & VARDS 5,200.00 3344.76 7,150.00 10,515.61 20,500.00 20,500.00 ### 0156010 PUNIT METING PURS 3,000.00 3,000.00 3,000.00 3,000.00 3,000.00 3,000.			BUDGET	REV OR EXP	REV OR EXP	AVAILABLE	YTD % OF BUDGET
01 55001 PUMPING PLANT EXPENSE 8,935.00 603.45 4,507.16 4,427.04 50.444 01 55002 BULK OPERATIONS & MAINTSNANCE 5,000.00 0.00 278.56 4,721.04 5.584 TOTAL BULK SYSTEM EXPENSE 13,935.00 603.45 4,786.12 9,148.88 34.354 APMINISTRATIVE EXPENSE 20,000.00 800.00 11,600.00 8,400.00 58.005 01 56001 DIRECTOR MEETING EXPENSE 11,000.00 2,081.13 3,953.94 7,046.86 35.948 01 56002 DIRECTOR MEETING EXPENSE 11,000.00 20,554.10 155,517.49 104,482.51 59.814 01 56005 ADMINISTRATIVE COMPENSATION 260,000.00 20,554.10 155,517.49 104,482.51 59.814 01 56005 ADMINISTRATIVE MEETING EXPENSE 1,000.00 66.63 11.60 22,946.00 89.994 01 56006 CONTRACTULL SEW-AUDITOR 29,418.00 0.00 20,554.10 155,517.49 104,482.51 59.814 01 56005 ADMINISTRATIVE MEETING EXPENSE 1,000.00 40.00 20,554.10 155,517.49 104,482.51 59.815 01 56006 CONTRACTULL SEW-AUDITOR 29,418.00 0.00 20,554.10 155,517.49 104,482.51 59.815 01 56006 CONTRACTULL SEW-AUDITOR 29,418.00 0.00 20,554.10 155,517.49 104,482.51 59.815 01 56007 CONTRACTULL SEW-JEDIAL 80,000.00 40,000 20,554.10 155,517.49 104,482.51 59.815 01 56007 CONTRACTULL SEW-JEDIAL 80,000.00 40,000 20,554.10 11,510.50 82.255 20,550.00	TOTAL OPERATIONS EXPENSE		378,095.00	36,437.64	262,660.28	115,434.72	 69.47%
Ol 55002 BULK OPERATIONS & MAINTENANCE 5,000.00 0.00 275.56 4,721.04 5.585	BULK SYSTEM EXPENSE						
ADMINISTRATIVE EXPENSE 01 56001 DIRECTOR FEES 20,000.00 800.00 11,600.00 8,400.00 58.00\$ 01 56002 DIRECTOR MEGTING EXPENSE 11,000.00 20,841.13 3,953.94 7,046.06 35.94\$ 01 56003 ADMINISTRATIVE COMPENSATION 26,000.00 20,554.10 155,517.49 104,422.51 59.81\$ 01 56005 ADMINISTRATIVE COMPENSATION 26,000.00 20,554.10 155,517.49 104,422.51 59.81\$ 01 56005 ADMINISTRATIVE COMPENSATION 26,000.00 20,554.10 155,517.49 104,422.51 59.81\$ 01 56006 CONTRACTULA SERV-AUDITOR 29,418.00 0.00 26,472.00 2,946.00 89.99\$ 01 56007 CONTRACTULA SERV-AUDITOR 29,418.00 0.00 4,605.67 26,939.91 13,510.19 66.60 13 56009 PARVOLL TRAKES 9,375.00 4,665.67 26,939.91 13,510.19 66.60 13 56009 PARVOLL TRAKES 9,375.00 22.95 27.74.22 6,600.58 29.59\$ 01 56011 TELEPHONE/FAX/INTERNET/WEB 7,420.00 1,077.09 6,103.95 1,316.05 82.26\$ 01 56012 MULLING EXPENSES 7,550.00 1,077.09 6,103.95 1,316.05 82.26\$ 01 56012 MULLING EXPENSES 7,550.00 1,077.09 6,103.95 1,316.05 82.26\$ 01 56014 CONTRACTULA SERV-OTHER 38,650.00 199.88 14,167.20 24,422.80 36.65\$ 01 56017 MORRED COMP INSURANCE 14,500.00 344.14 1,464.39 10,535.61 64,885 01 56017 MORRED COMP INSURANCE 14,500.00 344.14 1,464.39 10,535.61 64,885 01 56017 MORRED COMP INSURANCE 14,500.00 344.14 1,464.39 10,535.61 64,885 01 56018 DUES & SUBSCRIPTIONS 7,725.00 560.50 9,433.91 -1,760.91 122.12\$ 01 56020 POWER OFFICES & YABDS 5,200.00 313.24 5,135.30 2,664.70 60.23\$ 01 56020 POWER OFFICES & YABDS 5,200.00 313.24 5,135.30 2,664.70 60.23\$ 01 56030 OFFICE SUBPLIES 5,000.00 394.76 7,075.80 42,075.80 141.53\$ 01 56030 OFFICE SUBPLIES 5,000.00 394.76 7,075.80 42,075.80 141.53\$ 01 56030 OFFICE SUBPLIES 5,000.00 394.76 7,075.80 42,075.80 141.53\$ 01 56030 OFFICE SUBPLIES 5,000.00 394.76 7,075.80 42,075.80 141.53\$ 01 56030 OFFICE SUBPLIES 5,000.00 394.76 7,075.80 42,075.80 141.53\$ 01 56030 OFFICE SUBPLIES 5,000.00 394.76 7,075.80 42,075.80 141.53\$ 01 56030 OFFICE SUBPLIES 5,000.00 394.76 7,075.80 42,075.80 41.53\$ 01 56030 OFFICE SUBPLIES 5,000.00 42,050.00 42,050.00 42,050.00 42,050.00 42,050.00 42,050.00 42,050.00 42,050.00 42,050.	01 55001	PUMPING PLANT EXPENSE	B,935.00	603.45	4,507.16	4,427.84	50.44%
ADMINISTRATIVE EXPENSE 01 1 56001 DIRECTOR FEES 20,000.00 800.00 11,600.00 8,400.0 58.00 01 56002 DIRECTOR MEETING EXPENSE 11,000.00 2,841.11 3,953.94 7,046.06 35.94 01 56003 ADMINISTRATIVE COMPENSATION 260,000.00 25,554.10 155,517.49 104,482.51 59.81 01 56005 ADMINISTRATIVE COMPENSATION 260,000.00 55.63 170.63 829.37 17.061 01 56006 CONTRACTUAL SERV-LEGAL 80,000.00 4,001.25 14,970.28 65,029.72 18.71 01 56007 CONTRACTUAL SERV-LEGAL 80,000.00 4,001.25 14,970.28 65,029.72 18.71 01 56008 FERS CONTRIBUTION 40,489.00 4,665.67 26,99.91 13,510.19 66.60 01 56009 PAYBOLL TAKES 9,375.00 222.95 2,774.42 6,000.38 29.59 01 56011 TELEPHONE/FAX/INTENNET/WEB 7,420.00 1,077.09 6,103.95 1,316.05 82.26 01 56012 WALLING EXENSES 7,550.00 1,070.99 4,490.33 3,059.67 59.47 01 56014 CONTRACTUAL SERV-LEGBE 30,000.00 23.56.71 19,464.39 10,355.61 64,89 01 56012 WALLING EXENSES 7,550.00 1,070.99 4,490.33 3,059.67 59.47 01 56014 CONTRACTUAL SERV-LEGRE 30,000.00 2,356.71 19,464.39 10,355.61 64,89 01 56016 PROPERTY/LINEALITY EXPENSE 30,000.00 2,356.71 19,464.39 10,535.61 64,89 01 56017 WARKERS COMP INSURANCE 14,500.00 344.14 1,459.42 13,041.56 10.065 01 56018 DUES & SUBSCRIPTIONS 7,725.00 560.50 9,433.91 -1,706.91 122.12 01 56020 PONER OFFICES & YARDS 5,200.00 313.24 3,135.30 2,064.70 60.23 01 56020 PONER OFFICES & YARDS 5,200.00 313.24 3,135.30 2,064.70 60.23 01 56030 OFFICE SUPPLIES 5,000.00 -1,763.41 -2,086.36 45,086.96 -4.855 01 56030 OFFICE SUPPLIES 5,000.00 -1,763.41 -2,086.36 45,086.96 -4.855 01 56030 OFFICE SUPPLIES 6,000.00 -220.91 -200.00 0.005 01 56104 SUPPLIESTING LIFE 0.00 -200.00 334.76 7,075.80 -2,075.80 141.52 01 56104 SUPPLIESTING SUPPLIES 0.00 -200.00 0.005 01 56104 SUPPLIESTING LIFE 0.00 -200.00 0.005 01 56104 SUPPLIESTING LIFE 0.00 0.005 01 56104 SUPPLIESTING LIFE 0.00 0.005 01 56104 SUPPLIESTING SUPPLIES 0.00 0.005 01 56104 SUPPLIESTING SUPPLIES 0.00 0.005 01 56104 SUPPLIESTING SUPPLIES 0.00 0.005 01 56104 SUPPLIESTING SUPPLIEST 0.00 0.005 01 56104 SUPPLIESTING	01 55002	BULK OPERATIONS & MAINTENANCE	5,000.00	0.00	278.96	4,721.04	
01 56001 DIRECTOR FEES 20,000.00 800.00 11,600.00 8,400.00 58.008 01 56002 DIRECTOR MESTING EXPENSES 11,000.00 2,841.13 3,953.94 7,046.06 35.948 01 56003 ADMINISTRATIVE COMPENSATION 260,000.00 20,554.10 155,517.49 104,482.51 59.818 01 56005 ADMINISTRATIVE MESTING EXPENSE 1,000.00 65.63 170.63 829.37 17.064 01 56006 COMPRACTUAL SERV-ALDIDAL 80,000.00 4,001.25 14,970.28 65,029.72 18.718 01 56007 CONTRACTUAL SERV-LEUAL 80,000.00 4,001.25 14,970.28 65,029.72 18.718 01 56008 PERS CONTRIBUTION 40.450.00 4,665.67 26,939.81 13,510.19 66.608 01 56009 PAYROLL TAXES 9,375.00 822.95 27,774.42 6,600.58 29.598 01 56011 TELEPHONE/FAX/INTERNET/WEB 7,420.00 1,0777.09 6,103.95 1,316.05 82.258 01 56012 MAILING EXPENSES 7,550.00 1,0770.99 6,103.95 1,316.05 82.258 01 56014 CONTRACTUAL SERV-COTHER 38,660.00 815.88 14,167.20 24,492.80 36.658 01 56016 PROPERTY/LIABILITY EXPENSE 30,000.00 2,356.71 19,464.39 10,535.61 64.888 01 56017 WORKERS COMP INSURANCE 14,500.00 344.14 4,458.42 13,041.58 10.068 01 56018 DUES & SUBSCRIPTIONS 7,725.00 568.50 9,433.91 -1,708.91 122.124 01 56020 POMEN OFFICES & YARDS 5,200.00 334.14 4,458.42 13,041.58 10.068 01 56030 POPINE OFFICES & YARDS 5,200.00 334.74 4,558.40 4,568.40 13,041.58 10.068 01 56030 POPINE OFFICES & YARDS 5,200.00 334.76 7,7075.80 4,508.59 6.4.858 01 56030 OFFICE SUPPLIES 5,000.00 0.00 1,788.76 471.24 73.828 01 56030 POPINE SERVENSE 1,800.00 0.00 1,788.76 471.24 73.828 01 56030 PAIN PARTICIPATION FEE 0.00 -403.83 -358.97 0.00 0.008 01 56100 EMPLOYEE BENEFITS INSURANCE 70,850.00 6,019.82 53,422.44 17,427.55 75.408 01 56100 EMPLOYEE BENEFITS INSURANCE 70,850.00 6,019.82 53,422.44 17,427.55 75.408 01 56101 FLEXIBLE SPENDING ACCOUNT 0.00 -403.83 -358.97 0.00 0.008 01 56100 EMPLOYEE BENEFITS INSURANCE 70,850.00 79,098.16 626,385.06 451.892.94 58.0938 01 56100 OFFICE SUPPLIES 0.00 -71,006.02 -1,800.24 0.008 01 56100 OFFICE SUPPLIES 0.00 0.008 01 56100	TOTAL BULK SYS	TEM EXPENSE	13,935.00	603.45	4,786.12	9,148.88	
