


TO: BOARD OF DIRECTORS
FROM: BRUCE BUEL 
DATE: JULY 3, 2009

AGENDA ITEM
E-4
JULY 8, 2009

CONSIDER OTNA REQUEST RE BANNERS

ITEM

Consider request from OTNA to assist in installation and removal of banners and flags
[PROVIDE POLICY GUIDANCE]

BACKGROUND

Attached is a letter from OTNA requesting assistance with the banners for the holiday season and for special events and with flags on Memorial Day, Independence Day and Veterans Day. OTNA indicates that they have \$855.86 in a fund available to defray NCSD's out of pocket cost.

NCSD does not have a lift bucket and would have to rent a truck for each event for installation and removal at approximately \$150 per day times two days per event resulting in rental costs of \$300. Assuming two person hours for securing the truck and six person hours (a crew of two times three hours) times two times per event then the total number of man hours would be 16 hours. At 2009 Maintenance Worker Loaded Hourly Cost of \$31.29 per hour then the labor cost would be \$500.64. Thus, the cost to NCSD per event would be approximately \$800 assuming no allocation of overhead.

Assuming six events per year, the annual out of pocket cost to NCSD would be \$4,800.

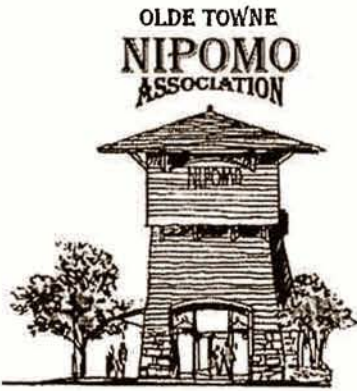
FISCAL IMPACT – SEE ABOVE

RECOMMENDATION

Staff believes that it would be much more cost effective for OTNA to contract with a private maintenance firm who has the appropriate equipment and much lower labor costs. Should the OTNA still wish to contract with NCSD, staff would recommend that an agreement be negotiated between the parties that funds NCSD's out of pocket cost.

ATTACHMENTS

- OTNA Letter



Olde Towne Nipomo Association

PO Box 1171
Nipomo, CA 93444
Phone: 805-929-2352
Fax: 805-929-2041
Email: info@OTNipomo.org
Website: www.OTNipomo.org

June 15, 2009

Bruce Buel
Nipomo Community Service District
148 S. Wilson
Nipomo, CA 93444

Dear Bruce,

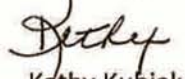
The Olde Towne Nipomo Association (OTNA) would like to propose an agreement with the Nipomo Community Services District regarding the set up and removal of seasonal or event banners and American flags on the various light poles that are located on West Tefft Street and Thompson Avenue, in the Olde Towne Commercial Corridor. OTNA currently has \$855.86 allocated for this purpose, which would be turned over to NCSD should your Board of Directors agree to this arrangement.

There a total of 30 light poles on West Tefft and Thompson Avenue. However, not all poles will receive banners or flags, only those that have flag holders or 2 banner arms. We have 20 flags, 12 pairs of event banners and 20 pairs of seasonal banners at this time.

- Seasonal banners would be hung on all light poles that have double banner arms, the 1st of December of each year and removed the first week in January.
- American Flags would be hung on those poles that have flag holders, the week before holidays and removed the day after the holiday. Flags should be hung for Memorial Day, 4th of July and Veteran's Day.
- Event banners would be hung one month prior to any event and removed the day after the event. OTNA will provide dates of events to NCSD.

Please pass this proposal on to the Board of Directors. Should there be any questions regarding this proposal, please contact me at 929-1241, I will be happy to provide answers.

Sincerely,


Kathy Kubiak
President

RECEIVED

JUN 16 2009

NIPOMO COMMUNITY
SERVICES DISTRICT

TO: BOARD OF DIRECTORS
FROM: BRUCE BUEL
DATE: JULY 1, 2009

AGENDA ITEM
E-5
JULY 8, 2009

WELL LEVEL MONITORING AND REPORTING

ITEM

DISCUSS EXISTING WELL LEVEL MONITORING AND REPORTING PROGRAM [PROVIDE POLICY GUIDANCE].

BACKGROUND

The District measures groundwater surface elevations in District wells on a monthly basis using either the sounding tape method or the pressure reading method. In addition, the groundwater surface elevation in several of the District's wells can be monitored remotely. The Board directed staff to review the District's existing program and develop a protocol to ensure that the groundwater surface elevation data being collected by the District is accurate and relevant.

The District hired Michael LeBrun, M.S. LeBrun Environmental Engineering, to review the District's current procedure for well data collection and reporting, develop a measurement protocol and provide a recommendation for monitoring improvements. The attached Technical Memorandum outlines Mr. LeBrun's findings and recommendations.

As discussed in the Technical Memorandum, not all of the well measurement methods are available at all of the District's wells and accuracy of the existing methods is limited. Several of the wells cannot be measured using a tape since there is no sounding tube installed and the well casing is crowded with well pump related equipment. Several of the wells do not have dedicated air lines utilized for the direct pressure reading method and the gauges used for this method limit accuracy to plus or minus 23 feet. The surface mounted pressure transducers utilized for the remote monitoring method need to be calibrated but since not all measurement methods are available at each well and the accuracy/repeatability of the current methods is low, it is difficult to compare measurements between the various methods to validate the groundwater surface elevation data.

The Technical Memorandum recommends that the District focus its efforts to collect groundwater surface elevation and drawdown data for the production wells to be able to determine and use specific capacity for each well to track well health and supply system readiness. The report also provides a summary of improvements recommended for each well. The types of improvements recommended vary by well and include installing an access tube for a dedicated airline and to allow use of a sounding tape, installing a dedicated air line, installing an accurate pressure gauge, and installing a down-hole pressure transducer. Furthermore, the report recommends that the remote well level monitoring system be calibrated at each well. This can be performed once the new air gauges are installed at all of the wells and once the dedicated air lines are installed where necessary.

FISCAL IMPACT

The cost to prepare the staff report involves the use of budgeted staff time and approximately \$3500 in budgeted consultant costs to M.S. LeBrun Environmental Engineering. The cost to implement the well level measuring improvements is estimated at approximately \$23,000 and the cost to calibrate the remote monitoring system is estimated at approximately \$8000 for the

eight existing production wells equipped with the remote monitoring system. Funding for these costs is not currently budgeted.

RECOMMENDATION

Staff recommends that your Honorable Board discuss the staff report, Technical Memorandum and provide policy guidance.

ATTACHMENTS

- Technical Memorandum Measuring Groundwater Surface Elevations in District Wells dated June 11, 2009

M. S. LeBrun Environmental Engineering
PE C55787
2268 Callender Rd., Arroyo Grande, CA 93420
mshenve@verizon.net
805-305-1885

Technical Memorandum

To: Bruce Buel
General Manager
Nipomo Community Service District

From: Michael LeBrun, PE 55787 *Michael LeBrun*

Copy: Peter Sevcik, District Engineer
Tina Grietens, Utility Superintendent

Date: June 11, 2009

Subject: Measuring Groundwater Surface Elevations in District Wells

This Memorandum responds to Request for Services Task Order #09-001, *Supply Well Level Monitoring Protocol*, dated March 6, 2009.

Background

Nipomo Community Services District (District) has thirteen wells. Eleven of the District's wells are completed in the Nipomo Mesa Management Area (NMMA) aquifer, a sub area to the Santa Maria Groundwater Basin; two are completed in the Nipomo Valley Aquifer. Currently, nine of the wells are available for supplying the District's fresh water distribution system. See Table 1, below, for a summary of well status.

Table 1: District Wells

| Well | Use Priority | Approximate Flow Rate (GPM) | Aquifer |
|---------------|---------------|-----------------------------|---------|
| Eureka | Primary | 1000 | NMMA |
| Via Concha | Primary | 750 | NMMA |
| Sundale | Primary | 1000 | NMMA |
| Knollwood | Primary | 240 | NMMA |
| Black Lake #3 | Primary | 165 | NMMA |
| Black Lake #4 | Primary | 375 | NMMA |
| Bevington | Secondary | 370 | NMMA |
| Olympic | Secondary | 130 | NMMA |
| Cheyenne | Not Available | 100 | NMMA |
| Mandi | Not Available | 100 | NMMA |
| Omiya | O.O.S. | Not Applicable | NMMA |
| Church | Tertiary | 120 | NVA |
| Savage | O.O.S. | Not Applicable | NVA |

Notes:

GPM = Gallons per minute

O.O.S. = Out of Service

NMMA = Nipomo Mesa Management Area (of the Santa Maria Groundwater Basin)

NVA = Nipomo Valley Aquifer

Groundwater from the NMMA provides nearly 100% of District water supply needs (a small fraction of supply is provided by the Nipomo Valley Aquifer). Therefore, the health of the Nipomo Mesa Management Area aquifer and the operational readiness of the District's production wells are issues of paramount importance to the District.

Groundwater surface elevation (GSE) is measured in District wells regularly and reported to the Board of Directors monthly to inform District understanding of NMMA aquifer health.

The District desires this GSE information to be as accurate and informative as possible in regard to overall basin and individual well, health and readiness. Therefore, this review of the District's current GSE data collection and reporting methods has been undertaken.

Status

GSE measurements, which are reported to the Board, are made by one of two methods:

1. Direct tape measurement: An audible sounding tape is lowered down the well and a measurement is made relative to fixed reference point at the top of the well casing.
2. Pressure reading method: An air pressure reading at the well is converted to a depth measurement. A pressure reading is obtained by bleeding air through an air line of a *known* length that is secured within the well casing. The backpressure developed in the hose is read off a gauge and is directly proportional to the depth of water above the hose end. Knowing the length of the air line, the GSE is calculated to a fixed reference at top of casing.

In both cases, the staff technician notes the well pumps operational status (on/off) along with the GSE measurement. To provide a comparison between wells and a 'picture' of basin health, the GSE is referenced to mean sea level, and reported.

The District also has remote GSE monitoring at a number of wells, as further discussed below. This remote system utilizes a pressure reading method. Readings from this system are not typically included in the monthly GSE report to the Board.

Table 2. (below) summarizes the status of each well's available method(s) of GSE measurement. In Table 2., reference to "non-dedicated air line" indicates the well has a single access tube/line which is normally used for chlorine injection. Once a month, the chlorine injector is disconnected from the line and a pressure measurement is obtained by connecting the compressor outlet. The pressure gauge is read directly and recorded. Chlorine injection is reconnected and the air compressor is secured. *In the absence of a dedicated air line, only manual pressure readings can be made – remote/continuous GSE monitoring is not available.*

Table 2. District Well Measurement

| Well | Measurement Method |
|---------------|--|
| Eureka | Non-dedicated air line. Direct pressure measurements only. Will not accept sounding tape. |
| Via Concha | Non-dedicated air line. Direct pressure measurements only. Will not accept sounding tape. |
| Sundale | Direct and remote pressure readings. Sounding tape access is limited by pump/motor configuration. |
| Knollwood | Out of service during this reporting period. Direct and remote pressure measurements and tape measurements will be available. |
| Black Lake #3 | All methods (direct and remote pressure, tape access). Dedicated air line. |
| Black Lake #4 | All methods (direct and remote pressure, tape access). Dedicated air line. |
| Bevington | Non-dedicated air line. Direct pressure measurements only. Will not accept sounding tape. |
| Olympic | All methods (direct and remote pressure, tape). Dedicated air line. |
| Cheyenne | Sounding tape readings only. Well is equipped with a pressure line and gauge. No compressor or remote monitoring capability since the well has not yet been placed in service and power to the well is normally off. |
| Mandi | Sounding tape readings only. Well is equipped with a pressure line and gauge. No compressor or remote monitoring capability since the well has not yet been placed in service and power to the well is normally off. |
| Omiya | Well is out of service. GSE is not measured. |
| Church | Direct pressure gauge measurements only. Will not accept sounding tape. No telemetry for remote monitoring. Well is used sparingly. |
| Savage | Direct tape measurement only. No air line or telemetry system. Well is not connected to supply system. |

Measurement Method Limitations and Accuracy

Measuring tapes and air lines can be difficult or impossible to deploy in production wells, which are often crowded by the pump discharge line, the drive shaft or electrical power lines, and the chlorine injection line. It is not uncommon for sounding tapes to become lodged, and in some cases 'lost', down a well. It is nearly impossible to run an air line down a well from surface. A dedicated sounding tube (typically ½ to 1-inch PVC pipe) running from surface to near the well pump eliminates the access problem in both cases. Generally, sounding tubes must be installed during pump installation/removal events. Most District wells that are measured by tape have 3/4"-PVC sounding tubes.

