



Yucaipa Valley Water District

Notice and Agenda of a Board Workshop

Tuesday, August 28, 2012 at 4:00 p.m.

MEETING LOCATION: District Administration Building
12770 Second Street, Yucaipa

MEMBERS OF THE BOARD: Director Ian Cuthbertson, Division 1
Director Bruce Granlund, Division 2
Director Jay Bogh, Division 3
Director Lonni Granlund, Division 4
Director Hank Wochholz, Division 5

I. Call to Order

II. Public Comments At this time, members of the public may address the Board of Directors on matters within its jurisdiction; however, no action or significant discussion may take place on any item not on the meeting agenda.

III. Staff Report

IV. Presentations

A. Overview of the Proposed Yucaipa Basin Groundwater Study [[Workshop Memorandum No. 12-145 - Page 3 of 105](#)]

V. Capital Improvement Projects

A. Status Report on the Construction of the Yucaipa Valley Regional Brineline [[Workshop Memorandum No. 12-146 - Page 38 of 105](#)]

B. Status Report on the Construction of the R-10 Recycled Water Reservoir and Booster Complex [[Workshop Memorandum No. 12-147 - Page 43 of 105](#)]

C. Status Report on the Construction of the Crow Street Pipeline Facilities [[Workshop Memorandum No. 12-148 - Page 47 of 105](#)]

D. Status Report on the Construction of the Recycled Water Booster Facility at the Reservoir R-12.1 Complex [[Workshop Memorandum No. 12-149 - Page 48 of 105](#)]

E. Status Report on the Construction of the Wochholz Improved Salinity Effluent (WISE) Project [[Workshop Memorandum No. 12-150 - Page 50 of 105](#)]

Any person with a disability who requires accommodation in order to participate in this meeting should telephone Erin Anton at (909) 797-5117, at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation.

Materials related to an item on this agenda submitted to the Board of Directors after distribution of the workshop packet are available for public inspection during normal business hours at the District office located at 12770 Second Street, Yucaipa. Meeting material is also be available on the District's website at www.yvwd.dst.ca.us

VI. Administrative Issues

- A. Agreement Modification No. 6 to the Cooperative Funding Agreement with the United States Department of the Interior, Bureau of Reclamation Related to the Yucaipa Valley Regional Brineline Project [[Workshop Memorandum No. 12-151 - Page 53 of 105](#)]
- B. Claim for Damages Related to Dirty Water at 36226 Panorama Drive, Yucaipa - Michael Bolen [[Workshop Memorandum No. 12-152 - Page 57 of 105](#)]
- C. Claim for Water Damages Related to Mainline Break at 11966 California Street, Yucaipa - Joshua Ciccanti [[Workshop Memorandum No. 12-153 - Page 62 of 105](#)]
- D. Class II Non-Significant Categorical Industrial User Discharge Permit Number CP-003-03 Issued to Skat-Trak Performance Products [[Workshop Memorandum No. 12-154 - Page 83 of 105](#)]

VII. Director Comments**VIII. Closed Session**

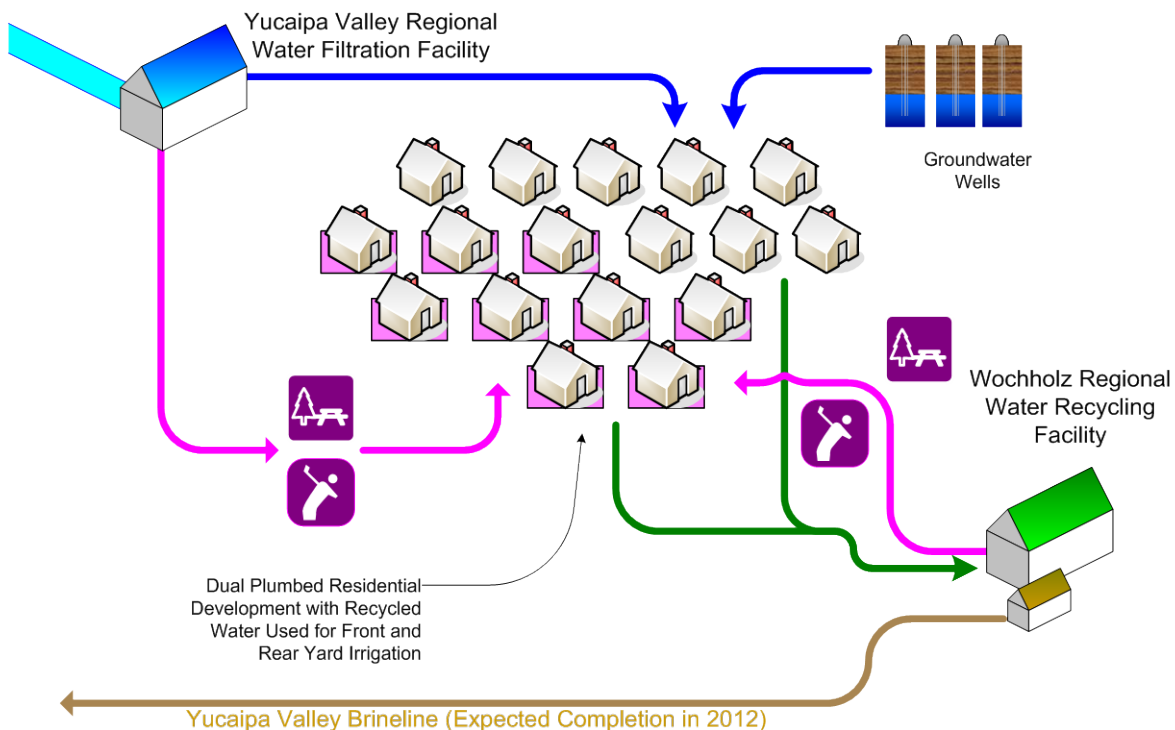
- A. Conference with Real Property negotiator(s) (Government Code 54956.8)
Property: Assessor's Parcel Number: 301-201-29
Agency Negotiator: Joseph Zoba, General Manager
Negotiating Parties: Palmer General Corporation
Under Negotiation: Terms of Payment and Price
- B. Conference with Labor Negotiator (Government Code 54957.6)
District Negotiator: Joseph Zoba, General Manager
Employee Organization: IBEW Local Union 14356 - YVWD Employees Association
- C. Conference with Labor Negotiator (Government Code 54957.6)
District Negotiator: Joseph Zoba, General Manager
Employee Organization: Supervisor Bargaining Unit
- D. Conference with Labor Negotiator (Government Code 54957.6)
District Negotiator: Joseph Zoba, General Manager
Employee Organization: Confidential Employee Bargaining Unit
- E. Conference with Labor Negotiator (Government Code 54957.6)
District Negotiator: Joseph Zoba, General Manager
Employee Organization: Exempt Employee Bargaining Unit

IX. Adjournment

Date: August 28, 2012

Subject: Overview of the Proposed Yucaipa Basin Groundwater Study

Over the past several years, the Yucaipa Valley Water District has taken a series of proactive steps to preserve and protect our water resources. The illustration below shows a simple overview of how the District integrates our four key services: the drinking water system (blue); the sewer system (green); the recycled water system (purple); and the salt removal system (brown).

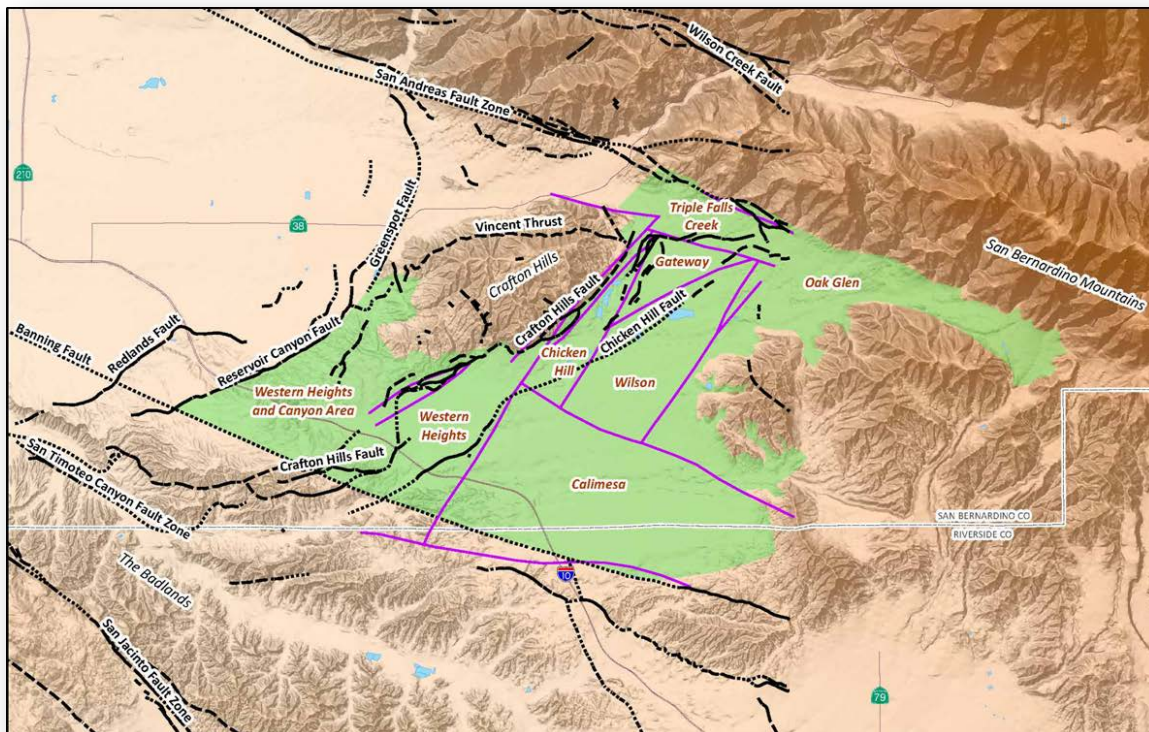


By carefully planning and implementing integrated facilities, the Yucaipa Valley Water District is able to effectively and efficiently manage our local water resources.

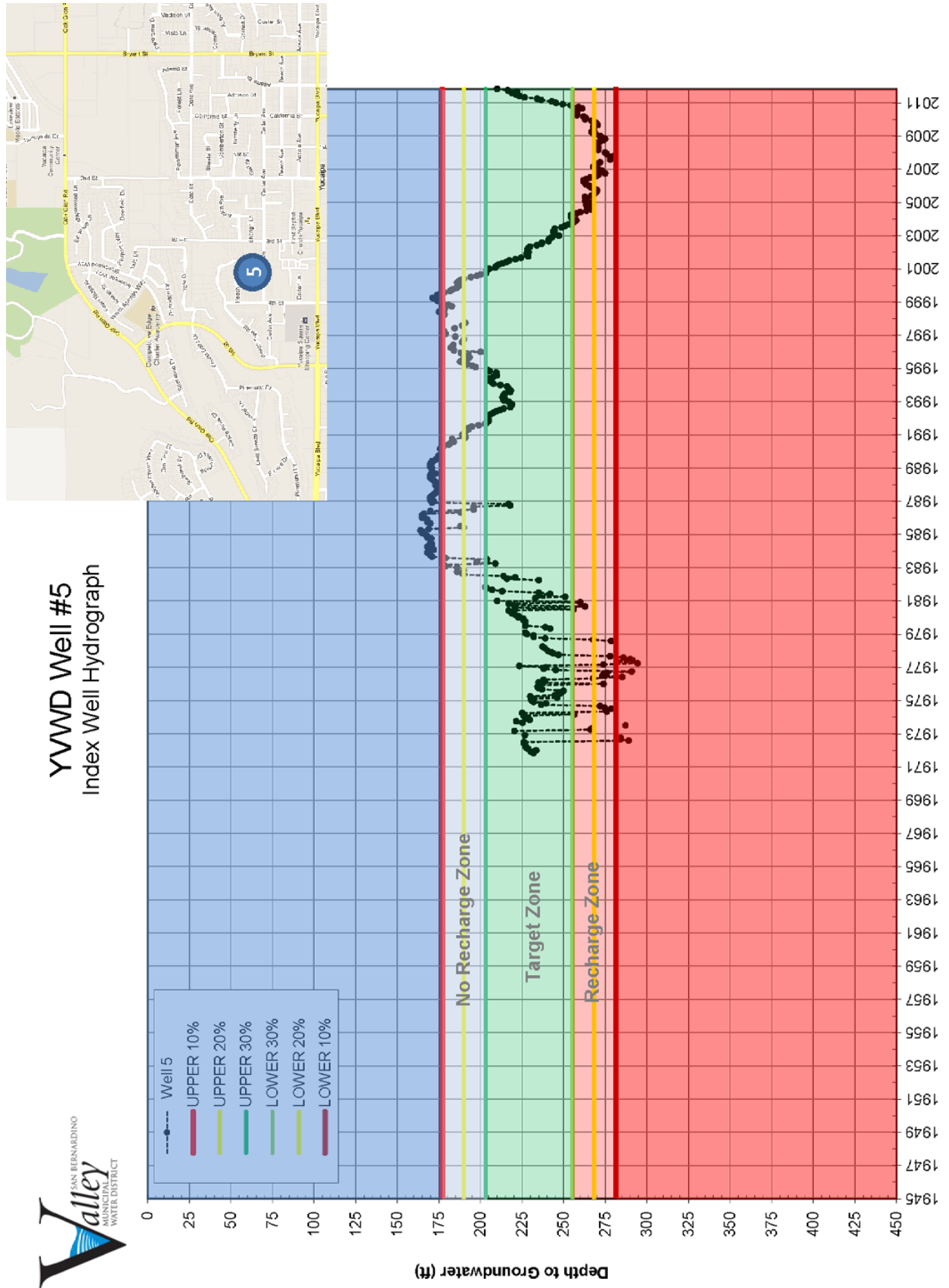
To further improve our water resource management strategy, the Yucaipa Valley Water District has partnered with the San Bernardino Valley Municipal Water District, the San Geronio Pass Water Agency, the City of Yucaipa, the City of Redlands, South Mesa Mutual Water Company and Western Heights Mutual Water Company to update our overall knowledge base of the Yucaipa Groundwater Basin. Prior studies have provided a good understanding of the basin dynamics, but now we have more groundwater production data and water level data that should provide new perspectives and goals.

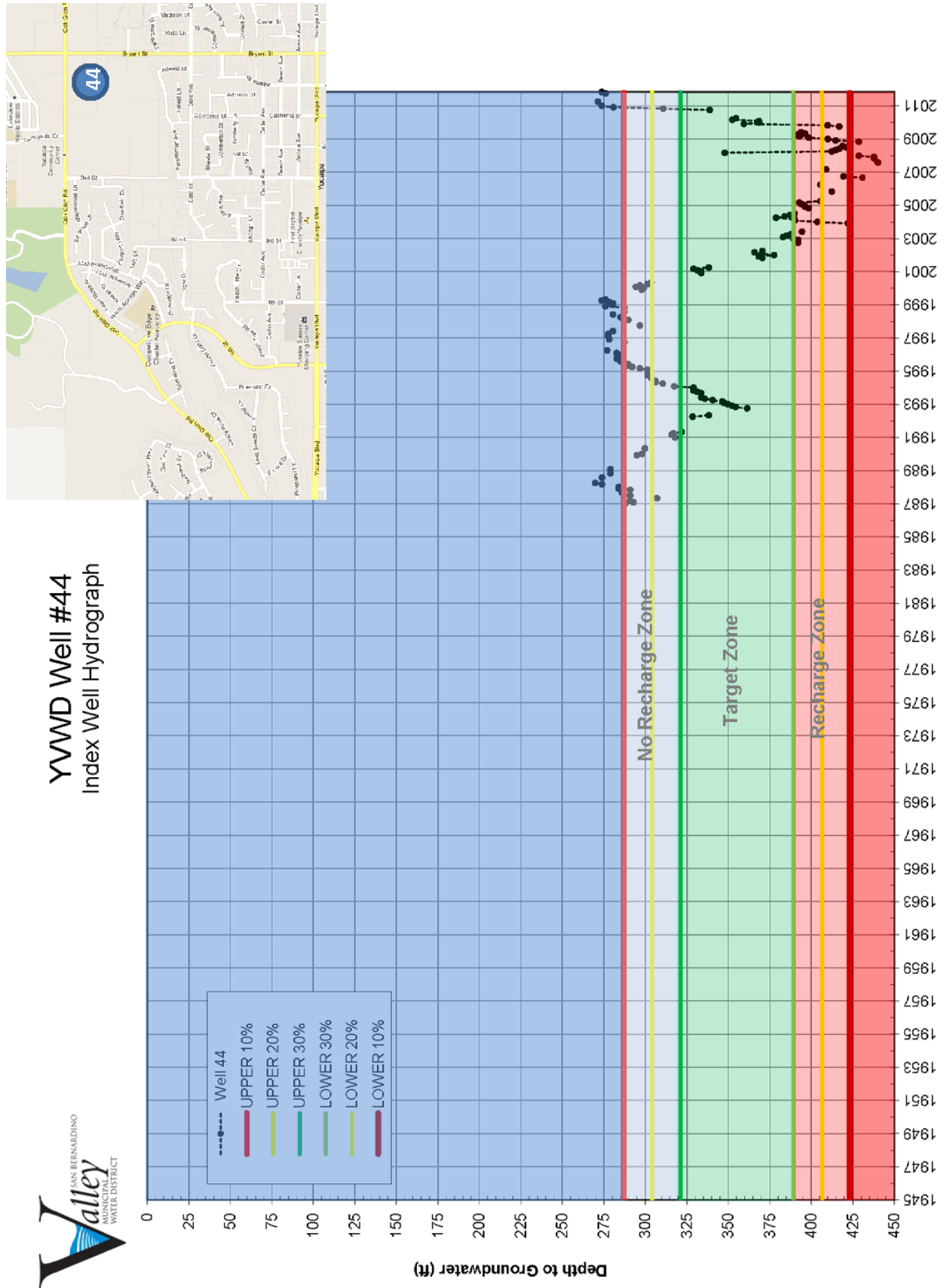
On May 21, 2012, the San Bernardino Valley Municipal Water District, on behalf of the partnering agencies, released the attached Request for Proposals (RFP) to determine the usable capacity and safe yield for each sub-basin within the Yucaipa Basin Area. The RFP was intentionally non-specific related to the consultant's approach to enable the group to evaluate and consider alternatives for updating the production and storage capacity of the groundwater basin.

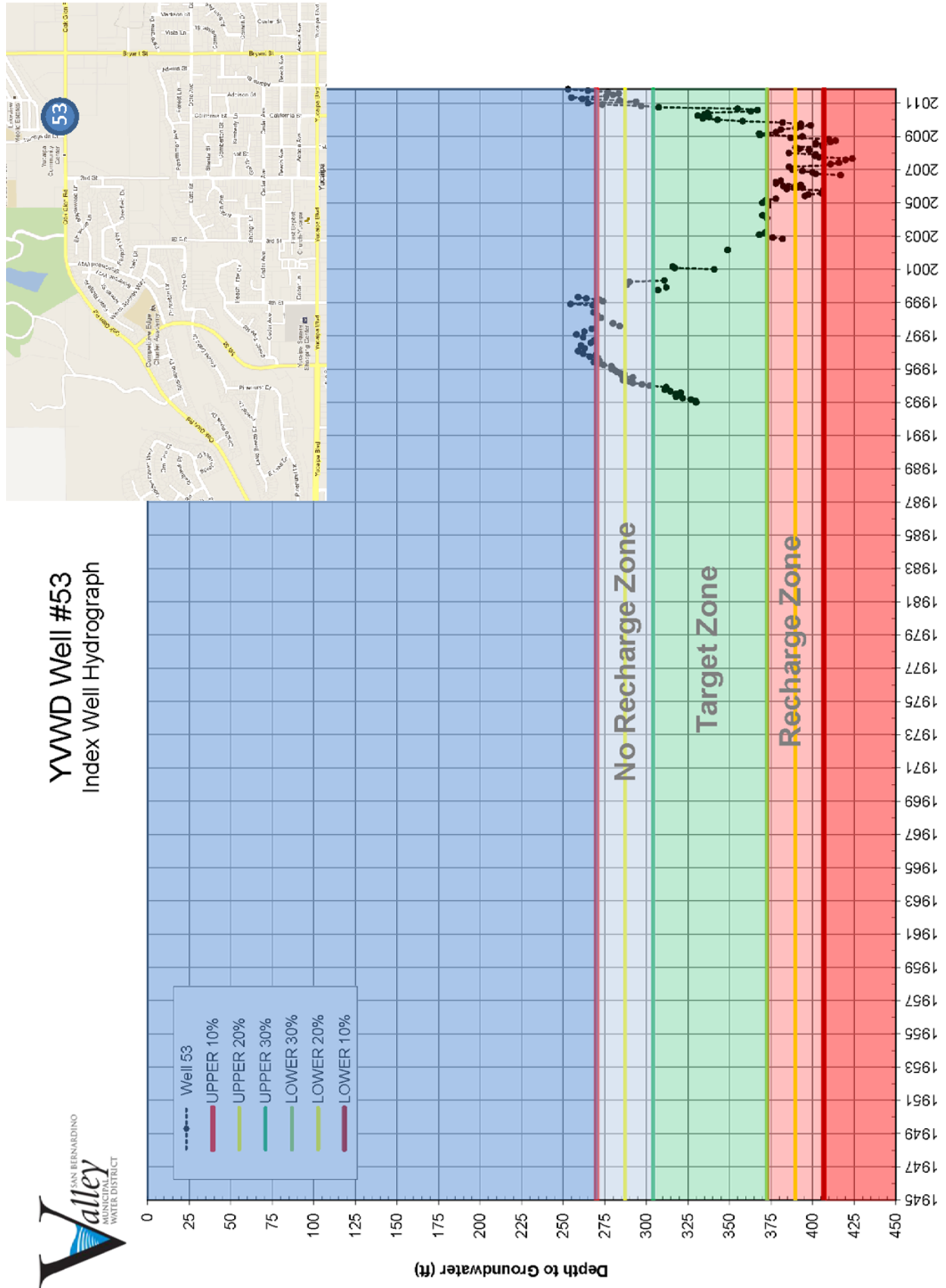
The approach proposed by Geoscience (attached) was most favorable to the water agencies participating in the review. Their approach will help to gain specific information about each subbasin within the Yucaipa Basin complex.



During this agenda item, the District staff will be providing an overview of the selected approach and a recommendation for a financial contribution to be considered at the regular board meeting on September 5, 2012.







Request for Proposals

DETERMINE THE USABLE CAPACITY AND SAFE YIELD FOR
EACH SUB-BASIN WITHIN THE YUCAIPA BASIN AREA

San Bernardino Valley Municipal Water District

in partnership with:

City of Redlands

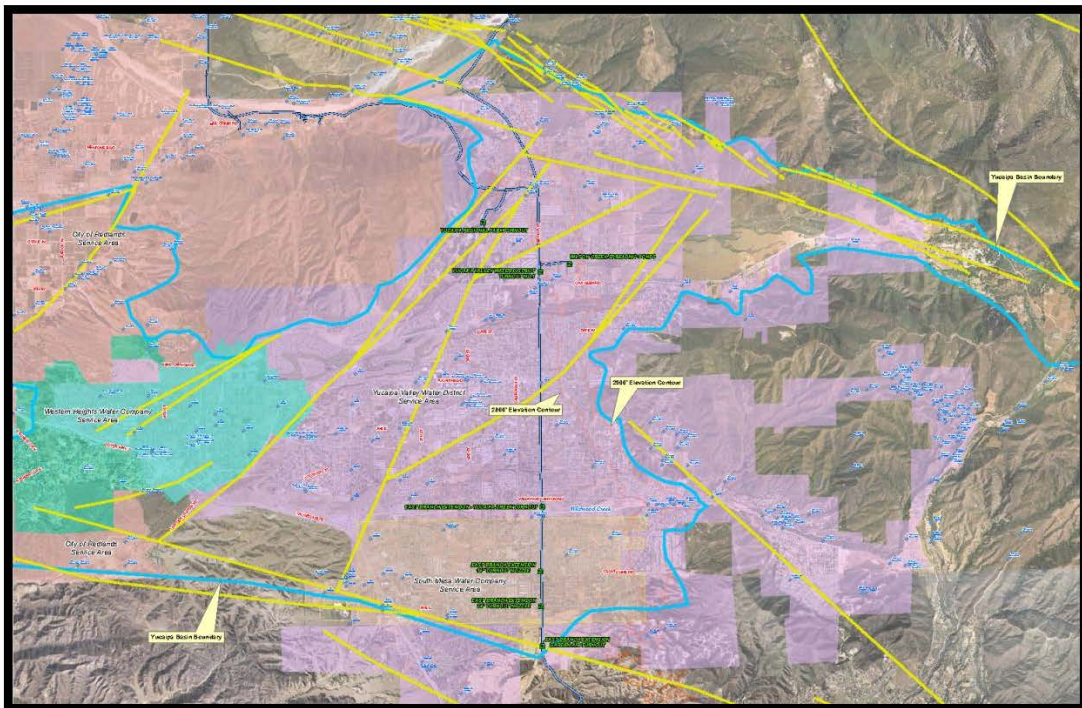
San Geronio Pass Water Agency

South Mesa Water Company

Western Heights Water Company

City of Yucaipa

Yucaipa Valley Water District



The Filing Deadline is:

June 29, 2012 4:00PM

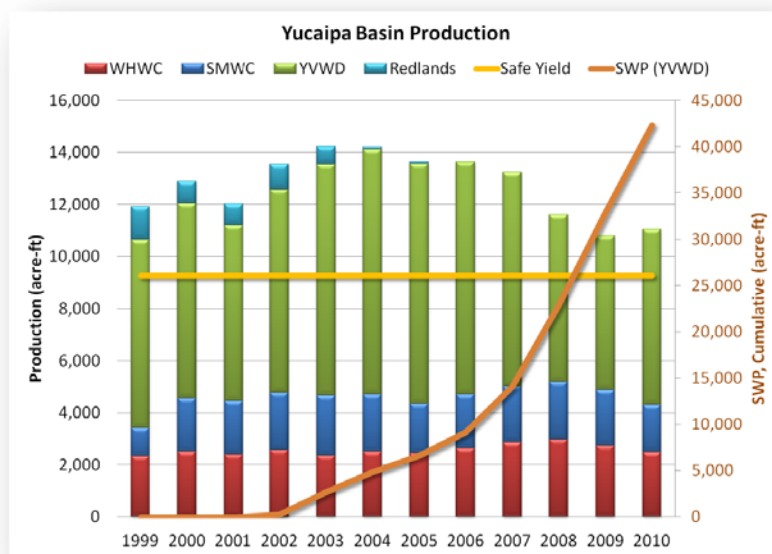
1) INTRODUCTION

The Yucaipa Basin Area (Basin) extends from the Crafton Hills and San Timoteo Badlands on the west to the Yucaipa Hills, San Gorgonio Mountains on the east and from the San Bernardino Mountains (Yucaipa Ridge) to the Banning Fault on the South. The Basin includes numerous faults that act as groundwater barriers, dividing the Basin into sub-basins. The South mesa Water Company, Western Heights Water Company and Yucaipa Valley Water District utilize the Basin resources to meet most, if not all of the water needs for their nearly 70,000 customers. In addition, the City of Redlands also pumps water from the Basin.