01 56002 DIRECTOR MEETING EXPENSES 11,000.00 2,841.13 3,953.94 7,046.06 35.94* 01 56003 ADMINISTRATIVE COMPANSATION 260,000.00 20,554.10 155.51.49 104.482.51 59.81* 01 56005 ADMINISTRATIVE MEETING EXPENSE 1,000.00 65.83 170.63 829.37 17.06* 01 56006 CONTRACTUAL SERV-AUDITOR 29,418.00 0.00 26,472.00 2,946.00 89.99* 01 56007 CONTRACTUAL SERV-LEGAL 80,000.00 4,001.25 14,970.28 65,029.72 18.71* 01 56008 PERS CONTRIBUTION 40,450.00 4,061.55 726,931.81 13,510.19 66.60* 01 56009 PARVOLL TAXES 9,375.00 822.95 2,774.42 6,600.58 29.99* 01 56011 TELEPHONE/PAY/INTERNET/WEB 7,420.00 1,077.09 4,490.33 3,059.67 59.47* 01 56012 MAILING EXPENSES 7,550.00 1,070.98 4,490.33 3,059.67 59.47* 01 56014 CONTRACTUAL SERV-OTHER 38,660.00 819.88 14,167.20 24,492.80 36.65* 01 56015 MORRES COMP INSUBANCE 14,500.00 344.14 1,458.42 13,041.58 10.65* 01 56016 PROPERTY/LIABILITY EXPENSE 30,000.00 2,356.71 19,464.39 10,515.61 64.88* 01 56017 MORRES COMP INSUBANCE 14,500.00 344.14 1,458.42 13,041.58 10.65* 01 56018 DUES & SUBSCRIPTIONS 7,725.00 568.50 93,433.91 -1,708.91 122.12* 01 56020 POWER OFFICES & YARDS 5,200.00 313.24 3,135.30 2,664.70 60.23* 01 56021 POWER OFFICES & YARDS 5,200.00 313.24 3,135.30 2,664.70 60.23* 01 56025 PROPANE 1 1,800.00 344.76 7,075.80 45,085.95 -4.85* 01 56030 OFFICE SUPPLIES 5,000.00 344.76 7,075.80 45,085.95 -4.85* 01 56030 OFFICE SUPPLIES 5,000.00 344.76 7,075.80 -2,075.80 141.52* 01 56030 PRIVE PRESEDINING ACCOUNT 0.00 -403.89 2-358.89 0.00 0.00 0.00* 01 56104 SUPPLEMENTAL LIFE 0.00 -403.89 2-358.89 0.00 0.00* 01 56104 SUPPLEMENTAL LIFE 0.00 -403.89 2-358.89 0.00 0.00* 01 56104 SUPPLEMENTAL LIFE 0.00 -403.89 2-358.89 0.00 0.00* 01 56104 SUPPLEMENTAL LIFE 0.00 -403.89 2-358.89 0.00 0.00* 01 56104 SUPPLEMENTAL LIFE 0.00 -403.89 2-358.89 0.00 0.00* 01 56104 SUPPLEMENTAL LIFE 0.00 -403.89 2-358.89 0.00 0.00* 01 56104 SUPPLEMENTAL LIFE 0.00 -403.89 2-358.89 0.00 0.00* 01 56100 OVERHEAD TO PROJECTS 0.00 -403.89 2-358.89 2-399.31 300.69 90.89* 01 56100 OVERHEAD TO PROJECTS 0.00 -403.89 2-358.89 2-399.31 300.69 90.89* 01	ADMINISTRATIVE EXPENS	E					
01 56003 ADMINISTRATIVE COMPENSATION 260,000.00 20,554.10 155,517.49 104,482.51 59.81% 01 56005 ADMINISTRATIVE MERTING EXPENSE 1,000.00 65.63 170.63 829.37 17.06% 01 56006 CONTRACTUAL SERV-LEGAL 80,000.00 4,001.25 14,970.28 65,029.72 18.71% 01 56008 PERS CONTRIBUTION 40,450.00 4,665.67 26,939.91 13,510.19 66.60% 01 56009 PAYROLL TAXES 9,375.00 822.95 2,774.42 6,600.52 29.53% 01 56011 TELEPHONE/PAX/INTERNET/WEB 7,420.00 1,077.09 6,103.95 1,316.05 82.26% 01 56012 MAILING EXPENSE 7,550.00 1,070.99 6,103.95 1,316.05 82.26% 01 56014 CONTRACTUAL SERV-OTHER 38,660.00 819.88 14,167.20 24,492.80 36.65% 01 56016 PROPERTY/LIABILITY EXPENSE 30,000.00 2,356.71 19,464.39 10,535.51 64.88% 01 56017 WORKERS COMP INSURANCE 14,500.00 344.14 1,458.42 13,041.55 10.06% 01 56018 DUSS & SUBSCRIPTIONS 7,725.00 568.50 9,433.91 1,708.91 122.12% 01 56022 BAD DEBT EXPENSE 43,000.00 -1,763.41 -2,086.96 45,886.96 -4.85% 01 56022 BAD DEBT EXPENSE 43,000.00 -1,763.41 -2,086.96 45,886.96 -4.85% 01 56030 OFFICE SUPPLIES 1,800.00 0.344.14 -2.2,086.96 45,886.96 -4.85% 01 56030 OFFICE SUPPLIES 5,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56030 OFFICE SUPPLIES 5,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56030 OFFICE SUPPLIES 6,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56030 OFFICE SUPPLIES 6,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56030 OFFICE SUPPLIES 6,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56030 OFFICE SUPPLIES 10,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56030 OFFICE SUPPLIES 10,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56030 OFFICE SUPPLIES 10,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56100 EMPLOYEE BENEFITS INSURANCE 70,850.00 6,019.82 53,422.44 17,427.56 75.40% 01 56103 PLAN PARTICIPATION FEE 0.00 -143.64 -127.66 0.00 0.00% 01 56103 PLAN PARTICIPATION FEE 0.00 -143.64 -127.66 0.00 0.00% 01 56100 EMPLOYEE BUDGATION 3,300.00 279.58 2,999.31 300.69 90.89% 01 56100 EMPLOYEE EDUCATION 3,300.00 394.76 626.385.06 327,309.34 52.30% 01 56100 OFFICE SUPPLIES 0.00 0.00% 01 56100 OFFICE SUPPLIES 0.00 0.00% 01 56100 OFFICE SUPPLIES 0.0	01 56001	DIRECTOR FEES	20,000.00	800.00	11,600.00	8,400.00	58.00%
01 56005 ADMINISTRATIVE MEETING EXPENSE 1,000.00 65.63 170.63 829.37 17.065 01 56006 CONTRACTUAL SERV-AUDITOR 29,418.00 0.00 26,472.00 2,946.00 89.995 01 56007 CONTRACTUAL SERV-LEGAL 80.000.00 4,001.25 14,970.28 65,029.72 18.71% 01 56008 PERS CONTRIBUTION 40,450.00 4,665.67 26,939.81 13,510.19 66,600 01 56009 PAYROLL TAXES 9,375.00 822.95 2,774.42 6,600.58 29.595 01 56011 TELEPHONE/FAX/INTERNET/WEB 7,420.00 1,077.09 6,103.95 1,316.05 82.26% 01 56012 MAILING EXPENSES 7,550.00 1,070.98 4,490.33 3,059.67 59.47% 01 56014 CONTRACTUAL SERV-OTHER 38,660.00 819.88 14,167.20 24,492.80 36.65% 01 56016 PROPERTY/LIABILITY EXPENSE 30,000.00 2,556.71 19,464.39 10,535.61 64.88% 01 56018 DUES & SUBSCRIPTIONS 7,725.00 568.50 9,433.91 1.708.91 122.12% 01 56018 DUES & SUBSCRIPTIONS 7,725.00 568.50 9,433.91 1.708.91 122.12% 01 56020 POMER OFFICES & YARDS 5,200.00 313.24 3,135.30 2,064.70 60.29% 01 56022 BAD DEBT EXPENSE 43,000.00 -1,783.41 -2,086.96 45,086.96 -4.85% 01 56030 OFFICE SUPPLIES 5,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56010 EMPLOYEE BENEFITS INSURANCE 70,850.00 6,019.32.67 47.075.80 -2,075.80 141.52% 01 56101 EMPLOYEE BENEFITS INSURANCE 70,850.00 -28.41 -255.29 0.00 0.00% 01 56101 PLEXIBLE SPENDING ACCOUNT 0.00 -28.41 -255.29 0.00 0.00% 01 56101 PLEXIBLE SPENDING ACCOUNT 0.00 -28.41 -255.29 0.00 0.00% 01 56101 PLEXIBLE SPENDING ACCOUNT 0.00 -292.91 -204.15 0.00 0.00% 01 56104 SUPPLEMENTAL LIFE 0.00 -279.95 1 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0.00 -232.91 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0.00 -232.91 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0.00 -279.95 1 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0.00 -232.91 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0.00 -279.95 1 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0.00 -232.91 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0.00 -279.95 1 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0.00 -279.95 1 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0.00 -279.95 1 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0.00 -279.95 1 -224.15 0.00 0.00% 01 56105 DISABILITY INS 0	01 56002	DIRECTOR MEETING EXPENSES	11,000.00	2,841.13	3,953.94	7,046.06	35.94%
01 56005 CONTRACTUAL SERV-AUDITOR 29,418.00 0.00 26,472.00 2,946.00 89.99\$ 01 56007 CONTRACTUAL SERV-LEGAL 80,000.00 4,001.25 14,970.28 65,029.72 18.71% 01 56008 PERS CONTRIBUTION 40,450.00 4,665.67 26,339.81 13,510.19 66.60% 01 56009 PAYROLL TAXES 9,375.00 822.95 2,774.42 6,600.58 29.59% 01 56011 TELEPHONE/FAX/INTERNET/WEB 7,420.00 1,077.09 6,103.95 1,316.05 82.26% 01 56012 MAILING EXPENSES 7,550.00 1,077.09 4,490.33 3,059.67 59.47% 01 56014 CONTRACTUAL SERV-OTHER 38,660.00 819.88 14,167.20 24,492.80 36.65% 01 56016 PROPERTY/LIABILITY EXPENSE 30,000.00 2,356.71 19,464.39 10,535.61 661.88% 01 56017 WORKES COMP INSURANCE 14,500.00 344.14 1,458.42 13,041.56 10.06% 01 56018 DUES & SUBSCRIPTIONS 7,725.00 568.50 9,433.91 -1,708.91 122.12% 01 56020 POWER OFFICES & YARDS 5,200.00 313.24 3,135.30 2,064.70 602.29% 01 56022 BAD DEET EXPENSE 43,000.00 -1,783.41 -2,086.96 45,086.96 -4.65% 01 56035 PROPANE 1,800.00 0.00 1,328.76 471.24 73.82% 01 56030 OFFICE SUPPLIES 5,000.00 344.67 7,075.80 -2,075.80 141.52% 01 56101 EMPLOYEE BENEFITS INSURANCE 70,855.00 6,19.82 53,422.44 17,427.56 75.40% 01 56103 PLAN PARTICIPATION FEE 0.00 -403.83 -388.97 0.00 0.00% 01 56104 SUPPLEMENTAL LIFE 0.00 -143.64 -127.66 0.00 0.00% 01 56104 SUPPLEMENTAL LIFE 0.00 -143.64 -127.66 0.00 0.00% 01 56105 PAYROLL FRINSE EXP TO PROJECTS 0.00 -1,936.02 -1,860.25 0.00 0.00% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.00 0.00% 01 56100 OVERHEAD TO FROJECTS	01 56003	ADMINISTRATIVE COMPENSATION	260,000.00	20,554.10	155,517.49	104,482.51	59.81%