Production wells with surface motors driving pumps through deep shafts (i.e. District wells; Eureka, Via Concha, Bevington, and Sundale wells), use food-grade oil for lubrication. This lubrication oil can build up on the water surface within the well casing and interfere with tape and pressure readings.

Sounding tapes can only be read manually, thus staffing resources limit the frequency of monitoring by this method. It takes approximately 5-staff hours to read and record GSE in all thirteen District wells. Tapes are easily read, accurate to a fraction of an inch, and repeatable with good precision.

Accuracy of the current pressure gauges limit direct pressure readings to plus or minus 10-psi (23.1-feet). This gauge limitation means manual pressure readings are difficult to repeat and have low precision and accuracy.

Both pressure methods require a pressure source; The District uses small 110vac compressors, fixed at the well head. Setting the compressor and airflow rate properly for a steady pressure reading and/or continuous remote monitoring is challenging and presents an additional opportunity to introduce error. Pressure transducers, used for remote measurements, require regular calibration. If properly sized and calibrated, these devices can be quite accurate. The calibration of the District's pressure transducers is being performed by a consultant and was not understood by District staff. Current calibration methods of the remote GSE monitoring system was not further investigated during the preparation of this memorandum.

Contraction/expansion or meander of the air line over the 300-500 foot run can introduce error on the order of inches or feet. An error of this type should remain fixed over time and therefore only effects inter-well comparisons.

For inter-well comparison, the accuracy of both methods is directly dependent on the accuracy of the wellhead's reference to mean sea level. Reference elevations are obtained by survey, GPS reading, or published topographic maps/data. Depending on method used, reference elevation accuracy can be as low as +/- 20 feet. District well elevations were obtained by GPS/Survey methods and are reported to the 1/100th of an inch.

Table 3. (below) presents a comparison of GSE measurements taken in District wells *Black Lake #3* and *Black Lake #4*. Elevations were recorded manually by sounding tape, by direct reading of the pressure gauge at the well head, and by reviewing data collected by the District's remote monitoring system. All readings were made within minutes of each other and the pump in each well was in a steady state *operating* condition. These data illustrate the potential for variance between the measurement methods. A worksheet supporting these data is included as Appendix 1 to this Memorandum.

Table 3. GSE Measurement Comparisons, Black Lake #3, and Black Lake #4

| Well (Surveyed elevation) | Tape | Direct Pressure | Remote Pressure |
|---------------------------|------|-----------------|-----------------|
| Black Lake #3 (319.1) | -68 | -16 | -22 |
| Black Lake #4 (301.4) | -58 | -72 | -20 |

*Notes:**Measurements taken May 7, 2009**All measurements in feet, referenced to mean sea level.*Measurement Method Options

An additional means of obtaining a pressure driven GSE measurement is by use of a direct reading down-hole pressure transducer. The device is lowered directly into the well, via an access tube, and produces an electrical signal calibrated to feet of water.

Early in this review process it was assumed the District's current method of obtaining remote GSE readings (back pressure reading on down hole air lines) was ineffective and should be replaced with down-hole direct reading pressure transducers. Upon review of the District's system and direct reading down-hole transducers, a wholesale change of equipment is not recommended at this time, for the following reasons:

- There is nothing inherently wrong with the District's current system or anything necessarily superior about the down-hole transducer system. Both require regular maintenance and upkeep.
- Equipment costs per well for down-hole direct reading pressure transducers is about \$3,000.00. These devices require a minimum 1"-PVC access tube to ensure ready deployment and recovery.

The District may consider outfitting a well or two with a down-hole transducer and making a field comparison of the two approaches (see Recommendation, Page 9)

Well Drawdown and Specific Capacity

A general limitation of measuring GSE in production wells is drawdown. Drawdown is defined as the difference between a well's static or non-operating GSE and its GSE during production. Drawdown is caused by an aquifer's resistance to flow, and a well's resistance to flow, and is directly proportional to pumping rate. Drawdown can range from tens of feet or to 100-feet or more. Recovery of the water table can take minutes to weeks. Clearly, drawdown can introduce significant error when static and operational GSE data are directly compared. Therefore, production well GSE data must be carefully collected and considered.

While drawdown complicates the use of production well GSE data in a basin wide context, tracking drawdown in a production well does provide important information about individual well health. A well's Specific Capacity is defined as the amount of drawdown for a given flow rate. Since aquifer characteristics of conductivity and transmissivity can be considered constant over time, changes in well Specific Capacity or changes in the time it takes to achieve steady

state static and pumping GSEs, indicates a change in the well health. For this reason, measuring well Specific Capacity (drawdown/flow rate) on a regular basis and tracking changes over time is highly recommended for public supply wells.

Measuring drawdown is accomplished by measuring depth to water at steady state with the pump off (or on) turning the pump on (or off) measuring depth at regular time intervals until depth again stabilizes. Specific capacity of the well is computed by dividing the flow rate by the steady state drawdown.

When a well is equipped with continuous GSE monitoring, as is the case with five District wells (Black Lake 3, Black Lake 4, Olympic, Sundale, Knollwood – See Table 2. above), the well's operational history can be reviewed for periods of well idle and run time where depth readings stabilize. A cursory review of District remote monitoring records for May 2009 provides interesting data, worthy of further investigation (Table 4, below). This information must be considered preliminary since the District's remote pressure/GSE monitoring system is not well understood.

-NEXT PAGE-

Table 4. Preliminary Drawdown and Recovery Data

| Well | Date: Summary of Raw Data | Notes |
|---------------|---|--|
| Black Lake #3 | <p>5/2-3/9: Steady state (SS) pumping GSE 345 feet from top of casing. Pump idled for 2-hours. No change in GSE.</p> <p>5/4/9: SS pumping GSE 344-feet. Pump idled for 2-hours. GSE climbs to SS 330-feet in .75 hours. Following pump start up, GSE returns to SS 344-feet in 2-hours.</p> <p>5/6/9: SS pumping GSE 345-feet. Pump idled for 2 hours. GSE climbs to 320-feet (may not be steady) in 2 hours. Following pump start up, GSE returns to 345-feet in 2-hours.</p> <p>5/9/9: SS pumping GSE 345-feet. Pump idled for 2 hours. GSE climbs to SS 314-feet in <u>5-minutes</u>. Following pump start up, GSE returns to 345-feet in 30 minutes.</p> | <p>Readings are erratic and of limited use.</p> <p>Appears to be 15-25 feet of drawdown. Recovery/establishment of drawdown appears quite rapid.</p> |
| Black Lake #4 | <p>5/1/9: SS idle GSE 262-feet below top of casing. 4.5 hours after pump start up, GSE SS at 321-feet.</p> <p>5/2/9: SS pumping GSE 320-feet. Pump is idled for three hours. GSE readings somewhat variable during idle period (265-290 feet). Three hours following pump restart, GSE is SS at 319-feet.</p> <p>5/4/9: SS pumping GSE 319-feet. Pump is idled for three hours. GSE climbs to SS 262-feet in 1.25 hours. Following pump start up, GSE returns to SS 319-feet in two hours.</p> <p>5/9/9: SS pumping GSE 321-feet. Pump is idled for 2.75 hours. GSE climbs to SS 265-feet in 2-hours. Following pump start up, GSE returns to SS 321-feet in 2-hours.</p> | <p>These appear to be the most dependable data based on the repeatability.</p> <p>Drawdown in this well appears to be on the order of 60-feet. Recovery and reestablishment of drawdown takes on the order of two-hours.</p> |
| Olympic | <p>4/1/9: SS idle GSE 287-feet. GSE drops to 330-feet in 5 minutes. GSE is not considered steady state. Measurements by tape.</p> <p>5/9-10/9: SS pumping GSE 335-feet. GSE climbs to 299-feet in 1 minute. GSE 273-feet and still climbing 1-foot/hour at pump start up. Following pump start up, GSE drops to 333-feet in 4.5 hours.</p> | <p>Remote readings for this well became available on May 9, 2009. Data is limited.</p> <p>Drawdown appears to be on the order of 35-45 feet. Recovery and establishment of drawdown appears to occur quite quickly.</p> |

Notes:

- All GSEs are considered to be 'top of casing' (no reference to mean sea level) and are not comparable between wells.
- Raw data (Appendix 2) and graphs of flow rate and well GSE (Appendix 3a. and 3b.) for Black Lake #4, May 2009, are attached.

The preliminary data presented in Table 4. indicate relatively rapid drawdown and recovery in the Nipomo Mesa Management Area wells. The quick recovery suggests a high hydraulic conductivity in the aquifer, while the large drawdown may indicate fouling of the upper portions of the well screen or a low aquifer transmissivity (variability of conductivity vertically across the aquifer).

Clearly, 60-feet of drawdown in Blacklake Well #4 significantly changes the depth readings summarized in Table 3., above.

Using the District's remote monitoring interface proved cumbersome. Some of the difficulty is attributable to a lack of the investigator's familiarity with the system and some to the sheer volume of data being collected. Upgrades to the graphical interface are planned.

Well Interference

When production wells are located in close proximity, drawdown in one well can lower GSE and compound drawdown in an adjacent well. Well interference can introduce error to GSE readings and increase the cost of pumping water (it requires more energy to lift water from greater depths). The District's primary supply wells are located in an area of the NMMA known for high groundwater yield. A number of other water purveyors and overlying users also have production wells in this area. Therefore, the possibility of well interference in this area is considered high, and this fact further limits the usefulness of District GSE measurements as an indicator of overall basin health.

In addition to providing important information about individual well health, a firm understanding of a well's drawdown and recovery characteristics, developed by making accurate and regular readings over time, may aid the District in identifying potentially significant well interference or other localized basin irregularities.

Summary

The District's current approach to monthly GSE measurement and reporting utilizes sounding tape measurements and direct pressure gauge measurements. These data are presented monthly in table and graphical format for historical consideration.

Some wells have only a single, low accuracy method available for measuring GSE (direct pressure readings). Some of the wells have three measurement methods available, however the various methods are not compared or calibrated on a regular basis.

The District's GSE data has limited utility for defining basin health since well drawdown and well interference are not well understood or considered. Since many of the District's wells are located in an area where other utilities and private entities also operate large production wells, these wells may not be useful as basin health indicators despite improvements in data collection methods.

The District's current method of GSE data collection and reporting does not provide well drawdown and recovery information that might prove vital in maintaining well field readiness.

The District has telemetry and remote GSE data collection infrastructure in place at most well sites. The District has accurate reference level survey information for eleven of its thirteen well sites.

Recommendations

The District should focus on establishing the means for accurately collecting well GSE and drawdown information on its primary production wells, for the purpose of tracking and maintaining well health and supply system readiness.

Determination of overall basin health is a complicated task that requires careful data collection and analysis across the entire management area and its boundaries. The Nipomo Mesa Management Area Technical Group is carefully studying this matter. The group includes a number of experts in hydrogeology who are analyzing data from multiple sources. As the District refines its well GSE collection practices, some of the data collected may become of interest to the Technical Group. The District has two wells that may be strategically positioned for monitoring basin health, the Mandi and Cheyenne wells. These wells have never been used as production wells. The NMMA Technical Group may find data from these wells (or other District wells) useful.

The following recommendations are presented in order of priority (see Table 5. below for a summary the recommendations summarized by well):

1. Replace or augment the existing air line pressure gauges with more accurate gauges capable of reading +/- .5 psi (1.15 foot) at all well sites.
2. Establish sounding tubes and dedicated air lines in District primary production wells.
3. Establish continuous remote GSE monitoring in District primary production wells. Consider using direct reading down-hole transducers in at least one primary well.
4. Survey the elevation of Mandi and Cheyenne wells.
5. Establish remote monitoring capability at Mandi and Cheyenne wells.
6. Investigate the accuracy of the pressure transducers used by the remote GSE monitoring system. Calibrate and train on operation of this system.
7. Measure and record the Specific Capacity of each production well.
8. Establish a single, comprehensive record for each production well that includes:
 - o Hours each well is operated. Pumping rate and volume of each well.
 - o Static and pumping water GSEs. Well specific capacity.
 - o Discharge Pressure. Water Quality information
 - o Annual pump efficiency testing results.
 - o Well completion information (date drilled, diameter, screen size and length).
 - o Pump information (type, manufacture, model, service history).
9. Refurbish/install clear well head reference elevation markers.