The United States Geological Survey (USGS) first studied the Basin in 1970 (see Appendix) and continues to study the Basin. The Basin was also studied by John Mann in 1986 and David Keith Todd in 1988. A summary of the safe yield value from various studies is included below:

<i>Study</i>	<i>Safe Yield (acre-ft)</i>
USGS (1970)	7,000
Mann (1986)	10,634
Todd (1988)	7,910
Mann and Todd, average (1990)	9,270

In 1990, John Mann and David Keith Todd recommended using a working safe yield of 9,270 acre-feet which is the average of their independent safe yield estimates. Average extractions from the Basin for the period 1999 to 2010 have consistently exceeded the estimated safe yield (see below).



The water agencies realize that the current extractions from the Basin are not sustainable and have been meeting together to discuss management of this important resource.

The San Bernardino Valley Municipal Water District (Valley District) is a wholesale water agency and a Contractor for water from the State Water Project (State Water Contractor). Its boundary covers the eastern two-thirds of the San Bernardino Valley, the Crafton Hills, and the portion of Yucaipa north of the county line. The San Gorgonio Pass Water Agency (Pass Agency) is also a wholesale water agency and State Water Contractor and serves the portion of the water purveyors south of the county line. The retail water agencies have asked both wholesale water agencies to partner with them on this study.

Recently, Western Heights Water Company hired Geoscience Support Services, Inc. to evaluate the maximum perennial (safe) yield for the groundwater basin(s) within the Western Heights Water Company service area (WHWC Study). The results of the WHWC Study are to be incorporated into this proposed study so that there is no overlap in work. A copy of the proposal for the WHWC Study is included in the appendix.

2) PROPOSAL SCHEDULE

<u>Date</u>	<u>Event</u>
5/21/12	Release of Request for Proposal
6/29/12 by 4:00pm	Deadline for Valley District Receipt of Proposals
7/13/12	Notice of Interviews (optional)
7/19/12	Interviews (optional)
7/17 or 8/7/2012	Board of Directors Approval
7/18 or 8/8/2012	Award Contract

3) CONSULTING TEAM

Proposer (Consultant) is responsible for assembling a team which meets all of the requirements outlined in this RFP.

4) SCOPE OF SERVICES

Consultant will use existing data and studies to make an estimate of the usable capacity and safe yield for each sub-basin within the overall Basin. Consultant will review the sub-basin boundaries, as defined by previous studies, and use water levels and other data to confirm these boundaries or provide an alternative. Consultant will also incorporate the results of the existing WHWC Study. Should Consultant desire to modify the scope of work for the WHWC

Study, such suggested modifications must be clearly described within this proposal.

DELIVERABLE(S):

Report (100% and Final) summarizing the results of the usable capacity and safe yield estimates for each sub-basin including supporting figures, tables and all additional information and data supporting Consultant's findings. Once finalized, all electronic files must be submitted to Valley District in the latest editions of the following software programs: AutoCAD, Arc/Info, Microsoft Excel, Microsoft Word, Adobe Acrobat and Microsoft Project. No other electronic file format will be accepted without written approval from Valley District.

5) MEETINGS

Consultant will conduct all meetings necessary to complete this project.

6) PROJECT SCHEDULE

The proposal shall include a detailed, project schedule which shows the project tasks. The schedule will be reviewed and finalized with the Consultant prior to start of the project.

Once the schedule has been finalized, no extension will be allowed unless the extension has been requested, in writing, and approved by Valley District before a submittal deadline. Failure to submit required work by scheduled deadlines may result in cancellation of the remainder of the contract and all outstanding invoices. Should cancellation occur, all materials collected and/or developed during the process will become property of Valley District as stated in Valley District's standard agreement for consulting services.

7) PROPOSAL REQUIREMENTS

- a) **Body of the proposal** (may not exceed 8 pages in length with a minimum font size of 12 point)
 - i) Table of Contents
 - ii) Project Understanding. A clear statement of the project.
 - iii) Project Approach. The project approach shall include a detailed description of all the tasks needed for successful completion of the project and shall follow the general outline provided in the Scope of Services section above.
 - iv) Organizational chart illustrating the individuals who will actually work on the project complete with names, firm names, addresses, telephone numbers, email addresses and chain of responsibility (qualifications are to be provided in the appendix, see below).

- v) Project Schedule
- vi) Any other information that may assist Valley District in making its determination in the selection process: Consultant is encouraged to include any other information that will help Valley District make its selection.
- vii) Fee schedule: Fee schedule shall be organized to follow the general tasks in the Scope of Services. Services outlined in each proposal must comply with all requirements set forth in this RFP. The costs shall provide hourly rates and hours to complete each task, including sub consultants hourly rates and hours, and any other costs for a complete project. The level of effort and associated costs are to be easily understood by Valley District. Valley District accepts no responsibility for costs incurred by any individual or firm submitting a proposal pursuant to this RFP. The proposal must include a complete and fixed price. If the scope of services requires modification during the course of the work, Valley District will determine whether to amend the current agreement or to issue a subsequent RFP for additional services. The price specified must remain firm and irrevocable for 60 days following the RFP submission date. All proposals become property of Valley District and will not be returned.

b) Appendix

- i) Qualifications, licenses, certificates and resumes for all persons, including sub-consultants, that will actually work on the project. Please limit individual experience to similar projects. For each project used as experience, **highlight** the name(s) of each individual on the project team that is also proposed for this Project. Please include photograph(s) and reference(s) (be sure they are current).

Eight (8) hardcopies and one PDF copy of the proposal must be received by the filing deadline. Please submit your proposals to:

Bob Tincher
Manager of Engineering and Planning
San Bernardino Valley Municipal Water District
380 East Vanderbilt Way
San Bernardino, CA 92408

All questions regarding this RFP must be submitted in writing via email to the following email address: bobt@sbrvmwd.com. Answers will be sent via email to the entire distribution list for this RFP.

8) INTERVIEW

Interviews may be scheduled with select firms following initial review of the proposals and will take place on the date specified in the introduction. Interview must be

attended by the actual team members that will work on the project including any sub-consultants. The interview will consist of a 20-minute presentation by the project team followed by a 20-minute question and answer period.

9) EVALUATION PROCESS AND CRITERIA

Evaluation of proposals shall be based upon a competitive selection process. Review and evaluation of the submitted proposals will be based upon the following criteria:

- a) Project approach
- b) Experience on similar projects and/or projects of similar complexity and size.
- c) Demonstrated ability to perform the tasks outlined in this RFP efficiently and accurately.
- d) Proximity of firm/personnel to the work.
- e) Interview presentation.
- f) Fee (not an overriding consideration)

Valley District reserves the right to issue additional RFPs, to modify or to abandon this project before award of contract.

10) CONTRACT

A sample copy of Valley District's Standard Agreement for Consulting Services is attached for your review.

EXHIBITS

1. *Proposal for Geohydrologic Services to Determine the Maximum Perennial Yield of the Ground Water Basin within the Western Heights Water Company Service Area*, Geoscience Support Services, October 3, 2011.
2. Surface-Water and Ground-Water Quality in the Yucaipa Area, San Bernardino and Riverside Counties, California, 1996-98, United States Geological Survey Water-Resources Investigations Report 00-4269, Gregory O. Mendez, Wesley R. Danskin, and Carmen A. Burton, 2001.
3. Memorandum from Dr. John F. Mann, Jr. and Dr. David Keith Todd, January 23, 1990
4. Artificial Recharge Yucaipa, California, United States Geological Survey, Joe A. Moreland, August 7, 1970.

The EXHIBITS are available on the Valley District FTP site in a folder named "Yucaipa". The FTP instructions are as follows:

1. From any browser type: <ftp://logos.sbvmd.com>
2. username: sbvmdftp
3. password: sbvmdftp1

**Proposal for Determination of the Usable
Capacity and Safe Yield for Each Sub-Basin
within the Yucaipa Basin Area, Yucaipa,
California**

San Bernardino Valley Municipal Water District

JUNE 29, 2012

GEOSCIENCE



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COST PROPOSAL- UNDER SEPARATE COVER

APPENDIX A – GEOSCIENCE, RMC, SOUTHWEST GEOPHYSICS QUALIFICATIONS

OPTIONAL TASK 3.1 AND DESCRIPTION OF GEOPHYSICAL METHODS

INTRODUCTION TO THE TEAM

GEOSCIENCE Support Services, Inc., (GEOSCIENCE) is pleased to provide herein our proposal to provide professional services to San Bernardino Valley Municipal Water District (Valley District) and partners for the determination of the usable capacity and safe yield of the Yucaipa Ground Water Basin and subbasins. GEOSCIENCE is an established geohydrologic consulting firm specializing in ground water resource planning, development, management, and protection, and has worked for Valley District on numerous projects for over a decade. GEOSCIENCE routinely uses sound and current geohydrologic methods to understand the subsurface structure and the nature of aquifer systems for determination of maximum perennial yield or sustainable yield in ground water basins. GEOSCIENCE will be joined by RMC Water and Environment. Since 1999 RMC Water and Environment (RMC) has worked extensively for Yucaipa Valley Water District and is well acquainted with data and operations and personnel of YVWD and other local partners. A resume for Mr. Steve Goldman of RMC is provided in Appendix A.

A proposed optional task included herein is conducting a geophysical evaluation to confirm or adjust the locations of subbasin boundaries. If this task is selected, Southwest Geophysics will provide the geophysical services. Southwest

Firm Information:
 GEOSCIENCE Support Services, Inc.
 620 W. Arrow Highway, Suite 2000
 La Verne, CA 91750
 (909) 451-6650 (p)
 (909) 451-6638 (f)

PROJECT MANAGER:
 Brian Villalobos, PG, CHG, CEG
 (909) 451-6650 x 145
 bvillalobos@geoscience-water.com

GEOSCIENCE Services Provided:

- Geohydrologic Evaluation of Aquifer Systems and Safe Yield Determination
- Ground Water Flow and Solute Transport Modeling (Using MODFLOW, MODPATH, MT3D, SEAWAT, HSPF among others)
- Artificial Recharge Studies
- Ground Water Management – Evaluation and Planning
- Water Supply Issues
- Ground Water Resource Assessments
- Evaluation of Subsidence due to Ground Water Withdrawal

RMC Water and Environment

- Data Collection and Analysis

SOUTHWEST GEOPHYSICS SERVICES:

- Optional – Geophysical Surveys



Geophysics has recently completed the geophysical surveys of the Santa Ana River recharge basins for Valley District and have successfully completed numerous projects in other areas of Southern California (see Appendix A). An expanded description of relevant project experience for Southwest Geophysics can be also be found in Appendix A

PROJECT EXPERIENCE

- City of Banning, Riverside, 2011. Evaluated the maximum perennial yield for ground water storage units within the City of Banning water resource area.
- Antelope Valley, Los Angeles County, ongoing, Review of technical components of the physical solution for assignment for adjudication of basin and currently conducting refinement of USGS Antelope Valley Ground Water Model for allocation of sustainable yield by subbasin.
- Rancho California Water District, Temecula, 2008. Geohydrologic study that evaluated the maximum perennial yield of the Wolf Valley ground water basin.Lake Arrowhead Community Services District, San Bernardino County, 2005. Geohydrologic evaluation of the maximum perennial yield of the ground water basin in the Lake Arrowhead Area.
- Western Municipal Water District, Northern Temecula Valley, 2007. Presented the data, findings and conclusions of a geohydrologic study to evaluate the operational safe yield for a portion of the northern Temecula Valley ground water basin to recommend potential areas for artificial recharge.
- Lemieux & O'Neill, Santa Maria, 2003. Provided expert advice and opinion concerning the characteristics and hydrologic conditions of the Santa Maria Ground Water Basin and whether the basin was in a state of overdraft. The Court used the data to assign Sustainable Yield Value to the Basin.

PROJECT UNDERSTANDING

Based upon our review of the RFP we understand that the project will include the following tasks:

- Use Existing Data and Studies to determine depths of producing zones and water quality,
- Prepare an estimate of Usable Capacity for each sub-basin,
- Prepare an estimate of Safe Yield for each sub-basin,
- Review Subbasin Boundaries defined by previous studies,
- Review water levels to confirm subbasin boundaries or propose an alternative,
- Incorporate the results of the WHWC Study conducted by GEOSCIENCE (currently in progress),
- Provide a 100% Draft and Final Report, and
- Schedule team meetings as appropriate over the course of the study.



The sections below provide: project approach, proposed scope of work, organizational chart, and project schedule. The GEOSCIENCE team's experience on similar projects and proximity to work area, along with qualifications and resumes for project personnel and subconsultant are included in Appendix A. GEOSCIENCE and RMC are located in La Verne and Irvine, California respectively, in close proximity to study area. The estimated cost to complete this work is provided in Table 1 attached to this letter under separate cover and is good for a period of 90 days from the date of this proposal.

PROJECT APPROACH

Re-definition of Subbasins Boundaries

The Yucaipa Basin Area extends from the Crafton Hills and San Timoteo Badlands on the west to the Yucaipa Hills, San Gorgonio Mountains on the east, from the San Bernardino Mountains (Yucaipa Ridge) to the Banning Fault on the South. The Yucaipa Basin Area includes numerous faults, or groundwater barriers, that divide the Basin area into compartments. The Yucaipa Area lies in an area that is tectonically active and complex bounded on the north by the Active San Andreas Fault Zone. The Crafton Hills Fault Zone and minor faults, both northwest and northeast trending, cross the Yucaipa area and have resulted in the formation of discrete ground water subbasins. However, the exact boundaries of each subbasin have not been previously well defined. Review of subbasin boundaries is currently being completed by the USGS in their existing contract with Valley District. However, their data review process precludes the release of preliminary data for the current study. Therefore, the task to refine the subbasins boundaries will be included in the proposed scope. GEOSCIENCE will work closely with the USGS where possible in the completion of the study and both data sets can be compared when available.

Safe Yield Calculation (Sustainable Yield) and Usable Storage Capacity

For this study, we will employ the term "sustainable yield," which for a groundwater basin is that yield considered to be the amount of pumping that, for given land use conditions, producing return flow which, in combination with other recharge, results in no long-term depletion of ground water storage, that is, no chronically declining groundwater storage and associated groundwater levels. Sustainable Yield derives from both "native" and "supplemental" conditions. Native conditions consist of natural recharge and returns flows derived from natural recharge. Supplemental conditions include recharge of imported water and return flows that are the result of the use of imported water both directly and indirectly, as well as capture of stormwater that would otherwise be lost out of the basin. For this study 'Sustainable Yield will be calculated by the water balance method using calibrated watershed model to develop critical inflow and outflow terms.

John Mann and David Keith Todd recommended a working perennial yield of 9,270 acre-feet per year for 1987 for the Yucaipa ground Water basin. The approach used by Mann and Todd are based on empirical relations. This approach is neither a physical based nor distributed parameter method. In other words, areal distribution of watershed parameters such as density of vegetation, slope, pervious/impervious areas, and soil parameters were not taken into account by the method. Modern watershed modeling tools such as the Hydrologic Simulation



Program – Fortran (HSPF) can comprehensively simulate all the components of the hydrologic system on a daily basis. Through model simulations, recharge for each subbasin can be quantified. In addition the changes in ground water recharge due to urbanization can also be quantified.

We propose to use the HSPF model to quantify recharge terms both inflow and outflow parameters for the subbasins. In addition, potential stormwater capture estimates for major and minor tributary creeks will be made in developing the ground water recharge parameters for the water balance. Stormwater capture projects can increase local water supply and increase the sustainable yield. The inflow and outflow terms and proposed method of calculation are tabulated in the table below:

Inflow Terms	Method of Evaluation	Outflow Terms	Method of Evaluation
Deep Percolation of Rainfall	HSPF Model	Ground Water Extraction	Direct Measurement
Percolation of Stream Flow and Storm Run-Off	HSPF Model	Subsurface Outflow	Historic and Current Ground Water Levels
Deep Percolation of Applied Water	HSPF Model		
Subsurface Mountain Front recharge	HSPF Model		
Artificial Recharge of SWP Water	Reported Values		

Determination of Usable Storage Capacity

The usable capacity of each subbasin is a function of the volume of the saturated thickness of aquifer materials with high transmissivity. The amount of usable ground water basin capacity will be determined by an analysis of current and historic ground water production in conjunction with an analysis of ground water level changes in the discrete ground water storage units.

PROJECT SCOPE

Task 1.0 – Data Collection and Review

GEOSCIENCE will collect, compile and review available data, maps, engineering drawings, reports and documents related to well siting, well production, water quality and geohydrologic conditions within the project area. A data request list will be sent to Valley District who will forward the data request to the partnering entities. The types of data to be collected will generally be geohydrologic and operational in nature and will include (but not necessarily limited to):

- Precipitation data
- Well location survey data
- Lithologic logs
- Pumping test data
- Historical ground water elevation data
- Historical well production data

GEOSCIENCE will also research and collect public sources of information such as the USGS online monitoring wells database, California Department of Public Health, and Department of Water Resources. As GEOSCIENCE has previously conducted work in the Yucaipa area and will



use our extensive library of in-house reference reports and data for the project. Once all the required data have been compiled, a detailed review of the documents and data will be conducted. These data will provide an in-depth understanding of the study area and its operational aspects that will be utilized in subsequent tasks.

Task 2.0 – Development of a Layered Basemap

GEOSCIENCE will obtain selected GIS data (shapefile format) from the partnering entities for use in preparing maps and presenting data. Using these data and our in-house GIS library, a detailed geohydrologic base map will be constructed for the study area to provide a base for graphically presenting data. Data to be presented will include geologic information, well locations (both private and public), basin boundaries, structural features (faults), ground water elevation contours, and surface drainages.

Task 3.0 – Re-Evaluation of Subbasin Boundaries

The locations of historical mapped traces of faults and ground water barriers will be re-evaluated through the use of recently published data and review of historical ground water levels. Geophysical survey work to confirm ground water barriers assessed from water level data is recommended as an optional task and is described in Appendix A. Controlled source audio magnetotellurics/magnetotellurics (CSAMT/MT) survey method is recommended and will augment and allow confirmation of the gravity survey work recently completed by the USGS. The assessment of the boundaries of the subbasin will be discussed with client before subsequent tasks are initiated.

Task 4.0 – Geologic and Hydrologic Characterization

Using the data collected and reviewed in Tasks 1.0 and 2.0, the geology and geohydrology of the study area will be characterized. Pumping test data and water level history will be used to evaluate the hydraulic conductivity, transmissivity, and storativity of producing zones within the area. The type, productivity, areal extent and available storage and operational capacity for the aquifers within each sub-basin will be evaluated along with factors affecting the direction and rate of ground water movement.

Task 5.0 – Determination of Usable Storage Capacity

Based upon previous studies, the continuation of development of the Yucaipa Basin Area is dependent upon imported water supplies. However, imported water may not always be reliable or available in the quantities needed each year. Reserve or banked water supplies in storage in the Yucaipa Basin area is necessary to insure the continued development of Yucaipa Basin area in the event imported water is not available for some period of time. Therefore the usable storage capacity within each subbasin will be evaluated for long-term recharge of imported or recycled water. This task will review driller's log data to re-evaluate the specific storage of the hydrostratigraphic units within each subbasin and recalculate the usable capacity of each subbasin based upon the redefined subbasin geometry, specific yield, and historical ground water levels.

Task 6.0 - Estimation of Sustainable Yield (Native Yield + Supplemental Yield)



We propose to re-evaluate “native” conditions as calculated by previous workers and will assess the contribution to the ground water system from “supplemental” conditions existing in the basins. In order to estimate the amount of ground water development possible, the water balance method using equation of hydrologic equilibrium will be prepared:

$$\text{Inflow} = \text{Outflow} \pm \text{Change in Storage}$$

Subtask 6.1 – Hydrologic Water Balance

The Sustainable Yield for each subbasin will be calculated using the selected hydrologic base period established from a cumulative departure from mean precipitation chart prepared from representative precipitation station(s) within or near the study area. The sustainable yield calculated using the water balance method and HSPF watershed model will be independently checked using three additional methodologies described in Section 6.2 and Section 6.3 below.

Subtask 6.2 – Historical Pumping and Ground Water Level Analysis

An independent check of the Sustainable Yield will be carried out by subbasin using the following methods: 1) Zero Net Draft method involves plotting average ground water elevation for a selected period of time and comparing it to ground water production for the same period. If the mean ground water elevation at the beginning and end of the period is the same, the production during the period is taken as a measure of the maximum perennial yield. (Note: The Estimation of Maximum Perennial Yield using the Net-Zero Draft method for the Western Heights Subbasin will be incorporated into this study). 2) The Hill Method is a simplification of the Equation of Hydrologic Equilibrium. By plotting annual change in ground water elevations against annual draft, Hill measured the maximum perennial yield as the draft corresponding to a zero change in elevation.

Subtask 6.3 – Historical Changes in Ground Water Storage

An additional independent check of the calculation of Sustainable Yield will be carried out by evaluating the historic change in ground water levels in relation to ground water extraction. Historical change in ground water storage will be calculated using change in ground water level, specific yield, and area. The results will be compared to the results of the water balance (Task 6.1).

Task 7.0 – Preparation of Report

A summary of work related to the data collection, analysis, and usable storage capacity and sustainable yield estimates will be fully documented in a comprehensive report. Eight hardcopies of the report will be produced, together with an electronic version of the report in PDF format. Once comments on the draft report are received from SBVMWD and incorporated, five final bound hardcopies of the report will, together with an electronic version of the report in PDF format, be produced.

Task 8.0 – Project Meetings

GEOSCIENCE will attend meetings, as necessary to coordinate project activities, and report on project results. For cost estimating purposes, three meetings are assumed as follows: 1) Project startup meeting, 2) Two progress meeting, and 3) Presentation of the Draft Report Findings, and 4) Final meeting for presentation of project results.



ORGANIZATIONAL CHART

A highly qualified and enthusiastic team, experienced in geophysical surveys and fault hazard analysis has been assembled to meet the goals of Valley District. With over 35 years of experience in ground water management, Dr Dennis Williams will act as the Principal-in-Charge for this project. Mr. Brian Villalobos, a licensed Professional Geologist, Certified Hydrogeologist, and Certified Engineering Geologist with over 20 years of experience, will function as the project manager. Mr. Scott Goldman will provide detailed knowledge of existing local databases.

An organizational chart for the GEOSCIENCE Project Team is shown below. Detailed resumes as well as licenses and certifications are included in Appendix A.





PROJECT SCHEDULE

A project schedule detailing each task is shown below. The GEOSCIENCE Team’s capacity to perform the work on this contract is excellent at this time, and we can fully commit all staff necessary to complete this work.