01 56005 CONTRACTUAL SERV-AUDITOR 29,418.00 0.00 26,472.00 2,946.00 89.99\$ 01 56007 CONTRACTUAL SERV-LEGAL 80,000.00 4,001.25 14,970.28 65,029.72 18.71% 01 56008 PERS CONTRIBUTION 40,450.00 4,665.67 26,339.81 13,510.19 66.60% 01 56009 PAYROLL TAXES 9,375.00 822.95 2,774.42 6,600.58 29.59% 01 56011 TELEPHONE/FAX/INTERNET/WEB 7,420.00 1,077.09 6,103.95 1,316.05 82.26% 01 56012 MAILING EXPENSES 7,550.00 1,077.09 4,490.33 3,059.67 59.47% 01 56014 CONTRACTUAL SERV-OTHER 38,660.00 819.88 14,167.20 24,492.80 36.65% 01 56016 PROPERTY/LIABILITY EXPENSE 30,000.00 2,356.71 19,464.39 10,535.61 661.88% 01 56017 WORKES COMP INSURANCE 14,500.00 344.14 1,458.42 13,041.56 10.06% 01 56018 DUES & SUBSCRIPTIONS 7,725.00 568.50 9,433.91 -1,708.91 122.12% 01 56020 POWER OFFICES & YARDS 5,200.00 313.24 3,135.30 2,064.70 602.29% 01 56022 BAD DEET EXPENSE 43,000.00 -1,783.41 -2,086.96 45,086.96 -4.65% 01 56035 PROPANE 1,800.00 0.00 1,328.76 471.24 73.82% 01 56030 OFFICE SUPPLIES 5,000.00 344.67 7,075.80 -2,075.80 141.52% 01 56101 EMPLOYEE BENEFITS INSURANCE 70,855.00 6,19.82 53,422.44 17,427.56 75.40% 01 56103 PLAN PARTICIPATION FEE 0.00 -403.83 -388.97 0.00 0.00% 01 56104 SUPPLEMENTAL LIFE 0.00 -143.64 -127.66 0.00 0.00% 01 56104 SUPPLEMENTAL LIFE 0.00 -143.64 -127.66 0.00 0.00% 01 56105 PAYROLL FRINSE EXP TO PROJECTS 0.00 -1,936.02 -1,860.25 0.00 0.00% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.69 99.89% 01 56100 OVERHEAD TO FROJECTS 0.00 -1,340.14 -1,896.45 1.999.31 300.00 0.00% 01 56100 OVERHEAD TO FROJECTS	01 56005	ADMINISTRATIVE MEETING EXPENSE	1,000.00	65.63	170.63	829.37	17.06%
01 56008 PERS CONTRIBUTION	01 56006	CONTRACTUAL SERV-AUDITOR	29,418.00	0.00		2,946.00	89.99%
01 56009 PAYROLL TAXES 9,375.00 822.95 2,774.42 6,600.53 29.59% 01 56011 TELEPHONE/PAX/INTERNET/WEB 7,420.00 1,077.09 6,103.95 1,316.05 82.26% 01 56012 MAILING EXPENSES 7,550.00 1,070.98 4,490.33 3,059.67 59.47% 01 56014 CONTRACTUAL SERV-OTHER 38,660.00 819.88 14,167.20 24,492.80 36.65% 01 56016 PROPERTY/LIABILITY EXPENSE 30,000.00 2,355.71 19,464.39 10,535.61 64.88% 01 56017 WORKERS COMP INSURANCE 14,500.00 344.14 1,458.42 13,041.58 10.06% 01 56016 DUES & SUBSCRIPTIONS 7,725.00 568.50 9,433.91 -1,708.91 122.12% 01 56020 POWER OFFICES & YARDS 5,200.00 313.24 3,135.30 2,064.70 60.29% 01 56022 BAD DEBT EXPENSE 43,000.00 -1,783.41 -2,086.96 45,086.95 -4.85% 01 56030 OFFICE SUPPLIES 5,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56030 OFFICE SUPPLIES 5,000.00 394.76 7,075.80 -2,075.80 141.52% 01 56100 EMPLOYED BENEFITS INSURANCE 70,855.00 6,019.82 53,422.44 17,427.55 75.40% 01 56101 PLEXIBLE SPENDING ACCOUNT 0.00 -403.83 -356.97 0.00 0.00% 01 56101 PLEXIBLE SPENDING ACCOUNT 0.00 -403.83 -356.97 0.00 0.00% 01 56103 PLAN PARTICIPATION FEE 0.00 -403.83 -356.97 0.00 0.00% 01 56104 SUPPLEMENTAL LIFE 0.00 -143.64 -127.66 0.00 0.00% 01 56105 DISABILITY INS 0.00 -22.91 -204.15 0.00 0.00% 01 56105 PAYROLL FRINGE EXP TO PROJECTS 0.00 -1,36.64 -127.66 0.00 0.00% 01 56105 PAYROLL FRINGE EXP TO PROJECTS 0.00 -1,006.02 -1,840.24 0.00 0.00% 01 56105 DISABILITY INS 0.00 -22.91 -204.15 0.00 0.00% 01 56100 OVERHEAD TO PROJECTS 0.00 -1,006.02 -1,840.24 0.00 0.00% 01 56100 OVERHEAD TO PROJECTS 0.00 -1,006.02 -1,840.24 0.00 0.00% 01 56100 OVERHEAD TO PROJECTS 0.00 -1,006.02 -1,840.24 0.00 0.00% 01 56100 OVERHEAD TO PROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00% 01 56100 OVERHEAD TO PROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00% 01 56100 OVERHEAD TO PROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00% 01 56100 OVERHEAD TO PROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00% 01 56100 OVERHEAD TO PROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00% 01 56100 OVERHEAD TO PROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00% 01 56100 OVERHEAD TO PROJECTS 0.00 0.00% 01 56100 OVER	01 56007	CONTRACTUAL SERV-LEGAL	80,000.00	4,001.25	14,970.28	65,029.72	18.71%
01 56009 PAYROLL TAXES 9,375.00 822.95 2,774.42 6,600.58 29.59\$ 01 56011 TELEPHONE/RAX/INTERNET/WEB 7,420.00 1,077.09 6,103.95 1,316.05 82.26\$ 01 56012 MAILING EXPENSES 7,550.00 1,070.98 4,490.33 3,059.67 59.47\$ 01 56014 CONTRACTUAL SERV-OTHER 38,660.00 819.88 14,167.20 24,492.80 36.65\$ 01 56016 PROPERTY/LIABILITY EXPENSE 30,000.00 2,356.71 19,464.39 10,535.61 64.88\$ 01 56017 WORKERS COMP INSURANCE 14,500.00 344.14 1,458.42 13,041.58 10.06\$ 01 56018 DUES & SUBSCRIPTIONS 7,725.00 568.50 9,433.91 -1,708.91 122.12\$ 01 56020 POWER OFFICES & YARDS 5,200.00 313.24 3,135.30 2,064.70 60.25\$ 01 56022 BAD DEBT EXPENSE 43,000.00 -1,783.41 -2,086.96 45,086.96 -4.85\$ 01 56025 PROPAME 1,800.00 0.00 1,328.76 471.24 73.82\$ 01 56030 OFFICE SUPPLIES 5,000.00 394.76 7,075.80 -2,075.80 141.52\$ 01 56030 OFFICE SUPPLIES 5,000.00 394.76 7,075.80 -2,075.80 141.52\$ 01 56100 EMPLOYED BENEFITS INSURANCE 70,850.00 6,019.82 53,422.44 17,427.55 75.40\$ 01 56101 FLEXIBLE SPENDING ACCOUNT 0.00 -403.83 -356.97 0.00 0.00\$ 0.00\$ 01 56104 SUPPLEMENTAL LIFE 0.00 -143.64 -127.66 0.00 0.00\$ 0.00\$ 01 56104 SUPPLEMENTAL LIFE 0.00 -28.41 -25.29 0.00 0.00\$ 0.00\$ 01 56105 PAYROLL FRINGE EXPENSE 0.00 -143.64 -127.66 0.00 0.00\$ 0.00\$ 01 56105 EMPLOYED EDUCATION 3,300.00 279.58 2,999.31 300.69 90.89\$ 01 56105 PAYROLL FRINGE EXP TO PROJECTS 0.00 -1,066.02 -1,840.24 0.00 0.00\$ 0.00\$ 01 56105 DISABILITY INS 0.00 -2,136.01 -1,896.45 0.00 0.00\$ 0.00\$ 01 56105 DISABILITY INS 0.00 -1,066.02 -1,840.24 0.00 0.00\$ 0.00\$ 01 56105 DISABILITY INS 0.00 -1,340.14 -1,896.45 0.00 0.00\$ 0.00\$ 01 56105 DISABILITY INS 0.00 -1,340.14 -1,896.45 0.00 0.00\$ 0.00\$ 01 56105 DISABILITY INS 0.00 -1,340.14 -1,896.45 0.00 0.00\$ 0.00\$ 01 56105 DISABILITY INS 0.00 0.00\$ 0	01 56008	PERS CONTRIBUTION	40,450.00				
01 56011 TELEPHONE/FAX/INTERNET/WEB 7,420.00 1,077.09 6,103.95 1,316.05 82.26\$ 01 56012 MAILING EXPENSES 7,550.00 1,070.98 4,490.33 3,059.67 59.47\$ 01 56014 CONTRACTUAL SERV-OTHER 38,660.00 819.98 14,167.20 24,492.03 36.65\$ 01 56016 PROPERTY/LIABILITY EXPENSE 30,000.00 2,356.71 19,464.39 10,535.61 64.88\$ 01 56017 WORKERS COMP INSURANCE 14,500.00 344.14 1,456.42 13,041.56 10.06\$ 01 56018 DUES 4 SUBSCLIPTIONS 7,725.00 566.50 9,433.91 -1,708.91 122.12\$ 01 56020 POWER OFFICES & YARDS 5,200.00 313.24 3,1135.30 2,064.70 60.29\$ 01 56022 BAD DEBT EXPENSE 43,000.00 -1,783.41 -2,086.96 45,086.96 -4.05\$ 01 56025 PROPANE 1,800.00 0.00 1,328.76 471.24 73.82\$ 01 56026 PROPANE 1,800.00 0.00 1,328.76 471.24 73.82\$ 01 56030 OFFICE SUPPLIES 5,000.00 394.76 7,075.80 -2,075.80 141.52\$ 01 56100 EMPLOYEE BENEFITS INSURANCE 70,850.00 6,019.82 53,422.44 17,427.56 75.40\$ 01 56101 FLEXIBLE SPENDING ACCOUNT 0.00 -403.83 -358.97 0.00 0.00\$ 01 56104 SUPPLEMENTAL LIFE 0.00 -143.64 -127.66 0.00 0.00\$ 01 56104 SUPPLEMENTAL LIFE 0.00 -143.64 -127.66 0.00 0.00\$ 01 56105 DISABILITY INS 0.00 -232.91 -204.15 0.00 0.00\$ 01 56110 EMPLOYEE EDUCATION 3,300.00 279.58 2,999.31 300.69 991.89\$ 01 56150 PAYROLL FRINGE EXP TO PROJECTS 0.00 -1,066.02 -1,840.24 0.00 0.00\$ 01 56100 EMPLOYEE EDUCATION 3,300.00 279.58 2,999.31 300.69 90.89\$ 01 56150 PAYROLL FRINGE EXP TO PROJECTS 0.00 -1,066.02 -1,840.24 0.00 0.00\$ 01 56100 OVERHEAD TO PROJECTS 0.00 -1,066.02 -1,840.24 0.00 0.00\$ 01 56100 OVERHEAD TO PROJECTS 0.00 -1,066.02 -1,840.24 0.00 0.00\$ 01 56100 OVERHEAD TO PROJECTS 0.00 -1,066.02 -1,840.24 0.00 0.00\$ 01 56100 OVERHEAD TO PROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00\$ 01 56100 OVERHEAD TO PROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00\$ 01 56100 OVERHEAD TO PROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00\$ 01 56100 OVERHEAD TO PROJECTS 0.00 -1,340.14 -1,896.45 0.00 0.00\$ 01 56300 CUSTOMER RELATIONS 3,000.00 475.34 1,338.25 1,616.75 46.11\$ 01 56400 OTHER ADMINISTRATIVE EXPENSE 3,000.00 643.75 2,779.10 220.99 22.64 10 10 10 10 10 10 10 10 10 10 10 10 10	01 56009	PAYROLL TAXES		822.95			
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01 56200 OFFICE EQUIPMENT EXPENSE 4,950.00 686.00 3,045.36 1,904.64 61.52% 01 56300 CUSTOMER RELATIONS 3,000.00 475.34 1,383.25 1,616.75 46.11% 01 56400 OTHER ADMINISTRATIVE EXPENSES 3,000.00 643.75 2,779.10 220.90 92.64% 01 57000 INTEREST EXPENSE - BH BONDS 0.00 0.00 -2,925.00 0.00 0.00%	TOTAL OPERATIN	G EXPENSE	1,078,278.00	79,098.16	626,385.06	451,892.94	58.09%
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01 57000 INTEREST EXPENSE - BH BONDS 0.00 0.00 -2,925.00 0.00 0.00%			•				
0.00 ty,246./4 t/5,621.23 0.00 0.00\$							
01 58100 ELECTION COSTS 12,000.00 0.00 0.00 12,000.00 0.00%				•	•		