Table 5. Recommendations Summarized by Well

| Well | Recommendations | Estimated Cost |
|-------------------------------|---|--|
| Eureka | Install access tube for air line and measuring tape. Install dedicated air line. Install accurate pressure gauge. Calibrate remote GSE monitoring. Measure drawdown and recovery and calculate Specific Capacity. | Pull well, install access tube - \$5,000.00. Pressure gauge - \$200.00 Down-hole transducer –(optional) - \$3,000.00 |
| Via Concha | Install access tube for air line and measuring tape. Install dedicated air line. Install accurate pressure gauge. Calibrate remote GSE monitoring. Measure drawdown and recovery and calculate Specific Capacity. | Pull well, install access tube - \$5,000.00. Pressure gauge - \$200.00 |
| Sundale | Install accurate pressure gauge. Planned/ongoing changes to well configuration need to insure ready access to sounding tube and a dedicated air line are available. Calibrate remote GSE monitoring. Measure drawdown and recovery and calculate Specific Capacity. | Pressure gauge - \$200.00 |
| Knollwood | Install accurate pressure gauge. Calibrate remote GSE monitoring. Measure drawdown and recovery and calculate Specific Capacity. | Pressure gauge - \$200.00 |
| Black Lake #3 | Install accurate pressure gauge. Calibrate remote GSE monitoring. Measure drawdown and recovery and calculate Specific Capacity. | Pressure gauge - \$200.00 |
| Black Lake #4 | Install accurate pressure gauge. Calibrate remote GSE monitoring. Measure drawdown and recovery and calculate Specific Capacity. | Pressure gauge - \$200.00 |
| Bevington | Install access tube for air line and measuring tape. Install dedicated air line. Install accurate pressure gauge. Calibrate remote GSE monitoring. Measure drawdown and recovery and calculate Specific Capacity. | Pull well, install access tube - \$5,000.00. Pressure gauge - \$200.00 |
| Olympic | Install accurate pressure gauge. | Pressure gauge - \$200.00 |
| Cheyenne | Confirm gauge accuracy, upgrade if needed. Establish remote monitoring (may require power to well, air source, other). Calibrate remote GSE monitoring. Measure drawdown and recovery and calculate Specific Capacity. | Pressure gauge - \$200.00 Compressor - \$500.00 |
| Mandi | Confirm gauge accuracy, upgrade if needed. Establish remote monitoring (may require power to well, air source, other). Calibrate remote GSE monitoring. Measure drawdown and recovery and calculate Specific Capacity. | Pressure gauge - \$200.00 Compressor - \$500.00 |
| Omiya | None (Well is out of service. GSE is not being monitored.) | \$0 |
| Church | Install access tube for measuring tape. Measure drawdown and recovery and calculate Specific Capacity. | Pull well, install access tube - \$2,000.00 |
| Savage | Continue manual tape readings. (Well is out of service) | \$0 |
| Total Estimated Costs: | | \$23,000.00 |

Once a system for collecting accurate and continuous well GSE readings is established (recommendations #s 1-3 implemented), regular monthly well capacity (drawdown/flow rate) and recovery readings can be taken.

GSE Measurement Protocol

Well drawdown should be measured monthly in each primary production well with Specific Capacity calculated. GSE readings (static) can be ascertained from each wells continuous monitoring record by reviewing the wells operational status during the month and selecting a period of well idle when GSE is stabilized. Manual GSE measurements by tape and direct pressure readings would be made monthly in wells that do not have remote capability and periodically in wells with remote monitoring to verify/calibrate the remote monitoring system.

Once ‘typical’ drawdown at each well is understood, the District may consider appending its historical GSE data with a drawdown correction factor.

Once efficient operation of the District’s continuous GSE monitoring and data collection system is established; the system, its operation, and data should be reviewed with the Technical Group. The District’s telemetry system has good coverage on the Mesa and additional capacity. There may be an opportunity for the District to host and otherwise facilitate real time GSE data collection with remote data retrieval for the Technical Group’s NMMA basin health tracking effort.

Once the remote monitoring system is up and running, the demand on staff resources will be equivalent or less than the current practice of manually collecting and reporting well GSE data on a monthly basis. As important, the data collected will be of much greater value to the District and may be useful in a basin-wide context.

APPENDICES
Task Order 09-001

Appendix 1

Appendix 2

Appendix 3a & 3b

Table 3. Worksheet

Table 4. Raw Data

iPAAC Graphs

Levels taken May 7, 2009

| Well | Surveyed Elevation (msl) | Flow Volume (Gal per Min) | Sounding Tape | Sounding Tape to msl | Gauge Pressure (psi) | Air Line Length | Level above line end | Depth to Water | Depth to Water msl | Remote level read | Remote read msl |
|---------------|--------------------------|---------------------------|---------------|----------------------|----------------------|-----------------|----------------------|----------------|--------------------|-------------------|-----------------|
| Black Lake #3 | 319.1 | 160 | 387 | -67.9 | 28 | 400 | 65 | 335 | -16 | 341 | -22 |
| Black Lake #4 | 301.4 | 350 | 359 | -57.6 | 20 | 420 | 46 | 374 | -72 | 321 | -20 |

| Date/Time | FLOW | Date/Time | Table | Date/Time | FLOW | Date/Time | Table |
|--------------|--------|---------------|--------|--------------|--------|--------------|--------|
| | | 5/10/09 10:47 | 345 | | | 5/5/09 11:38 | 344.94 |
| | | 5/10/09 10:32 | 345 | | | 5/5/09 11:23 | 344.94 |
| | | 5/10/09 10:17 | 345 | | | 5/5/09 11:08 | 344.94 |
| | | 5/10/09 10:02 | 345 | | | 5/5/09 10:53 | 344.94 |
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| 5/9/09 15:58 | 138.59 | 5/9/09 15:58 | 345 | | | 5/4/09 16:36 | 332.89 |
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| | | 5/9/09 14:46 | 345 | 5/4/09 14:34 | 139.08 | 5/4/09 14:35 | 344.38 |
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| | | 5/9/09 9:30 | 344.83 | 5/3/09 18:22 | 140.43 | 5/4/09 9:25 | 344.16 |
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| | | 5/5/09 22:21 | 345 | | |
| | | 5/5/09 22:06 | 345 | | |
| | | 5/5/09 21:51 | 345 | | |
| | | 5/5/09 21:35 | 345 | | |
| | | 5/5/09 21:20 | 345 | | |
| | | 5/5/09 21:05 | 345 | | |
| | | 5/5/09 20:50 | 345 | | |
| | | 5/5/09 20:35 | 345 | | |
| | | 5/5/09 20:20 | 345 | | |
| | | 5/5/09 20:05 | 345 | | |
| | | 5/5/09 19:50 | 345 | | |
| | | 5/5/09 19:35 | 345 | | |
| | | 5/5/09 19:20 | 345 | | |
| | | 5/5/09 19:05 | 345 | | |
| | | 5/5/09 18:50 | 345 | | |
| | | 5/5/09 18:35 | 345 | | |
| | | 5/5/09 18:20 | 345 | | |
| | | 5/5/09 18:05 | 345 | | |
| | | 5/5/09 17:50 | 345 | | |
| | | 5/5/09 17:35 | 345 | | |
| | | 5/5/09 17:20 | 345 | | |
| | | 5/5/09 17:05 | 345 | | |
| | | 5/5/09 16:50 | 345 | | |
| | | 5/5/09 16:35 | 345 | | |
| | | 5/5/09 16:19 | 345 | | |
| | | 5/5/09 16:04 | 345 | | |
| | | 5/5/09 15:49 | 345 | | |
| | | 5/5/09 15:34 | 345 | | |
| | | 5/5/09 15:19 | 345 | | |
| | | 5/5/09 15:04 | 345 | | |
| | | 5/5/09 14:49 | 345 | | |
| | | 5/5/09 14:34 | 345 | | |
| | | 5/5/09 14:19 | 345 | | |
| | | 5/5/09 14:04 | 345 | | |
| | | 5/5/09 13:54 | 345 | | |
| | | 5/5/09 13:39 | 345 | | |
| | | 5/5/09 13:24 | 345 | | |
| | | 5/5/09 13:09 | 345 | | |