Project Schedule

Task	Description	Project Work Period																												
		Jul-12				Aug-12				Sep-12				Oct-12				Nov-12				Dec-12				Jan-12				
		Week	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1.0	Data Collection and Review																													
2.0	Development of a Layered Basemap																													
3.0	Re-Evaluation of Subbasin Boundaries																													
3.1	Geophysical Evaluation (Optional Task - See Appendix A)																													
4.0	Geologic and Hydrologic Characterization																													
5.0	Determination of Usable Storage Capacity																													
6.0	Estimation of Sustainable Yield																													
6.1	Hydrologic Water Balance (using HSPF Model)																													
6.2	Historical Pumping and Ground Water Level Analysis																													
6.3	Historical Changes in Ground Water Storage																													
7.0	Preparation of Draft and Final Report																													
8.0	Project Meetings																													

TABLE 1

San Bernardino Valley Municipal Water District
 Proposal for Determination of the Usable Capacity and Safe Yield for Each Sub-Basin within the Yucaipa Basin Area, Yucaipa, California

Task	GEOSCIENCE Support Services, Inc.										BMC Water and Environment				Southwest Geographics - Optional				TOTAL PROJECT COSTS without Option		
	Principal Geohydrologist				Staff Geohydrologist				Reimbursable Expenses		Total LABOR		Total RMC Cost		Principal Geophysicist		Staff Geophysicist			Total Southwest Geographics Costs	
	Senior Modeler	Senior Geohydrologist	Project Geohydrologist	Staff Geohydrologist	Graphics Specialist	Office Admin.	Total Labor	Reimbursable Expenses	Total GEOSCIENCE Costs	Principal	Project Engineer	Clerical	Total RMC Cost	Principal Geophysicist	Staff Geophysicist	Graphics	Clerical	Total Labor Mobilization			
\$135	\$135	\$135	\$135	\$135	\$65	\$65	\$65	\$65	\$225	\$155	\$50	\$10,040	\$150	\$120	\$50	\$55	\$55				
1.0	2	4	16	24	24	4	\$ 11,520		\$ 11,520	\$ 11,520	32	16	4	\$ 10,040						\$ 21,560	
2.0			4	8	8		\$ 4,800	\$ 4,800											\$ -	\$ 4,800	
3.0	2	4	24	8	12	4	\$ 8,620	\$ 8,620						140	100	0	0	\$ 30,000	\$ 4,000	\$ 37,000	
3.1							\$ -	\$ -												\$ -	
4.0	2	4	8	32	4		\$ 9,800	\$ 9,800												\$ 9,800	
5.0	2	4	6	16	4		\$ 6,560	\$ 6,560												\$ 6,560	
6.0																				\$ -	
6.1	2	4	4	40	2		\$ 11,520	\$ 11,520												\$ 11,520	
6.2		2	4	8	2		\$ 3,620	\$ 3,620												\$ 3,620	
6.3	2	12	8	40	24		\$ 18,180	\$ 18,180												\$ 18,180	
7.0	4	8	24	24	16		\$ 18,240	\$ 18,240			4	12	4							\$ 18,240	
8.0	20	12	20	20	16	10	\$ 19,920	\$ 19,920			18			\$ 4,620					\$ -	\$ 24,540	
TOTAL HOURS AND COST														140	100	0	0	\$ 30,000	\$ 4,000	\$ 37,000	\$ 128,900

NOTE:
 *See Propositior for description of tasks
 †Reimbursable expenses include purchase of documents, report reproduction, mailing charges, travel, per diem, and Southwest mobilization.

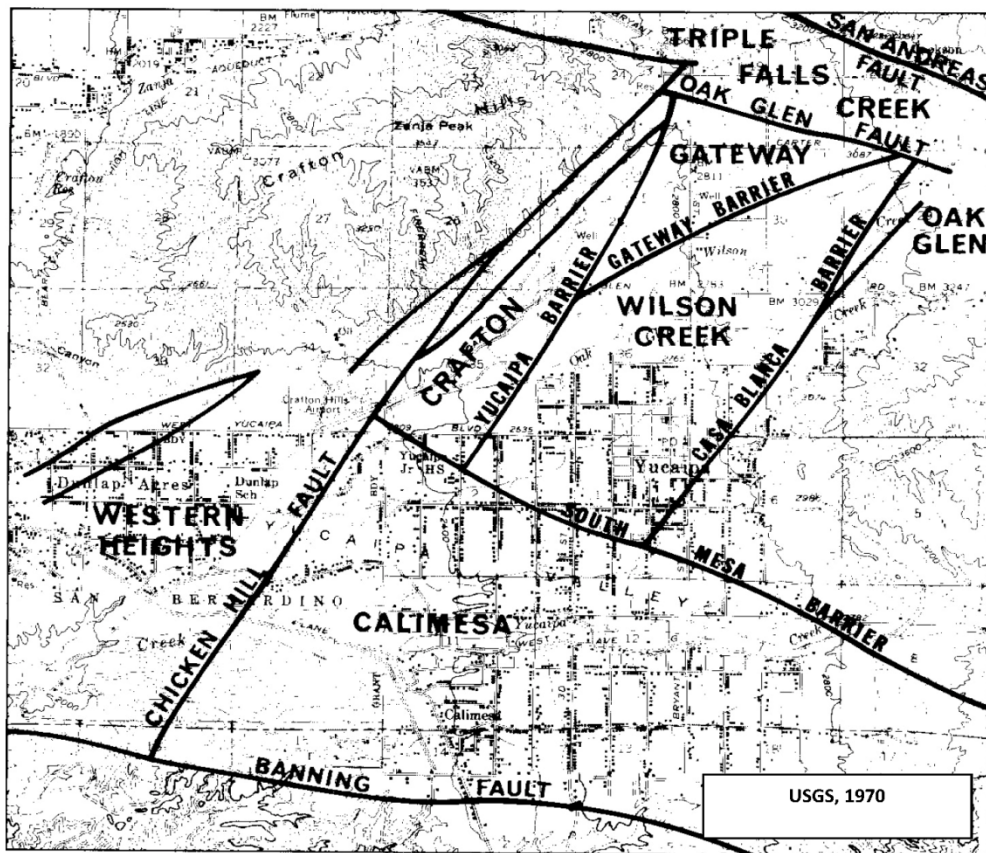
Subconsultant Markup of 5%: \$ 703
 TOTAL COST: \$ 129,603
 Total Cost with OPTIONAL Task: \$ 146,343



Optional Task 3.1 – Geophysical Surveys for Evaluation and Assessment and Confirmation of Subbasin Boundaries

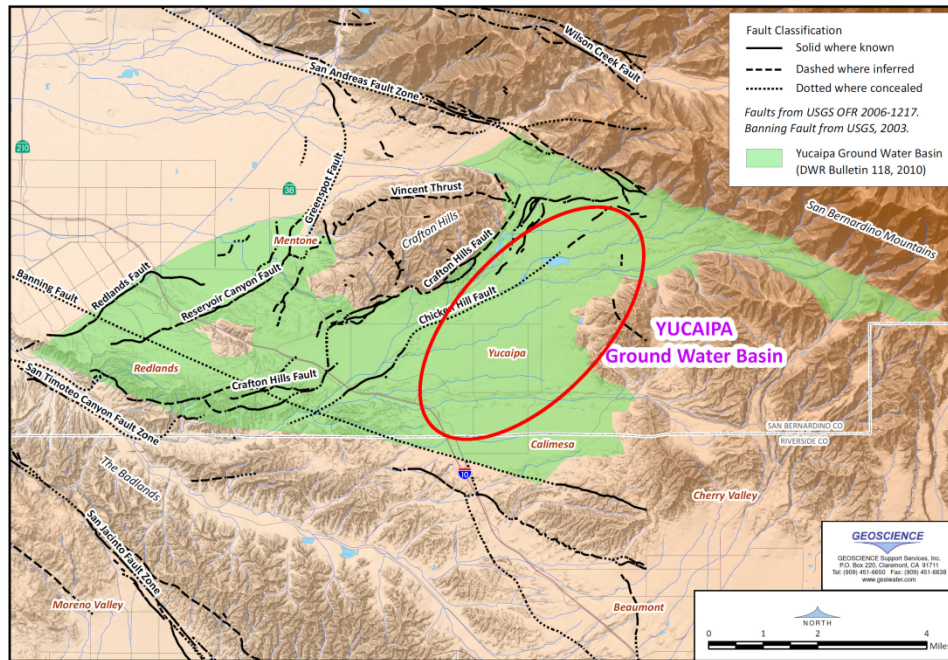
Re-Evaluation of Yucaipa Ground Water Basin Subbasin Boundaries

The inset below shows the locations of previously mapped faults and ground water barriers that have previously been assigned as ground water basin boundaries. The recent geophysical work conducted by the USGS consist gravity survey points throughout the Yucaipa Basin (Wes Danskin, personal communication). The gravity method allows for assessment of depth to crystalline bedrock and thickness of the overlying sediments.





The inset below shows the recent mapping published by the USGS for the Yucaipa Area. The red circled area in the inset below represents a portion of the basin where re-evaluation of previously mapped ground water barriers is required. The delineation of the subbasin in this area will be evaluated based on historical water level differences. However, we recommend as an optional task, additional geophysical studies to more accurately place the location subbasin boundaries.



We propose to conduct geophysical surveys at selected locations (approximately 10,000 ft of survey lines – Five (5) lines at approximately 2,000 ft in length) to verify the locations ground water barriers as initially determined by an investigation of historic and current ground water levels. We propose using the controlled source audio magnetotellurics/magnetotellurics (CSAMT/MT) survey method which functions on different geophysical principles than gravity surveys, and will therefore augment and allow confirmation of the work completed by the USGS. The CSAMT/MT will investigate the subsurface conditions to a depth of up to 2,500 ft. The geophysical survey will be conducted by Southwest Geophysics. A summary of their qualifications is presented in this Appendix. The proposed cost for the geophysical survey work is provided in the Estimate of Cost as an optional item.

SOUTHWEST GEOPHYSICS, INC.



Summary of Qualifications



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SOUTHWEST GEOPHYSICS, INC. SUMMARY OF QUALIFICATIONS

MISSION STATEMENT

Southwest Geophysics, Inc. is committed to providing a service that is consistent, professional, and of the highest quality at a competitive price. We strive to earn the complete and total satisfaction of our clients, while providing state-of-the-art geophysical services.

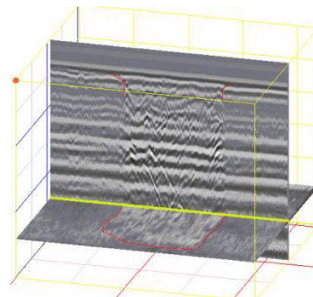
INTRODUCTION

Southwest Geophysics, Inc. is a small business enterprise (SBE), established to provide a broad range of geophysical services to clients in the governmental (federal, state, and local), commercial and private sectors. Southwest Geophysics, Inc. has provided innovative and cost effective solutions to their clients, often reducing site exploration costs and minimizing unexpected site conditions. The use of geophysics can provide useful information regarding site structural, geotechnical, geologic, and hydrologic conditions as well as subsurface infrastructure. Areas of expertise include, but are not limited to, the following:

- | | | | |
|--|---|--|---|
| <ul style="list-style-type: none"> ↪ Rippability and Depth to Bedrock Studies ↪ Fault and Fracture Mapping ↪ Vibration Monitoring ↪ Groundwater Surveys ↪ Site Characterization ↪ Archeology Surveys ↪ Utility Mapping ↪ UXO Detection |  | <ul style="list-style-type: none"> ↪ Concrete and Pavement Condition Surveys ↪ Void or Sinkhole Detection ↪ UST Detection Surveys ↪ Map Leachate Plumes ↪ Locate Buried Drums ↪ Landfill Delineation ↪ Corrosion Studies ↪ Rebar Detection |  |
|--|---|--|---|

Southwest geophysics pledges to complete every project assignment in a high-quality manner with special attention given to quality assurance, timeliness of delivery, and cost efficiency. Specific strengths of Southwest Geophysics, Inc. which we believe make us exceptionally qualified to undertake any project, include:

- ☑ Southwest Geophysics, Inc. has completed a vast number of geophysical projects for a variety of different clients from environmental and engineering consultants to constructors, to small municipalities to the federal government.
- ☑ The firm is owned and operated by California Registered Geophysicists who have over 25 years of combined experience providing geophysical consulting and surveying services. In addition, the staff have backgrounds in the geotechnical, environmental, and construction fields which often provides them with a first hand understanding of the client's needs and potential project challenges. Staff are OSHA and Loss Prevention System (LPS) certified, as well as site safety trained for Oil Refinery activities and UXO surveying.
- ☑ Southwest Geophysics, Inc. uses latest editions of application and processing software, as well as state-of-the-art geophysical and survey instrumentation including the use of a Trimble Pro XRS GPS unit during data acquisition.



- ☑ All projects are conducted in compliance with our in-house Standard Operating Procedures (SOP) manual which provides guidelines relative to instrument calibration, data acquisition, data processing, documentation and reporting. Our SOP insures that all projects receive the same level of quality regardless of the size or budget.

PROFESSIONAL QUALIFICATIONS

Southwest Geophysics’ strengths lie in the quality, diversity and technical experience of its personnel, and in the personal involvement of the principals. Southwest Geophysics has earned an exceptional reputation in the industry by providing high quality technical expertise while meeting difficult work schedules and budgetary goals. This is made possible through a methodical project approach.

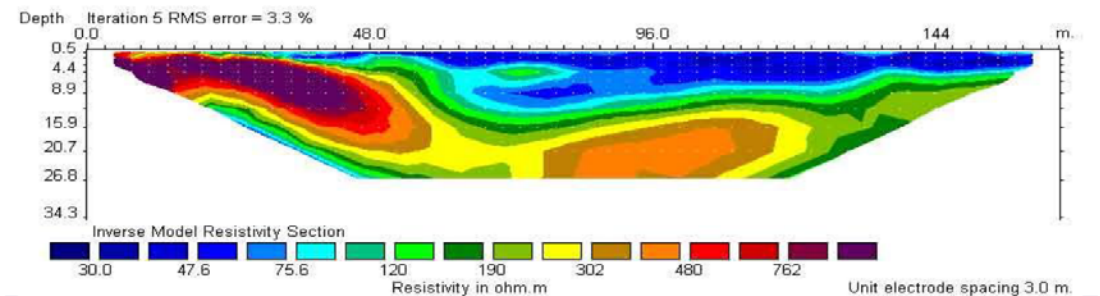
Southwest Geophysics personnel have successfully completed numerous projects for government and private industry clients including City of San Diego, Port of San Diego, Port of Long Beach, County of Los Angeles, Caltrans, State of California Department of General Services, U.S. Navy Southwest Division, Clark County School District, City of Las Vegas, Nevada Department of Transportation, Arizona Department of Transportation, U.S. Army Corps of Engineers, U.S. EPA, Department of Defense, and many other governmental agencies as well as private clients. Clients have commended Southwest Geophysics for its ability to perform within tight schedules while maintaining technical integrity. Adherence to short time frames illustrates the firm’s understanding and dedication to providing the needed services in an expedient manner.



All of our personnel are highly qualified and experienced, and possess working knowledge of the required documents and standards. They are degreed and licensed in their specific disciplines and are fully committed to providing the necessary resources for successful completion of the project, and bring a wealth of experience and diversity to any project. Licenses and certifications include California Registered Geophysicist (RGp), California Certified Engineering Geologist (CEG), California Professional Geologist (PG), Arizona Registered Geologist (RG), and ICBO Certified Special Inspector for Reinforced Concrete. Our staff are active in accrediting professional organizations and participate in continuing education courses and seminars.

STANDARD SERVICES

Southwest Geophysics is fully equipped and prepared to perform seismic refraction and reflection surveys, downhole and crosshole shear wave studies, REMI (refraction microtremor) surveys, electrical resistivity profiles and soundings (including STING), electromagnetic (EM) studies, ground penetrating radar (GPR) profiling, magnetic surveys, vibration monitoring, and gravity surveys. These geophysical methods are often useful in evaluating rock rippability, stratigraphy, soil corrosivity, the presence of buried underground structures such as underground



storage tanks and infrastructure, site response, faults and fractures, abandoned wells, landfills, concrete condition, rebar location, UXO (unexploded ordnance), voids, grave sites, contamination plumes, and groundwater. The following table provides a general summary of geophysical methods and typical applications.

GEOPHYSICAL EXPLORATION METHODS AND APPLICATIONS

Applications	Ground Penetrating Radar	Seismics	Magnetics	Terrain Conductivity	Electrical Resistivity
GEOTECHNICAL STUDIES					
Characterize subsurface geology	♦	♦	♦	♦	♦
Evaluate depth to bedrock	♦	♦		♦	♦
Evaluate depth to groundwater	♦	♦		♦	♦
Evaluate shear wave velocity		♦			
Locate faults		♦		♦	♦
Evaluate soil corrosivity				♦	♦
Locate rebar in concrete	♦				
Map shallow stratigraphic units	♦	♦		♦	♦
Evaluate rippability		♦			
Map underground utilities	♦			♦	
Locate voids	♦	♦	♦		
Monitor ground vibrations (during blasting, pile driving, etc.)		♦			
ENVIRONMENTAL STUDIES					
Locate buried storage tanks	♦		♦	♦	
Locate underground pipes	♦		♦	♦	
Map landfill boundaries	♦	♦	♦	♦	♦
Locate previously excavated areas	♦	♦		♦	
Locate buried drums	♦		♦	♦	
Locate buried ferromagnetic objects	♦		♦	♦	
Locate buried non-ferrous objects	♦			♦	
Delineate drilling-mud pits	♦			♦	♦
Map leachate plumes	♦			♦	♦



COST CONTROL, QUALITY OF WORK, AND COMPLIANCE WITH PERFORMANCE SCHEDULES

Cost Control and Project Tracking

Southwest Geophysics' accounting department is fully networked on an independent system, allowing the efficient sharing of financial data between the members of the accounting staff. Financial information that is of importance to the technical staff is printed in the form of various reports, including the Project Tracking Report, Work-in-Progress Report, and monthly invoices. The Tracking and Work-in-Progress reports are used to track project expenses and keep project managers aware of each project's budgetary status. Draft invoices are printed preparatory to the issuing of final invoices and are checked for quality and accuracy by the project manager. The confidentiality of other financial information is assured by restricting access to the accounting network and by keeping the accounting data and computers in a locked area accessible only to authorized personnel.

Quality of Work

Southwest Geophysics is dedicated to providing superior geophysical services. Quality is achieved through a consistently-applied methodology program. Mandated procedures for conducting field work, equipment maintenance and calibration, data acquisition and processing, and reporting are described in detail in the Standard Operating Procedure (SOP) manual, which is updated on a regular basis. One important goal of the quality assurance program is to produce geophysical data of known and acceptable quality on all work assignments. Southwest Geophysics' policy is to maintain professional standards in all aspects of project tasks for all clients.

Compliance with Performance Schedules

Southwest Geophysics staff are available throughout the duration of all project assignments, 24 hours per day, 7 days per week. Point-of-contact cell phone numbers are available to the client for each project. Client requests are addressed immediately and emergency response to those projects requiring it is provided throughout the duration of the project. If required, Southwest Geophysics' staff are prepared to work evenings and/or weekends at no additional cost to the client to meet the demand of any project.

INSURANCE COVERAGE

To provide safeguards and to meet the requirements of our clients, we carry the following types of insurance:

Insurance Type	Amount	Carrier
Professional Liability	\$ 1 Million/claim \$ 2 Million aggregate	Lloyd's of London
General Liability	\$ 2 Million/claim \$ 4 Million aggregate	Travelers Indemnity Company of America
Automobile	\$ 2 Million	Travelers Indemnity Company of America
Worker's Compensation	\$ 1 Million	Farmers Insurance
Excess Umbrella Liability	\$ 3 Million	Travelers Indemnity Company of America

PROJECT EXPERIENCE

Southwest Geophysics technical staff have 25 years of combined professional experience in engineering geology and geophysics that extends throughout the southwest. This experience has afforded Southwest Geophysics the opportunity to effectively complete a variety of project types on time and within budget. Specific project experience includes the following:

Archeological Study, Palm Springs Area, California

ASM Affiliates

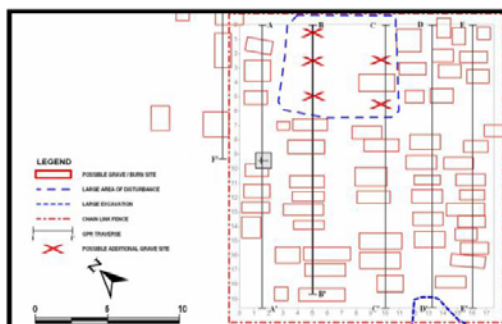
2034 Corte del Nogal, Carlsbad, California 92009

Southwest Geophysics was contracted to locate sacred burn and burial areas inside and near an existing cemetery as part of an extensive archeological study. The purpose of the geophysical services was to confirm existing marked grave sites and to delineate the limits of unmarked graves and potential sacred burn areas. The primary goal of the archeological study was to restore the grave sites and to reestablish the fenced limits of the cemetery to encompass new sites revealed during geophysical survey.

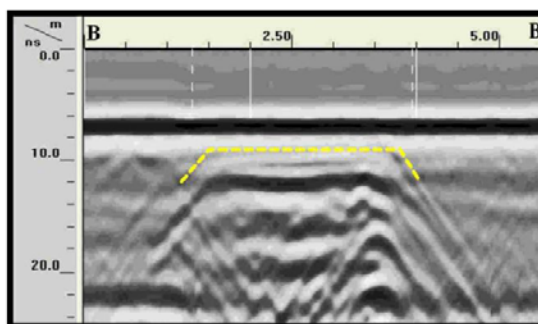


Our services included the preparation of a detailed survey grid to facilitate the collection of electromagnetic and ground penetrating radar (GPR) data. Traverses using an EM61 time domain instrument were conducted at 1 meter spacings across the study area in order to detect the presence of buried metal objects (i.e., tools, utensils, coins, etc.) that may have been associated with a sacred burial or burning. In addition, GPR traverses were conducted at ½ meter spacings to locate areas of disturbed

ground, and/or buried objects including bodies. The data were processed in the field and areas of interest were reevaluated with GPR by conducting numerous random profiles across the anomaly to define the limits and nature of the anomaly. The results of the study reestablished the limits of marked graves sites as well as uncovered several additional unmarked sites.



Site Map

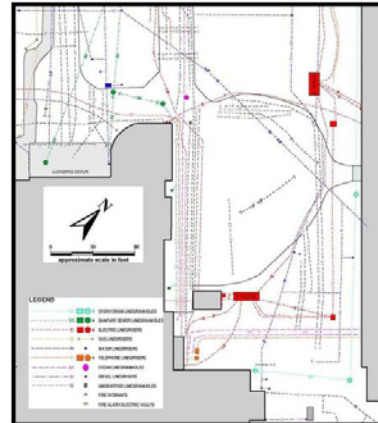


GPR Profile

Renovation of Naval Postgraduate School, Monterey, California

Soltek Pacific
 2424 Congress Street, San Diego, California 92110

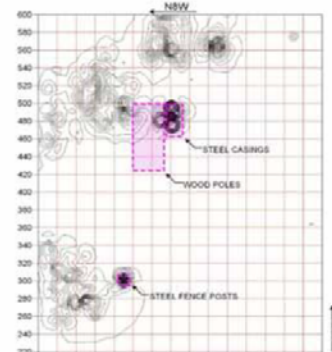
Southwest Geophysics was retained to provide geophysical survey services as part of the renovation project. The purpose of the geophysical survey was to delineate the location, depth, and type of underground utilities at the site so that an as-built utility map could be prepared prior to the initiation of ground breaking activities. The school was originally constructed in the late 1800’s and several of the underground utilities were never documented. Historical records indicated that some underground lines were made of wood. Detailed traverses using several geophysical instruments including ground penetrating radar, electromagnetic and magnetic devices, as well as line tracers, were conducted across the site. The results of the survey were marked on the ground surface with paint and survey feathers, and plotted on a site plan. Of particular value on the project was the granular nature of the soil, which allowed for great GPR penetration and imaging. Challenges on the project included the density of the underground utilities in some areas. Portions of the site were underlain by electric, gas, water, sewer, drain, telephone, and steam lines all within very close proximity to each other.



Landfill Study, Lompoc, California

Ninyo & Moore Geotechnical and Environmental Sciences Consultants
 475 Goddard, Suite 200, Irvine, California 92618

Southwest Geophysics provided geophysical landfill mapping services relative to a planned residential development to be located along the central coast of California. Historical records for the site indicate that portions of the property were used for the disposal of garbage and miscellaneous debris, and then covered over with soil. In order to detect landfill debris in a 40-acre area, several rectangular grids were established and surveys using a cesium magnetometer and EM61 time domain instrument were conducted along lines spaced 10 feet apart. Following the field collection, the data were downloaded to a laptop computer in the field, and anomalies were marked on the ground surface. Of particular interest, aside from the beautiful coast line, was the abundance of rattlesnakes and dense brush, which reduced the overall speed in which the survey could be completed.