STATEMENT OF REVENUE AND EXPENSE PERIOD ENDING 03/31/12

GENERAL FUND

			REV OR EXP	REV OR EXP		YTD % OF
		BUDGET	THIS MONTH	YEAR TO DATE	AVAILABLE	BUDGET
01 59100	INTEREST EXPENSE - DV BONDS	0.00	0.00	29,396.59	0.00	0.00%
01 59400	GAIN (LOSS) ASSET DISPOSAL	0.00	1,032.00	1,032.00	0.00	0.00%
TOTAL NON-OP	ERATING EXPENSE	22,950.00	22,083.83	210,332.53	-187,382.53	916.48%
				••••		
TOTAL EXPENS	E	1,101,228.00	101,181.99	836,717.59	264,510.41	75.98%
				••••		
NET REV/EXP GE	neral fund	305,815.00	6,215.99	171,694.74	134,120.26	56.14%
			===========	*********	============	

Prepared By 33
Date 4/16/12
Reviewed By MWest

SOURCES & USES OF FUNDS STATEMENT GENERAL ACCOUNT (UNION BANK) Mar-12

SOURCES OF FUNDS:

SERVICE LINE INSTALLATION FEES	
BAD DEBT ADJUSTMENT	1,899.96
A/R - WATER	90,686.74
UPGRADE	845.76
MISCELLANEOUS REVENUE	780.67
1% GENERAL TAX	7,552.06
BIGHORN AD VALOREM TAX	21,506.81
CUSTOMER DEPOSITS	2,200.00
COMMUNICATIONS	7.00
EPA GRANT REIMBURSEMENT	

TOTAL	125,479.00
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USE OF FUNDS:

DE OF FUNDS:		
A/R WATER & OTHER	530.14	
CAPITAL PURCHASES (EPA GRANT)	35.11	
CAPITAL PURCHASES (JVHI WELL)	17,768.08	
CAPITAL PURCHASES (PRV 13)	73.27	
INVENTORY PURCHASES	560.85	
WORKS COMP INS	1,608.00	
REVENUE BONDS PAYABLE		
REFUND	7,388.48	
PAYMENTS FOR SALARIES & WAGES	52,383.04	
OPERATIONS EXPENSES	12,854.75	
ADMINISTRATIVE EXPENSE	12,260.67	
CUSTOMER DEPOSITS PENDING		
TRANSFER TO LAIF	25,000.00	

TOTAL 130,462.39

UNION BANK OF CALIFORNIA DISBURSEMENTS MAR 2012

Datastream Check Register	52,904.47	52,904.47	
EFT for Vendor Services			
Bank Fees Total EFT for Vendor Services	174.88	174.88	
Wages for Paydate 03/01/2012 State & Fed Taxes plus PERS Paid Payroll checks #11948-11954 & 11960 &11961 Director Per Diem cks #11955 & 11959	5,588.85 10,547.14 1,414.64		
Wages for Paydate 03/15/2012 State & Fed Taxes plus PERS Paid Payroll checks #11984-11992 & 11995 & 11996 Director Per Diem cks #11993 & 11994	7,068.36 13,218.55 188.70	17,550.63	
		20,475.61	
Wages for Paydate 03/29/2012 State & Fed Taxes plus PERS Paid Payroll cks #12011 & 12016 & 12021 & 12022 Director Per Diem cks #12017 & 12020	4,625.42 9,259.63 471.75		
		14,356.80	
Transfers to LAIF	25,000.00	25,000.00	
Total Disbursements			130,462.39

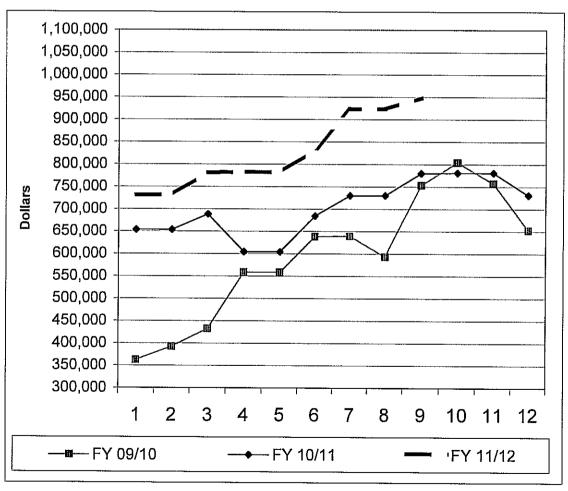
Prepared By 25

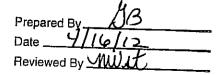
Date 4 16 12

Reviewed By Milest

Local Agency Investment Fund Balance Timeline Balance as of

	FY 09/10	FY 10/11	FY 11/12
July	362,520	653,168	730,685
August	392,520	653,168	731,593
September	432,520	688,168	781,593
October	558,397	604,025	782,302
November December January February March April	558,397 638,397 639,258 593,258 753,258 804,136	604,025 684,025 729,762 729,762 779,762 780,685	782,302 832,302 923,069 923,069 948,069
May	757,136	780,685	
June	652,136	730,685	