| Time | Table (feet) | Flow (GPM) | Date/Time | Table (Feet) | Date/Time | Flow (GPM) | |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|
| 5/9/09 17:49 | 322.67 | | 5/4/09 14:50 | 319.76 | | | |
| 5/9/09 17:35 | 322.13 | | 5/4/09 14:35 | 319.54 | 5/4/09 14:34 | 351.94 | |
| 5/9/09 17:20 | 322.34 | | 5/4/09 14:20 | 319.81 | 5/4/09 13:34 | 351.36 | |
| 5/9/09 17:05 | 322.45 | | 5/4/09 14:05 | 319.76 | 5/4/09 12:34 | 353.11 | |
| 5/9/09 16:50 | 322.61 | | 5/4/09 13:50 | 319.7 | 5/4/09 11:34 | 352.82 | |
| 5/9/09 16:35 | 322.4 | | 5/4/09 13:35 | 319.76 | 5/4/09 10:34 | 352.82 | |
| 5/9/09 16:28 | 322.45 | | 5/4/09 13:20 | 319.7 | 5/4/09 9:34 | 352.53 | |
| 5/9/09 16:13 | 322.67 | | 5/4/09 13:05 | 319.54 | 5/4/09 8:40 | 351.65 | |
| 5/9/09 15:58 | 322.4 | 5/9/09 15:58 | 350.48 | 319.7 | 5/4/09 7:42 | 351.65 | |
| 5/9/09 15:43 | 322.13 | | 5/4/09 12:35 | 319.54 | 5/4/09 6:41 | 350.48 | |
| 5/9/09 15:28 | 321.91 | | 5/4/09 12:20 | 319.49 | 5/4/09 5:41 | 351.65 | |
| 5/9/09 15:13 | 321.86 | | 5/4/09 12:05 | 319.65 | 5/4/09 4:41 | 351.36 | |
| 5/9/09 14:58 | 322.07 | 5/9/09 14:58 | 349.01 | 319.49 | 5/4/09 3:41 | 351.65 | |
| 5/9/09 14:45 | 322.13 | | 5/4/09 11:50 | 319.49 | 5/4/09 3:41 | 351.65 | |
| 5/9/09 14:30 | 321.91 | 5/9/09 14:26 | 348.72 | 5/4/09 11:34 | 319.38 | 5/4/09 2:41 | 351.65 |
| 5/9/09 14:15 | 321.7 | | 5/4/09 11:19 | 319.49 | 5/4/09 1:41 | 351.36 | |
| 5/9/09 14:00 | 321.86 | | 5/4/09 11:04 | 319.27 | 5/4/09 0:41 | 352.82 | |
| 5/9/09 13:45 | 321.97 | | 5/4/09 10:49 | 319.49 | 5/3/09 23:41 | 351.65 | |
| 5/9/09 13:30 | 322.13 | 5/9/09 13:25 | 348.72 | 5/4/09 10:34 | 319.38 | 5/3/09 22:41 | 352.53 |
| 5/9/09 13:15 | 322.24 | | 5/4/09 10:19 | 319.22 | 5/3/09 21:41 | 352.53 | |
| 5/9/09 13:00 | 322.34 | | 5/4/09 10:04 | 319.38 | 5/3/09 20:41 | 353.11 | |
| 5/9/09 12:45 | 322.4 | | 5/4/09 9:49 | 319.27 | 5/3/09 19:41 | 352.53 | |
| 5/9/09 12:30 | 322.07 | 5/9/09 12:25 | 348.42 | 5/4/09 9:34 | 319.16 | 5/3/09 18:41 | 353.99 |
| 5/9/09 12:15 | 321.86 | | 5/4/09 9:25 | 319.22 | 5/3/09 17:41 | 354.87 | |
| 5/9/09 12:00 | 321.64 | | 5/4/09 9:10 | 319.27 | 5/3/09 16:41 | 354.87 | |
| 5/9/09 11:45 | 321.54 | | 5/4/09 8:55 | 319.16 | 5/3/09 15:41 | 354.58 | |
| 5/9/09 11:30 | 321.64 | 5/9/09 11:25 | 349.6 | 5/4/09 8:40 | 319.11 | 5/3/09 14:41 | 354.29 |
| 5/9/09 11:15 | 321.81 | | 5/4/09 8:30 | 319 | 5/3/09 13:41 | 354.29 | |
| 5/9/09 11:00 | 321.7 | | 5/4/09 8:14 | 319.11 | 5/3/09 12:41 | 353.99 | |
| 5/9/09 10:45 | 321.81 | | 5/4/09 7:59 | 318.95 | 5/3/09 11:41 | 354.29 | |
| 5/9/09 10:29 | 321.86 | 5/9/09 10:25 | 350.18 | 5/4/09 7:44 | 319 | 5/3/09 10:41 | 353.99 |
| 5/9/09 10:14 | 321.91 | | 5/4/09 7:29 | 318.9 | 5/3/09 9:41 | 353.41 | |
| 5/9/09 9:59 | 321.7 | | 5/4/09 7:14 | 318.9 | 5/3/09 8:41 | 351.94 | |
| 5/9/09 9:44 | 321.54 | | 5/4/09 6:59 | 318.73 | 5/3/09 7:41 | 352.53 | |
| 5/9/09 9:29 | 321.37 | 5/9/09 9:25 | 350.48 | 5/4/09 6:44 | 318.57 | 5/3/09 6:40 | 351.65 |
| 5/9/09 9:14 | 321.27 | | 5/4/09 6:29 | 318.68 | 5/3/09 5:40 | 353.11 | |
| 5/9/09 8:59 | 320.89 | | 5/4/09 6:14 | 318.63 | 5/3/09 4:40 | 353.41 | |
| 5/9/09 8:44 | 320.73 | | 5/4/09 5:59 | 318.63 | 5/3/09 3:40 | 353.41 | |
| 5/9/09 8:29 | 320.51 | 5/9/09 8:25 | 347.55 | 5/4/09 5:44 | 318.46 | | |
| 5/9/09 8:14 | 320.35 | | 5/4/09 5:29 | 318.63 | | | |
| 5/9/09 7:59 | 320.35 | | 5/4/09 5:14 | 318.57 | | | |
| 5/9/09 7:44 | 320.03 | | 5/4/09 4:59 | 318.46 | | | |
| 5/9/09 7:29 | 319.92 | 5/9/09 7:25 | 349.89 | 5/4/09 4:44 | 318.63 | | |
| 5/9/09 7:14 | 319.54 | | 5/4/09 4:29 | 318.41 | | | |
| 5/9/09 6:59 | 319.11 | | 5/4/09 4:14 | 318.57 | | | |
| 5/9/09 6:44 | 318.46 | | 5/4/09 3:59 | 318.41 | | | |
| 5/9/09 6:29 | 317.28 | 5/9/09 6:25 | 351.65 | 5/4/09 3:44 | 318.63 | | |
| 5/9/09 6:14 | 313.18 | 5/9/09 6:13 | 357.51 | 5/4/09 3:29 | 318.57 | | |
| | | 5/9/09 6:12 | 363.66 | 5/4/09 3:14 | 318.68 | | |
| | | 5/9/09 6:11 | 369.52 | 5/4/09 2:59 | 318.57 | | |
| | | 5/9/09 6:11 | 378.02 | 5/4/09 2:44 | 318.73 | | |
| | | 5/9/09 6:11 | 350.18 | 5/4/09 2:29 | 318.63 | | |
| 5/9/09 5:59 | 265.92 | 5/9/09 6:11 | 350.18 | 5/4/09 2:14 | 318.84 | | |
| 5/9/09 5:44 | 265.6 | | 5/4/09 1:58 | 318.68 | | | |
| 5/9/09 5:29 | 265.22 | 5/9/09 5:25 | 0 | 5/4/09 1:43 | 318.84 | | |
| 5/9/09 5:13 | 265.6 | | 5/4/09 1:28 | 318.73 | | | |
| 5/9/09 4:58 | 266.14 | | 5/4/09 1:13 | 318.68 | | | |
| 5/9/09 4:43 | 266.46 | | 5/4/09 0:58 | 318.73 | | | |
| 5/9/09 4:28 | 266.68 | 5/9/09 4:25 | 0 | 5/4/09 0:43 | 318.68 | | |
| 5/9/09 4:13 | 267.48 | | 5/4/09 0:28 | 318.73 | | | |
| 5/9/09 3:58 | 268.72 | | 5/4/09 0:13 | 318.57 | | | |
| 5/9/09 3:43 | 270.45 | | 5/3/09 23:58 | 318.84 | | | |
| 5/9/09 3:28 | 275.19 | 5/9/09 3:24 | 0.29 | 5/3/09 23:43 | 318.73 | | |
| 5/9/09 3:13 | 322.13 | 5/9/09 3:24 | 5.86 | 5/3/09 23:28 | 318.84 | | |
| | | 5/9/09 3:24 | 94.95 | 5/3/09 23:13 | 318.68 | | |
| | | 5/9/09 2:25 | 345.79 | 5/3/09 22:58 | 318.9 | | |
| | | 5/9/09 1:25 | 345.79 | 5/3/09 22:43 | 318.73 | | |
| | | 5/9/09 0:25 | 345.79 | 5/3/09 22:28 | 318.9 | | |
| | | 5/8/09 23:25 | 345.79 | 5/3/09 22:13 | 318.73 | | |
| | | 5/8/09 22:25 | 346.08 | 5/3/09 21:58 | 318.95 | | |
| | | 5/8/09 21:25 | 346.08 | 5/3/09 21:43 | 318.84 | | |
| | | 5/8/09 20:25 | 347.55 | 5/3/09 21:28 | 318.73 | | |
| | | 5/8/09 19:25 | 348.72 | 5/3/09 21:13 | 318.68 | | |

| | | | | | |
|--------------|--------|--------------|--------|--------------|--------|
| | | 5/8/09 18:25 | 349.6 | 5/3/09 20:58 | 318.68 |
| | | 5/8/09 17:25 | 349.89 | 5/3/09 20:43 | 318.68 |
| | | 5/8/09 16:25 | 351.36 | 5/3/09 20:28 | 318.68 |
| | | 5/8/09 15:25 | 351.94 | 5/3/09 20:13 | 318.68 |
| | | 5/8/09 14:25 | 349.6 | 5/3/09 19:58 | 318.63 |
| | | 5/8/09 13:25 | 350.18 | 5/3/09 19:42 | 318.68 |
| | | 5/8/09 12:25 | 350.48 | 5/3/09 19:27 | 318.68 |
| | | 5/8/09 11:25 | 351.06 | 5/3/09 19:12 | 318.68 |
| | | 5/8/09 10:25 | 349.01 | 5/3/09 18:57 | 318.73 |
| | | 5/8/09 9:25 | 349.6 | 5/3/09 18:42 | 318.68 |
| | | 5/8/09 8:25 | 348.42 | 5/3/09 18:27 | 318.84 |
| | | 5/8/09 7:25 | 348.42 | 5/3/09 18:12 | 318.73 |
| | | 5/8/09 6:25 | 348.42 | 5/3/09 17:57 | 318.73 |
| | | 5/8/09 5:25 | 348.42 | 5/3/09 17:42 | 318.68 |
| | | 5/8/09 4:25 | 349.01 | 5/3/09 17:27 | 318.84 |
| | | 5/8/09 3:27 | 348.13 | 5/3/09 17:12 | 318.68 |
| | | 5/8/09 2:27 | 348.42 | 5/3/09 16:57 | 318.84 |
| | | 5/8/09 1:27 | 347.55 | 5/3/09 16:42 | 318.68 |
| | | 5/8/09 0:27 | 347.55 | 5/3/09 16:27 | 318.84 |
| | | 5/7/09 23:27 | 348.72 | 5/3/09 16:12 | 318.68 |
| | | 5/7/09 22:27 | 348.72 | 5/3/09 15:57 | 318.73 |
| | | 5/7/09 21:27 | 348.72 | 5/3/09 15:42 | 318.63 |
| 5/7/09 23:58 | 321.05 | 5/7/09 20:27 | 346.96 | 5/3/09 15:27 | 318.73 |
| 5/7/09 23:43 | 320.89 | 5/7/09 19:26 | 350.48 | 5/3/09 15:12 | 318.68 |
| 5/7/09 23:28 | 320.73 | 5/7/09 18:26 | 351.65 | 5/3/09 14:57 | 318.73 |
| 5/7/09 23:13 | 320.62 | 5/7/09 17:26 | 351.06 | 5/3/09 14:42 | 318.68 |
| 5/7/09 22:58 | 320.73 | 5/7/09 16:26 | 350.18 | 5/3/09 14:27 | 318.73 |
| 5/7/09 22:43 | 320.62 | 5/7/09 15:26 | 351.36 | 5/3/09 14:12 | 318.63 |
| 5/7/09 22:28 | 320.57 | 5/7/09 14:26 | 350.48 | 5/3/09 13:57 | 318.73 |
| 5/7/09 22:13 | 320.51 | 5/7/09 13:26 | 351.36 | 5/3/09 13:41 | 318.63 |
| 5/7/09 21:58 | 320.62 | 5/7/09 12:26 | 351.65 | 5/3/09 13:26 | 318.73 |
| 5/7/09 21:43 | 320.57 | 5/7/09 11:26 | 350.18 | 5/3/09 13:11 | 318.68 |
| 5/7/09 21:28 | 320.62 | 5/7/09 10:26 | 350.48 | 5/3/09 12:56 | 318.73 |
| 5/7/09 21:13 | 320.51 | 5/7/09 9:26 | 349.89 | 5/3/09 12:41 | 318.73 |
| 5/7/09 20:58 | 320.62 | 5/7/09 8:26 | 349.01 | 5/3/09 12:26 | 318.73 |
| 5/7/09 20:43 | 320.78 | 5/7/09 7:26 | 348.42 | 5/3/09 12:11 | 318.84 |
| 5/7/09 20:28 | 320.84 | 5/7/09 6:26 | 348.72 | 5/3/09 11:56 | 318.68 |
| 5/7/09 20:13 | 321.27 | 5/7/09 5:26 | 347.55 | 5/3/09 11:41 | 318.84 |
| 5/7/09 19:58 | 321.37 | 5/7/09 4:26 | 348.42 | 5/3/09 11:26 | 318.68 |
| 5/7/09 19:43 | 321.43 | 5/7/09 3:26 | 349.01 | 5/3/09 11:11 | 318.84 |
| 5/7/09 19:28 | 321.59 | 5/7/09 2:26 | 349.89 | 5/3/09 10:56 | 318.68 |
| 5/7/09 19:13 | 321.81 | 5/7/09 1:26 | 349.6 | 5/3/09 10:41 | 318.73 |
| 5/7/09 18:58 | 321.64 | 5/7/09 0:26 | 348.72 | 5/3/09 10:26 | 318.57 |
| 5/7/09 18:43 | 321.43 | 5/6/09 23:26 | 349.89 | 5/3/09 10:11 | 318.68 |
| 5/7/09 18:28 | 321.16 | 5/6/09 22:26 | 351.65 | 5/3/09 9:56 | 318.57 |
| 5/7/09 18:12 | 320.89 | 5/6/09 21:26 | 351.06 | 5/3/09 9:41 | 318.68 |
| 5/7/09 17:57 | 321.05 | | | 5/3/09 9:26 | 318.73 |
| 5/7/09 17:42 | 321.27 | | | 5/3/09 9:11 | 318.68 |
| 5/7/09 17:27 | 321.43 | | | 5/3/09 8:56 | 318.73 |
| 5/7/09 17:12 | 321.7 | | | 5/3/09 8:41 | 318.63 |
| 5/7/09 16:57 | 321.37 | | | 5/3/09 8:26 | 318.68 |
| 5/7/09 16:42 | 321.05 | | | 5/3/09 8:11 | 318.63 |
| 5/7/09 16:27 | 320.89 | | | 5/3/09 7:56 | 318.63 |
| 5/7/09 16:12 | 321.05 | | | 5/3/09 7:41 | 318.73 |
| 5/7/09 15:57 | 321.32 | | | 5/3/09 7:26 | 318.57 |
| 5/7/09 15:42 | 321.43 | | | 5/3/09 7:10 | 318.63 |
| 5/7/09 15:27 | 321.54 | | | 5/3/09 6:55 | 318.46 |
| 5/7/09 15:12 | 321.54 | | | 5/3/09 6:40 | 318.46 |
| 5/7/09 14:57 | 321.16 | | | 5/3/09 6:25 | 318.57 |
| 5/7/09 14:42 | 321.05 | | | 5/3/09 6:10 | 318.36 |
| 5/7/09 14:27 | 321 | | | 5/3/09 5:55 | 318.41 |
| 5/7/09 14:12 | 320.78 | | | 5/3/09 5:40 | 318.41 |
| 5/7/09 13:57 | 321 | | | 5/3/09 5:25 | 318.14 |
| 5/7/09 13:42 | 321.16 | | | 5/3/09 5:10 | 318.14 |
| 5/7/09 13:27 | 321.32 | | | 5/3/09 4:55 | 317.82 |
| 5/7/09 13:12 | 321.43 | | | 5/3/09 4:40 | 317.76 |
| 5/7/09 12:57 | 321.54 | | | 5/3/09 4:25 | 317.66 |
| 5/7/09 12:42 | 321.37 | | | 5/3/09 4:10 | 317.28 |
| 5/7/09 12:27 | 321.1 | | | 5/3/09 3:55 | 317.22 |
| 5/7/09 12:12 | 321 | | | 5/3/09 3:40 | 317.01 |
| 5/7/09 11:57 | 320.78 | | | 5/3/09 3:25 | 316.47 |
| 5/7/09 11:41 | 320.89 | | | 5/3/09 3:10 | 316.15 |
| 5/7/09 11:26 | 321.1 | | | 5/3/09 2:55 | 315.39 |
| 5/7/09 11:11 | 321.32 | | | 5/3/09 2:40 | 314.15 |
| 5/7/09 10:56 | 321.37 | | | | 355.46 |