Seismic Retrofit, Loma Linda University Medical Center, Loma Linda, California

Turner Construction Company

11209 Campus Street, Loma Linda, California 92354

Southwest Geophysics was retained to provide geophysical survey services as part of a large earthquake retrofit project at the Loma Linda University Medical Center. The project includes constructing additional structural members and strengthening existing beams, walls and slabs. Southwest Geophysics' services included locating reinforcing steel inside walls, slabs, columns, and beams, as well as locating voids or empty cells inside masonry block walls. The purpose for delineating the position of the reinforcing steel was to facilitate the installation of concrete anchors, and wall penetrations. In addition, in order to increase the structural integrity of the masonry walls, empty cells inside the wall were to be filled with cement grout.



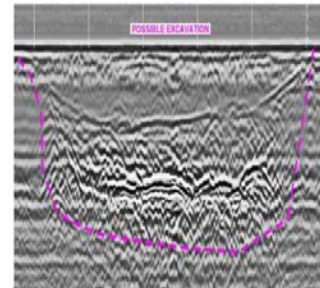
Locating the reinforcing steel was accomplished through the use of a high precision electromagnetic instrument, and a SIR 3000 ground penetrating radar (GPR) with a 900 MHz antenna. The use of both instruments allowed the accurate delineation of both transverse and longitudinal bars spaced only a few inches apart. The GPR was also used to locate or map the empty cells inside the masonry walls. Challenges included very limited access (i.e., ceiling crawl spaces, construction activities, etc.) and project coordination. Due to the tight construction schedule and sequence of tasks, Southwest Geophysics was frequently required to mobilize to the site within 12 hours of notification.

Underground Storage Tank Search, Los Angeles, California

Smith-Emery GeoServices

791 East Washington Boulevard, Los Angeles, California 90021

Southwest Geophysics was retained to evaluate the presence of an underground storage tank and associated piping at an old gas station site in Los Angeles. Previous geophysical surveys of the site did not reveal the presence of the UST or define the limits of a backfilled tank excavation. However, historical records indicated that a UST did exist on site at one time, but that the tank may have been removed. Our services included conducting an EM and GPR survey across the site as well as using line tracer methods to detect product lines. The results of our survey did reveal the location of two product lines, as well as the previous location of the UST. Both GPR and EM detected the presence of a less conductive material (gravel) in a backfilled excavation.

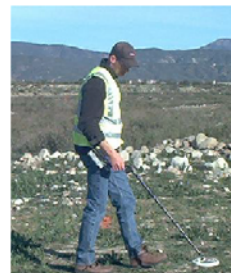


UXO Survey, Rialto, California

Ecology and Environment

11 Golden Shore Drive, Suite 340, Long Beach, California 90802

Southwest Geophysics’ staff provided geophysical survey services to locate unexploded ordnance (UXO) and exploded ordnance debris at the project site. The 13-acre site was previously used to store and detonate for disposal UXO during the mid 1900’s. In order to detect the UXO and ordnance debris, a formal rectangular grid was established at the site. However, prior to the construction of the survey grid, a reconnaissance level geophysical survey was performed using a handheld metal detector and magnetic gradiometer. Following the completion of the reconnaissance survey and the layout of the survey grid, traverses spaced 3 feet apart were conducted with an EM61 time domain instrument and a total field proton procession magnetometer. The collected data were downloaded to a laptop computer, processed, and analyzed in the field. Detected anomalies which could potentially represent UXO or associated debris were resurveyed in detail and then marked in the field. The results of the evaluation uncovered several pieces of debris and potential UXO. The UXO were determined to be potentially hazardous by others and detonated on site.



PROFESSIONAL STAFF

Southwest Geophysics technical staff have 30 years of combined professional experience in engineering geology and geophysics that extends throughout the southwest and Mexico. Their experience includes performing and managing geophysical studies as well as geotechnical, environmental, and construction projects. Because of their diverse backgrounds, they understand the challenges that geotechnical and environmental professionals face both technically and financially. As a result, Southwest Geophysics can appropriately design their geophysical studies to accommodate the needs of the client without sacrificing quality. The following table summarizes the experience of qualifications of our staff.

Professional Personnel				
Key Personnel	Title	Yrs. Exp.	Education	Registrations
Hans van de Vrugt	Principal Geophysicist	20	M.S., Geological Sciences B.S., Geological Sciences	P.G., C.E.G., R.Gp., R.G. (AZ), I.C.B.O., A.C.I., O.S.H.A., RSO
Patrick Lehrmann	Principal Geophysicist	12	B.S., Geology	P.G., R.Gp., O.S.H.A., RSO
Ed Verdugo	Staff Geophysicist	1	B.S., Geological Sciences	O.S.H.A.
Aaron Puente	Staff Geophysicist	3	B.S., Geology	O.S.H.A.
Iko Syahrial	Staff Geophysicist	2	M.S., Civil Engineering B.S., Civil Engineering	RSO, O.S.H.A.

WEB SITE

Additional information concerning Southwest Geophysics' experience, background, and capabilities can also be found on the World Wide Web at www.southwestgeophysics.com



Workshop Memorandum 12-146

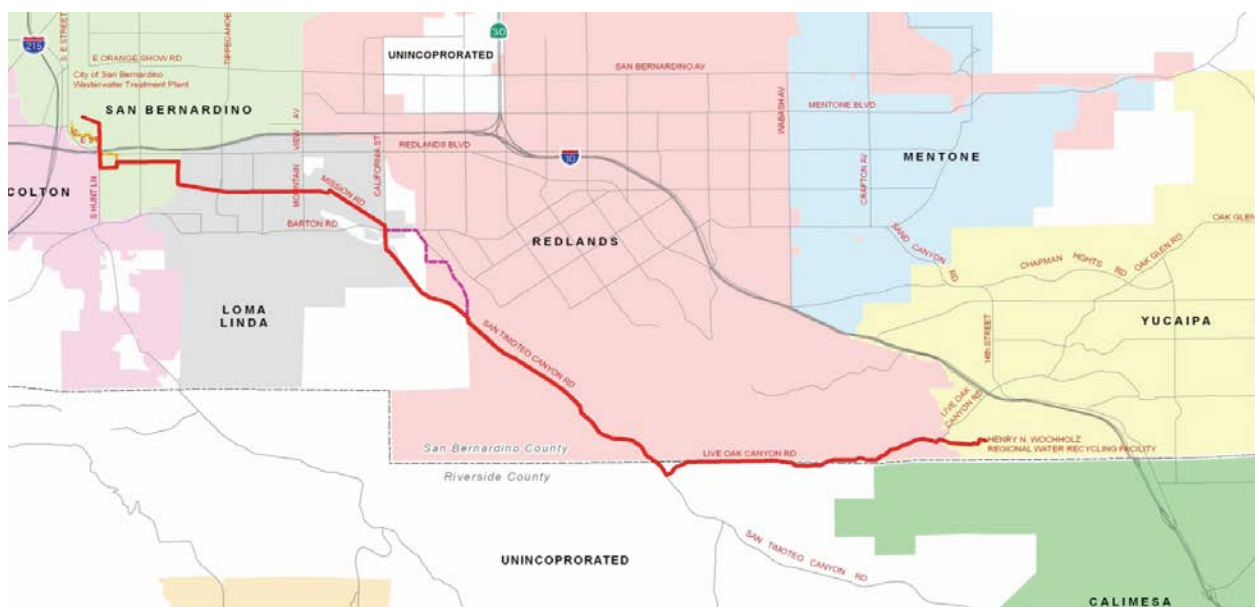
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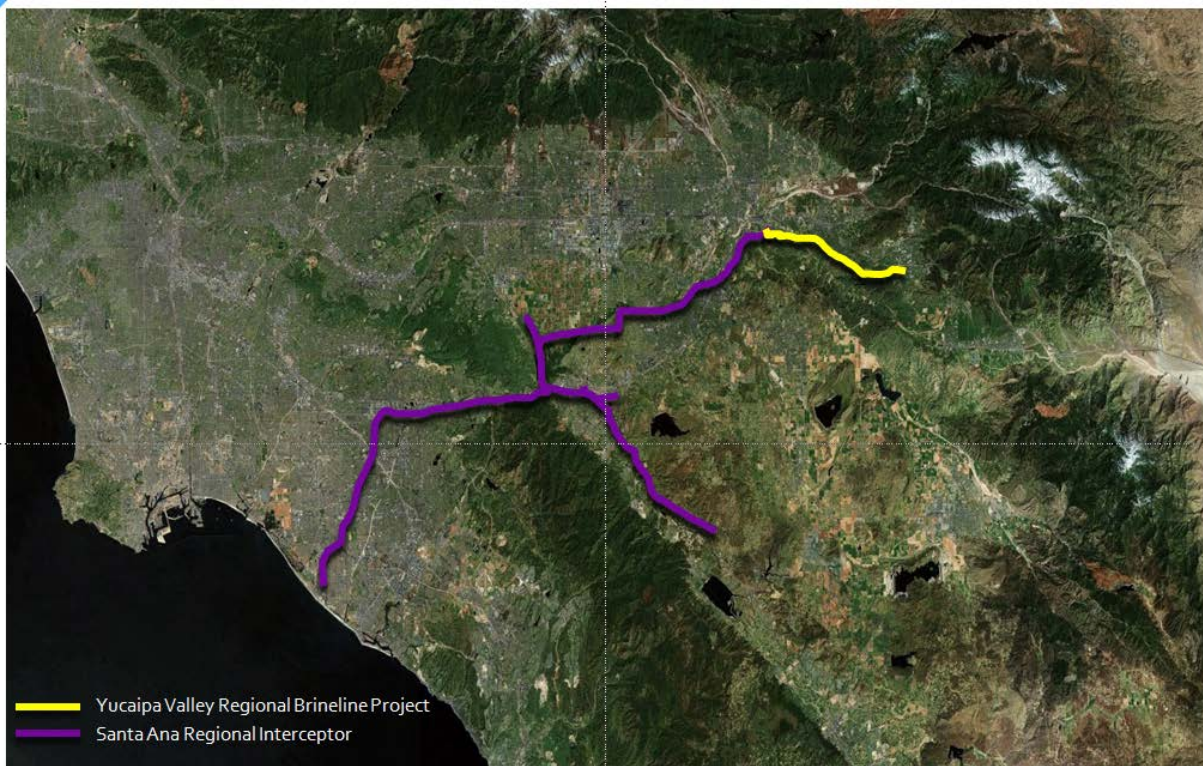
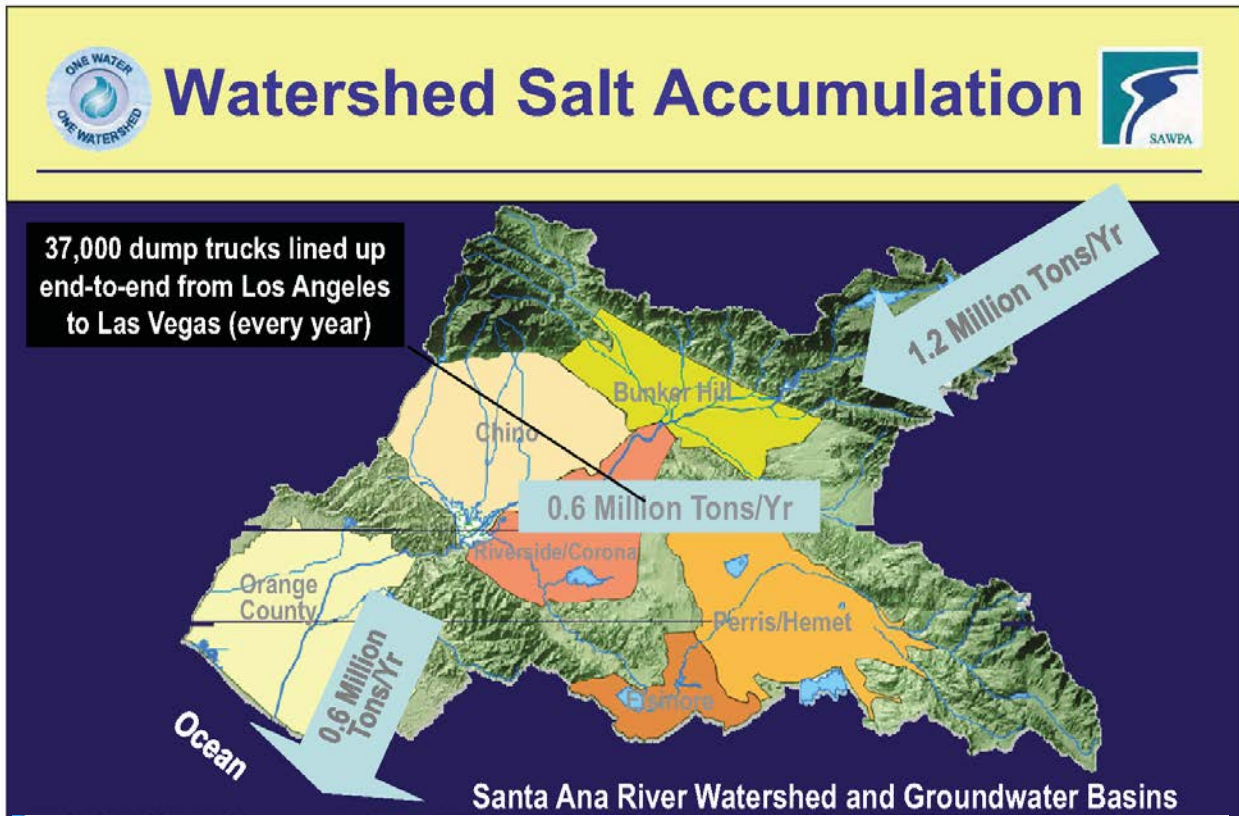
Subject: Status Report on the Construction of the Yucaipa Valley Regional Brinline

Yucaipa Valley Water District is in the process of constructing the Yucaipa Valley Regional Brinline in order to produce recycled water that complies with groundwater basin objectives as established by the Regional Water Quality Control Board. In order to comply with these limits, the District is required to add a reverse osmosis process to the wastewater treatment plant. This will enable the District to remove salts and minerals from depositing in to the groundwater basin. The proposed reverse osmosis system will produce salt water, referred to as “brine”, that must be sent to the Pacific Ocean so it does not impact any fresh water supplies downstream of the Yucaipa Valley.

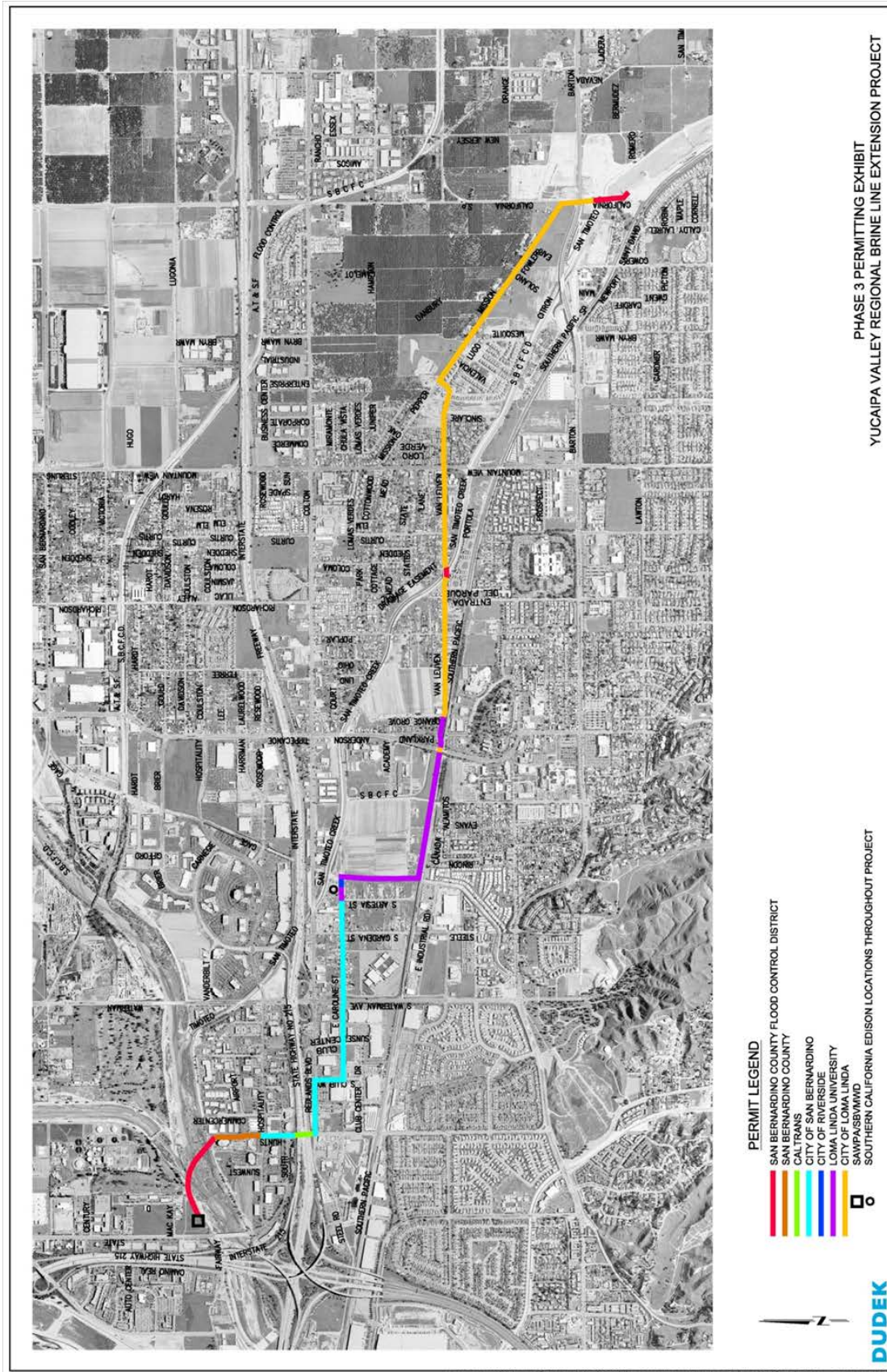
The Yucaipa Valley Regional Brinline Project consists of a 15-mile pipeline through which the District can safely and effectively dispose of the salt water produced. This pipeline will commence at the Wochholz Regional Water Recycling Facility and terminate at an existing brinline extending another 73 miles traversing San Bernardino, Riverside and Orange counties to Orange County Sanitation District Wastewater Treatment Plant No. 2 in Huntington Beach, where the salt water is treated with domestic sewage and then sent to the ocean or reclaimed by Orange County Water District.

During this agenda item, the District staff will be providing an update of the construction status of the Yucaipa Valley Regional Brinline Project.





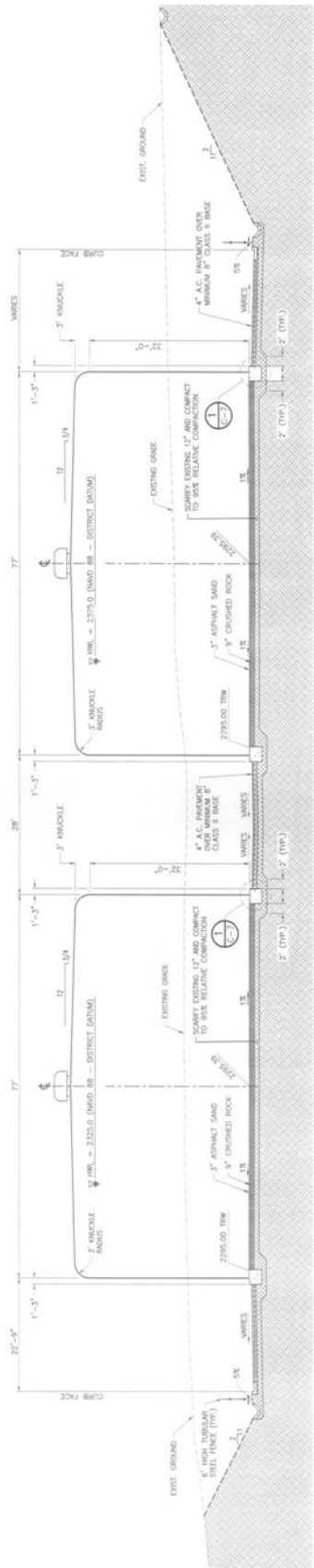
Yucaipa Valley Regional Water Supply Renewal Project



PHASE 3 PERMITTING EXHIBIT
YUCAIPA VALLEY REGIONAL BRINE LINE EXTENSION PROJECT

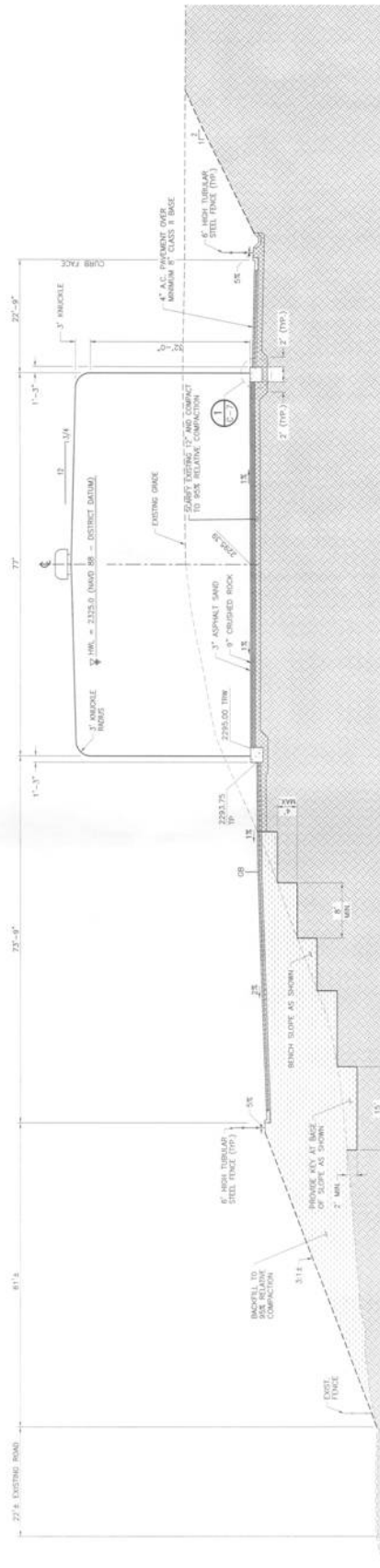






A
C-2

RESERVOIR SECTION
SCALE: 1"=10'



B
C-2

RESERVOIR SECTION
SCALE: 1"=10'





Date: August 28, 2012

Subject: Status Report on the Construction of the Crow Street Pipeline

The Yucaipa Valley Water District is in the process of constructing several recycled water facilities to prepare the community for the next drought cycle. By connecting the available recycled water supply at the Wochholz Regional Water Recycling Facility to the existing recycled water system, the District will be able to immediately reduce our dependency on imported water by more than 1,000 acre feet per year. Overall, the aggressive use of recycled water is an important element in our water resource planning.

One of the projects planned for completion over the next year is the Crow Street Pipeline. During this agenda item, the District staff will be providing an update of the status of this important project.



Date: August 28, 2012

Subject: Status Report on the Construction of the Recycled Water Booster Facility at the Reservoir R-12.1 Complex

The Yucaipa Valley Water District is in the process of constructing several recycled water facilities to prepare the community for the next drought cycle. By connecting the available recycled water supply at the Wochholz Regional Water Recycling Facility to the existing recycled water system, the District will be able to immediately reduce our dependency on imported water by more than 1,000 acre feet per year. Overall, the aggressive use of recycled water is an important element in our water resource planning.

The Recycled Water Booster Facility located at the Reservoir R-12.1 Complex is now under construction and will be completed by the end of the year. During this agenda item, the District staff will be providing an update of the status of this important project.