DATE:

April 1, 2012

TO:

Marina West Michelle Corbin

FROM: RE:

Consumption & Billing Comparison March 2012

Consumption

Reside	ential- North- E	Bighorn	Reside	ential- South- Des	ert View
	Meters	Usage (c.f.)		Meters	Usage (c.f.)
Book 1	148	113,037	Book 7	164	Ö
Book 2	183	142,939	Book 8	176	0
Book 3	161	133,330	Book 9	188	0
Book 4	152	109,310	Book 10	178	39
Book 5	128	99,183	Book 11	191	22
Book 6	137	93,750	Total	897	61
Total	909	578,512			
`			(Construction Mete	ers
Bulk -Kic	kapoo, Well 4,	Cherokee		Meters	Usage (c.f.)
	Meters	Usage (c.f.)	Book 40	0	0
Book 30	41	9,059	Total	0	0
Book 31	6	3,474			
Book 32	4	8,600	Billed Consump	otion	750,197
Total Total	51	21,133	Non Billed Usa	ge	11,486
		,	Total Consum	ption	761,683
	Bulk - Well 10	1			
	Meters	Usage (c.f.)	Active Residen	tial Meters	1,806
Book 33	48	37,454	Active Bulk Me	ters	98
Total	48	37,454	Total Active M	eters	1,904

Billing Comparison

	This Year MAR 2012	Last Year MAR 2011	Difference More (Less)
Statistics			
Total Customer Accounts	995	1006	(11)
Usage in Cubic Feet	750,197	731,571	18,626
Percentage-Increase/(Decrease)			3%
Revenues			
Water Revenues	25,684.75	24,261.98	1,422.77
Basic Service Charge	49,957.44	50,094.00	(136.56)
Miscellaneous	415.55	190.00	225.55
Delinquent Charges	1,455.00	1,385.15	69.85
Total Operating Revenues	77,512.74	75,931.13	1,581.61
Debt Service Revenues (pass through)			
FMHA **	4.99	29.80	(24.81)
Total Debt Service Revenues	4.99	29.80	(24.81)

Total Charges (Proof)

77,517.73

75,960.93

Additional Information Regarding Pass Through Revenues
** FMHA annual debt service of \$41,150 divided over 6 months equals \$6,858



Date: 4/1/12 To: Marina West From: Michelle Corbin

Subject: Service Order Report July 2011 through June 2012

Update for March 2012

	J	Α	S	0	N	D	J	F	М	Α	М	J	YTD
After Hours Call	1	4	3	1	2	2	3	1	0				17
Close Account	29	31	21	39	13	26	16	21	22				218
Customer Service	8	12	9	6	8	2	2	6	6				59
Customer Leak	1	0	1	0	0	0	1	1	0				4
Destroy Service Line	0	1	0	1	0	0	0	0	0				2
Exchange Meter	2	0	0	0	5	0	3	1	1				12
Fire Flow Test	0	0	0	0	1	0	0	0	0				1
Flush Deadend/Blowoffs	0	0	0	1	0	0	0	0	0				1
Hangtag (not 48 hour)	0	0	0	0	0	7	5	5	7				24
Install New Service	0	0	0	0	0	0	0	0	0				0
Leak Response	4	O)	7	2	4	6	2	4	3				41
Lock-Off Service	13	8	16	24	9	23	20	20	20				153
Repair Mainline	0	0	0	0	0	0	2	0	0				2
Miscellaneous	26	7	18	10	7	മ	12	12	16				117
Office Repairs	0	0	0	1	2	1	0	1	ფ				8
Open New Service	30	3	21	39	13	26	16	21	22				219
Pressure Complaint	1	0	0	0	0	1	0	0	Ö				2
Pull Meter	2	0	0	0	1	0	1	0	0				4
Read Meter	4	0	0	0	0	2	3	3	1				13
Repair Service Line	9	14	7	3	3	2	4	1	6				49
Replace Service Line	3	0	0	0	0	0	0	0	0				3
Reread Meter	35	55	28	20	4	3	10	6	2				163
Tamper	3	0	0	0	1	0	1	0	0				5
Unlock Service	4	7	10	11	10	14	20	10	22				108
Valve Maintenance	0	0	0	0	0	0	0	1	0				1
Verify Meter Locked	10	2	6	7	7	11	10	11	1				65
Well Repairs	0	0	1	0	0	0	0	0	0				1
Water Issues **	0	0	0	0	1	0	0	0	0				. 1
TOTAL	185	181	148	165	91	135	131	125	132				1293

Fire Hydrant Maintenance and Overhaul activities began in November 2010

^{**} Includes Water Quality (taste, odor, color) as well as high or low pressure concerns.



DATE:

4/2/2012

TO:

Board of Directors

FROM:

A Boosters

C Boosters

Total

Kit Boyd

RE:

MAR.2012

Well 2 0 0 #DIV/0! 0 0.00 Well 3 138,650 1,037,102 382 45.3 3.16 Well 4 0 0 #DIV/0! 0 0.00 Well 6 109,690 820,481 425 32.2 2.52 Well 7 73,330 548,508 356 25.7 1.68 Well 8 282,700 2,114,596 950 37.1 6.49 Well 9 598,900 4,479,772 674 110.7 13.78 Well 10 10,280 76,894 56 23 0.24		Cubic Feet Pumped	Total Gallons	Average	Total	
Well 3 138,650 1,037,102 382 45.3 3.14 Well 4 0 0 #DIV/0! 0 0.00 Well 6 109,690 820,481 425 32.2 2.52 Well 7 73,330 548,508 356 25.7 1.68 Well 8 282,700 2,114,596 950 37.1 6.49 Well 9 598,900 4,479,772 674 110.7 13.75 Well 10 10,280 76,894 56 23 0.24 Total 1,213,550 9,077,354 27.86 Well 2 Bac T sample only Well 4 is in "inactive" status with the Department of Public Health			rumped	GPW	Running Time	acre feet
Well 4 0 0 #DIV/0! 0 0.00 Well 6 109,690 820,481 425 32.2 2.52 Well 7 73,330 548,508 356 25.7 1.68 Well 8 282,700 2,114,596 950 37.1 6.49 Well 9 598,900 4,479,772 674 110.7 13.75 Well 10 10,280 76,894 56 23 0.24 Total 1,213,550 9,077,354 27.86 Well 2 Bac T sample only Well 4 is in "inactive" status with the Department of Public Health	Well 2	0	0	#DIV/0!	0	0.00
Well 6 109,690 820,481 425 32.2 2.52 Well 7 73,330 548,508 356 25.7 1.68 Well 8 282,700 2,114,596 950 37.1 6.49 Well 9 598,900 4,479,772 674 110.7 13.75 Well 10 10,280 76,894 56 23 0.24 Total 1,213,550 9,077,354 27.86 Well 2 Bac T sample only Well 4 is in "inactive" status with the Department of Public Health	Well 3	138,650	1,037,102	382	45.3	3.18
Well 7 73,330 548,508 356 25.7 1.68 Well 8 282,700 2,114,596 950 37.1 6.49 Well 9 598,900 4,479,772 674 110.7 13.75 Well 10 10,280 76,894 56 23 0.24 Total 1,213,550 9,077,354 27.86 Well 2 Bac T sample only Well 4 is in "inactive" status with the Department of Public Health	Well 4	0	0	#DIV/0!	0	0.00
Well 8 282,700 2,114,596 950 37.1 6.48 Well 9 598,900 4,479,772 674 110.7 13.75 Well 10 10,280 76,894 56 23 0.24 Total 1,213,550 9,077,354 27.86 Well 2 Bac T sample only Well 4 is in "inactive" status with the Department of Public Health	Well 6	109,690	820,481	425	32.2	2.52
Well 9 598,900 4,479,772 674 110.7 13.75 Well 10 10,280 76,894 56 23 0.24 Total 1,213,550 9,077,354 27.86 Well 2 Bac T sample only Well 4 is in "inactive" status with the Department of Public Health	Well 7	73,330	548,508	356	25.7	1.68
Well 10 10,280 76,894 56 23 0.24 Total 1,213,550 9,077,354 27.86 Well 2 Bac T sample only Well 4 is in "inactive" status with the Department of Public Health	Well 8	282,700	2,114,596	950	37.1	6.49
Total 1,213,550 9,077,354 27.86 Well 2 Bac T sample only Well 4 is in "inactive" status with the Department of Public Health	Well 9	598,900	4,479,772	674	110.7	13.75
Well 2 Bac T sample only Well 4 is in "inactive" status with the Department of Public Health	Well 10	10,280	76,894	56	23	0.24
Well 4 is in "inactive" status with the Department of Public Health	Total	1,213,550	9,077,354			27.86
	Well 2 Bac 1	Γ sample only				
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436,308

1,995,664

2,431,972

76

283

95.7

117.5

58,330

266,800

325,130

Bighorn-Desert View Water Agency

Board of Directors

Michael McBride, President Judy Corl-Lorono, Vice President David Larson, Director Terry Burkhart, Director J. Dennis Staley, Director

Marina D West, P.G., General Manager Lyni Tompkins, Board/Exec. Secretary



Agency Office 622 S. Jemez Trail Yucca Valley, CA 92284-1440

> 760/364-2315 Phone 760/364-3412 Fax

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PLANNING/LEGISLATIVE/ENGINEERING GRANT & SECURITY COMMITTEE REGULAR MEETING REPORT

BOARD MEETING OFFICE \$\fomale{1}\$
1720 N. Cherokee Trail, Landers, CA 92285
Thursday, February 16, 2012 8:45 a.m.

COMMITTEE MEMBERS: Director Burkhart & Director Larson

CALL TO ORDER

Director Burkhart called the meeting to order at 8:53 a.m.

PLEDGE OF ALLEGIANCE

Led by Lary Callandar

ROLL CALL

Directors:

Director Larson

Dîrector Burkhart

Staff:

`Marina West `Lvni Tompkins

APPROVAL OF THE AGENDA

Director Larson and Director Burkhart approved the agenda as presented.