| | | | | | | | |
|--------------|--------|--------------|--------|--------------|--------|--------------|--------|
| 5/7/09 10:41 | 321.32 | | | 5/3/09 2:25 | 311.08 | 5/3/09 2:23 | 360.73 |
| 5/7/09 10:26 | 321.37 | | | 5/3/09 2:10 | 265.81 | 5/3/09 2:22 | 367.47 |
| 5/7/09 10:11 | 321.37 | | | | | 5/3/09 2:21 | 373.92 |
| 5/7/09 9:56 | 321.37 | | | | | 5/3/09 2:21 | 383.3 |
| 5/7/09 9:41 | 332.04 | | | | | 5/3/09 2:20 | 346.96 |
| 5/7/09 9:26 | 329.35 | | | 5/3/09 1:55 | 267.7 | 5/3/09 1:24 | 0 |
| 5/7/09 9:11 | 328.33 | | | 5/3/09 1:40 | 264.14 | | |
| 5/7/09 8:56 | 331.51 | | | | | | |
| 5/7/09 8:41 | 337.76 | | | 5/3/09 1:25 | 268.72 | | |
| 5/7/09 8:26 | 333.82 | | | 5/3/09 1:10 | 261.99 | 5/3/09 0:24 | 0 |
| 5/7/09 8:11 | 334.52 | | | 5/3/09 0:54 | 269.59 | 5/2/09 23:24 | 4.1 |
| 5/7/09 7:56 | 338.03 | | | 5/3/09 0:39 | 262.85 | 5/2/09 23:23 | 53.63 |
| 5/7/09 7:41 | 342.07 | | | 5/3/09 0:24 | 270.07 | | |
| 5/7/09 7:26 | 336.89 | | | 5/3/09 0:09 | 264.25 | 5/2/09 23:20 | 348.13 |
| 5/7/09 7:11 | 336.52 | | | 5/2/09 23:54 | 265.87 | | |
| 5/7/09 6:56 | 339.1 | | | 5/2/09 23:39 | 267.38 | | |
| 5/7/09 6:41 | 342.61 | | | 5/2/09 23:24 | 300.25 | | |
| 5/7/09 6:26 | 338.83 | | | 5/2/09 23:09 | 319.65 | 5/2/09 22:20 | 349.6 |
| 5/7/09 6:11 | 336.36 | | | 5/2/09 22:54 | 319.76 | 5/2/09 21:20 | 349.6 |
| 5/7/09 5:56 | 337.27 | | | 5/2/09 22:39 | 319.54 | 5/2/09 20:20 | 349.89 |
| 5/7/09 5:41 | 339.64 | | | 5/2/09 22:24 | 319.7 | 5/2/09 19:20 | 350.48 |
| 5/7/09 5:26 | 341.64 | | | 5/2/09 22:09 | 319.81 | 5/2/09 18:20 | 351.06 |
| 5/7/09 5:10 | 335.71 | | | 5/2/09 21:54 | 319.7 | 5/2/09 17:20 | 351.36 |
| 5/7/09 4:55 | 335.17 | | | 5/2/09 21:39 | 319.7 | 5/2/09 16:20 | 353.11 |
| 5/7/09 4:40 | 337.16 | | | 5/2/09 21:24 | 319.81 | 5/2/09 15:20 | 352.53 |
| 5/7/09 4:25 | 340.29 | | | 5/2/09 21:09 | 319.65 | 5/2/09 14:20 | 351.94 |
| 5/7/09 4:10 | 338.94 | | | 5/2/09 20:54 | 319.81 | 5/2/09 13:20 | 351.94 |
| 5/7/09 3:55 | 335.55 | | | 5/2/09 20:39 | 319.92 | 5/2/09 12:20 | 352.82 |
| 5/7/09 3:40 | 335.39 | | | 5/2/09 20:24 | 319.65 | 5/2/09 11:20 | 351.06 |
| 5/7/09 3:25 | 337.16 | | | 5/2/09 20:09 | 319.7 | 5/2/09 10:20 | 351.65 |
| 5/7/09 3:10 | 339.91 | | | 5/2/09 19:54 | 319.81 | 5/2/09 9:19 | 351.36 |
| 5/7/09 2:55 | 337.86 | | | 5/2/09 19:39 | 319.54 | 5/2/09 8:19 | 349.89 |
| 5/7/09 2:40 | 333.82 | | | 5/2/09 19:24 | 319.7 | 5/2/09 7:19 | 350.18 |
| 5/7/09 2:25 | 333.45 | | | 5/2/09 19:08 | 319.92 | 5/2/09 6:19 | 349.89 |
| 5/7/09 2:10 | 334.9 | | | 5/2/09 18:53 | 319.65 | 5/2/09 5:19 | 349.6 |
| 5/7/09 1:55 | 336.95 | | | 5/2/09 18:38 | 319.76 | 5/2/09 4:19 | 349.89 |
| 5/7/09 1:40 | 336.79 | | | 5/2/09 18:23 | 319.92 | 5/2/09 3:19 | 350.48 |
| 5/7/09 1:25 | 331.78 | | | 5/2/09 18:08 | 319.7 | 5/2/09 2:19 | 350.48 |
| 5/7/09 1:10 | 330.48 | | | 5/2/09 17:53 | 319.7 | 5/2/09 1:19 | 350.48 |
| 5/7/09 0:55 | 331.29 | | | 5/2/09 17:38 | 319.81 | 5/2/09 0:19 | 349.01 |
| 5/7/09 0:40 | 333.01 | | | 5/2/09 17:23 | 319.92 | 5/1/09 23:19 | 349.89 |
| 5/7/09 0:25 | 335.44 | | | 5/2/09 17:08 | 319.7 | 5/1/09 22:19 | 348.72 |
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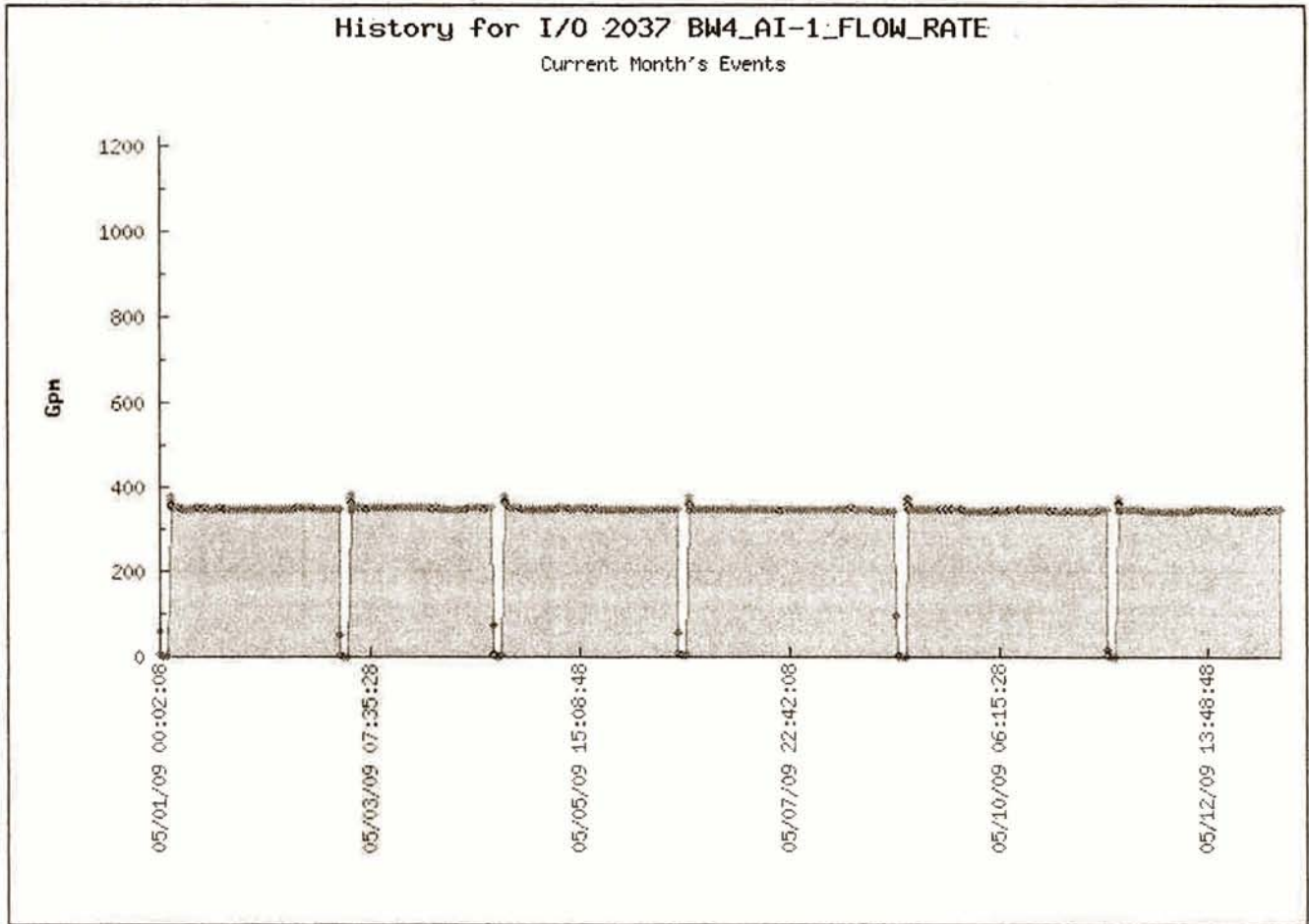
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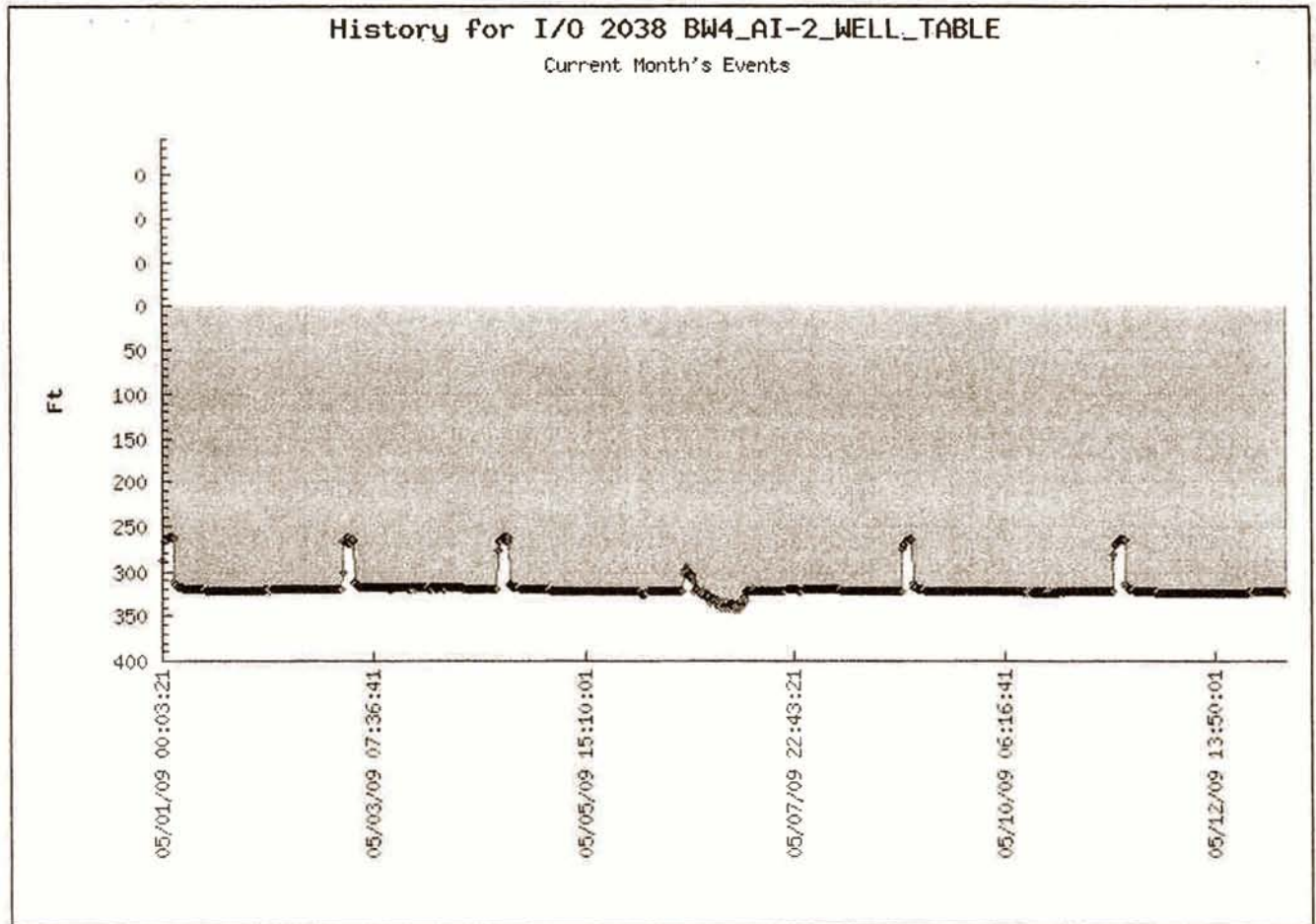
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TO: BOARD OF DIRECTORS
FROM: BRUCE BUEL *BBD*
DATE: JULY 3, 2009