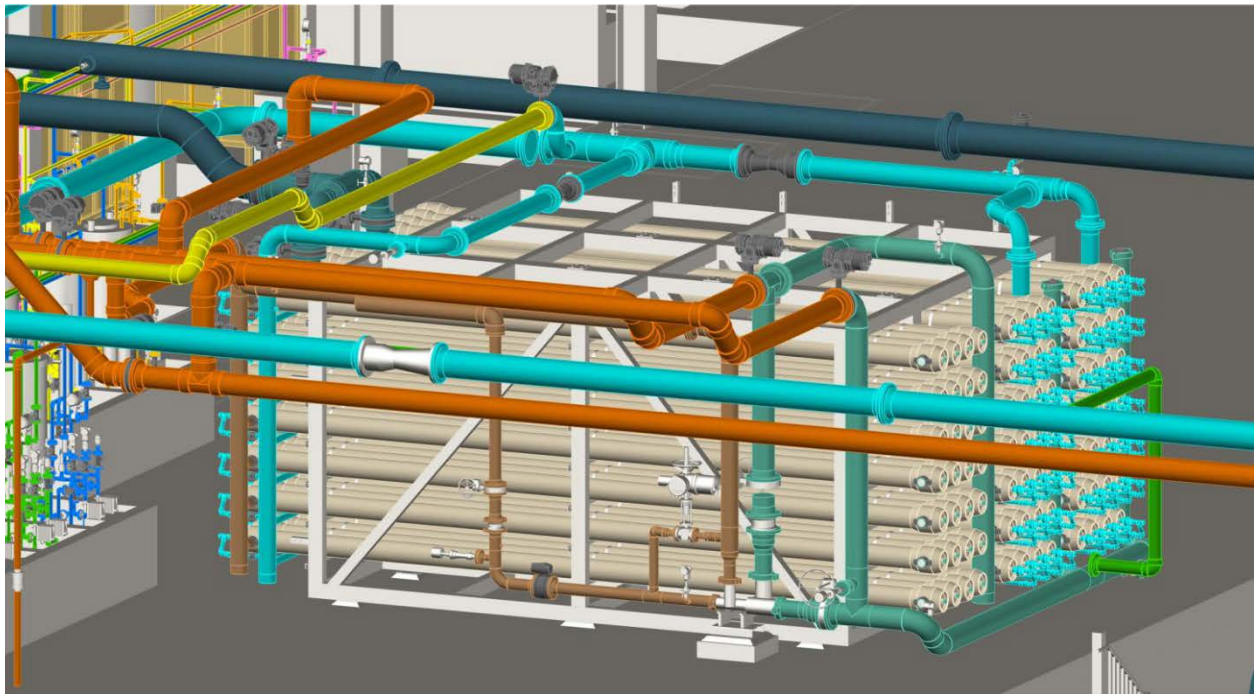


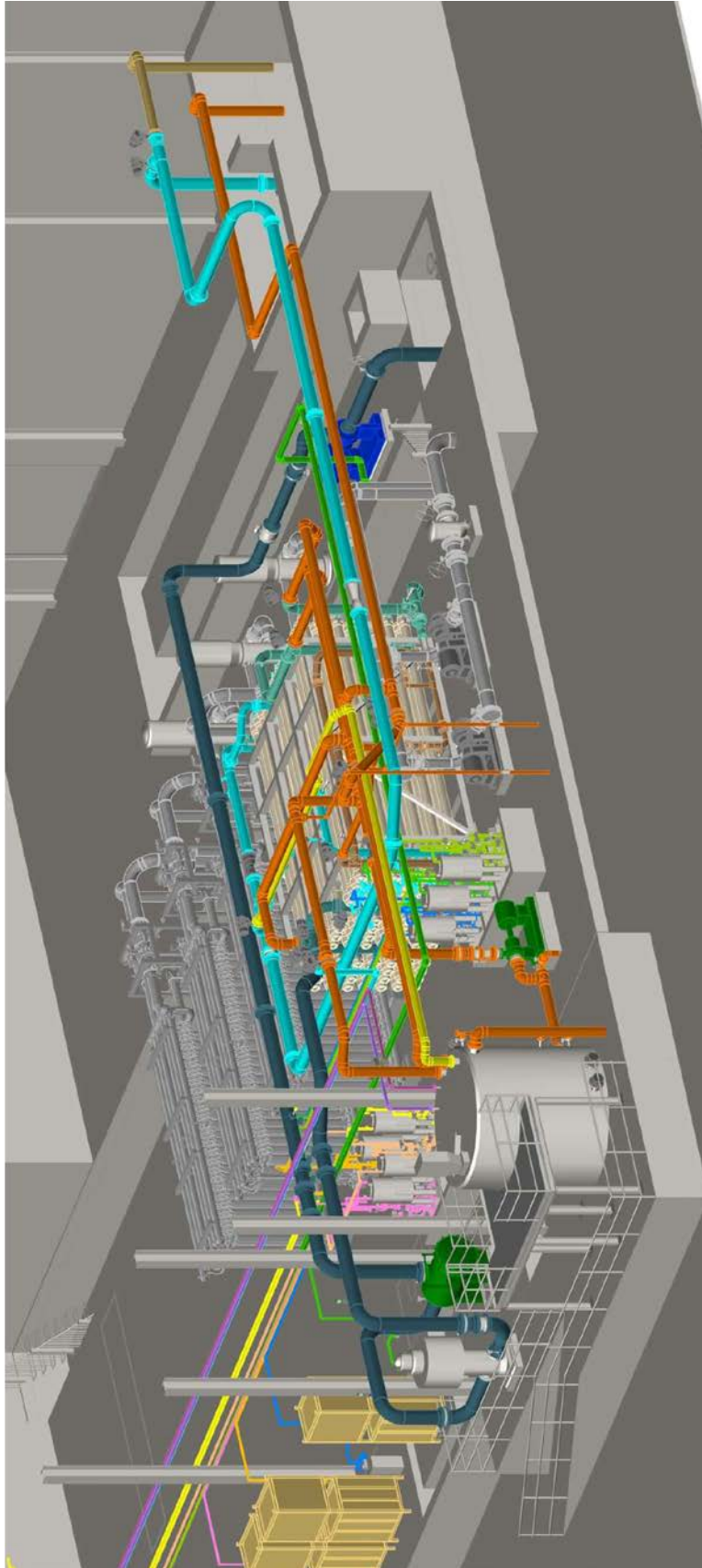
Date: August 28, 2012

Subject: Status Report on the Construction of the Wochholz Improved Salinity Effluent (WISE) Project

Yucaipa Valley Water District is in the process of constructing the Yucaipa Valley Regional Brineline in order to produce recycled water that complies with groundwater basin objectives as established by the Regional Water Quality Control Board. In order to comply with these limits, the District is required to add a reverse osmosis process to the wastewater treatment plant. This will enable the District to remove salts and minerals from depositing in to the groundwater basin. The proposed reverse osmosis system will produce salt water, referred to as “brine”, that must be sent to the Pacific Ocean so it does not impact any fresh water supplies downstream of the Yucaipa Valley.

The first phase of the reverse osmosis equipment is being designed as part of the Wochholz Improved Salinity Effluent (WISE) Project. This project is currently scheduled for the completion of the construction phase by November 2012.









Workshop Memorandum 12-151

Date: August 28, 2012

Subject: Agreement Modification No. 6 to the Cooperative Funding Agreement with the United States Department of the Interior, Bureau of Reclamation Related to the Yucaipa Valley Regional Brineline Project

In March 2010, the District received a funding grant in the amount of \$2.286 million from the Bureau of Reclamation for Phases 1 and 2 of the Yucaipa Valley Regional Brineline Project [Director Memorandum No. 10-021]. This federal grant is in addition to the grant funding received from Proposition 50 for the three phases of the project (Phases 1, 2 and 3).

On September 8, 2010, the Yucaipa Valley Water District received notification from the Department of the Interior, Bureau of Reclamation of an additional \$2 million grant from the American Recovery and Reinvestment Act for Phase 3 of the Yucaipa Valley Regional Brineline. This additional funding was documented as Modification No. 1 to the Agreement with the Bureau of Reclamation.

Since this time, the District has received additional modification requests to the grant Agreement to provide for administrative costs for the Bureau of Reclamation. Modification No. 2 was unilaterally executed by the Bureau of Reclamation on September 21, 2010. Subsequent modifications to the agreement were approved as provided below:

- Modification No. 3 - Approved on March 2, 2011 as Director Memorandum No. 11-021;
- Modification No. 4 - Approved on May 18, 2011 as Director Memorandum No. 11-043;
- Modification No. 5 - Approved on April 4, 2012 as Director Memorandum No. 12-034;

On August 13, 2012, the District received Modification No. 6 which will deobligate \$7,000. In order to maintain proper documentation for this project and subsequent financial audits, the District staff recommends that the Board ratifies the approval of Agreement Modification No. 6.

Summary of Administrative Funds for the U.S. Bureau of Reclamation

Original U.S. Bureau of Reclamation Grant	\$ 2,137,000
Second U.S. Bureau of Reclamation Grant – Modification No. 1	\$ 2,000,000
Administrative Fund Obligation – Modification No. 2	\$ 75,000
Administrative Fund Deobligation - Modification No. 3	(\$ 16,000)
Administrative Fund Deobligation - Modification No. 4	(\$ 30,000)
Administrative Fund Deobligation - Modification No. 5	(\$ 20,000)
Administrative Fund Deobligation - Modification No. 6	(\$ 7,000)



United States Department of the Interior

BUREAU OF RECLAMATION
Southern California Area Office
27708 Jefferson Ave., Suite 202
Temecula, CA 92590-2628



IN REPLY REFER TO:

SCAO-2000
ADM-13.00

AUG 13 2012

RECEIVED
AUG 14 2012
YUCAIPA VALLEY
WATER DISTRICT

Mr. Joseph B. Zoba
General Manager
Yucaipa Valley Water District
12770 Second Street
Yucaipa, CA 92399

Subject: Modification No. 006, Cooperative Agreement No. R10AC35R03, Yucaipa Valley Regional Brine Line Project, Phases I, II and III

Dear Mr. Zoba:

At the quarterly site visit that was held on July 30, 2012, the District requested an extension to the completion date for the subject agreement in order to allow sufficient time to close out all of the contracts associated with the work. The request is approved. Also, Reclamation has nearly exhausted the administrative funds that are available, and therefore we need to deobligate \$7,000 in order to provide additional administrative funds.

Enclosed are the original and two duplicate originals of Modification No. 006 to the subject cooperative agreement which will extend the completion date to October 31, 2012, and deobligate the \$7,000. A total of \$4,139,000 will remain available for work performed under the agreement, including \$2,000 of administrative funds. If the modification is satisfactory, please execute all three copies on behalf of the Yucaipa Valley Water District, and return all documents to this office. An executed duplicate original will be returned for your files.

If you have any questions, please contact me at 951-695-5310.

Sincerely,

Dennis D. Wolfe
Area Engineer

Enclosures - 3

ORIGINAL

Bureau of Reclamation Form, 7-2279
12-2011

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
ASSISTANCE AGREEMENT

1A. AGREEMENT NUMBER R10AC35R03		1B. MOD NUMBER 006		2. TYPE OF AGREEMENT <input type="checkbox"/> GRANT <input checked="" type="checkbox"/> COOPERATIVE AGREEMENT		3. CLASS OF RECIPIENT Special District Government	
4. ISSUING OFFICE Southern California Area Office Bureau of Reclamation 27708 Jefferson Avenue, Suite 202 Temecula CA 92590				5. RECIPIENT Yucaipa Valley Water District 12770 Second Street Yucaipa CA 92399 909-797-5117			
				EIN #:		95-2742131	
				County:		San Bernardino	
				DUNS #:		076060508	
				Congress. Dist:		41	
6. ADMINISTRATIVE POINT OF CONTACT Dennis D. Wolfe, SCAO-2000 Bureau of Reclamation 27708 Jefferson Avenue, Suite 202 Temecula CA 92590 Phone: 951-695-5310, E-mail: dwolfe@usbr.gov				7. RECIPIENT PROJECT MANAGER Brent Anton 12770 Second Street Yucaipa CA 92399 909-797-5118, E-mail: banton@yvwd.dst.ca.us			
8. GRANTS OFFICER TECHNICAL REPRESENTATIVE Dennis D. Wolfe, SCAO-2000 Bureau of Reclamation 27708 Jefferson Avenue, Suite 202 Temecula CA 92590 Phone: 951-695-5310, E-mail: dwolfe@usbr.gov				9A. INITIAL AGREEMENT EFFECTIVE DATE: March 29, 2010		9B. MODIFICATION EFFECTIVE DATE: See Block 17A	
				10. COMPLETION DATE See Block 15.			
11A. PROGRAM STATUTORY AUTHORITY Section 1655 Title XVI of Pub. L. 102-575, as amended						11B. CFDA Number 15.504	
12. FUNDING INFORMATION		RECIPIENT/OTHER		RECLAMATION		13. REQUISITION NUMBER 12350100072	
Total Estimated Amount of Agreement		\$17,314,251		\$4,286,785		14A. ACCOUNTING AND APPROPRIATION DATA Cost Authority: 121-2009-6000-195-00-0-0 Cost Center: 3501000 Object Code: 411C	
This Obligation		\$7,000		(\$7,000)			
Previous Obligation		\$17,455,036		\$4,146,000			
Total Obligation		\$17,462,036		\$4,139,000		14B. TREASURY ACCOUNT FUNDING SYMBOL 14-0681	
Cost-Share %		81%		19%			
15. PROJECT TITLE AND BRIEF SUMMARY OF PURPOSE AND OBJECTIVES OF PROJECT A. PROJECT TITLE: Yucaipa Valley Regional Brineline Project, Phases I, II, and III B. PURPOSE: 1. This is a funding change as shown in Block 12. 2. In the third paragraph of Section I.4, the amount of funds that Reclamation has available for this agreement is changed to \$4,139,000. 3. The completion date shown in Block 10 is changed to October 31, 2012.							
16a. Acceptance of this Assistance Agreement in accordance with the terms and conditions contained herein is hereby made on behalf of the above-named recipient BY: <u>Joseph B. Zoba</u> DATE: <u>8/15/2012</u>				17a. Award of this Assistance Agreement in accordance with the terms and conditions contained herein is hereby made on behalf of the United States of America, Department of the Interior, Bureau of Reclamation BY: _____ DATE: _____			
16b. NAME, TITLE, AND TELEPHONE NUMBER OF SIGNER Joseph B. Zoba General Manager 909-797-5117 <input type="checkbox"/> Additional signatures are attached				17b. NAME OF GRANTS OFFICER William J. Steele Grants Officer 951-695-5310			

Agreement No. R10AC35R03

Bureau of Reclamation Form, RF-131
12-2011

C. DESCRIPTION OF CHANGE:

The purpose of this modification is to extend the completion date of the Agreement to October 31, 2012 to allow the District sufficient time to close out all of their contracts. In addition, the purpose is to deobligate \$7,000 of administrative funds that have been previously obligated to this agreement. After this modification is executed, \$2,000 of administrative funds will remain obligated to the agreement.

D. ADJUSTMENT OF AGREEMENT AMOUNT:

The award amount is unchanged and remains \$4,286,785.

E. NOTICE OF CHANGE IN FUNDS OBLIGATED:

As a result of this modification, the amount obligated is changed from \$4,146,000 to \$4,139,000.

F. ADJUSTMENT IN AGREEMENT TIME:

As a result of this modification, the period of performance is changed **from** March 29, 2010 through August 31, 2012 **to** March 29, 2010 through October 31, 2012.

Agreement No. R10AC35R03
Modification 006



Workshop Memorandum 12-152

Date: August 28, 2012

Subject: Claim for Damages Related to Dirty Water at 36226 Panorama Drive, Yucaipa - Michael Bolen

On August 13, 2012, the Yucaipa Valley Water District received a claim from Michael Bolen in the amount of \$269.87 for the cost of plumber's services and plumbing fixture replacement parts for his residence located at 36226 Panorama Drive, Yucaipa. The claim is related to the rupture of a 10-inch water main on Pendleton Road that occurred on July 8, 2012. The claim states that on July 8th, mud and silt were dislodged that impacted the Bolen residential water supply. Mr. Bolen flushed his residential system and most of the plumbing fixtures cleared up. Mr. Bolen states that the kitchen faucet would not clean up with flushing, and a toilet valve would not stop running, thereby requiring plumber's services and replacement parts for these two plumbing fixtures.

Upon investigation of this claim, it was learned that District staff was notified of the problem with the Bolen residence. District staff met with Mr. Bolen and also attempted to flush the dirty water from both the above mentioned kitchen faucet and toilet valve with the same lack of success that Mr. Bolen achieved. District staff spent over 90 minutes attempting to correct the problems.

Most water systems, especially those supplied by groundwater wells, will experience some sediment and deposits in the distribution system no matter how well the water production sources and distribution system are operated and maintained. However, the investigation of this claim has shown that the claimant made significant efforts to remediate the problem before requesting the assistance of District staff, who also could not resolve the problem. Only then did the claimant contact a plumber to provide a remedy to the problem. It is noted that a similar problem occurred approximately two years earlier at this residence and that problem was resolved by the resident.

As this claim is related to the July 5th Pendleton main break, for which previous related claims were denied and referred the District's Insurance provider, District staff recommends that this claim also be denied by the Board of Directors and referred to the District's insurance carrier for handling.



Yucaipa Valley Water District

12770 Second Street • P.O. Box 458 • Yucaipa, CA 92399 • (714) 797-5117

CLAIM FOR DAMAGES TO PERSON OR PROPERTY

RECEIVED

AUG 13 2012

YUCAIPA VALLE
WATER DISTRICT

INSTRUCTIONS

1. Claims for death, injury to person or to personal property must be filed not later than six months after the occurrence. (Gov. Code Sec. 911.2)
2. Claims for damages relating to any other cause of action must be filed not later than 1 year after the occurrence. (Gov. Code Sec. 911.2)
3. Read entire claim before filing.
4. See Page 2 for diagram upon which to locate place of accident.
5. This claim form must be signed on page 2 at bottom.
6. Attach separate sheets, if necessary, to give full details. SIGN EACH SHEET.
7. Claim must be filed with Board Secretary.

Name of Claimant

Michael Bolen

Home Address of Claimant

36226 PANORAMA Dr.

City and State

YUCAIPA, CA. 92399

Home Telephone Number

909.797.7229

Business Telephone Number

Business Address of Claimant

City and State

Give address to which you desire notices or communications to be sent regarding this claim:

As Above

When did DAMAGE or INJURY occur?

Date: July 8, 2012

Time: ALL DAY

(in Residence / Address Above)

How did DAMAGE or INJURY occur? Give full particulars.

Excavation in Neighbor hood cause d, mud & debris in our water supply. All water & toilet valve cleared over time but service to kitchen faucet could not be cleared

Where did DAMAGE or INJURY occur? Describe fully, and locate on diagram on reverse side of this sheet. Where appropriate, give street names and addresses and measurements from landmarks: (1) Toilet valve would

not stop running.

What particular ACT or OMISSION do you claim caused the injury or damage? Give names of District employees causing the injury or damage, if known:

Joe & Mike attempted to clean Kitchen fixture

What DAMAGE or INJURIES do you claim resulted? Give full extent of injuries or damages claimed:

Replacement - Note: This same thing happened about 2 yrs ago - kitchen fixture replacement

What AMOUNT do you claim on account of each item of injury or damage as of the date of presentation of this claim, giving basis of computation:

see receipts - \$147.50 labor
112.06 Kitchen fixture
10.31 Toilet Valve
\$269.87 TOTAL

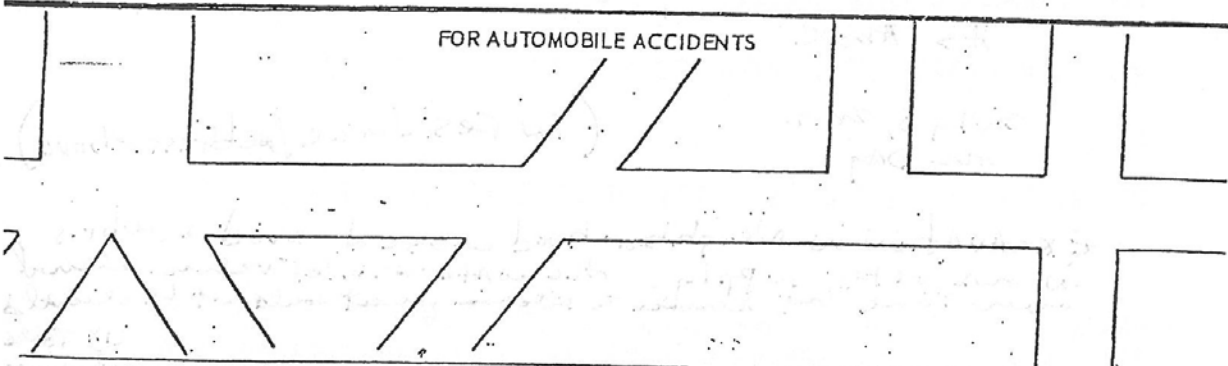
Give ESTIMATED AMOUNT as far as known, that you claim on account of each item of prospective injury or damage, giving basis of computation:

Name and address of Witnesses, Doctors and Hospitals

READ CAREFULLY

For all accident claims place on following diagram names of streets, including North, East, South, and West: indicate place of accident by "X" and by showing house numbers of distances to street corners. If District Vehicle was involved, designate by letter "A" location of District vehicle when you first saw it, and by "B" location of yourself or your vehicle when you first saw District vehicle; location of District vehicle at time of accident by "A-1" and location of yourself or your vehicle at the time of the accident by "B-1" and the point of impact by "X".

NOTE: If diagrams below do not fit the situation, attach hereto a proper diagram signed by claimant.



Signature of Claimant or person filing on his behalf, If giving relationship to Claimant:

Michael J. Tolon

Typed Name

Michael J. Tolon

Date

8-11-12

NOTE: Presentation of a false claim is a felony (Cal. Pen. Code Sec. 72) CLAIMS MUST BE FILED WITH BOARD SECRETARY

Toilet Valve

THANK YOU FOR SHOPPING
BEST HOME CENTER
(909) 797-5153

COME CHECK OUT OUR EVERYDAY LOW PRICES!!
7/08/12 4:16PM BLG 552 SALE

6550966	1	EA	8.99	EA
400A ANTISIPHON FILL VALVE 8.99				

SUB-TOTAL:	8.99	TAX:		.70
		TOTAL:		9.69
CASH TEND:	20.00	CHANGE:		10.31



==>> JRNL#G42403 <<==

CUST # *13102

CLUB CRD# 3205011650

RETURN POLICY: ALL RETURNS MUST BE COMPLETED WITHIN 30 DAYS. ORIGINAL RECEIPT IS NECESSARY FOR ALL RETURNS. PURCHASES MADE BY CHECK MUST WAIT 10 BUSINESS DAYS FOR ANY RETURN. NO RETURNS ON CUT MERCHANDISE, MIXED PAINT, CUT LUMBER, CIRCUIT BREAKERS, AND POWER TOOLS.

COUPONS: PER BEST LUMBER POLICY, ALL COUPONS ARE FORFEITED AT TIME OF PURCHASE, AND ARE NON-REFUNDABLE.

Pitcher Sink
Fixture

LOWE'S
LOWE'S HW, INC.
1725 WEST REDLANDS BLVD
REDLANDS, CA 92373 (909) 307-8883

- SALE -
SALES#: FSTLANE4 13 TRANSH: 12955583 07-10-12

231738 MOEN RENZO CH PULLOUT	104.00

SUBTOTAL:	104.00
TAX:	8.06
INVOICE 29304 TOTAL:	112.06
DEBIT:	112.06

DEBIT:XXXXXXXXXXXX0378 AMOUNT:112.06 AUTHCD:000000

SWIPED REFID:955618075929 07/10/12 14:26:53

TRACE:00569815

PURCHASE	CASH BACK	TOTAL DEBIT
112.06	0.00	112.06

STORE: 0759 TERMINAL: 29 07/10/12 14:27:00
OF ITEMS PURCHASED: 1
EXCLUDES FEES, SERVICES AND SPECIAL ORDER ITEMS



THANK YOU FOR SHOPPING LOWE'S.
SEE REVERSE SIDE FOR RETURN POLICY.
STORE MANAGER: DALE BAUSCH

WE HAVE THE LOWEST PRICES, GUARANTEED!
IF YOU FIND A LOWER PRICE, WE WILL BEAT IT BY 10%.
SEE STORE FOR DETAILS.

* YOUR OPINIONS COUNT! *
* REGISTER TO WIN A \$5,000 LOWE'S GIFT CARD! *
* iREGISTRESE PARA GANAR UNA TARJETA DE REGALO LOWE'S! *
* REGISTER BY COMPLETING A GUEST SATISFACTION SURVEY *
* WITHIN ONE WEEK AT: www.loves.com/survey *
* Y O U R I D # 29804 0759 192 *
* NO PURCHASE NECESSARY TO ENTER OR WIN. *
* VOID WHERE PROHIBITED. MUST BE 18 OR OLDER TO ENTER. *
* OFFICIAL RULES & WINNERS AT: www.loves.com/survey *

STORE: 0759 TERMINAL: 29 07/10/12 14:27:00

Invoice No. **38484**
 Plumbing Contractor Lic. #734772
 C-36 & C-42

BIG MIKE'S PLUMBING
 268 W. CLUSTER STREET
 SAN BERNARDINO, CA 92408
 (909) 888-8736 • (909) 885-8571
 (909) 798-8187 • (951) 682-5222
 FAX (909) 888-0893



Over 80 lbs voids all warranties.

AGREEMENT WITH

Name: Mike Bolen
 Job At: 36226 Panorama Dr
 City: YUCAIPA, CA

Date: 909-797-7229
 Serviceman: Josel
 Telephone: 7/11/12

BILL TO

Name: _____
 City: _____
 Old Customer: _____

Address: _____
 Zip: _____ Phone: _____
 New Customer: _____

WORK AUTHORIZATION-I We hereby authorize the work described along with the necessary materials and parts _____	WORK ORDERED: _____
---	----------------------------

Labor Guaranteed 30 Days Unless Otherwise Stated

Big Mike's Plumbing is not responsible for landscaping.