CONFERENCE CALL WITH MOJAVE WATER AGENCY'S LEGAL/LEGISLATIVE AND PUBLIC INFORMATION COMMITTEE

Bighorn-Desert View Water Agency Committee participated via teleconference to Mojave Water Agency's agendized meeting to receive an update by their State Advocate, Ed Manning and Carolyn Jensen of KP Public Affairs. The Federal Advocate, Heather Hennessey of Innovative Federal Strategies spoke about the President's new budget proposal.

Adjourned for a break at 9:45 am - Reconvened from break after approximately 10 minutes.

UPDATE ON JOHNSON VALLEY PRESSURIZED WATER SYSTEM

Chief Engineer Chuck Krieger introduced various layouts for a pressurized water system for Johnson Valley. The map layouts provided options with increasing pipeline densities within the Johnson Valley service area. The data used to produce the maps came from the GIS information provided by the Mojave Water Agency. Items discussed were property easements, the various pressure zones and population density.

GM West introduced three other options that had not been previously considered

The first would be to construct several individual wells that could each serve a limited number of parcels. The second would be to begin the process by connecting parcels to well 10. The last idea is to bring together the property owners that definitely want water service and perhaps the Agency could develop a project that resulted in the construction of private wells on each property with the repayment made through a tax assessment.

Public Comment:

An anonymous person asked if we were to install several wells, could it affect the water supply.

An anonymous person asked if we would be held responsible for wells "that go bad", referring to wells that the Agency would fund.

An anonymous person suggested that we send out a postcard to let the public know these thoughts.

UPDATE ON JOHNSON VÄLLEY HYDROGEOLOGIC INVESTIGATION General Manager West gave the staff report.

The EPA work plan originally had the Johnson Valley Hydrogeologic Investigation and it was to build on the then recently completed Conceptual Model Report. The EPA approved Work Plan (Task 10) stating the groundwater basin hydrogeologic investigation is to further assess the water supply of the Johnson Valley basin. The Conceptual Model Report suggests that there are approximately 900 acre feet of unused water in that basin annually. Previous studies indicate that there is adequate groundwater storage and available groundwater storage capacity for a conjunctive use project such as a recharge project as well.

Because the resources are limited, the Agency decided to do single well project designed for maximum impact. Based on the Conceptual Model Report, the parcel was identified and purchased. Daniel B. Stevens was awarded the contract to conduct the investigation. The Agency anticipated water would be found at 250 feet. They drilled to 460 feet. Using the mud rotary method there is no way to know the actual depth to water so the well was designed based on both field conditions and the Conceptual

Model Report. Unfortunately, at this location the well could not sustain a reasonable production rate, and not wanting to go over budget, the project was halted before water quality samples could be obtained.

GM West's indicated that without the support of property owners expressing desire to have a pressurized system the BOD needs to look at how much more they should be willing to commit to this project.

Public comment:

An anonymous person asked about the 800 gallons introduced into the well system and what was the opinion of the well driller. He also asked about perforations.

An anonymous person asked how arsenic would be dealt with.

An anonymous person stated that if we used the Morongo Basin Ripeline (State Water Project) we would then be creating a surface recharge (project).

An anonymous person asked about the various channels/drainages located on a map displayed at the meeting.

An anonymous person asked about the water in the Ames (Groundwater Basin) and could we pump it to Johnson Valley.

An anonymous person stated that it looks to her that an in-depth marketing project would need to be done.

The Committee directed staff to bring back the complete report in April.

CONSENT ITEMS

a. Regular PLEGS Meeting Report, December 15, 2011

Public comment:

None

Director Burkhart and Director Larson approved the report.

PUBLIC PARTICIPATION

No public comment.

VERBÄL-REPORTS

COMMITTEE MEMBERS' COMMENTS/REPORTS

Director Larson - No Report

Director Burkhart reported that she was present when the test well was being drilled. She expressed her disappointment of the results.

GENERAL MANAGER'S REPORT

General Manager West reported that she wanted to put on record a few of the comments noted at the recent LAFCO hearing on January 18, 2012.

Mr. Prittie of Johnson Valley and a board member of the Johnson Valley Improvement Association (JVIA) questioned the Agency survey which resulted in the knowledge that "many people in Johnson Valley wanted pressurized water". Mr. Prittie stated that he "does not know anyone that said yes to that survey".

Furthermore, GM West wants it to be known that Mr. Prittie had attended prior Committee meeting(s) and had the engineer how he would plumb the houses in that area. He reported to LAFCO that we were using data from a 1966 map. The Agency Engineer did not provide information based on a 1966 map, he worked with the data provided to you today. The 1966 map was only a reference map that Mr. Prittie had requested a copy. She feels like he mis-informed LAFCO about our progress on a pressurized system in Johnson Valley.

The second comment was by Mr. Harvey. Mr. Harvey stated "that it is his feeling, that of the Homestead Valley Community Council and direction of the Council that the LAFCO Commission considers defining the community by the four communities contained within the Homestead Valley Community Plan, as defined by the San Bernardino County including the area of Yucca Mesa. West went on to say the she has two comments about this statement. The first is Yucca Mesa is never going to be in our sphere of influence. Its water is served by an adjoining district but the Homestead Valley Plan does include the area we know as W-1 in Landers. This is important because we are going to need to stand by the Homestead Valley Community Council's letter because we agree to our sphere of influence being expanded over W-1.

Lastly GM West read a portion of a comment made by Ms. Munson, President of the JVIA. She said "that after a grant was secured for the Association (for their water well), Marina West insisted that the money for the well go to the Agency".

GM West stated that the Agency had suggested a joint project (combining funds from all sources).

On January 18, 2012 Ms. Munson quoted from page 44 of the LAFCO staff report that "BDVWA informally attempted to assist the JVIA in finding an acceptable resolution such as reverse osmoses". Munson went on to state "that her board was not notified of any attempt to assist and her board would not have accepted it because they have no faith in the Agency".

GMWest continued by stating this response is also untrue. The Agency did provide assistance to the County and gave them relevant information from the Conceptual Model Report. Also, Mr. Burkhart who was on the JVIA Board at the time suggested to the JVIA Board, that they come and talk to the Agency and he received a resounding "no". Also the Agency received a letter from the JVIA telling the Agency to "cease and desist and leave us alone". GM West continued stating that the Agency did attempt to help because the Agency that has the expertise.

ITEMS FOR NEXT AGENDA

Capital projects cost estimates

ADJOURNMENT - Director Burkhart adjourned the meeting at 11:30 a.m.



Bighorn-Desert View Water Agency

Board of Directors

Michael McBride, President Judy Corl-Lorono, Vice President David Larson, Director Terry Burkhart, Director J. Dennis Staley, Director

Marina D West, PG, General Manager



Agency Office 622 S. Jemez Trail Yucca Valley, CA 92284-1440

> 760/364-2315 Phone 760/364-3412 Fax

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BOARD OF DIRECTORS' SPECIAL MEETING MINUTES

BOARD MEETING OFFICE 1720 N. Cherokee Trail, Landers CA 9228 Tuesday, April 3, 2012 - 6:00 p.m.

CALL TO ORDER

Meeting convened by Board President Michael McBride at 6:00 p.m.

PLEDGE OF ALLEGIANCE

Led by Jim Hanley.

ROLL CALL

Directors Present: Michael McBride Judy Corl-Lorono David Larson Terry Burkhart J. Dennis Staley

Staff Present: Marina West Michelle Corbin

APPROVAL OF AGENDA

Motion to approve the agenda.

MSC (Larson/Corl-Lorono) unanimously approved.

CLOSED SESSION

LIABILITY CLAIM (Gov. Code Section 54956.95)

Claimant: Martha Oswalt

Claim Against: Bighorn-Desert View Water Agency

An anonymous person asked how long the closed session would be.

Adjourned to closed session at 6:02 p.m. - Reconvened from closed session at 6:13 p.m.

CLOSED SESSION REPORT

President McBride reported the Board has declined the claim from Martha Oswald.

AD HOC COMMITTEE REPORT AND RESOLUTION NO. 12R-15 SUPPORTING THE EXPANSION OF THE AGENCY SPHERE OF INFLUENCE

General Manager West gave the staff report.

GM West spoke about the recent letter the Agency had sent out to all W-1 property owners and had received many phone calls in favor of the expansion.

Vice President Corl-Lorono stated that she hopes to get a lot of feedback via the cards sent out with the Agency letter. People within W-1 have called her at home with concern about the tax/bond costs. She reminded the Board of the purpose of LAFCO and why the expansion should happen.

Director Staley stated said that it's good that the image of the Agency is improving. He also commented on the LAFCO meeting held for the community recently. He does not understand why the County Special Districts was allowed to campaign at that meeting.

No public comment.

Director Larson agreed that the Agency letter looked good and was very informative.

President McBride spoke about the definition of the sphere of influence.

MOTION, NO., 12-026

(After brief Board discussion), Vice President Corl-Lorono made a motion that we approve Resolution 12R-XX.. The motion was seconded Director Larson.

MSC1 (Corl-Lorono/Larson) unanimously approved.

SPECIAL DISTRICTS SELECTION ELECTION FOR THE REGULAR LOCAL AREA FORMATION COMMISSION (LAFGO) MEMBER

General Manager West gave the staff report.

No Public Comment

MOTION NO. 12-027

(After brief Board discussion), Director Larson made a motion to select Terry Burkhart for the vote of the Regular Local Area Formation Commission (LAFCO) member. Director Staley seconded the motion.

Roll Gall Vote:

Ayes: McBride, Corl-Lorono, Larson, Staley

Nays: None

Abstain: Burkhart
Absent: None

MSC¹ (Larson/Staley) motion carried. Director Burkhart abstained do to perceived conflict of interest.

CONSIDER APPROVING 3.6% COST OF LIVING ADJUSTMENT FOR ALL AGENCY EMPLOYEES AND AUTHORIZING INCLUSION IN THE FISCAL YEAR 2012/13 BUDGET

General Manager West gave the staff report.

GM West spoke about the various formulas' used to decide on the amount of a cost-of-living adjustment. She said that the FPREP Committee has recommended that the Agency use the Social Security Index to determine the COLA.

Anonymous person asked how this would affect his bill.

Director Larson stated that the FPREP Committee leaned towards the SS Index because it is nationally recognized and that the Committee realized that there had not been a CQLAsince 2008.

Director McBride stated that the Agency is under no obligation to do this every year,

Director Staley asked if anything was in place to reward employees that work above and beyond.