AGENDA ITEM
E-6
JULY 8, 2009

SDRMA ELECTION

ITEM

Vote for election of up to four candidates to fill vacant seats on Special District Risk Management Authority (SDRMA) Board of Directors [ADOPT RESOLUTION]

BACKGROUND

SDRMA is governed by a seven member Board of Directors. Every two years, SDRMA conducts elections to fill the seats of those elected four years previously. This year, there are four such seats and there are eight candidates including two incumbents. Attached are Statements of Qualifications for each of the eight candidates. Also attached is a draft resolution, which lists the eight candidates.

Your Honorable Board can vote for up to four candidates by filling in and then adopting a completed resolution.

FISCAL IMPACT - NONE

RECOMMENDATION

The General Manager knows both incumbents – David Aranda and John Yeakley and believes that both have done a good job. Of the remaining six non-incumbents, Muril Clift is from the Cambria CSD and Robin Prideaux is from the Cayama CSD. The General Manager does not know any of the other candidates.

Staff recommends that the Board first agree on the names of up to four candidates to vote for and then adopt the attached resolution as amended to check those selected candidates.

ATTACHMENTS

- Statements of Qualifications
- Draft Resolution

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**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – no attachments will be accepted. No statements are endorsed by SDRMA.

Nominee/Candidate ROBIN A. PRIDEAUX
District/Agency CUYAMA COMMUNITY SERVICES DISTRICT
Work Address P.O. BOX 77 NEW CUYAMA, CA. 93254-0077
Work Phone _____ Home Phone (661)766-2626

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

My name is Robin Prideaux and I would like to be considered for the vacancy position on the board. I am qualified in that I am currently serving as Secretary on the Cuyama Community Services District Board and the other members of our board unanimously chose me to represent our township on the Risk Management Board; I would be honored to serve. Having been in several diverse management and ownership positions in the past, I realize how important it is to be aware and prepared for various situations that may arise. As a representative I could not only add my experience, enthusiasm and analytical input, but bring back with me helpful and forward-thinking ideas for cautionary procedures from the other members and guests.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

My business management experience and public service work has led me to apply for this challenging and interesting position. In addition, I have a degree from El Camino College with an emphasis in psychology of marketing. and continued interdisciplinary studies of psychology and consumer behavior at Cal State University Dominguez Hills. My minor was in the arts and I soon became involved in professional ensemble groups culminating with a nomination to the Student Council as Commissioner of Fine Arts. During my two semesters in office one of my significant accomplishments was to commission a bronze statue for the art patio that still stands today entitled "Girl With Book". I was the student representative to the calendar committee and helped decide on term lengths and holidays for the college. I taught orchestra to children in Los Angeles elementary schools and chorus for the Manhattan Rec. Dept. I also was chairman of public relations for the first festival del camino for benefit that successfully ended with a profit.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

What special skills, talents, or experience (including volunteer experience) do you have?
(Response Required)

FOR MANY YEARS I WAS A BUS DRIVER FOR SANTA BARBARA METRO. Quick decisions had to be made constantly involving the well-being of my passengers. Many risk/prevention measures were used to avoid encountering accidents or injury during that time. Being alert and aware as well as handling every situation independently and safely, kept me from injury or lawsuit as I operated my own delivery businesses. My employees were taught "SAFETY FIRST". I am currently donating time assisting with the Cuyama Community Services District as a secretary and board member. I am also working with the Cuyama Recreation Department in their fourth of July celebration.

General Comments / Statements (Response Optional)

I am semi-retired and would welcome the opportunity to serve you with educated and confident decisions while asking the hard questions that need to be asked. Thank you in advance for your time and consideration for my nomination to the SDRMA Board of Directors.

I certify that I am a Board member or a full-time management employee for the agency from which I have been nominated. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature Robina A. Pudeaux Date 05/31/09

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates. No statements are endorsed by SDRMA.

| | | | |
|-------------------|---|------------|--------------|
| Nominee/Candidate | Jean Bracy, SDA | | |
| District/Agency | Mojave Desert Air Quality Management District | | |
| Work Address | 14306 Park Avenue, Victorville, CA 92392 | | |
| Work Phone | 760-245-1661 | Home Phone | 760-946-1882 |

Why do you want to serve on the SDRMA Board of Directors?

I believe I can complement the current board composition with a representative perspective from the regulatory community. The regulatory community has specific risk issues that vary among agencies whose primary mission is delivery of important community services. For nearly 20 years, I've worked for public agencies.

My approach to organizational management is drawn from a wide variety of experience. During my career I have been responsible to conduct the business of the agency in a manner that measures and manages risk. I've worked closely with SDRMA for several years, and I am attracted to its aggressive and positive mission.

I want to contribute my experience to SDRMA's overall function to further strengthen and enhance the lines of services provided by SDRMA.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization)

As the Director of Administrative Services for the Mojave Desert Air Quality Management District, I am the staff representative to the Governing Board Budget and Personnel Committees. I am a member of and have chaired the California Air Pollution Control Officers Association (CAPCOA) statewide committees for Fiscal and Human Resource officers. I represent the District on the Mobile Source Emissions Reduction Committee evaluating proposed projects for grant awards. I organized and currently chair the Alternate Fuel Task Force for the Mojave Desert air basin; I represent the District in the Antelope Valley Clean Cities Coalition.

While employed with the City of Victorville, I served as the City representative to the Technical Advisory Committee for the Victor Valley Transit Authority and as the City representative and officer on the Executive Committee of the Regional Economic Development Authority.

I volunteered four years on the Board of Directors of the Victor Valley Federal Credit Union. For six years, I worked as an adjunct professor at Victor Valley Community College teaching Public Works Administration. I have worked on the statewide Resolutions Committee for the California Baptist Convention and served as the regional representative for developing statewide women's programs. I am actively involved in a local community service organization and for many years in that capacity have been involved with a wide range of experiences in designing organizational growth, strengthening the core structure, long term and vision planning, development of staff and volunteers, and resource and program management.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

What special skills, talents, or experience (including volunteer experience) do you have?

As professional and as a volunteer, I have a wide range of experiences with organizational structures, long term and vision planning, development of staff and volunteers, and resource and program management. My experience of leading organizational activities and implementing change for growth includes bringing together intergenerational and multicultural groups to achieve common goals.

I am an effective manager with expertise in efficient and productive management implementing process improvements in finance, human resources, risk management, and a wide variety of related administrative and organizational functions. I have led highly skilled teams to support the achievement of overall agency goals and objectives.

In the two years since I last ran for office, I have earned the prestigious Special District Administrator designation and completed course work for the CALPELRA Masters Certification in Labor Relations. I was accepted into the graduate program at California State University, San Bernardino and by the end of 2009 I expect to graduate with a Masters in Public Administration.

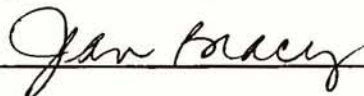
General Comments / Statements

I believe in SDRMA's stated mission. My agency is a strong supporter of the risk pool concept and particularly SDRMA. From our claims experience I presented the topic, "*The Good, The Bad, The Ugly. Leadership: A Management Case Study,*" at the CSDA Annual Conference in September 2006, where I was able to demonstrate our agency's positive experience with SDRMA's expert management of our claims.

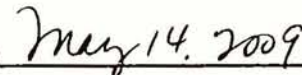
I am attracted to the passion and energy expressed by SDRMA staff and Board in their aggressive and confident approach to the mission of SDRMA. I want to contribute to SDRMA's objective and its future.

I certify that I am a Board member or a full-time management employee for the agency from which I have been nominated. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature



Date



**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates. No statements are endorsed by SDRMA.

Nominee/Candidate
District/Agency
Work Address
Work Phone Home Phone

Why do you want to serve on the SDRMA Board of Directors?

Having served as a Governing Board Member of the Chino Valley Independent Fire District and having served over 28 years as a law enforcement professional, I would bring to SDRMA the experience and knowledge that I believe would add value to the organization as it continues to develop innovative programs to assist its' members.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization)

I have been an elected member of the Chino valley Independent Fire District since 2004. I have served as Board President, Vice-President and served on the Districts Finance, Planning, and Emergency Medical Services Committees. I have also served as Chair of the Chino Valley Public Agencies Committee and been District Liaison to the cities of Chino and Chino Hills to the 4th. District County Supervisor.
I also serve on the Citizens Oversight Committee of the Chino Valley School District and the Citizens Advisory Committee of the California Department of Corrections California Institute for Men.
I also am a member of our local Lions Club and serve as a Director.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

What special skills, talents, or experience (including volunteer experience) do you have?

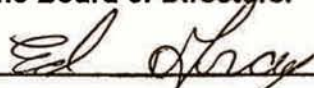
Having spent my entire professional life in the public sector I understand the importance of working effectively with others so an organization may achieve positive results. I believe I am an "effective listener" which gives me the ability to understand an issue and then make an informed decision. I am a proponent of team work and getting stakeholders involved in issues.

General Comments / Statements

Should I be fortunate enough to be chosen to join the Board of the SDRMA, I can pledge to you I will work to continue the great service that SDRMA has been providing its' members and take any opportunity that could further enhance member benefits.

I certify that I am a Board member or a full-time management employee for the agency from which I have been nominated. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature



Date JUNE 8, 2009

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – no attachments will be accepted. No statements are endorsed by SDRMA.

Nominee/Candidate DAVID AYANDA
District/Agency Stallion Springs C.S.D.
Work Address 28500 Stallion Springs Dr
Work Phone 661-822-3268 Home Phone 661-300-1231

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

I want to work as a team in obtaining the best coverage at the best price for all Districts.

I also want to be part of the effort that prevents claims i.e. safety training, accident prevention, developing a safe work place

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

I have served on SDRMA's Board for over ten years. I understand the governance structure as well as the various factors that affect workers compensation, property, liability and health insurance rates.

As a faculty member that teaches CSDA education programs throughout the state, I am very aware of issues facing all independent special districts.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

What special skills, talents, or experience (including volunteer experience) do you have?
(Response Required)

Experience, A listening ear, in touch with all Districts
And a desire to do what is best!

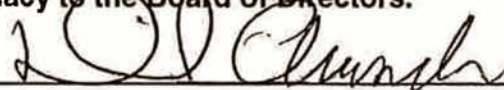
General Comments / Statements (Response Optional)

As a General Manager for a multipurpose community
Services District, I understand many issues that
arise in regard to the various types of Districts
and their insurance needs.

As a Board member on a JPA I understand
the Governance Structure that allows an organization
to move forward in a positive manner.

I certify that I am a Board member or a full-time management employee for the agency from which I have been nominated. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature



Date

4-23-09

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates. No statements are endorsed by SDRMA.

Nominee/Candidate Vincent C. Ferrante
District/Agency Moss Landing Harbor District
Work Address 7881 Sandholdt Road
Work Phone 831.633.5417 Home Phone 831.449.2409

Why do you want to serve on the SDRMA Board of Directors?