DESCRIPTION OF WORK PERFORMED

DESCRIPTION OF WORK PERFORMED	MATERIAL USED	AMOUNT
Removed old. Failed master.		
+ Replaced with brass supplied. fill valve.		
(Fluid main). Removed old jet facet.		
+ Installed new MOEN jet. facets.		
NO leaks all ok.		
Case of work for water Distric		
working on water line in street. Cases		
rust to close up screws + facets.		

WANT TO PAY LESS!
 If you are a member of our service agreement receive the value rates!
15% OFF

TO OUR CUSTOMERS: Service men are required to have work slip signed. This is done in order to protect you, the workmen, and ourselves and to enable us to give you absolute satisfactory service. You are respectfully requested to examine material and labor statement before workmen leave the job, and if you find everything satisfactory, okay this ticket. If service is unsatisfactory, in any way, please phone our office immediately.

"I find the time and material charged above satisfactory and agree to pay for same on presentation of invoice, and further agree to pay reasonable charge for collection including attorneys fees in the event of my default."

A PENALTY WILL BE CHARGED AT THE RATE OF 11/2% PER MONTH ON UNPAID BALANCES AFTER 30 DAYS OF INVOICE DATE. ANNUAL PERCENTAGE RATE 18%.

Signed by [Signature]
 by _____

Billings	_____
Credit Cards \$	_____
Cash \$	_____
Estimates	_____
Checks	<u>#13537</u>
Labor: #	_____
Total Materials #	_____
Ins. Deductible #	_____
TOTAL:	<u>#147.50</u>



Date: August 28, 2012

Subject: Claim for Water Damages Related to Mainline Break at 11966 California Street, Yucaipa - Joshua Ciccanti

On July 14, 2012 the Yucaipa Water District incurred a rupture of an 8-inch water mainline on Cedar Street. The location of the main break resulted in a significant quantity of water flowing down an alley to California Street and onto the property at 11966 California Street in Yucaipa including the driveway, front yard, garage, and back patio of the Ciccanti residence.

On August 14th, 2012, the District received the required claim from Mr. Joshua Ciccanti for the water damages and restoration of the property.

It is the practice of the District to deny significant cost claims and refer the claims to the District insurance carrier for handling. Due to the cost of the repairs and the restoration, staff recommends that this claim be denied by the Board of Directors and referred to the District's insurance carrier for handling.



Yucaipa Valley Water District

12770 Second Street • P.O. Box 458 • Yucaipa, CA 92399 • (714) 797-5117

RECEIVED

AUG 14 2012

YUCAIPA VALLEY WATER DISTRICT

CLAIM FOR DAMAGES TO PERSON OR PROPERTY

INSTRUCTIONS

1. Claims for death, injury to person or to personal property must be filed not later than six months after the occurrence. (Gov. Code Sec. 911.2)
2. Claims for damages relating to any other cause of action must be filed not later than 1 year after the occurrence. (Gov. Code Sec. 911.2)
3. Read entire claim before filing.
4. See Page 2 for diagram upon which to locate place of accident.
5. This claim form must be signed on page 2 at bottom.
6. Attach separate sheets, if necessary, to give full details. SIGN EACH SHEET.
7. Claim must be filed with Board Secretary.

Name of Claimant

Joshua F. Ciccanti

Home Address of Claimant

11916 California St. Yucaipa

City and State

~~Yucaipa~~ Ca 92399

Home Telephone Number

909-790-7396

Business Telephone Number

909-206-9406

Business Address of Claimant

City and State

Riverside, Ca

Give address to which you desire notices or communications to be sent regarding this claim:

11916 California St. Yucaipa, Ca 92399

When did DAMAGE or INJURY occur?

Date: 7/14/12

Time: approximately 4:00

How did DAMAGE or INJURY occur? Give full particulars.

Where did DAMAGE or INJURY occur? Describe fully, and locate on diagram on reverse side of this sheet. Where appropriate, give street names and addresses and measurements from landmarks:

Driveway, garage, front yard, back patio at address above.

What particular ACT or OMISSION do you claim caused the injury or damage? Give names of District employees causing the injury or damage, if known:

Off property water main break:

What DAMAGE or INJURIES do you claim resulted? Give full extent of injuries or damages claimed:

See attached

What AMOUNT do you claim on account of each item of injury or damage as of the date of presentation of this claim, giving basis of computation:

See attached

Give ESTIMATED AMOUNT as far as known, that you claim on account of each item of prospective injury or damage, giving basis of computation:

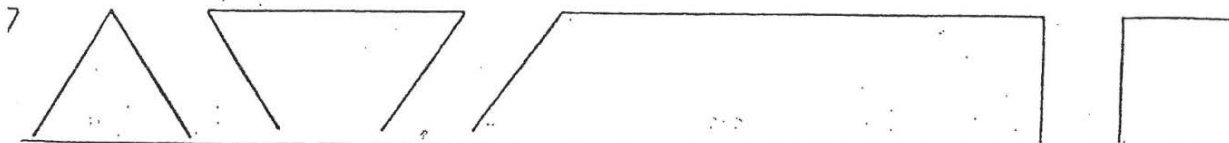
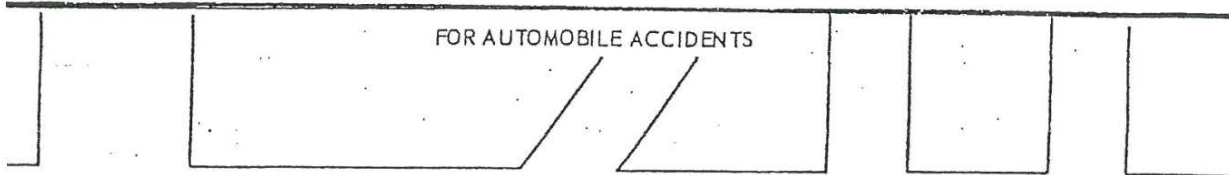
Name and address of Witnesses, Doctors and Hospitals

READ CAREFULLY

For all accident claims place on following diagram names of streets, including North, East, South, and West: indicate place of accident by "X" and by showing house numbers of distances to street corners.

If District Vehicle was involved, designate by letter "A" location of District vehicle when you first saw it, and by "B" location of yourself or your vehicle when you first saw District vehicle: location of District vehicle at time of accident by "A-1" and location of yourself or your vehicle at the time of the accident by "B-1" and the point of impact by "X".

NOTE: If diagrams below do not fit the situation, attach hereto a proper diagram signed by claimant.



Signature of Claimant or person filing on his behalf giving relationship to Claimant: <i>Staci Ciccanti</i>	Typed Name <i>Staci Ciccanti</i>	Date <i>8/18/12</i>
--	-------------------------------------	------------------------

NOTE: Presentation of a false claim is a felony (Cal. Pen. Code Sec. 72) CLAIMS MUST BE FILED WITH BOARD SECRETARY.

To whom it may concern,

To the best of our ability we have recounted accurately the estimated damage to our property. There are a few outstanding items in need of replacement or repair. These items are as follows, 1) Driveway concrete, 2) Drywall in garage, 3) Garage door. Unfortunately we have not included receipts as we are in the process of gathering estimates. These items require a large capital investment and have been delayed as the appropriate funds are withstanding. We have noted an estimate of the aforementioned costs for your records. Receipts have been included for items already replaced. If you have any additional questions please feel free to reach out by email or phone.

Regards,

Joshua Ciccanti

joshuastaci@verizon.net

909 790 7882

DAMAGED ITEMS:	Replacement Cost
Landscape	
River rock (flower bed replace receipt attached)	\$48.38
Landscape lighting (flower bed destroyed receipt attached)	\$49.62
Gravel (flower bed replace)	\$10.00
Grass seed Front Yard (grass destroyed)	\$45.00
Seeding mulch (3 cubic feet)	\$11.00
Garage	
Garage Door (warped water damage estimate)	\$1,500.00
Hot water heater (repair and clean receipt attached)	\$94.08
Utility Cost (Excessive use due to restoration)	\$116.78
Electric bill (receipt attached)	
Personal Property (see attached itemized list)	
personal property damage destroyed	\$2,187.44
Restoration Management (Direct Submit Invoice attached)	
Miscellaneous	
Dry wall garage (Remove and replace due to clean up estimate)	\$500.00
Concrete Driveway (Remove and Replace estimate)	\$5,000.00
Total Damage To Date	
	\$14,900.62

Items designated in red remove and repair estimates forthcoming

Items designated in red remove and repair estimates forthcoming

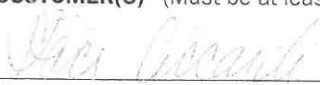


**NON-RESTORABLE
INVENTORY LIST**

INSURED/CLAIMANT Ciccanti, Josh DATE 7/16/12
 JOB NO. 01011910110009 PREPARED BY Samuel Bonner PAGE: 2 OF

QTY	DESCRIPTION OF ITEM	SERIAL # / BRAND	AGE / REPLACEMENT COST
1	Zero degrees cooler blue / gray		1 year 26.77
5	Red Ikea Rikna seat cushions 40x40x7cm		2/25.00
1	Disney Dumbo plush		3 mos. / 21.82
1	My little pony plush		1 year 9.99
1	Dolphin plush		6 mos. / 8.92
1	Baby Bag from Barney plush		5 year 12.99
1	Disney Princess diamond brooch		1 year 11.95
1	Gecko kids and snake brooch		5 year 5.99
1	Oh the Places you'll go D. Sears brooch		6 mos. / 11.00
5	Toy car/trucks		4 year 5.99
1	Toy boat Plastic		1 year 6.99
1	Red dirt devil Vans shoes Model: SD20000		2 year 27.11
1	Disney Princess sweater 27"x22"		2/43.48
1	Wicker stool, brown 18"X14"		
2	Technics floor speakers 5 Model: SB LX50 SN: AL6JA11609 SN: HM6JA11548		6 year 159.99
1	Black anti bag knight brooch		1/220.00
	Anti chills waists 1, 3, 4, 3, 6, 7, 9 in Tor Anti chills Sun waist Plyell RF Knight also SW		1/300.00

For your protection California law requires the following to appear on this form: Any person who knowingly presents false or fraudulent claim for the payment of a loss is guilty of a crime and may be subject to fines and confinement in state prison.

"CUSTOMER(S)" (Must be at least 18 years old)

 Signature - check one: Customer Authorized Agent

RESTORATION MANAGEMENT COMPANY

 Signature



INVENTORY LIST

INSURED/CLAIMANT Ciccranti, Josh DATE 7/16/12
 JOB NO. 02197EW166 PREPARED BY Samuel Bonner PAGE: 1 OF 1

QTY	DESCRIPTION OF ITEM	SERIAL # / BRAND	AGE / REPLACEMENT COST
1	Baby trend portable high chair green		5 ^{yr} / \$100-
1	Olympia duffle bag blue		5 ^{yr} / 28.96
1	Blue and white beach folding chair		5 ^{yr} / 75.00
1	Multi-colored Pic adventure beach folding chair		2 / 29.15
1	Red Tommy Bahama folding beach chair		1 ^{yr} / 29.15
1	Blue MacLaren volo umbrella stroller		1 ^{yr} / 140.40
1	Teal and white beach umbrella		5 ^{yr} / 11.00
1	Disney Tinkerbell one piece girls swimsuit		2 ^{yr} / 12.00
1	one piece wet suit top boys 2T		1 ^{yr} / 10.00
1	Lenovo Think pad computer duffle bag black		1 ^{1/2} / 50.00
1	Godmorgon box 14 x 9 cm Ikea shoe	2 x 15 New Special	97.86
16	Pieces of white or tan pressed wood		1 ^{yr} / 26.00
	belonging to the Rationell sxx system from Ikea		
1	Adidas blue/black sports bag		2 ^{yr} / 20.00
1	Craft and Barron large black cotton mat		5 ^{yr} / 30.00
1	wire cutter		2 ^{yr} / 15.00
1	Strakrist Tami pants		1 ^{yr} / 1.50
1	High Sierra mens medium shirt		5 ^{yr} / 25.00
1	Blue beach towel		2 ^{yr} / 0.00
1	Mens over night bag Gillette razor speed stick		3.99
	deodorant, tooth brush, Fruit of the loom Mens Medium		7-
	underwear, pants, sp. Stryper Conditioner		
1	black compact umbrella		2 ^{yr} / 10.00

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"CUSTOMER(S)" (Must be at least 18 years old)

Josh Ciccranti
 Signature - check one: Customer Authorized Agent

RESTORATION MANAGEMENT COMPANY

[Signature]
 Signature

10/2009



**NON-RESTORABLE
INVENTORY LIST**

INSURED/CLAIMANT Arcauti, Josh DATE 7/10/12
 JOB NO. collage PREPARED BY Amuel Barber PAGE: 3 OF

QTY	DESCRIPTION OF ITEM	SERIAL # / BRAND	AGE / REPLACEMENT COST
1	Black and Decker leaf blower Model: FT 1000 Type 1		3 ^{year} / 76.12
1	Pair Men's Jordan shoes white and blue size 11		3 ^{year} / 40.00
1	Pair Men's Nike's gold shoe size 12		1 ^{year} / 89.99
1	Pair girls Sprite size with skates size 13		3 ^{year} / 19.99
1	Black and Decker 17" tree trimmer model TR1700 Type 2		3 ^{year} / 54.38
1	Gray 72"x29" folding plastic table		2 ^{year} / 45.00
17	17"x14" cotton towels		2 ^{year} / 17.00
1	50lb bag Versabond Thin set		2 mos. / 15.97
1	62" X 10' X 12" wooden shoe rack		3 ^{year} / 16.99
	70x14x26 wooden tv tray		5 ^{year} / 15.00
	240" X 96" X 90 ADRO SF5 Aqua Shield gray on gray with bag		12 ^{month} cover 6 mos. / 227.00
			2187.44

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"CUSTOMER(S)" (Must be at least 18 years old)

Josh Arcauti
 Signature - check one: Customer Authorized Agent

RESTORATION MANAGEMENT COMPANY

[Signature]
 Signature



Restoration Management Company

6630 Doolittle Ave.
 Riverside, CA 92503
 (951) 351-2681 Office
 (951) 351-2670 Fax
 License #765595

Client: Josh Ciccanti
 Property: 11966 California St.
 Yucaipa, CA 92399

Cellular: (909) 790-7882

Operator Info:

Operator: TYLER

Estimator: Tyler Hampton
 Position: Branch Manager
 Business: 6630 Doolittle Ave.
 Riverside, CA 92503

Cellular: (951) 526-9777
 E-mail: thampton@rmc.com

Reference: Jack Nelson
 Company: Yucaipa Valley Water District
 Business: 12770 2nd Street
 Yucaipa, CA 92399

Business: (909) 790-3307

Type of Estimate: Water Damage
 Date Entered: 7/26/2012

Date Assigned: 7/15/2012

Price List: CABD7X_JUL12
 Labor Efficiency: Restoration/Service/Remodel
 Estimate: CIC119IEW16689

Water Damage Service:

Performed our initial inspection on Sunday, 7/15 to determine the extent of damage. Upon inspection we found the following areas affected: Garage, front yard, side yard, back yard, drive way and crawl space. We manipulated contents, extracted water, removed soil/mud & wet drywall. Performed an inventory of the owner's damaged contents. Cleaned up all debris and then disposed of it. Setup a total of one (1) dehumidifier, one (1) air mover and one (1) negative air machine to dry the structure and aid odor removal. We found the structure dry on Wednesday, 7/25, and removed, cleaned and restocked equipment at the RMC warehouse.

**** Equipment is being charged at a weekly rate (4 day rental = 1 week)**

For further questions, please call our office for assistance. **Thank You** for allowing Restoration Management Company to assist with all your restoration needs. We truly appreciate your business.

Respectfully,

Tyler Hampton
 Branch Manager
 Restoration Management Co.
 Cell: 951.526.9777
 Email: thampton@rmc.com



Restoration Management Company

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CIC119IEW16689

Main Level

Sunday, July 15th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Labor Explanation: Loaded equipment and supplies at the office and then drove to the job site. Extracted water, scraped and shoveled solid mud from the garage floor. Moved out and then back in the contents. Pulled three samples to be analyzed for asbestos. Setup dehumidifier to dry the structure.				
Restoration Labor:				
Restoration Technician - after hours (2 techs for a total of 12 hours)	12.00 HR	0.00	83.82	1,005.84
Equipment Usage:				
Dehumidifier - Large (1200 / Evo / R175)	1.00 DA	0.00	85.00	85.00
Materials:				
Add for personal protective equipment (hazardous cleanup)	2.00 EA	0.00	7.84	15.68
Vehicle Usage:				
Service Van	1.00 EA	0.00	75.00	75.00
Used to transport equipment to the job site.				
Totals: Sunday, July 15th				1,181.52

Monday, July 16th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Labor Explanation: Shoveled mud out of the front yard and bagged for disposal. Power washed the lawn, walk way, driveway and side patio. Removed a 13' x 1' section of damaged plaster & drywall. Performed an inventory of the owner's damaged contents.				
Restoration Labor:				
Restoration Technician (2 techs for a total of 16 hours)	16.00 HR	0.00	55.88	894.08
Equipment Usage:				
Dehumidifier - Large (1200 / Evo / R175)	1.00 DA	0.00	85.00	85.00
Materials:				
Degreaser	1.00 GL	0.00	28.00	28.00
Plastic bag - used for disposal of contaminated items	20.00 EA	0.00	2.89	57.80

CIC119IEW16689

7/27/2012

Page: 2



Restoration Management Company

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CONTINUED - Monday, July 16th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Totals: Monday, July 16th				1,064.88

Tuesday, July 17th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Labor Explanation: Removed the top layer of soil from the crawl space. Cleaned the exposed studs, concrete floor and freezer. Monitored and repositioned the drying equipment.				
Restoration Labor:				
Restoration Technician (2 techs for a total of 8 hours)	8.00 HR	0.00	55.88	447.04
Equipment Usage:				
Dehumidifier - Large (1200 / Evo / R175)	1.00 DA	0.00	85.00	85.00
Materials:				
Add for personal protective equipment (hazardous cleanup)	2.00 EA	0.00	7.84	15.68
Plastic bag - used for disposal of contaminated items	3.00 EA	0.00	2.89	8.67
Anti-Microbial / Disinfectant / Sanitizer	1.00 GL	0.00	69.50	69.50
Towel, Terry Cleaning	5.00 LB	0.00	3.92	19.60
Totals: Tuesday, July 17th				645.49

Wednesday, July 18th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Labor Explanation: Monitored and repositioned equipment. Added an air mover and negative air machine to assist with drying and odor.				
Restoration Labor:				
Restoration Technician (2 techs for a total of 6 hours)	6.00 HR	0.00	55.88	335.28
Equipment Usage:				
Dehumidifier - Large (1200 / Evo / R175)	1.00 DA	0.00	85.00	85.00
Negative Air / Air Scrubber - 500	1.00 DA	0.00	72.50	72.50
Air mover - 2000 CFM	1.00 EA	0.00	27.50	27.50
CIC119IEW16689			7/27/2012	Page: 3



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CONTINUED - Wednesday, July 18th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Materials:				
Lay Flat Ducting, 10" - 12"	0.25 RL	0.00	120.00	30.00
Filter, Primary - 500	2.00 EA	0.00	12.00	24.00
Vehicle Usage:				
Service Van	1.00 EA	0.00	75.00	75.00
Used to transport equipment to the job site.				
Totals: Wednesday, July 18th				649.28

Thursday, July 19th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Equipment Usage:				
Dehumidifier - Large (1200 / Evo / R175)	1.00 DA			NO CHARGE
Negative Air / Air Scrubber - 500	1.00 DA	0.00	72.50	72.50
Air mover - 2000 CFM	1.00 EA	0.00	27.50	27.50
Totals: Thursday, July 19th				100.00

Friday, July 20th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Labor Explanation: Monitored and repositioned equipment. The crawl space is drying slowly.				
Restoration Labor:				
Restoration Technician (2 techs for a total of 5 hours)	5.00 HR	0.00	55.88	279.40
Equipment Usage:				
Dehumidifier - Large (1200 / Evo / R175)	1.00 DA			NO CHARGE
Negative Air / Air Scrubber - 500	1.00 DA	0.00	72.50	72.50
Air mover - 2000 CFM	1.00 EA	0.00	27.50	27.50
Materials:				
Filter, Primary - 500	2.00 EA	0.00	12.00	24.00

CIC119IEW16689

7/27/2012

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Restoration Management Company

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CONTINUED - Friday, July 20th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Totals: Friday, July 20th				403.40

Saturday, July 21st

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Equipment Usage:				
Dehumidifier - Large (1200 / Evo / R175)	1.00 DA			NO CHARGE
Negative Air / Air Scrubber - 500	1.00 DA	0.00	72.50	72.50
Air mover - 2000 CFM	1.00 EA	0.00	27.50	27.50
Totals: Saturday, July 21st				100.00

Sunday, July 22nd

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Equipment Usage:				
Dehumidifier - Large (1200 / Evo / R175)	1.00 DA	0.00	85.00	85.00
Negative Air / Air Scrubber - 500	1.00 DA			NO CHARGE
Air mover - 2000 CFM	1.00 EA			NO CHARGE
Totals: Sunday, July 22nd				85.00

Monday, July 23rd

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Labor Explanation: Monitored and repositioned equipment. Removed a small portion of wet soil and back filled it with fresh soil. All equipment left onsite to continue drying.				
Restoration Labor:				
Restoration Technician (2 techs for a total of 6 hours)	6.00 HR	0.00	55.88	335.28
Equipment Usage:				

CIC119IEW16689

7/27/2012

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Restoration Management Company

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CONTINUED - Monday, July 23rd

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Dehumidifier - Large (1200 / Evo / R175)	1.00 DA	0.00	85.00	85.00
Negative Air / Air Scrubber - 500	1.00 DA			NO CHARGE
Air mover - 2000 CFM	1.00 EA			NO CHARGE
Materials:				
Plastic bag - used for disposal of contaminated items	5.00 EA	0.00	2.89	14.45
Totals: Monday, July 23rd				434.73

Tuesday, July 24th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Equipment Usage:				
Dehumidifier - Large (1200 / Evo / R175)	1.00 DA	0.00	85.00	85.00
Negative Air / Air Scrubber - 500	1.00 DA			NO CHARGE
Air mover - 2000 CFM	1.00 EA			NO CHARGE
Totals: Tuesday, July 24th				85.00

Wednesday, July 25th

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Labor Explanation: Found the structure & soil dry. Removed equipment and returned to the RMC office.				
Restoration Labor:				
Restoration Technician (2 techs for a total of 4 hours)	4.00 HR	0.00	55.88	223.52
Vehicle Usage:				
Service Van	1.00 EA	0.00	75.00	75.00
Used to pick up & transport equipment.				
Totals: Wednesday, July 25th				298.52



Restoration Management Company

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General

DESCRIPTION	QNTY	REMOVE	REPLACE	TOTAL
Haul debris - per pickup truck load - including dump fees	0.50 EA	115.58	0.00	57.79
Applies to disposal of debris (soil, supplies, etc.)				
Asbestos test fee - (per sample)	3.00 EA	0.00	77.54	232.62
Applies to pulling, dropping off and analyzing 3 building material samples for asbestos. The house was built prior to 1980 and this testing was required prior to the removal of affected building materials.				
Totals: General				290.41
Total: Main Level				5,338.23
Line Item Totals: CIC119IEW16689				5,338.23

Grand Total Areas:

424.00 SF Walls	161.50 SF Ceiling	585.50 SF Walls and Ceiling
161.50 SF Floor	17.94 SY Flooring	53.00 LF Floor Perimeter
0.00 SF Long Wall	0.00 SF Short Wall	53.00 LF Ceil. Perimeter
161.50 Floor Area	179.61 Total Area	424.00 Interior Wall Area
501.00 Exterior Wall Area	55.67 Exterior Perimeter of Walls	
0.00 Surface Area	0.00 Number of Squares	0.00 Total Perimeter Length
0.00 Total Ridge Length	0.00 Total Hip Length	



Restoration Management Company

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(951) 351-2681 Office
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License #765595

Summary

Line Item Total	5,338.23
Replacement Cost Value	<u>\$5,338.23</u>
Net Claim	<u><u>\$5,338.23</u></u>

Tyler Hampton
Branch Manager



441 COACHELLA
72-800 DINAH SHORE DR
PALM DESERT, CA 92211
LW Q ET 90-102176
MEMBER #111782041420

NOTHING ON First Bottom of Basket

10134 KSWATER ****	3.66	
00000000 CA REDEMP VA	1.75	
585213 TOMMY CHAIR	26.99	A tax 29.08
567036 KS DISH PACS	10.99	A
561532 KS LAC 180CT	14.79	A
21272 UNCRUSTABLE	11.29	
428437 XEROX PAPER	6.99	A
00055945 CPN/428437	2.25	-
428437 XEROX PAPER	6.99	A
00055945 CPN/428437	2.25	-
43023 TURKEY PEPPER	9.99	
SUBTOTAL		88.94
A 7.75% TAX		5.17
TOTAL		94.11
American Express		