MOTION NO. 12-028

(After brief Board discussion), Director Larson made a motion for items 1-4 to authorize inclusion of a cost-of-living adjustment of 3.6%; to direct staff to revise the Employee Handbook to define the methodology for determining the cost-of-living to be the Social Security Administration Cost-Of-Living Adjustment publication in the future; to direct staff to revise the Employee Handbook to define the implementation period for any future cost-of-living adjustment to be the first payroll following July 1 and lastly to bring the revised Employee Handbook Resolution to the Board or formal adoption to a future regularly scheduled BOD meeting. Director Burkhart seconded the motion.

MSC1 (Larson/Burkhart) unanimously approved

REVIEW OPTIONS FOR DESIGNATING FUND SUB-ACCOUNTS FOR MONIES RETAINED IN THE LOCAL AGENCY INVESTMENT FUND

General Manager West gave the staff report.

Director Larson stated that they thought it would be more transparent to have these subaccounts. He would like to see \$50K populated right away in the emergency fund.

Director McBride agreed about the transparency.

The Board directed staff to speak to the auditor, create sub-accounts and draft a policy.

Public comments:

An anonymous person stated that due to his past work experience; he see's this as a good idea formaking financial decisions.

Lary Callandar of Yucca Valley stated this is a good idea but the execution is the wrong time unless a CPA words it so that we still show profit in the audit.

MOTION NO. 12-029

(After brief Board discussion), Director Larson made a motion that the Agency designate the fund sub accounts and draft a policy as to how it will work. The motion was seconded by Director Burkhart.

MSC1 (Larson/Burkhart) unanimously approved.

Adjourned for a Break at 7:00 p.m. - Reconvened from Break at 7:12 p.m.

Approved 04-24-2012

CONSIDER ATTENDANCE TO THE CALIFORNIA SPECIAL DISTRICTS ASSOCIATION LEGISLATIVE DAYS, MAY 16-17, 2012 AT AN ESTIMATED COST OF \$1,533 PER DIRECTOR

General Manager West gave the staff report.

No public comment.

MOTION NO. 12-030

(After brief Board discussion), Director Larson made a motion to approve the Board's attendance at The California Special Districts Association Legislative Days to be held on May 16-47, 2012, costing a maximum of \$1,533 per Director. Director Burkhart seconded the motion.

MSC1 (Larson/Bukhart) unanimously approved.

DISBURSEMENTS FEBRUARY 2012

No Public Comment

MOTION NO. 12-031

Director Burkhart made a motion to approve the Disbursements (Check Register - Payment of Bills) for February 2012. Vice President Corl-Lorono seconded the motion.

MSC1 (Bukhart/Corl-Lorono) unanimously approved.

CONSENT ITEMS

- a. Financial Statements February 2012 4
 - 1. Balance Sheet
 - 2. Statement of Revenue and Expense
 - 3. General Account (Union Bank)
 - 4. Disbursements
 - 5. Local Agency Investment Fund Balance Timeline
- b. Consumption & Billing Comparison Report, February 2012
- c. Service Order Report, February 2012
- d. Production Report, February 2012
- e. Special Board Meeting Workshop Minutes, February 10, 2012
- f. Agency's Appropriation Limit for Fiscal Year 2011/2012 (First reading February 28, 2012)
- g. Request from Morongo Basin Conservation Association for Partnership and Financial Support (\$900) for the 2012 Desert-Wise Living Program Landscape Tour April 22, 2012 (Recommended by FPREP Committee)
- h. Approve Completion of the Ames Valley Water Basin Monitoring Report.
 - Consider purchase of a 2012 Dodge Ram (four wheel drive) Vehicle and Accessories for the Operations and Maintenance Staff at a Total Estimated Cost of \$28,150. (Recommended by FPREP Committee)
- j. Board to consider a Policy to Mandate Sexual Harassment Training for Directors as is Prescribed by AB 1825 (Recommended by FPREP Committee).
- **k.** LAIF Signatories for Authorizing Investment of Monies into the Local Agency Investment Fund (Administrative Process)

No Public comment.

MOTION NO. 12-032

Director Larson made a motion to approve consent items a - k with the exception of i. The motion was seconded by director Burkhart.

MSC1 (Larson/Burkhart) unanimously approved.

MATTERS REMOVED FROM CONSENT ITEMS

Item i, Consider purchase of a 2012 Dodge Ram (four wheel drive) Vehicle and Accessories for the Operations and Maintenance Staff at a Total Estimated Cost of \$28,150. (Recommended by FPREP Committee)

GM West gave the staff report.

No Public Comment

MOTION NO. 12-033

Vice President Corl-Lorono made a motion to approve item i. The motion was seconded to Director Larson.

MSC1 (Corl-Lorono/Larson) unanimously approved.

PUBLIC COMMENT PERIOD

No Public Comment

VERBAL REPORTS

GENERAL MANAGER'S REPORT

GM West stated that she wanted the Board to know that the Morongo Basin Conservation Association will be pleased that we have approved their request and that two Board members and two staff members are participating as volunteer docents for the event.

DIRECTORS' REPORT

Director Staley stated that he is concerned with the Board's image and when the opportunity comes, we should participate in outreach. He mentioned the new Landers sign at the post office and thought it would be a good idea to plant some cactus near that sign.

Director Larson stated that he had chaired the FPREP Committee and that it was an honor and privilege to be part of it.

Vice President Corl-Lorono reported that she had recently attended a webinar on upcoming legislated issues. One issue being a state tax for Agencies that purchase from out of the area (SB 1125) and AB 1543 which will prohibited internet purchases outside the country for parts. She also reported that she had attended a webinar from the Water Education Foundation. In that webinar they discussed infrastructure and the importance of maintaining it. Lastly she mentioned that the directors all have assignments and the importance of attending meetings that they commit to

PRESIDENT'S REPORT- None

FUTURE AGENDA ITEMS

No future agenda items.

ADJOURNMENT - President McBride adjourned the meeting at 7:42 p.m.

Approved by:

BIGHORN DESERT VIEW WATER AGENCY AGENDA ITEM SUBMITTAL

Meeting Date: April 24, 2012

To: Board of Directors Budgeted: N/A

Budgeted Amount: N/A

Cost: N/A

From: Marina D. West General Counsel Approval: N/A

CEQA Compliance: N/A

Subject: Adopt Resolution No. 12R-XX Consenting to Join the Health Benefits Program of

the Association of California Water Agencies (ACWA) Joint Powers Insurance Authority (JPIA), Ratifying the Action of the Health Benefits Authority (HBA)

Board of Directors to Terminate the HBA Joint Powers Agreement

SUMMARY

RECOMMENDATION

The Board considers taking the following action(s):

1. Adopt Resolution No. 12R-XX Consenting to Join the Health Benefits Program of the Association of California Water Agencies (ACWA) Joint Powers Insurance Authority (JPIA), Ratifying the Action of the Health Benefits Authority (HBA) Board of Directors to Terminate the HBA Joint Powers Agreement.

BACKGROUND/ANALYSIS

The Agency currently provides dental, vision and life insurance benefits via the ACWA Health Benefits Authority (HBA). The HBA has proposed transitioning its operations and health benefits programs into the ACWA Joint Powers Authority (ACWA-JPA). The HBA will be dissolved and all existing programs will remain unchanged.

The HBA and ACWA-JPIA share many of the same goals and serve many of the same members, with more than 2/3 of the combined membership participating in both programs. The combination of the programs will reduce overall costs and improve operations. Costs will be monitored and the most effective way to pass any savings along to the members will be determined over time.

The HBA bylaws require that 75% of the HBA members must agree to the change within 90 days. The attached resolution has been provided by HBA. The signed resolution is requested by April 30 and no later than May 31. Failure to adopt the resolution may result in loss of coverage.

For further information, a Frequently Asked Questions list prepared by ACWA is attached.

PRIOR RELEVANT BOARD ACTION(S)

None



April 1, 2012

Mr. Micheal McBride President Bighorn-Desert View WA 622 S Jemez Trail Yucca Valley, CA 92284

RE: Urgent Action Needed to Retain Health Benefits

Dear Mr. McBride.

On March 7 you received a notice announcing the impending transition of the ACWA Health Benefits Authority (HBA) into the ACWA/Joint Powers Insurance Authority (ACWA/JPIA). On March 28, the HBA Board voted to dissolve the HBA and transfer the health benefits program to ACWA/JPIA.

We need your immediate assistance to secure the needed concurrence within the mandated 90-day window. The following steps must be taken to ensure a seamless transition and to retain the employee benefits currently provided by HBA:

- 1. Your board will need to pass the enclosed resolution. The resolution consents to join the Employee Benefits Program of the ACWA/Joint Powers Insurance Authority and ratifies the action of the ACWA Health Benefits Authority Board of Directors to terminate the Health Benefits Authority Joint Powers Agreement. Please place the resolution on your next available agency agenda for action.
- **2. Return the signed resolution:** HBA is requesting the signed resolution by April 30, 2012 (or sooner), if possible, and no later than May 31, 2012. Please mail to:

ACWA HBA 4600 Northgate Blvd, Suite #100 Sacramento, CA 95834

Failure to return the signed resolution by June 29, 2012, may result in loss of coverage for your district employees.



A dedicated website is available to assist you with the process. It includes a list of Frequently Asked Questions (FAQs), model resolutions, a timeline and other information. Please go to www.hba-transition.com.

An informational webinar is scheduled for Wednesday, April 18, at 10 a.m. Registration details will be provided in the near future.

If you have any further questions, please contact Nancy Stangel, JPIA Director of Administration (800-231-5742, ext. 3133, nstangel@acwajpia.com) or Cynthia Harding, HBA Operations Manager (800-736-2292, ext. 5, cynthiah@acwa.com)

Thank you for your help.