I have been involved in Special District fiscal planning and risk management and have an interest and desire to support sound fiscal policies and promote quality risk management services to special districts throughout the state.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization)

I have served as an elected official on the Moss Landing Harbor District (MLHD) Board of Harbor Commissioners since 2003. This requires constant budgeting vigilance and action responsive to constituent needs. I have served as Chair of the MLHD Liveboard Committee, Vice Chair of the MLHD Budget Committee and Property Improvement Committee. In that capacity I gained in-depth knowledge of rules and regulations governing special districts as well as consensus-building among committee members.

I have served on the following California Special District Association:

1. Membership & Retention
2. Budget/Fiscal
3. By-Laws

I was appointed to the Monterey County Overall Economic Development Commission by the County Board of Supervisors and serve as Vice Chair of its Grants and Finance Committee. By this appointment, the County Board has demonstrated confidence in my fiscal abilities, experience and insight.

I am currently serving on the Monterey County Special District Association and was elected Secretary/Treasurer for 2009.

I have also served as a Director on the Central Coast Federal Credit Union Board where I gained knowledge of the needs of the community and small and large businesses, in addition to Federal Banking regulations and reporting. Other committee involvement includes Vice Chair of the Salinas, California

Sister City Organization (of which I was named Member of the Year in 2005), Trustee of the Salinas, California Sons of Italy in America Lodge and Chair of the City of Monterey's annual Festa Italia Festival Parade.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

What special skills, talents, or experience (including volunteer experience) do you have?

I have experience and/or training in project management, report preparation, public speaking, strategic planning, budget analysis and preparation, risk management, health benefits and retirement plans. Being on committees and working with others toward common goals requires a willingness to listen and exercise flexibility. My analytical skills are thorough and enable me to make informed decisions.

General Comments / Statements

I have completed the CSDA Special District Governance Academy and have taken courses through the Institute for Local Government. I am confident I will be a diligent and valuable member of the Board.

I will dedicate myself to the vision and goals of the SDRMA and I look forward to the opportunity to be a contributing member serving on this Board.

I certify that I am a Board member or a full-time management employee for the agency from which I have been nominated. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature:


Vincent C. Ferrante

Date: MARCH 25 - 2009

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – no attachments will be accepted. No statements are endorsed by SDRMA.

Nominee/Candidate Muril N. Clift, CPCU, CLU
District/Agency Cambria Community Services District
Work Address PO Box 1799, Morro Bay, CA 93443-1799
Work Phone 805 772-6101 Home Phone 805 927-7124

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

I desire a position on the SDRMA Board because I see it as an expansion of my commitment to Special Districts and commitment to the concept of member controlled risk management services.

I believe current California legislation makes it very difficult for any new city to incorporate. As a result, I believe the Special District will become the dominate model for local governing bodies.

The degree to which any organization can bring a diversified service to the public is often controlled by the availability of insurance protection and risk management services. SDRMA is uniquely situated and qualified to provide the services Special Districts need to provide for their constituents. I look forward to being part of the member support organization needed by an expanding world of Special Districts.

For 38+ years I have been involved in the commercial insurance marketplace. A marketplace characterized by the competing interests of the insurance sellers, consumers and insurance companies. Brokers whose major concern is commission income. Consumers whose major concerns are availability and price. Companies whose major concerns are premium volume and profitability. Lacking in all areas is a commitment to loyalty.

SDRMA as a member organization starts with the commitment of loyalty to its members, mitigating the competitive forces driving the commercial insurance market. I find this commitment of loyalty between the members and service providers a healthy solution to the cyclic problems inherit in meeting insurance needs. It is my desire to encourage this type of solution to the risks faced by Special Districts by serving on the Board of SDRMA

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

Currently serving as a Director of Cambria Community Services District, serving on the Finance Committee, Governmental Relations Committee and Forest Service Committee. Current term expires 12/2012. Previous elected Board experience includes: (1) Elected Trustee of Kern County High School District. District composed of 17 high schools at the time. (2) Elected Director of Santa Maria Public Airport District. District administered a 2200 acre airport, industrial and agriculture facility. Served as District President and member of many committees.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

**What special skills, talents, or experience (including volunteer experience) do you have?
(Response Required)**

I bring 38+ years of insurance experience in personal and commercial lines insurance. I understand the risks faced by community organizations and the insurance needs of employees. I hold advanced insurance degrees of Chartered Property and Casualty Underwriter and Chartered Life Underwriter. Additionally I have completed over 1000 hours of continuing education in the insurance field.

I am experienced in the political field and understand how elected bodies think and act. I have been elected to three different boards in my career and served on several appointed advisory committees. I have served on political action committees representing the positions of the insurance company. I have authored insurance code legislation and managed the bill through the California legislature, spending many hours "walking the halls" of the California Assembly and Senate.

General Comments / Statements (Response Optional)

I believe I would bring a diverse background to the SDRMA Board of Directors.

First, I have a strong commitment to the Special District as the ultimate form of local control of community functions.

Second, with experience on three different types of Special Districts, a school district, an airport district and a multi-task community service district I believe I can represent the diversity of districts that make up SDRMA.

Third, my experience in the general insurance market place provides a unique understanding of the needs of organizations and their employees. My extensive experience in marketing insurance could be helpful in representing the benefits of SDRMA to potential members.

Fourth, I understand and have experience with the political influences that affect the insurance marketplace.

Finally, I have the desire and time to serve and believe a position on the Board of Directors of SDRMA would be an opportunity to put to use my experiences.

I certify that I am a Board member or a full-time management employee for the agency from which I have been nominated. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature  Date 5/7/2009

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

Nominee/Candidate Allison Voigt Hamaker
District/Agency El Dorado Hills Community Services District
Work Address 1021 Harvard Way, El Dorado Hills, CA 95762
Work Phone (916) 614-3207 Home Phone (916) 388-1938

Why do you want to serve on the SDRMA Board of Directors?

The SDRMA influences the activities and safety of the public. By serving on the Board, I will be able to keep abreast of the current issues affecting both my agency and others served by SDRMA while advancing the mission of my agency and the sister agencies we represent.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization)

I've held positions on several boards and committees, both small and large:
Landscaping and Lighting Assessment District Oversight Committee at CRPD, coordinator
American Society of Women Accountants Sacramento Valley Chapter ten years, past president
Committee Chair four years for Troop 40 and Troop 941 of the Boy Scouts of America
Faculty Curriculum Committee at American River College, student representative
Accounting Society CSUS three years, past president
Committee chair of my congregation's Activities Committee and president of Children's Primary

What special skills, talents, or experience (include volunteer experience) do you have?

I bring organizational skills, preparation in the topics to be discussed, interest in my fellow committee members, a sense of humor, and the ability to distill the essence of the conversation to clarify and summarize the ideas of the group.

General Comments/Statements:

It was my responsibility as a staff member at a past employer to manage liability claims, write liability claim staff reports for the Board of Directors, and to prepare the agency for the risk management pool representatives' annual visit. I enjoy this work and this topic, and look forward to being a part of SDRMA.

I certify that I am a Board member or a full-time management employee for the agency from which I have been nominated. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature

Allison V. Hamaker

Date

5/20/2009

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates. No statements are endorsed by SDRMA.

Nominee/Candidate John C. Yeakley
District/Agency Bear Valley CSD
Work Address 28999 South Lower Valley Road, Tehachapi, CA 93561
Work Phone (661) 821-4428 Home Phone (661) 397-4519

Why do you want to serve on the SDRMA Board of Directors?

I have served on the SDRMA Board since March of 1999. I have served as vice president since January, 2002. During that time, I have seen SDRMA expand significantly. In 1999, SDRMA had 238 members in its property liability program and SDWCA had 73 members in its Workers Comp program. In July, 2003 SDWCA merged with SDRMA and the combined organization now has 429 members in the property liability program and 339 members in the workers comp program. During the same period, assets have increased from \$20 million to \$116 million. Retained earnings have increased from \$7 million to \$32 million. Over that time, SDRMA has also branched out into the area of employee health benefits (2006) and currently has 51 agencies (approx 1200 employees) enrolled in that program. A very visible result of this growth is SDRMA's purchase in 2004 of its own building in downtown Sacramento. SDRMA currently occupies most of the third floor, rents the remainder of the building and realizes approximately \$400,000 annually in rental income. I am very proud to have been a part of this dramatic growth. I am also proud to have been a part of the board which recently made the decision to reduce rates by 15% for the 2009/2010 program year. I would be honored to have the opportunity to continue serving on this board.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization)

As previously mentioned, I have ten years of experience on the SDRMA board of directors. I have also served for fourteen years on the Tehachapi Water Availability Preservation Committee, seven years on the Greater Tehachapi Fire Safe Council, and have served on ACWA's Groundwater Committee and Safe Drinking Water Subcommittee.

As General Manager of the Bear Valley CSD, I regularly assist the board of directors in the administration of several standing committees and have (as required or requested) organized and administered ad hoc committees of the board and/or of citizens of the district.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

What special skills, talents, or experience (including volunteer experience) do you have?

Substantial military and civilian experience in general management, contract administration/negotiation, project management, energy and environmental issues. Licensed professional engineer in California and Oregon. Certified Special District Administrator and CSDA recognition in Special District Governance. I was a member of the working group appointed by the Senate Committee on Local Government to rewrite the laws affecting Community Services Districts in 2004 (SB 135).

As General Manager for the Bear Valley CSD, I am responsible for providing services relating to: water, wastewater, solid waste, roads, drainage, police, park & recreation, mail/postal services, mosquito abatement and pine bark beetle control.

General Comments / Statements

Background:

26 years, United States Navy Construction Forces including combat construction (Seabees), base maintenance, and construction management. Vietnam veteran. Enlisted in 1967, retired in 1993 as a Lieutenant Commander, Civil Engineer Corps. Took employment with Bear Valley CSD shortly after retiring.

Education:

| | | |
|-----------------------------|----------------------------|------|
| AAS (Diesel Technology) | Oregon Technical Institute | 1967 |
| BS(Mechanical Engineering) | University of Washington | 1976 |
| BS(Business and Management) | University of Maryland | 1980 |
| MS(Petroleum Engineering) | University of Texas | 1981 |

Organizations:

Toastmasters International, Veterans of Foreign Wars, Fleet Reserve Association, Vietnam Veterans of America, National Rifle Association, California Rifle and Pistol Association

Hobbies & Interests:

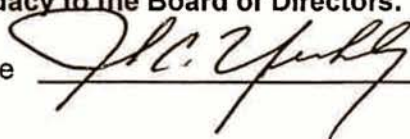
Fishing, firearms, judo, scuba, cribbage, outdoors and fitness

Personal:

Age 62; married 38 years, reside in Bakersfield with wife, daughter and grandkids (ages 16, 14, 7, 2, and 1).

I certify that I am a Board member or a full-time management employee for the agency from which I have been nominated. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature



Date

5-6-09

RESOLUTION NO. _____

**A RESOLUTION OF THE GOVERNING BODY OF THE
Nipomo Community Services District
FOR THE ELECTION OF DIRECTORS TO THE SPECIAL DISTRICT
RISK MANAGEMENT AUTHORITY BOARD OF DIRECTORS**

WHEREAS, Special District Risk Management Authority (SDRMA) is a Joint Powers Authority formed under California Government Code Section 6500 et seq., for the purpose of providing risk management and risk financing for California special districts and other local government agencies; and

WHEREAS, SDRMA's Sixth Amended and Restated Joint Powers Agreement specifies SDRMA shall be governed by a seven member Board of Directors nominated and elected from the members who have executed the current operative agreement and are participating in a joint protection program; and

WHEREAS, SDRMA's Sixth Amended and Restated Joint Powers Agreement Article 7 - Board of Directors specifies that the procedures for director elections shall be established by SDRMA's Board of Directors; and

WHEREAS, SDRMA's Board of Directors approved Policy No. 2007-06 Establishing Guidelines for Director Elections specifies director qualifications, terms of office and election requirements; and

WHEREAS, Policy No. 2007-06 specifies that member agencies desiring to participate in the balloting and election of candidates to serve on SDRMA's Board of Directors must be made by resolution adopted by the member agency's governing body.

NOW, THEREFORE, BE IT RESOLVED that the governing body of the Nipomo Community Services District selects the following candidates to serve as Directors on the SDRMA Board of Directors:

(continued)

**OFFICIAL 2009 ELECTION BALLOT
SPECIAL DISTRICT RISK MANAGEMENT AUTHORITY
BOARD OF DIRECTORS**

VOTE FOR ONLY FOUR (4) CANDIDATES

Mark each selection directly onto the ballot, voting for no more than four (4) candidates. Each candidate may receive only one (1) vote per ballot. A ballot received with more than four (4) candidates selected will be considered invalid and not counted. All ballots must be sealed and received by mail or hand delivery in the enclosed self-addressed, stamped envelope at SDRMA on or before 5:00 p.m., Thursday, September 10, 2009. Faxes or electronic transmissions are NOT acceptable.