LOVE'S HW, INC.
1725 WEST REDLANDS BLVD
REDLANDS, CA 92373 (909) 307-8883

- SALE -

SALES#: S0759DM1 1253193 TRANS#: 57222179 08-05-12

2624 0.5 CU FT LARGE RIVER ROC	44.80
10 3 4.48	
15004 HDF BASE 3083 4 X 1/2 0'	10.00
329372 50 WATT WALL WASH	27.96
2 2 13.90	
295310 ORB SHEPRDS HK LIGHT	17.98
total wtax	\$98.00
SUBTOTAL:	101.34
TAX:	7.87
INVOICE 67569 TOTAL:	109.21
VISA:	109.21

VISA:XXXXXXXXXXXX9658 AMOUNT:109.41 AUTHCD:001126
SWIPED REFID:222214075967 08/05/12 20:03:34
CUSTOMER CODE: no



SAN BERNARDINO 478
1099 E. HOSPITALITY LANE
SAN BERNARDINO, CA 92408
LW Q ET 90-102197
MEMBER #111782041420

628720 30PCFOODSING	29.99	A
210000053818 CPN/RUBBERMA	6.00	-
585213 TOMMY CHAIR	26.99	A
70000 KS BACON	11.79	
111894 GARLIC SALI	6.13	A tax 4.14
41114 KS BUTTER	7.39	
301860 TILLA MD 2.5	7.80	
615413 50CAN COOLER	24.79	A
SUBTOTAL		108.94
A 8.0% TAX		6.54
TOTAL		115.48
American Express		

VF XXXXXXXXXXXX1015 SWIPED
07/29/12 14:58
Seq#: 006410 App#: 580182
American Express Resp: AA
Trans ID#: 221147753000
Merchant ID 99047811

APPROVED - PURCHASE
AMOUNT: \$115.48
0478 006 000000005 0151

Income to IKEA - Covina

	6449 CASH-1	0190	3.004
1			
2	14175>		1.00
3	R		
4			
5	<SUPPLIER CODE: 16684>		89.99
6	GO WALL CAB/2 D	1	99.00
7	00214958		
8	<SUPPLIER CODE: 16684>		97.86
9	GO SINK CAB/2DRW	1	99.00
10	90159953		
11	<SUPPLIER CODE: 22365>		24.99
12	GRUNDTA WALL S	1	
13	10177767		
14	<SUPPLIER CODE: 18612>		8.00
15	GO LEG 8 5/8/9	1	
16	10177767		
17	<SUPPLIER CODE: 18612>		8.00
18	GO LEG 8 5/8/9	1	

7	40031633		
	<SUPPLIER CODE: 21983>		
	ALKALISK ALK BA	1	1.99
8	00186022		
	NYTTA FRM 11	1	3.99
9	20140226		
	<SUPPLIER CODE: 10288>		
	V N LIG GLS 1602	1	4.99
10	40131706		
	<SUPPLIER CODE: 10288>		
	V N LIG GLS 1102	1	3.99
	** FULL SERVE GRD		21057 **
11	70195551		
	BR VIKEN SINK	1	160.00
	** ORDER IS COMPLETE **		
12	20171468		
	GR DES S CRM SA	1N	1.29
13	20171468		
	GR DES S CRM SA	1N	1.29
14	20171468		
	GR DES S CRM SA	1N	1.29
15	20171468		
	GR DES S CRM SA	1N	1.29
16	20171468		
	GR DES S CRM SA	1N	1.29
17	50072645		
	<SUPPLIER CODE: 20692>		



Forum Help My Account Order Status

Shopping Cart (0)



LIVE CHAT ONLINE

RV Style

- Class A
Class B
Class C
Fifth Wheel Trailer
Folding Trailer
Hi-Lo Style
Toy Hauler
Travel Trailer
Truck Camper

Brand

- ADCO
Carver
Covercraft

Custom Covers

- From ADCO
From Covercraft

Accessories

- Tyre Guards
Tire Covers
RV Windshield Covers
A/C Covers
Propane Tank Covers

Golf Cart Covers

Discount Covers

Need other covers?

Our sister brands



1-800-925-8602
OFFICE HOURS 9 AM TO 5 PM EST

We match competitor prices on RV covers

Table with columns: Style, Dimensions, Material, Color. Row: Travel Trailer, Up to 20', SFS AquaShed

SFS AquaShed RV Covers

ADCO Contour-Fit RV Covers

Protect your investment and provide triple the protection compared to standard covers. High performance polypropylene sides insure maximum breathability and virtually eliminate mold and mildew.

- Great for all Northern states and Canada
Prevents most liquid from penetrating to RV's surface
Completely Breathable
Moderate U.V. stability
Storage bag included FREE of charge

Features

- Vinyl Reinforced Front Corners Reduce Wear
Attached Nylon Straps & Plastic Buckles Hold Cover in Place
Front and Rear Cinching System Removes Slack, Reduces Wear
Zipper Entry Doors



Travel Trailer

Up to 20' (240" L x 96" W x 90" H)

SFS AquaShed



Gray on Gray

\$228.84
\$205.96

Add to Cart

Handwritten calculation: 205.96 tax + 16.48 = \$222.44

Want your order to ship today? Order an in stock cover before 11 am eastern time.

Order today and your non-stock order will ship by Monday, July 30.

See shipping times

RV Covers



STUTZ PLUMBING

DISPOSERS
DISHWASHERS

No 3549

(909) 795-5510

P.O. Box 606 • 547 West Avenue L • Calimesa, CA 92320

State Contractors' License No. 269847

HEATING
WATER HEATERS

DATE 7-16-12
WORKMAN Reed
Customer Old New
Classification _____
Telephone 790-7582

Stacy Ciccomini Owner Tenant Bill To _____
11916 CHUTE ST At _____ City _____ Zip _____
City _____ Zip _____

Work Ordered (DESCRIBE FULLY):

From	To	Hours	MATERIAL USED	AMOUNT
			<u>w/h Repair</u>	
			<u>clean Mud From Shower + Pilot</u>	
			<u>light water heater / new thermostats</u>	<u>14.00</u>
Total Hours		<u>14</u>		
ENTERED				
Journal	Ledger	Cards		
			<u>Auto by check # 7903</u>	

Contractors are required by law to be licensed and bonded by the Contractors' State License Board. This board has jurisdiction to investigate complaints against contractors if a complaint regarding a contract or omission is filed within four years of the date of the alleged violation. A complaint regarding a latent act or omission pertaining to structural defects must be filed within 10 years of the date of the alleged violation. Any questions concerning a contractor may be referred to the Registrars, Contractors' State License Board, P.O. Box 95826, Sacramento, CA 95826.

TO OUR CUSTOMERS: Service men are required to have work slip signed. This is done in order to protect you, the workmen, and ourselves, and to enable us to give you absolute satisfactory service. You are respectfully requested to examine material and labor statement before workmen leave the job, and if you find everything satisfactory, okay this ticket. If service is unsatisfactory, in any way, please phone our office immediately. "I find the time and material charged above satisfactory and agree to pay for same on presentation of invoice, and further agree to pay reasonable charges for collection, including attorneys' fees in the event of my default." A PENALTY WILL BE CHARGED AT THE RATE OF 1 1/2% PER MONTH ON UNPAID BALANCES AFTER 30 DAYS OF INVOICE DATE. ANNUAL PERCENTAGE RATE 18%.

Total Material	<u>14.00</u>
Tax	<u>1.08</u>
Service	<u>79.00</u>
Permits - Insurance	
Trucks - Equipment	
TOTAL	<u>94.08</u>

Signed _____ by _____

YUCAIPA, CA 92399
Group N001
for 2 weeks to air

Your account summary

Amount of your last bill	\$135.82
Payment we received on Jul 17 '12 - thank you	-135.82
Balance forward	\$0.00
Your new charges	\$277.69
Total amount you owe by Aug 15 '12	\$277.69

taking into account of electricity increase the estimated cost of bill should have been \$1160.91 adjusted total is \$116.78

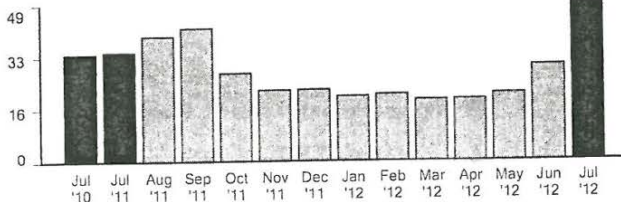
Compare the electricity you are using

For meter 222012-136782 from Jun 26 '12 to Jul 26 '12
Total electricity you used this month in kWh **1,479**

Your next meter read will be on or about Aug 24 '12.
34.20 AVG JULY for two years

Your daily average electricity usage (kWh)

2 Years ago: 33.83 Last year: 34.57 This year: 49.30



Your monthly usage may be higher than usual...
Based on your historical usage pattern, your monthly usage is trending higher than normal. As a result, you may notice an increase in your bill. If you would like information on tips and programs that can help you lower your energy usage and your bill, please visit www.sce.com/billhelper.

Restoration Company ran machines to dry under home for 2 weeks.

Please return the payment stub below with your payment and make your check payable to Southern California Edison. If you want to pay in person, call 1-800-747-8908 for locations, or you can pay online at www.sce.com.

574) Tear here

Tear here



Customer account 2-14-190-2023
Please write this number on your check. Make your check payable to Southern California Edison.

Amount due by Aug 15 '12 **\$277.69**
Amount enclosed \$ _____

STMT 07272012 P3 C05 T0116 021738 01 AV 0.3470 C006
CICCANTI, JOSHUA F
11966 CALIFORNIA ST
YUCAIPA, CA 92399-3835

P.O. BOX 600
ROSEMEAD, CA 91771-0001

14 190 2023 00000033 000000000000027769000027769



Date: August 28, 2012

Subject: Class II Non-Significant Categorical Industrial User Discharge Permit Number CP-003-03 Issued to Skat-Trak Performance Products

The attached pretreatment permit outlines the pollutant limitations for the industrial wastewater to be discharged from Skat-Trak Performance Products, facility located at 654 Avenue. "K".

The adoption of this permit is scheduled for the regular board meeting on September 5, 2012.



CLASS II NON-SIGNIFICANT INDUSTRIAL USER DISCHARGE PERMIT

Date: September 7, 2012

Name: Skat-Trak Performance Products
654 Ave. "K"
Calimesa, CA 92320

Attention: Ms. Diane Stuart, Secretary-Treasurer

Reference: Class II Non-Significant Categorical Industrial User
Discharge Permit Issued to Skat-Trak Performance
Products

Permit No: CP-003-03

SIC No: 3365

Issued By: Yucaipa Valley Water District
12770 Second Street
Yucaipa, California 92399

Dear Ms. Stuart:

The enclosed permit outlines the pollutant limitations for the industrial wastewater to be discharged from Skat-Trak Performance Products, facility located at 654 Ave. "K" into the Yucaipa Valley Water District ("YVWD") wastewater collection system. All discharges of wastewater generated at this facility, actions, and reports thereto, shall be in accordance with the terms and conditions of this permit and the **District's Sewer Use Ordinance**. The annual permit fee is \$500 per year plus sampling costs.

If you wish to appeal or challenge any of the discharge limitations, pretreatment requirements, or conditions imposed in this permit, a petition must be filed for modification or reissuance of this permit within ten (10) working days of issuance.

It is hereby certified that this permit was prepared based on information provided by a combination of one or more of the following sources: the user's permit application, facts obtained during a field inspection of the user's wastewater generating activities, and/or additional information obtained from the user.

Joseph B. Zoba
General Manager

John Wrobel
Environmental Control Superintendent



Skat-Trak Performance Products
 Wastewater Discharge Permit
 Number CP 003-03
 Page 1

Class II Non-Significant Categorical Industrial User Discharge Permit Number CP-003-03

IU Name and Address:	Skat-Trak Performance Products 654 Ave. "K" Calimesa, CA 92320
Responsible Party:	Diane Stuart, Secretary-Treasurer
Contact:	Al Miersma, Safety Trainer (909) 795-2505
Mailing Address:	Skat-Trak Performance Products P.O. Box 518 Calimesa, CA 92320

In accordance with the provisions of the Yucaipa Valley Water District's **Sewer Use Ordinance**, the above listed company ("permittee") is hereby authorized to discharge industrial wastewater from 654 Ave. "K" Calimesa, CA 92320 to the YVWD's wastewater collection system, in accordance with the discharge limitations, monitoring requirements, and other conditions set forth in this permit. Compliance with this permit does not relieve the permittee of its obligation to comply with all pretreatment regulations, standards or requirements under local, State and Federal laws, including any such laws, regulations, standards, or requirements that may become effective during the term of this permit.

Noncompliance with the terms and conditions of this permit shall constitute a violation of the requirements of YVWD's **Sewer Use Ordinance**, and shall subject the permittee to applicable enforcement actions.

This permit shall become effective on: September 20, 2012

This permit shall expire at midnight on: September 19, 2014

The permittee shall not discharge any industrial wastewater after the date of expiration. If the permittee wishes to continue discharging wastewater to the YVWD's wastewater collection system after the expiration date, an application must be filed for reissuance of this permit in accordance with the requirements of YVWD's **Sewer Use Ordinance**. This application is due a minimum of 90-days prior to the expiration of this permit.

Issued By:

Accepted By:

Joseph B. Zoba, General Manager
 Yucaipa Valley Water District
 12770 Second Street
 Yucaipa, California 92399

Diane Stuart, Secretary-Treasurer
 Skat-Trak Performance Products
 654 Ave. "K"
 Calimesa, California 92320



PART 1 - DISCHARGE REQUIREMENTS

A. Discharge Location: During the period of **September 20, 2012 to midnight of September 19, 2014**, the permittee is authorized to discharge the industrial wastewater specified in Part 1-C, through the sample location(s), and outfall(s) listed below to the YVWD's wastewater collection system.

1. **Discharge Location 001** - The floor sink located in the boiler and autoclave area, which is located on the south side of the main building (See diagram on Page 7). This discharge is subject to the YVWD's local limits.

Skat-Trak Performance Product's only non-domestic discharge is generated from boiler and autoclave batch discharges. Skat-Trak is not permitted to discharge any other process tanks or containers.

B. Permit Duration and Designated Discharge Limits: During the period of **September 20, 2012 to midnight of September 19, 2014** the industrial wastewater discharged from Sample Location 001, shall not exceed the Local Discharge Limitations specified in the Discharge Limitation Table on page 5.

C. Permit Classification: Skat-Trak Performance Products is classified as a **Non-Significant Categorical Industrial User (CIU)** as outlined in 40CFR464.15 Subpart "A" PSES Aluminum Casting and 40 CFR464.35 Subpart "C" PSES Ferrous Casting. Skat-Trak has chosen to haul and/or evaporate all process wastewater. **Industrial User (Permittee) is not authorized to discharge any federally (Categorical) regulated process wastewater into the sanitary sewer.** The only industrial wastewater permitted to be discharged is the batch discharges from the boiler and autoclave.

D. Total Toxic Organic (TTO) Monitoring: TTO monitoring is required under 40CFR464 for wastewater discharges from the investment casting/cleaning operation. As an alternative to TTO monitoring the permittee may choose to monitor for oil and grease (40CFR464.03 (a)). Since there is no discharge of process wastewater allowed under this permit, the **TTO monitoring requirement is waived**. However, a TTO Management Plan (TOMP), that specifies to the satisfaction of YVWD the toxic organic compounds stored and used; the method of disposal such as recycling, incineration, or contract hauling; and the procedures for ensuring that toxic organics do not routinely spill or leak into the wastewater is required.

The TOMP shall be submitted within 90-days of the effective date of this permit. Once the TOMP is submitted and approved by YVWD the certification statement (See Part 1 Section E below) shall be submitted with the annual report as indicated in Part 3 Section A of this Permit.

E. Certification Statement in Lieu of Requiring Monitoring for TTO: YVWD may allow Skat-Trak Performance Products to make the following certification statement: "Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation [or pretreatment standard] for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the Toxic Organic Management Plan (TOMP) submitted to YVWD. This statement is to be included as a comment with each Self Monitoring Report required by this permit. If



Skat-Trak Performance Products
Wastewater Discharge Permit
Number CP 003-03
Page 3

monitoring is necessary to measure compliance with the TTO standard, the industrial discharger shall analyze for only those pollutants which would reasonably be expected to be present.

- F. The oil and grease limitations are listed on Page 5 of the permit. **The section applies only to categorical discharges and therefore is not required under this discharge permit.**
- G. **Notification of Process Changes:** Skat-Trak Performance Products is required to notify YVWD, in writing, at least 30 days in advance, of any new connections or changes to existing discharges or other modifications which will alter the amount of or pollutant strength of any wastewater, which is discharged to YVWD's wastewater collection system.
- H. **Discharge Limitations:** The Discharge Limitation Tables on pages 4-5 contain limits for both federal and local limitations. The federal (Categorical) limits are for reference only, as this permit does not allow any categorical process to be discharged to YVWD's wastewater collection system without prior approval. Certain constituents may also contain daily and monthly average limitations.
- I. **Categorical Discharges:** *No categorical process discharges are allowed under this permit.* If an accidental or unauthorized discharge occurs it must be reported immediately to YVWD. A sample of the accidental or unauthorized discharge shall be collected and evaluated against the most stringent values listed in the Tables on pages 4-5. Additionally, if more than 1 sample is collected during a calendar month, each sample must comply with the daily maximum and the arithmetic mean of all collected samples will be compared against the monthly average. Please note, that if only one sample is collected in a calendar month, the single sample also represents the "monthly average" and will be evaluated against that limitation as well.



DISCHARGE LIMITATION TABLE (Categorical – Aluminum Casting)
Limits are informational only; there shall be no discharge from this area.

SAMPLE POINT (N/A) MAXIMUM ASSIGNED FLOW No Discharge	Categorical Limit 40CFR464.15(a) (PSES) Casting Cleaning (Lbs/10 ⁶ lbs of metal poured)		Categorical Limit 40CFR464.15(f) (PSES) Investment Casting (Lbs/10 ⁶ lbs of metal poured)	
	Pollutant	Daily Maximum	Monthly Average	Daily Maximum
Copper (Cu)	0.0771	0.0421	8.48	4.63
Lead (Pb)	0.0791	0.039	8.7	4.3
Zinc (Zn)	0.114	0.0431	12.6	4.74
Total Toxic Organics (TTOs)	-	-	18.1	5.91
Oil/Grease (Alternate Monitoring)	-	-	330	110

DISCHARGE LIMITATION TABLE (Categorical – Ferrous Casting)
Limits are informational only; there shall be no discharge from this area.

SAMPLE POINT (N/A) MAXIMUM ASSIGNED FLOW No Discharge	Categorical Limit 40CFR464.35(a) (2)(PSES) Casting Cleaning (Lbs/10 ⁶ lbs of metal poured)		Categorical Limit 40CFR464.35(e) (2) (PSES) Investment Casting (Lbs/10 ⁶ lbs of metal poured)	
	Pollutant	Daily Maximum	Monthly Average	Daily Maximum
Copper (Cu)	0.0129	0.0071	3.19	1.76
Lead (Pb)	0.0353	0.0174	8.7	4.3
Zinc (Zn)	0.656	0.025	16.2	6.17
Total Toxic Organics (TTOs)	-	-	13.2	4.3
Oil/Grease (Alternate Monitoring)	-	-	330	110



DISCHARGE LIMITATION TABLE

LOCAL LIMITATIONS SAMPLE POINT (001)	
Pollutant	Daily Maximum (mg/L)
Ammonia-Nitrogen	50
Arsenic (As)	1.9
Bis (2-Ethylhexyl) Phthalate	0.013
Biochemical Oxygen Demand –5 Day (BOD)	2500
Boron (B)	Water Supply + 1.0
Cadmium (Cd)	0.1
Chromium (Cr) (Total)	1.7
Copper (Cu) Total	0.7
Cyanide (CN), Total	0.3
Lead (Pb) – Total	0.2
Mercury (Hg)	0.01
Molybdenum (Mo)	0.7
Nickel (Ni)	2.3
Oil/Grease (Total)	500
Oil/Grease (Total Petroleum Hydrocarbons - TPH)	100
pH ¹	5.0-11.0 pH units
Selenium (Se) Total	0.1
Silver (Ag) Total	0.1
Sulfides Dissolved (SO ₃ ⁻)	0.1
Total Dissolved Solids (TDS) ²	Water Supply + 400
Total Suspended Solids (TSS)	2500
Total Toxic Organics	0.58
Zinc	7.2

1: pH equals the negative log of the hydrogen ion concentration (-log [H⁺]).

2: TDS limit is a "floating" or variable limit based upon an incremental amount over the potable water supply. The increment allowed over the potable concentration is 400 mg/L. Therefore, a potable sample must be taken at the same time as the wastewater sample for comparison purposes.

BOD and TSS limits shown is the maximum concentration allowed. YVWD reserves the right to place a surcharge fee on any concentration over 300 mg/L.



PART 2 - MONITORING REQUIREMENTS

A. General Monitoring Requirements: From the period beginning on the effective date of the permit until midnight on **September 19, 2014**, the permittee shall monitor the wastewater to be discharged to YVWD’s wastewater collection system at the indicated frequency, for the following pollutants at Sample Location¹ 001. **All annual monitoring shall be completed during the FIRST MONTH of the FOURTH QUARTER of the calendar year (October), to ensure meeting the reporting requirements.** YVWD may at its discretion collect samples of the domestic discharges from Skat-Trak to verify compliance with all permit limitations and conditions set forth in this permit.

POLLUTANT	FREQUENCY	SAMPLE TYPE
CATEGORICAL BATCH DISCHARGE (If Required)		
Copper (Cu)	Unscheduled - As Needed	Grab
Lead (Pb)	Unscheduled - As Needed	Grab
Zinc (Zn)	Unscheduled - As Needed	Grab
Total Toxic Organics (TTOs)	Unscheduled - As Needed	Grab
Oil/Grease (Alternate Monitoring)	Unscheduled - As Needed	Grab
SAMPLE LOCATION 001 MONITORING		
Flow (Batch 2,000 Gallons Approx.)		
Ammonia-Nitrogen	Annually	Grab
Biochemical Oxygen Demand (BOD)	Annually	Grab
Boron (B)	Annually	Grab
Cadmium (Cd)	Annually	Grab
Chromium (Total)	Annually	Grab
Copper (Cu)	Annually	Grab
Cyanide, Total (CN)	Annually	Grab
Lead (Pb)	Annually	Grab
Mercury (Hg)	Annually	Grab
Nickel (Ni)	Annually	Grab
Total Petroleum Hydrocarbons (TPH)	Annually	Grab
pH	Annually	Grab
Selenium (Se)	Annually	Grab
Silver (Ag)	Annually	Grab
Sulfide Dissolved (SO ₃)	Annually	
Total Dissolved Solids (TDS)	Annually	Grab
Total Suspended Solids (TSS)	Annually	Grab
Total Toxic Organics²	-	-
Zinc (Zn)	Annually	Grab

1. See Part 2-C, Sample Location (Page 7)



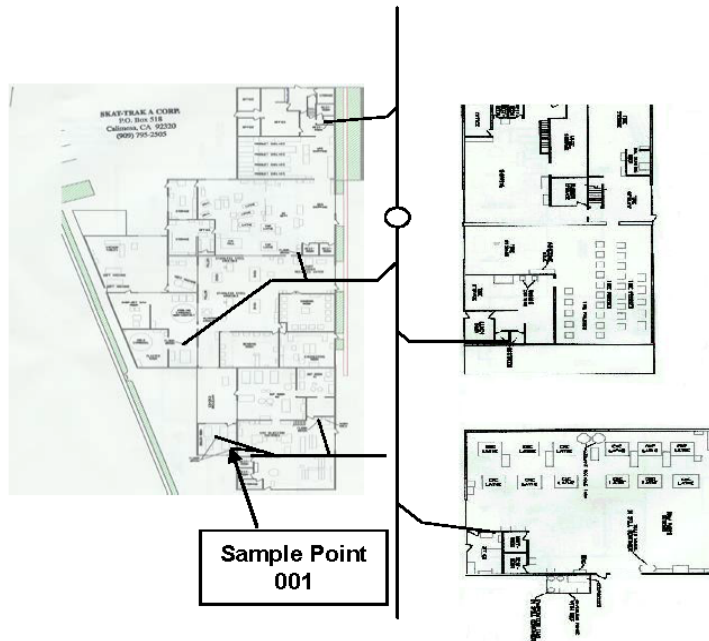
Skat-Trak Performance Products
 Wastewater Discharge Permit
 Number CP 003-03
 Page 7

2. Sampling may be waived in accordance with Part 1 – Discharge Requirements Section D and E of this Permit

B. Additional Monitoring Requirements: All handling and preservation of collected samples and laboratory analyses of samples shall be performed in accordance with **40 CFR, Part 136**, and amendments thereto unless specified otherwise in the monitoring conditions of this permit. **Annual self monitoring results shall be submitted prior to the last day of the SECOND MONTH of the FOURTH QUARTER (November).** A Self Monitoring Report Form shall accompany each submittal of sample Results. See Part 3 – Reporting for more details on the Self-Monitoring Report (SMR) form.