Sincerely,

Rick Gilmore Board President ACWA HBA

Attachment: Sample resolution

RESOLUTION NO. 12R-

RESOLUTION APPROVING MEMBERSHIP IN THE ACWA JOINT POWERS INSURANCE AUTHORITY, CONSENTING TO JOIN THE HEALTH BENEFITS PROGRAM OF THE ACWA JOINT POWERS INSURANCE AUTHORITY, RATIFYING THE ACTION OF THE ACWA HEALTH BENEFITS AUTHORITY BOARD OF DIRECTORS TO TERMINATE THE HEALTH BENEFITS AUTHORITY JOINT POWERS AGREEMENT, AND AUTHORIZING AND DIRECTING THE BIGHORN-DESERT VIEW WA TO EXECUTE ALL NECESSARY DOCUMENTS

WHEREAS, this Agency entered into a joint exercise of powers agreement ("HBA Agreement") with the Association of California Water Agencies Health Benefits Authority ("HBA") in order to pool its purchasing needs with other public agencies desiring to provide their employees with comprehensive and economical health and welfare benefits; and

WHEREAS, this Agency entered into a Health Benefits Memorandum of Understanding ("MOU") to enroll in specific health programs and ancillary programs ("Existing Employee Benefits Coverage") offered by HBA and agreed to abide by: (1) the HBA Agreement; (2) all rules and procedures established by HBA in the administration of the Agency's Existing Employee Benefits Coverage; and (3) all underwriting, eligibility, and contribution requirements in Appendix A to the MOU; and

WHEREAS, certain public agencies have entered into a joint exercise of powers agreement ("JPIA Agreement") with the Association of California Water Agencies Joint Powers Insurance Authority ("JPIA") in order to pool their purchasing needs with other public agencies desiring to obtain comprehensive and economical public liability, workers' compensation, unemployment, health, accident and/or dental, or property coverage; and

WHEREAS, JPIA is both qualified and authorized by the laws of the State of California to administer the Existing Employee Benefits Coverage to this Agency through JPIA's Employee Benefits Program; and

WHEREAS, during a noticed special meeting held on February 6, 2012, the HBA Board of Directors unanimously voted to transfer all HBA operations and administrative functions to JPIA on or about July 1, 2012, and to pursue a merger of the two public agencies after which the HBA Agreement would be terminated; and

WHEREAS, pursuant to Article 22 of the HBA Agreement, the HBA Agreement may be terminated by the HBA Board of Directors subject to ratification by the written consent of three-fourths of the HBA Member agencies within 90 days of the HBA Board's action, provided, however, that HBA and the HBA Agreement shall continue to exist for the purpose of concluding all functions necessary to wind up HBA's affairs; and

WHEREAS, during a noticed regular meeting held on March 28, 2012, the HBA Board of Directors approved HBA Resolution 12-03-02: (1) electing to terminate the HBA Agreement pursuant to Article 22 of the HBA Agreement and, except as provided in clause 2 below, said termination shall become effective upon ratification by the written consent of three-fourths of the HBA member districts and agencies; (2) recognizing that pursuant to Article 22 of the HBA Agreement, HBA and the HBA Agreement shall continue to exist for the purpose of winding up and dissolving the business affairs of HBA, and acknowledge that the HBA Board of Directors is vested with all powers of HBA for doing the same; and (3) declaring that Resolution 12-03-02 shall take effect on April 1, 2012, thereby beginning the 90-day ratification period.

NOW, THEREFORE, BE IT RESOLVED that the Directors of Bighorn-Desert View WA hereby:

. – – ,	
1.	Agree that the JPIA Agreement and the HBA Memorandum of Understanding referred to in the recitals above are incorporated in this resolution by reference.
2.	Approve this Agency's membership in the Association of California Water Agencies Joint Powers Insurance Authority.
3.	Consent to join JPIA's Employee Benefits Program and acknowledge, represent, and agree that all terms and conditions of the HBA Memorandum of Understanding apply to the provision of this Agency's Existing Employee Benefits Coverage through JPIA.
4.	Authorize and direct this Agency's to cooperate fully with HBA and JPIA in the execution of any other documents and in the completion of any additional actions that may be necessary or appropriate for the purpose of ensuring that this Agency's Existing Employee Benefits Coverage continues without lapse through JPIA.
5.	Ratify the action of the HBA Board of Directors to terminate the HBA Agreement, to be effective as provided in Article 22 of the HBA Agreement.
6.	Direct the Secretary of the Board of this Agency to immediately send a certified copy of this resolution to: Association of California Water Agencies Health Benefits Authority, 4600 Northgate Blvd, Suite 100, Sacramento, California, 95834.
	PASSED AND ADOPTED by the Directors of Bighorn-Desert View WA this day of, 2012, by the following vote:
	President Attest by:
Μ	ichael McBride David Larson

Marina West

From: HBA HBA [HBA@acwa.com]

Sent: Friday, April 06, 2012 9:25 AM

Cc: Allison Hartill; Angela Cassity; Cynthia Harding; HBA Tmp; Susan Schnider; Veronica Cobian

Subject: HBA Alert - PLEASE DO NOT REPLY

Good Morning,

This is a follow-up to the notice your agency received on Wednesday, March 7, 2012 regarding the impending transition of the ACWA Health Benefits Authority (HBA) into the ACWA/Joint Powers Insurance Authority (ACWA/JPIA). On Wednesday, March 28, 2012 the HBA Board voted to dissolve HBA and transfer the health benefits program to ACWA/JPIA. In order to proceed with this transition, HBA must secure the concurrence of 75% of HBA members within a 90 day window specified in the bylaws of the Health Benefits Authority.

The deadline to receive the signed resolution is Friday, June 29, 2012.

To ensure IHBA meets this 90 day concurrence deadline and to avoid a potential negative impact on our member's benefits, we are asking for your assistance. A "kit" that outlines our next steps and contains your agency's resolution was mailed on Monday, April 2, 2012 to your agency's President and/or General Manager. Please be sure to contact your agency's President and/or General Manager to ensure the resolution makes it onto your next Board Meeting agenda. Your help and assistance with this transition would be appreciated.

The information contained in the "kit" and FAQs can be found on the HBA transition website at http://www.hba-transition.com/.

If you have any questions about the documents, accessing the webpage, or have not received your "kit", please contact Emeline Abadie at <a href="https://documents.org/normal/batabout-newton-newto-newto-newto-newto-newto-newto-newto-newto-newto-newto-newto-newto-newto-newto-newto-ne

Again, thank you for your assistance.

This email and any attachments have been sent to you by the Association of California Water Agencies (ACWA) at the email address you provided for this type of material. If you no longer wish to receive email of this type, please contact ACWA by telephone at 1-888-666-2292 and ask for the Information Technology Department.

HBA - ACWA/JPIA Transition

Frequently Asked Questions

What is being proposed?

The ACWA Health Benefits Authority (HBA) has proposed transitioning its operations and health benefits programs into the ACWA/Joint Powers Insurance Authority (ACWA/JPIA). HBA would be dissolved and all of the assets and liabilities would be transferred to ACWA/JPIA. All of HBA's existing programs and offerings would remain unchanged.

What are the benefits of this transition?

HBA and ACWA/JPIA share many of the same goals, including member service, promoting employee health, keeping costs downs and creating value for members. Transitioning HBA into ACWA/JPIA will allow the two organizations to combine resources, reduce overall costs and improve operations. Potential cost savings would be passed on to all agencies that participate in programs offered by HBA and ACWA/JPIA. With more than two-thirds of the combined membership participating in both programs, the transition will also help eliminate confusion regarding the responsibilities of each.

What steps are needed to make the transition happen?

In order to proceed with the transition, HBA must secure the concurrence of 75% of HBA members within the 90-day window specified in HBA's bylaws. That must be achieved by July 1, 2012. The following steps must be taken to ensure a seamless transition and to retain the employee benefits currently provided by HBA:

- 1. Adopt a resolution. The board of directors of each HBA member agency must adopt a resolution consenting to join the Employee Benefits Program of the ACWA / Joint Powers Insurance Authority and ratifying the action by the HBA Board of Directors to terminate the Health Benefits Authority Joint Powers Agreement. The resolution should be placed on agencies' agendas as soon as possible.
- 2. Return the signed resolution. HBA is requesting the signed resolution by April 30, 2012, (or sooner) and no later than May 31, 2012. Resolutions should be mailed to:

ACWA HBA 4600 Northgate Blvd., Suite #100 Sacramento, CA 95834

What is the timeline for the transition?

- April 1: Start of the 90-day period in which at least 75% of the HBA membership provides written consent to dissolve
- First week of April: Information kit with required resolutions mailed to HBA members; HBA staff to follow-up with HBA members
- April 18: ACWA/JPIA and HBA staff will conduct a webinar at 10 a.m. for members to review information and ask questions
- May 8: ACWA/JPIA and HBA staff will conduct a seminar at 10 a.m. at the ACWA Spring Conference in Monterey
- May-June: Staff to follow-up with HBA members to send required resolutions to HBA
- July 1: Target date to complete transition

If approved, when will the change become effective?

If 75% of HBA membership approves, the transition becomes effective July 1, 2012.

What specific steps do the board of directors for each current HBA member need to take?

The governing board of each member agency needs to adopt the provided resolution and return to HBA by May 31, 2012. Sample resolutions are available on the transition website, www.hba-transition.com.

What if my district doesn't return the resolution?

Failure to return the signed resolution by June 29, 2012, may result in loss of coverage for district employees.

How will the potential cost savings for members be distributed among participating members?

While cost savings are expected, it is too early to say with specificity how the savings will be distributed to the membership. ACWA/JPIA will be monitoring all costs and potential savings and will determine the most effective way to pass them on to participating members. Information will be shared with members as it becomes available.

Will this change result in a cost or risk increase for ACWA/JPIA members?

No. Each program in the ACWA/JPIA is maintained and funded separately from the other programs. The Employee Benefits Program will operate as in the past and be a separate program.

Will this transition require a change to the current ACWA/JPIA structure, board composition or policies?

The only change to the ACWA/JPIA structure will be an increase in the number of board members to accommodate HBA members that are not currently ACWA/JPIA members. The Employee Benefits Program will be added to ACWA/JPIA's governing documents, and an Employee Benefits Committee will be added.

Why wasn't this option considered as part of the recent restructuring of HBA?

The economic environment combined with the unknown impact of the proposed national health care program has changed the business model. Many of the desired goals for future services and long-term savings are already being developed at ACWA/JPIA and, as such, can now be implemented simultaneously. Recent opportunities and immediate needs have developed at both organizations which, when combined, will make both organizations stronger.

Will HBA members have access to all ACWA/JPIA programs?

Yes, but they will have to apply for and be approved by the Executive Committee. Each program requires a separate application.

Does an agency still have to be an ACWA member to receive health benefits through this new arrangement with ACWA/JPIA?

Yes. An agency must be a member of ACWA to be eligible for all ACWA/JPIA programs and services, including health benefits.

How does this transition impact ACWA?

There will be no immediate impact on ACWA on July 1, 2012. ACWA will continue to work with both HBA and ACWA/JPIA to transition the services it now provides to HBA. For the longer-term, any financial issues arising from the merger between HBA and ACWA/JPIA will be incorporated into the process to develop ACWA's 2013 budget.

What happens to the HBA board of directors?

The HBA board of directors will cease to exist when the transition is complete.

If the change is not approved, what will be the course of action?

If written concurrence of at least 75% of the HBA membership has not been received by July 1, 2012, HBA will enter into an agreement for administrative services provided by ACWA/JPIA. The 90-day process to get 75% concurrence for the transition would begin again.