- ROBIN A. PRIDEAUX**
Board Secretary, Cuyama Community Services District

- JEAN BRACY, SDA**
Director of Administrative Services, Mojave Desert Air Quality Management District

- ED GRAY**
Board Member, Chino Valley Independent Fire District

- DAVID ARANDA (INCUMBENT)**
General Manager, Stallion Springs Community Services District

- VINCENT C. FERRANTE**
Commissioner, Moss Landing Harbor District

- MURIL N. CLIFT, CPCU, CLU**
Director, Cambria Community Services District

- ALLISON VOIGT HAMAKER**
Finance Director, El Dorado Hills Community Services District

- JOHN C. YEAKLEY (INCUMBENT)**
General Manager, Bear Valley Community Services District

ADOPTED this _____ day of _____, 2009 by the _____ following roll call votes listed by name:

AYES: _____

NOES: _____

ABSTAIN: _____

ABSENT: _____

APPROVED:

ATTEST:

TO: BOARD OF DIRECTORS
FROM: BRUCE BUEL *BDB*
DATE: JULY 3, 2009

**AGENDA ITEM
E-7
JULY 8, 2009**

CONSIDER SPONSORING SUSTAINABLE COMMUNITIES WORKSHOP

ITEM

Consider President Harrison's request to sponsor sustainable communities workshop
[PROVIDE POLICY GUIDANCE]

BACKGROUND

President Harrison is proposing that the Board sponsor a workshop for Nipomo regarding ideas on transitions towards self reliance on the community level. Attached are sample materials on this concept.

FISCAL IMPACT

Assuming that the presenters are free and the workshop is held at the NCSD Office, then the only cost would be promotion. If the Board desires a larger venue, costs could range from \$200 to \$400 for a one-night rental at the High School or at Blacklake respectively.

RECOMMENDATION

Staff recommends that the Board hear from President Harrison and discuss the benefits of such a workshop and its relationship to NCSD's Mission. Should the Board wish to sponsor such a workshop, direction is needed in terms of the who, what, where, when details.

ATTACHMENTS

- Supporting Materials

Community Garden on Palm Spring Rd.
-811 - C Approved How do you address:
30% ReSite Finance and 20% for property taxes

Transition Towns: Creating a Positive Vision in South County Cities

Presented by the South County Initiating Group
for Transition San Luis Obispo County
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Transition Recognitions

- ▶ Life with less energy is inevitable, and it is better to plan for it than be taken by surprise.
- ▶ We need to be able to cope with energy shocks.
- ▶ We have to act for ourselves and we have to act now.
- ▶ By unleashing the collective genius of the community, we can design ways of living that are more enriching, satisfying and connected.

The Key Question

For all those aspects of life that this community needs to sustain itself and thrive, how do we:

- ▶ dramatically reduce carbon emissions (in response to climate change);
- ▶ significantly increase resilience (in response to peak oil);
- ▶ greatly strengthen our local economy (in response to economic instability)?

Resilience Indicators

- | | |
|---|---|
| ▶ Percentage of food consumed locally that was produced within a given radius | ▶ Percentage of local trade carried out in local currency |
| ▶ Ratio of car parking space to productive land use | ▶ Proportion of the community employed locally |
| ▶ Degree of engagement in practical relocalization work by local community | ▶ Percentage of essential goods manufactured within a given radius |
| ▶ Amount of traffic on local roads | ▶ Percentage of local building materials used in new housing developments |
| ▶ Number of businesses owned by local people | ▶ Number of community gardens instead of lawns |

Right Mission Bank

CDARS
Farmers Market

SOCO Initiating Group Transition Towns
Initiating Group

The Transition Handbook

Visioning a Positive Future

- ▶ Our vision is a future where life is more socially connected, more meaningful and satisfying, more sustainable, and more equitable in a greater community of relocalized communities...
- ▶ Where production and consumption occur closer to home...
- ▶ Where long and fragile supply chains—now vulnerable to surges in oil prices and economic volatility—have been replaced by interconnected local networks...
- ▶ Where the total amount of energy consumed by businesses and citizens is dramatically less than current unsustainable levels...

Why the Transition Model Works

- ▶ Deeply rooted in permaculture principles and ethics
- ▶ Cultivates positive visioning
- ▶ Provides training in the practical skills needed for a post-oil society
- ▶ Recognizes the psychological side of the process of change
- ▶ Encourages inclusiveness, openness to peer-to-peer feedback
- ▶ Promotes non-hierarchical, distributed decision-making
- ▶ Enables sharing and networking
- ▶ Balances inner/outer, left/right brain, masculine/feminine, young/old
- ▶ Provides a replicable model, a clear pathway
- ▶ Engages whole communities in the process
- ▶ Scalable and adaptable to particular communities
- ▶ Spreads like wildfire!

Cheerful Disclaimer

This work, just like the Transition model, is brought to you by people who are actively engaged in Transition in a community—people who are learning by doing and learning all the time, people who understand that we can't sit back and wait for someone else to do the work.

People like *you*, perhaps

Or, like can?

Contact us and let's get working together!

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Kathleen Deragon: kdbythesea@gmail.com (474-6444)
Ken Smokoska: kensmokoska@gmail.com (544-6628)
Carla Hurt: gotocarla@yahoo.com

The most critical issues and greatest opportunity of our time, and what you can do about it.

FROM OIL DEPENDENCE TO LOCAL RESILIENCE

The Transition movement is a response to the three toughest challenges facing humankind: climate change, peak oil and economic instability. Transition Initiatives, designed to achieve relocalization at the community level, currently represent one of the most promising and inspiring ways of engaging people and communities in strengthening themselves against the effects of these three monumental challenges, resulting in a life that is more fulfilling, socially connected and resilient.

ORGANIC FOOD FROM LOCAL FARMS AND COMMUNITY GARDENS

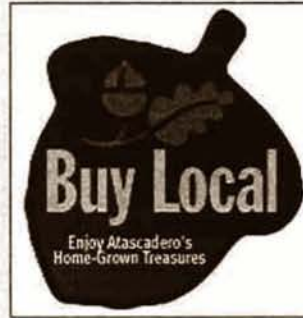
Transition encourages expanding the production and markets for locally grown, healthy, organic food by local farmers and urban gardeners, a system that is designed to feed local people today, and to go on doing so for an indefinite future with a significantly lower fossil fuel consumption and carbon footprint.



For photos and stories please visit:
transitioncalifornia.ning.com

A THRIVING AND RESILIENT LOCAL ECONOMY

Transition encourages local investment approaches that support the regeneration of the local economy. As the focus becomes increasingly local, local currencies evolve to support local business and the needs of the community. As global business models unravel, local entrepreneurs will provide for services and goods desired by local residents.



LOCAL TRANSPORT & COMMUNITY REDESIGN

Transition supports transforming our towns and cities from bland places dominated by strip malls, cars, trucks, and parking lots into aesthetically-pleasing, pedestrian friendly places with green spaces, trees, gardens, and public art, providing people with more to see and do. The redesign of urban and suburban streets can accommodate pedestrians, cyclists, buses, and carpools as well as creating energy efficient and lower carbon public transportation.



Copy of document found at www.NoNewWipTax.com

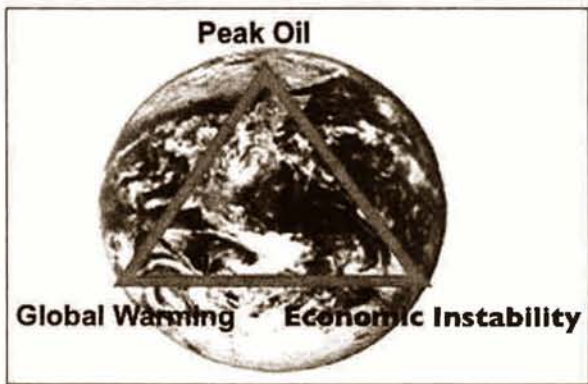
ENERGY EFFICIENCY & LOCAL RENEWABLES

Transition encourages a significant reduction in local energy use through efficient lighting, appliances, and building systems. A massive scale-up of renewable energy will provide the remaining energy needs of residents and businesses.



To learn more about the capabilities and resilience of communities involved in the Transition movement, please visit the websites listed on the other side of this brochure. You will find information for local events, and contacts there as well. We look forward to the opportunity to meet and work with you.





The three greatest challenges facing humankind are the current economic instability and the more profound longer-term crises of peak oil and climate change. To meet these challenges, we must take Gandhi's advice and be the change we want to see in the world. We are called to unleash the collective wisdom of our community by designing and implementing new "grass-roots" initiatives.

We are a growing group of people in San Luis Obispo (SLO) County that desires to link with other concerned citizens to support the formation of local Transition Initiatives, based on the promising "relocalization" approach (www.transitiontowns.org) that is spreading virally in California, the US, the U.K. and worldwide.

Transitions Initiatives (TI) begin by raising general awareness of these challenges and the implications for the economic health and well being of the community. Next, the TI process encourages the community to create a community vision of a more resilient and sustainable future. A natural outgrowth of this community visioning is the creative planning and conduct of projects such as illustrated on the inside of this brochure.

We are fortunate to be living in an area where there is a growing number of businesses, non-profits and government agencies passionately pursuing these Transition-related activities.

To get involved or request more information, contact a member of the Transition Seed Group for San Luis Obispo County:

- Bob Banner; info@hopedance.org
- June Cochran; gradofcal@yahoo.com
- Jim Cole; jim.cole@mac.com
- Liana Forest; bearforest@sbcglobal.net
- Terri Knowlton; TerriK@charter.net
- Pam Stein; pbstein@hotmail.com
- Paula Vigneault; pvigneault@gmail.com

For more information about local Transition Initiatives, please visit the following website:

www.transitioncalifornia.ning.com

What we are convinced of is this:

- If we wait for the governments, it'll be too little, too late.
- If we act as individuals, it'll be too little.
- But if we act as communities, it might just be enough, just in time.

For North County events:

<http://tinyurl.com/d95ck6>

For South County events:

<http://tinyurl.com/dc6nhz>

For Permaculture SLO events:

<http://tinyurl.com/cpfwhs>

Websites for additional information about Transition Initiatives and Local Events:

www.transitiontowns.org

www.transitionus.org

www.hopedance.org

www.transitionculture.org

Copy of document found at www.NoNewWipTax.com

www.transitioncalifornia.ning.com

TRANSITION

SAN LUIS OBISPO COUNTY

Rebuilding Community Resilience & Self-Reliance

Meeting the Three Toughest Challenges of Our Times:

- Economic Instability
- Peak Oil
- Climate Change



TRANSITION SOUTH COUNTY

A TRANSITION SLO COUNTY PARTNER

Local Self Reliance

Transition South County is part of a fast-growing international network of communities that are each implementing their own plan for creating sustainable projects such as utilization of local food, building energy efficient transportation systems and buildings, finding and creating renewable energy sources, and other projects. Our community goals are to increase local self-reliance, moving away from dependence on shrinking supplies of fossil fuels and to lower our impact on the environment in response to climate change. Within these goals we seek to create a purposeful, well-planned transition to a positive future based on community collaboration.

Working Transition Groups

Currently, Transition groups about to be formed in South County include:

- 1) Food
- 2) Energy
- 3) Media

These groups of local citizens will soon be designing and implementing practical initiatives that build local resilience.

Get Involved

To request more information, contact the South County Initiating Group:

June Cochran: gradofcal@yahoo.com (773-2847)

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(74-6444)

Carla Hurt: gotocarla@yahoo.com

Ken Smokoska: kensmokoska@gmail.com (544-6628)

Creating a Positive Community Vision

Transition South County seeks to connect with all concerned citizens, business, schools and government leaders that desire to collaborate in creating an energy descent action plan in response to these challenges. We desire to raise public awareness of the challenges, create a positive community vision of the future and support the work of volunteer working groups.

Possible Transition South County

Events:

- Transition Town Presentation and Potluck
- Film Showings
 - Coming Home
 - End of Suburbia
 - Power of Community
- Solar Oven Demonstration
- Raised or Vertical Gardens Class
- Home Energy Audit Presentation
- Report on 14 Sites Visited by Students in the Empower Poly Coalition on the California Energy Tour
- Overview of South County Environmental Issues
- Workshop to Create a Vision of Future Possibilities for Your City
- Local Money, Local Skills, Local Power Presentation

Websites

www.transitiontowns.org

www.transitionus.org

www.transitioncalifornia.ning.com