C. Monitoring Location: Self-Monitoring of industrial wastewater shall be conducted at the Sample Locations 001 (shown below). Compliance with all and Local limits in this permit will be determined at Sample Location 001 only.

**SKAT-TRAK PERFORMANCE PRODUCTS
 SAMPLE LOCATION**





PART 3 - REPORTING REQUIREMENTS

A. Permittee's Self-Monitoring Reports All required monitoring results shall be summarized and reported on YVWD's Dischargers Self Monitoring Report Form provided by YVWD. This report form shall indicate the compliance status and concentration and/or mass value of all pollutants in the wastewater for which sampling and analysis were performed. The Monitoring Report Form includes the following:

1. Certified Laboratory Report Signed Certified Statement Form
2. Signed Certified Statement Form

All applications, reports, or information submitted to YVWD must include a **Signed Certified Statement. (See Pg. 16, 4. Signatory Requirements)**

All required **Annual** monitoring reports shall be submitted to YVWD no later than the last day of the **Second Month of the Fourth Quarter of the Calendar Year (November)**. Failure to submit the required Reporting Forms shall result in the permitted being in violation of their Discharge Permit. Any incomplete monitoring result shall be returned to the permitted for completion. If the monitoring results are not submitted within 45 days of the due date, the permitted shall be considered in Significant Noncompliance (SNC) and a Notice of Violation (NOV) will be issued.

B. Automatic Re-sampling If the results of the permitted wastewater analysis indicate that a violation of this permit has occurred, the permitted must:

1. Inform YVWD of the violation by telephone within 24 hours of receiving the results of the analysis indicating a violation has occurred.
2. Repeat the sampling and constituent analysis and submit, in writing, the results of this repeat analysis within 30 days of the first violation.

C. Accidental Discharge Report The permittee shall notify YVWD immediately upon the occurrence of any accidental discharge of substances prohibited by YVWD's Sewer Use Ordinance or any upsets, bypass, slug loads or spills that occur at the facility identified in this permit and may enter the public sewer. During normal business hours the Yucaipa Valley Water District's Wochholz Regional Water Recycling Facility should be notified by telephone at **(909) 795-2491**. The notification shall include the location of the discharge, date and time of the discharge, and the type of waste, including concentration, volume and corrective actions taken. The permittee's notification of accidental discharges in accordance with this section does not relieve the permittee of other reporting requirements that arise under local, State, or Federal laws.

Within five days following an accidental discharge, the permitted shall submit to YVWD, a detailed written report. The report shall specify:

1. Description and cause of the accidental discharge and the impact of the incident on the permitted compliance status. The description should also include location of discharge, type, concentration and volume of waste.
2. Duration of noncompliance, including exact dates and times of noncompliance and the time when compliance is expected to be achieved.
3. All steps taken or to be taken to reduce, eliminate, and/or prevent recurrence



of such conditions of slug load, accidental discharge or other noncompliance events.

- D. Material Safety Data Sheets:** The permittee shall maintain copies of Material Safety Data Sheets (MSDS) for all chemicals used in association with the manufacturing process. If hazardous materials are used in the manufacturing process, secure storage with secondary containment must be provided for those materials. If the permittee generates substances listed as toxic under the permittee must follow Federal regulatory guidelines for the disposal of those substances. Secure storage with secondary containment must be provided with no possible access to the sewer. Storage of the wastes shall not exceed 90 days and transportation of the wastes shall be by a licensed carrier to a licensed disposal facility. Copies of all shipping manifests and disposal receipts for hazardous materials shipped offsite shall be available for YVWD to review.

E. Slug Discharge Control Plan (SDCP). Each permitted Industrial user who stores significant quantities of liquids in the vicinity of floor drains or other openings to YVWD's sewer system such that spillage of stored liquids could result in Slug Loading or in any provisions of YVWD's Sewer Use Ordinance shall submit a Slug Discharge Control Plan with YVWD. All Significant Industrial Users shall be evaluated for the need to develop a Slug Discharge Control Plan. The Plan shall contain at a minimum, the following elements:

1. Description of discharge practices, including non-routine batch discharges;
2. Description of stored chemical;
3. Procedures for immediately notifying WMWD of any accidental or slug discharge. Such notification must also be given for any discharge which would violate any of the standards set forth in YVWD's **Sewer Use Ordinance** and any local, state or federal regulations; and
4. Procedures to prevent adverse impact from any accidental or slug discharge. Such procedures include, but are not limited to inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic chemicals (including solvents), and/or measures and equipment for emergency response.

The Slug Discharge Control Plan shall be updated whenever changes occur in any of the addressed areas; chemicals are added or replaced; processes or plumbing are rerouted or changed; pretreatment facilities are modified or replaced; operations and/or maintenance procedures are modified; or personnel listed in the plan are replaced, changed, or removed.

During routine inspections, the Slug Discharge Control Plan shall be reviewed by the responsible party and either;

1. Updated and resubmitted, or
2. A written certification submitted stating that no change in the Slug Discharge Control Plan has occurred.



Skat-Trak Performance Products
Wastewater Discharge Permit
Number CP 003-03
Page 10

- E. Report Submittal:** All reports required by this permit shall be submitted to: **Yucaipa Valley Water District, P.O. Box 730, Yucaipa, CA 92399-0730, Attention: Environmental Control Department.**



PART 4- SPECIAL CONDITIONS

A. Reopener Clause

1. This permit may be reopened and modified to incorporate any new or revised requirement contained in a national categorical pretreatment standard promulgated for the industrial category covered by this permit.
2. This permit may be reopened and modified to incorporate any new or revised requirements resulting from YVWD's reevaluation of its local limits.
3. This permit may be reopened and modified to incorporate any new or revised requirements developed by YVWD as are necessary to ensure POTW compliance with applicable biomass management requirements promulgated by Federal Regulations in 40 CFR Part 503.

PART 5 - STANDARD CONDITIONS

A. General Conditions and Definitions

1. **Severability** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
2. **Duty to comply** The permittee must comply with all conditions of this permit. Failure to comply with the requirements of this permit may be grounds for administrative action or enforcement proceedings, including civil or criminal penalties, injunctive relief, and summary abatements.
3. **Duty to Mitigate**: The permittee shall take all reasonable steps to minimize or correct any adverse impact to the public treatment plant or the environment resulting from noncompliance with this permit.
4. **Permit Modification**: This permit may be modified for good cause including, but not limited to the following:
 - a. To incorporate any new or revised Federal, State or local pretreatment standards or requirements.
 - b. Material or substantial alterations or additions to the discharger's operation processes, or discharge volume or character which were not considered in drafting the effective permit.
 - c. A change in any condition in either the permitted or the POTW that requires either a temporary or permanent reduction or elimination of the authorized discharge.
 - d. Information indicating that the permittee's discharge poses a threat to YVWD's collection and treatment systems, POTW personnel or the receiving waters.
 - e. To correct typographical or other errors in the permit.



- f. Upon request of the permittee, provided such request does not create a violation of any applicable requirements, standards, laws or rules and regulations.

The filing of a request by the permitted for a permit modification, revocation, and reissuance or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

5. **Permit Termination** This permit may be terminated for the following reasons:

- a. Falsifying self-monitoring reports.
- b. Tampering with monitoring equipment.
- c. Refusing to allow timely access to the facility premises and records.
- d. Failure to meet discharge limitations.
- e. Violation of any terms or conditions of this permit.
- f. Failure to pay fines or permit fees.
- g. Failure to pay sewer charges.

6. **Permit Appeals:** The permittee may petition to appeal the terms of this permit within ten (10) days of issue date.

The petition must be in writing, sent certified mail, return receipt requested. Failure to submit a petition for review shall be deemed to be a waiver of that appeal. If an appeal is submitted, the permitted must indicate in the appeal, the permit provisions objected to, the reasons for the objection(s), and the alternative condition(s), if any, the permitted seeks to be placed in the permit.

If the Board of Directors of YVWD consents to consider an appeal by the permittee, the effectiveness of this permit shall not be stayed during the appeal process. If after considering the petition and any arguments put forth by the General Manager, the Board determines that reconsideration of this permit is proper; the Board shall remand the permit back to the General Manager for reissuance. Those permit provisions being reconsidered by the General Manager at the direction of the Board shall be stayed pending reissuance of the permit.

A decision by YVWD's Board of Directors that refuses to reconsider an issued permit shall be considered final administrative action for purposes of judicial review. The permittee seeking judicial review of a final action by the Board must do so by filing a complaint in the Superior Court of the Counties of Riverside or San Bernardino within thirty (30) days.

7. **Property Rights** The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any violation of Federal, State, or local laws or regulations.
8. **Permit Transfers:** Permits may not be reassigned or transferred to a new owner or operator. Upon transfer of ownership, written notice to YVWD must be provided, and a new permit application submitted by the new owner to YVWD at least 60 days prior to transfer of ownership.
9. **Continuation of Expired Permits** An expired permit will continue to be



effective and enforceable until a new permit is issued if:

- a. The permittee has submitted a complete permit application at least ninety (90) days prior to the expiration date of the existing permit.
 - b. The failure to reissue the permit, prior to the expiration of the previous permit, is not due to any act or failure to act on the part of the permitted.
10. **Dilution** The permittee shall not increase the use of potable or process water or, in any way; attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.
11. **Definitions:**
- a. **Daily Maximum** - The maximum allowable discharge of a constituent during a calendar day where daily limits are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where daily maximum limitations are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the constituent concentration derived from all measurements taken during that day.
 - b. **Composite Sample** - A sample that is collected over time formed by either continuous sampling or by mixing discrete samples. The samples can either be a time composite or a flow proportional composite sample.
 - c. **Grab Sample** - An individual sample collected in less than 15 minutes, without regard for flow or time.
 - d. **Instantaneous Maximum Concentration** - The maximum concentration allowed in any single grab sample.
 - e. **Cooling Water** - (1) Uncontaminated: Water used for cooling purposes only which has no direct contact with any raw material, intermediate, or final product and which does not contain a level of contaminants detectably higher than that of the intake water. (2) Contaminated: Water used for cooling purposes only which may become contaminated either through the addition of water treatment chemicals used for corrosion inhibitors or biocides, or by direct contact with process materials and/or wastewater.
 - f. **Monthly Average** - The arithmetic mean of the values for effluent samples collected during a calendar month or specified 30-day period (as opposed to a rolling 30 day Window).
 - g. **Weekly Average** - The arithmetic mean of the values for effluent samples collected over a period of seven consecutive days.
 - h. **Bi-Weekly** - Once every other week
 - i. **Bi-Monthly** - Once every other month
 - j. **Bi-annually** - Once every other year
 - k. **Semi-annually** - Once every six months
 - l. **Bypass** - Means the intentional diversion of waste streams from any



portion of a treatment facility:

- m. **Upset** - Means an exceptional incident in which there is unintentional and temporary noncompliance with categorical Pretreatment standards because of factors beyond the reasonable control of the Industrial User.

12. **General Prohibitive Standards:** The permittee shall comply with all the general prohibitive discharge standards in Federal regulations namely the permittee shall not discharge wastewater to the YVWD's wastewater collection system:

- a. Having a temperature higher than 104 degrees F. (40 degrees C.);
- b. Containing more than 100 PPM by weight of fats, oils, and grease;
- c. Containing any gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquids, solids, or gases; and in no case substances with a closed cup flashpoint of less than one hundred forty degrees F. (60 degrees C.);
- d. Containing any garbage that has not been ground by household type or other suitable garbage grinders;
- e. Containing any ashes, cinders, sand, mud, straw, shavings, metal, glass, feathers, tar, plastics, wood, paunch manure, or any other solids or viscous substances capable of causing obstructions or other interference with proper operation of the wastewater collection system;
- f. Having a pH lower than 5.0 or higher than 12.5, or having any other corrosive property capable of causing damage or hazards to structures, equipment or personnel of the wastewater collection system;
- g. Containing toxic or poisonous substances in sufficient quantity to injure or to interfere with any wastewater treatment process, to constitute hazards to humans or animals, or to create any hazard in receiving waters for the effluent from the treatment plant. Toxic wastes shall include, but are not limited to wastes containing cyanide, chromium, cadmium, mercury, copper, and nickel ions;
- h. Containing noxious or malodorous gases or substances capable of creating a public nuisance; including pollutants which result in the presence of toxic gases, vapors, or fumes;
- i. Containing solids of such character and quantity that special and unusual attention is required for their handling;
- j. Containing any substance which may affect the treatment plant's effluent and cause violation of NPDES Permit requirements;
- k. Containing any substance which would cause the treatment plant to be in noncompliance with sludge use, recycle or disposal criteria pursuant to guidelines or regulations developed under the Clean Water Act, the Solid Waste Disposal Act, the Clean Air Act, the Toxic Substance Control Act or other regulations or criteria for sludge management and disposal as required by the State.
- l. Containing color which is not removed in the treatment process;
- m. Containing any medical or infectious wastes;
- n. Containing any radioactive wastes or isotopes; or
- o. Containing any pollutant including BOD pollutants released at a flow rate and/or concentration that would cause interference with the



treatment plant operation.

B. Operation and Maintenance of Pollution Controls

1. **Proper Operation and Maintenance** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes but is not limited to: effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate QA procedures.
2. **Duty to halt or Reduce Activity** Upon reduction of efficiency of operation, or loss or failure of all or part of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with this permit, control its production or discharges (or both) until operation of the treatment facility is restored or an alternative method of treatment is provided. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity, in order to maintain compliance with the conditions of this permit.
3. **Removed Substances** Solids, sludge's, filter backwash, or other substances removed in the course of treatment or control of wastewaters shall not be disposed of in the sewer. They shall be disposed of in accordance with **Section 405 of the Clean Water Act, Subtitles C and D of the Resource Conservation and Recovery Act.**

C. Monitoring and Records

1. **Representative Sampling** Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified before the effluent joins or is diluted by any other waste stream, body of water or substance. All equipment used for sampling and analysis must be routinely calibrated, inspected and maintained to ensure the accuracy of that equipment. Monitoring points shall not be changed without notification to and the approval of YVWD.
2. **Flow Measurements** Flow measurement is required by this permit. The appropriate flow measurement devices and methods consistent with approved scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10 per cent from true discharge rates throughout the range of expected discharge volumes.
3. **Analytical Methods:** All sampling and analysis required by this permit shall be performed in accordance with **40CFR Part 136** and amendments thereto, unless otherwise approved by EPA, or as specified in this permit
4. **Additional Monitoring** If the permittee monitors any constituent more frequently than required by this permit, using test procedures identified above



in section C 3, the results of this monitoring shall be included in the permitted self monitoring reports.

5. **Inspection and Entry** The permittee shall allow YVWD, or an authorized representative, upon request, reasonable access to:

- a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- c. Inspect, at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.
- d. Sample or monitor, for the purpose of assuring permit compliance, any substances or parameters at any location.

6. **Retention of Records**

- a. The permittee shall retain records of all monitoring information, including copies of all reports required by this permit. Records of all data including strip chart recordings and all information used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of YVWD at anytime.
- b. All records that pertain to matters that are the subject of special orders or any other enforcement, or litigation activities brought by YVWD, shall be retained and preserved by the permittee until all enforcement activities have concluded, and all periods of limitation with respect to any and all appeals have expired.

7. **Record Contents** Records of sampling and analysis shall include:

- a. The date, exact place, time, and methods of sampling or measurements, and sample preservation techniques or procedures;
- b. The name of person or persons who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The name of the analytical laboratory and person who performed the analyses;
- e. The analytical methods used; and
- f. Copies of the results (lab reports) of the analyses.

8. **Falsifying Information** Knowingly making any false statement on any report or other document required by this permit or knowingly rendering any monitoring device or method inaccurate, is a crime and may result in the imposition of criminal sanctions and/or civil penalties.

D. **Additional Reporting Requirements**

1. **Anticipated Noncompliance:** The permittee shall give advance notice to YVWD of any planned changes in the permitted facility or activity, which may result in noncompliance with permit requirements.



2. **Automatic Re-sampling** If the results of the permitted wastewater analysis indicate a violation has occurred, the permittee must notify YVWD within 24 hours of becoming aware of the violation and repeat the sampling and analysis and submit, in writing, the results of this repeat analysis within 30 days after becoming aware of the original violation.
3. **Duty to provide Information** The permittee shall furnish to YVWD, within three (3) working days any information which YVWD may request to determine whether cause exists for modifying, revoking and reissuing, or terminating, or determining compliance with this permit. The permittee shall also, upon request, furnish to YVWD within three (3) working days copies of any records required to be kept by this permit.
4. **Signatory Requirements** All applications, reports, or information submitted to YVWD must contain the following certification statement, and be signed as required in Sections (a), (b), or (c) below:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations".

- a. By a responsible corporate officer, if the permittee submitting the report is a corporation. For the purpose of this paragraph, a responsible corporate officer means:
 - i. A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any person who performs similar policy or decision making functions for the corporation, or
 - ii. The manager if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- b. By a general partner or proprietor if the permitted submitting the reports is a partnership or sole proprietorship respectively.
- c. By a duly authorized representative if;
 - i. The authorization is made in writing by the individual described in paragraph (a) or (b).
 - ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the discharge originates, or having overall responsibility for environmental matters for the discharger.
 - iii. The written authorization is submitted to YVWD.



- d. If an authorization under paragraph (a), (b), or (c) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the permitted, a new authorization satisfying the requirements of paragraph (c) of this section must be submitted to YVWD prior to or together with any reports to be signed by an authorized representative.
5. **Annual Publication** The names of all Industrial Users which are found to be in significant noncompliance with YVWD's **Sewer Use Ordinance** shall be published at least annually in the largest daily circulating newspaper within the jurisdiction of YVWD in which the Industrial User is located.
6. **Civil and Criminal Liability** Nothing in this permit shall be construed to relieve the permittee from civil and/or criminal penalties for noncompliance under or State or Federal laws or regulations.
7. **Penalties for Violations of Permit Conditions:** YVWD's **Sewer Use Ordinance** provides that any person who violates a permit condition may be subject to a civil penalty of up to \$25,000.00 per day for each violation.
8. **Recovery of Costs Incurred:** In addition to civil and criminal liability, the permittee who violates any provision of this permit resulting in damage to or otherwise inhibiting YVWD's wastewater collection system, shall be liable to YVWD for any expense, loss, or damage caused by the violation or discharge. YVWD shall bill the permittee for the costs incurred by YVWD for any cleaning, repair, or replacement work caused by the non-compliance. The reimbursement shall also include any fines or penalties levied against YVWD resulting from the violation or discharge. Refusal to pay the assessed costs shall constitute a separate violation of YVWD's **Sewer Use Ordinance**.
- E. Enforcement**
1. **Notice of Violation:** Any permittee found to be in violation of any permit condition, discharge requirement, reporting requirement, or any provision of YVWD's **Sewer Use Ordinance** may be issued a written Notice of Violation. The Notice shall state the nature of the violation and the penalties for continued non-compliance. If required by the notice, the violator shall submit to YVWD, within a prescribed period specified in the notice, a plan of return to full compliance pursuant to YVWD's **Sewer Use Ordinance**.
2. **Administrative Complaint:** The Manager may issue an Administrative Complaint to any user who violates any permit condition or requirement, a Notice of Violation or any section of YVWD's **Sewer Use Ordinance**.
- a. The Administrative Complaint shall allege the act or failure to act that constitutes the violation, the provisions of law authorizing the imposition of Civil Liability, and the Civil Penalty proposed.
- b. The Administrative Complaint shall be served by personal delivery or certified mail and shall give notice to the recipient of a hearing to be conducted within sixty (60) days from the date of service.
3. **Administrative Hearing:** The Hearing shall be before a hearing officer designated by the Board of Directors of YVWD.



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- a. The defendant of an Administrative Complaint may waive the right to a hearing, in which case no hearing shall be held.
- b. A defendant in an Administrative Hearing wishing to appeal a decision of the Hearing Officer may do so to the Board of Directors of YVWD within thirty (30) days of notice of the Hearing Officer's decision.
- c. If after a hearing or appeal, if any, it is found in fact there has been a violation of reporting requirements, discharge requirements, the Hearing Officer or the Board or Directors may assess a Civil Penalty against the defendant.
- d. In determining the amount of a Civil Penalty, the Hearing Officer or Board of Directors may consider all relevant circumstances including, but not limited to, the extent of harm caused by the violation, the economic benefit derived through any non-compliance, the nature and persistence of the violation, and the corrective actions, if any, attempted or taken by the discharger.

4. **Civil Penalties:**

- a. Fines not to exceed \$2,000.00 for each day of failure or refusal to furnish technical or self-monitoring reports, [**Government Code, Section 54740.5(d)(1)**];
- b. Fines not exceeding \$3,000.00 for each day for failure or refusal to timely comply with any compliance schedule established by YVWD, [**Government Code, Section 54740.5(d)(2)**];
- c. Fines not to exceed \$5,000.00 per violation for each day for discharges in violation of any discharge limitation, permit condition, or requirement issued, reissued or adopted by YVWD, [**Government Code, Section 54740.5(d)(3)**];
- d. Fines not exceeding \$10.00 per gallon for discharges in violation of any suspension, cease and desist order, other orders or prohibitions issued, reissued or adopted by the Manager of YVWD, [**Government Code, Section 54740.5(d)(4)**].
- e. Unless appealed, orders setting administrative Civil Penalties shall become effective and final upon issuance thereof, and payment shall be made within thirty (30) days. Copies of the orders shall be served by personal service or by registered mail upon the parties served with the Administrative Complaint and to other persons who appeared at the hearing and requested a copy.
- f. All monies collected under these penalties shall be deposited in a special account of YVWD and shall be made available for the monitoring, treatment and control of harmful discharges into the POTW or for other mitigation measures.
- g. The amount of any Civil Fines imposed as a result of the Administrative Hearing process, which remain delinquent for a period of sixty (60) days, shall have the effect and priority of a judgment lien and continue for ten (10) years from the time of recording unless sooner released, and shall be renewable in accordance with the provisions of Sections 683.110 to 683.220, inclusive, of the Code of Civil Procedure



5. **Judicial Review:** YVWD's Sewer Use Ordinance.
6. **Emergency Termination of Service:**
7. **Supplemental Enforcement Actions:**
8. **Remedies Non-exclusive:** The remedies provided for in this section are not exclusive. YVWD may take any, all, or any combination of these actions against the non-compliant user. Enforcement of industrial waste discharge limit violations, other permit conditions, sampling requirements or self-monitoring reporting, will generally be in accordance with YVWD's Enforcement Response Plan. However, the Manager may take other action against any user when the circumstances warrant. Further, the Manager is empowered to take more than one enforcement action against any non-compliant user.
9. **Criminal Penalties:**
 - a. A user who willfully or negligently violates any provision of a discharge permit, or any other pretreatment standard or requirement shall, upon conviction, be guilty of a misdemeanor, punishable by a fine of not to exceed One Thousand Dollars (\$1,000.00) per violation, per day or imprisonment for not more than six months, or both for each violation per day.
 - b. Any user who knowingly makes any false statements, representations or certifications in any application, record, report, plan or other documentation filed or required to be maintained pursuant to a discharge permit, or falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under that permit shall, upon conviction, be guilty of a misdemeanor, punishable by a fine of not to exceed One Thousand Dollars (\$1,000.00) per violation, per day or imprisonment for not more than six months, or both for each violation per day.
 - c. Payment of any penalty required in this section shall not relieve a user from responsibility for correcting the violation and reimbursing YVWD for all costs and expenses associated with all corrections including any fines and/or penalties incurred by YVWD a result of the violation.



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PART 6 - COMPLIANCE TIME SCHEDULES

- A. Compliance Time Schedule Progress Reports** When required, Compliance Time Schedule progress reports shall be submitted at a minimum frequency of every 30 days until compliance with discharge requirements or YVWD's Sewer Use Ordinance are obtained. These reports shall contain dates for pretreatment equipment design completion, building permit submittal date, construction starting date, construction updates, construction completion date, employee training completion date, date of achieving final compliance, and/or any other required information. Samples may be required to be collected to demonstrate compliance. The samples shall be collected in accordance with the requirements of this permit.
- B. Compliance Schedule Reporting.** No later than on the respective compliance schedule dates, the permitted shall submit to YVWD a report including, at a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with the increment of progress, the reasons for delay, and the steps being taken to return the project to the schedule established. In no case shall any milestone in the compliance schedule exceed nine months.
- C. Reports of Progress.**
1. Skat-Trak Performance Products shall submit to YVWD later than the 15th of each month if required, a written Report of Progress. The Report of Progress shall state the probability of Skat-Trak Performance Products completing the work required for the upcoming compliance date.
 2. If a Compliance Time Schedule milestone date cannot be met, Skat-Trak Performance Products shall notify YVWD **in Writing and Prior** to the expiration of the Compliance Time Schedule date to request an extension. The extension request shall describe the reason(s) for Skat-Trak Performance Product's failure to comply and the additional amount of time required to complete the remaining work. Compliance Time Schedule date extensions will be granted at the reasonable discretion of YVWD.