APPENDICES

APPENDIX A

WATER ANALYSIS

CLIENT:	Sandoval County			Clie	nt Sample ID:	EW6-	1
Lab Order:	0711344			Co	llection Date:	11/20/	/2007 4:30:00 PM
Project:	Exp Well 6			D	ate Received:	11/21/	/2007
Lab ID:	0711344-01	i			Matrix:	AQUI	EOUS
Analyses	,	Result	PQL	Qual U	nits	DF	Date Analyzed
EPA METHOD	8021B: VOLATILES					•	Analyst: NSB
Methyl tert-buty	l ether (MTBE)	ND	2.5	۲g	/L	1	11/29/2007 12:16:54 AM
Benzene		ND	1.0	μg	/L	1	11/29/2007 12:16:54 AM
Toluene		ND	1.0	۲g	/L	1	11/29/2007 12:16:54 AM
Ethylbenzene		ND	1.0	μg	/L	1	11/29/2007 12:16:54 AM
Xylenes, Total		ND	2.0	þg	/L	1	11/29/2007 12:16:54 AM
1,2,4 Trimethylt	benzene	ND	1.0	μg	/L	1	11/29/2007 12:16:54 AM
1,3,5-Trimethylt	benzene	ND	1.0	hð	/L	1	11/29/2007 12:16:54 AM
Surr: 4-Brom	ofluorobenzene	80.0	70.2-105	%	REC	1	11/29/2007 12:16:54 AM
DISSOLVED G	AS BY HEADSPACE (R	SK175)					Analyst: LMM
Methane	•••••••••••••••••••••••••••••••••••••••	ND	1.0	μg	/L	1	11/27/2007 9:05:11 AM
Ethene		ND	2.0	μg	/L	1	11/27/2007 9:05:11 AM
Ethane		ND	2.0	. ha	/L	1	11/27/2007 9:05:11 AM
	300 D- ANIONS						Anaivst: KS
Finorida		48	10	m	s/l_	10	11/21/2007 4:59:40 PM
Chloride		3100	10	m	5/L 3/1	100	12/9/2007 1:01:53 PM
Nitrato (Ap Ni)+N	Nitrito (Ao N)		20		,,⊂ n/l	10	12/9/2007 6:32:41 PM
Sulfate		4400	50	mį	;/L	100	12/9/2007 1:01:53 PM
							Analyst: TES
Hardness (As C	aCO3)	1500	1.0	mç	J/L	1	11/27/2007
							Analyst: SLB
Mercury		ND	0.00020	mg	μ/L.	1	11/28/2007 3:07:45 PM
		TALS					Analvst: TES
		ND	0.020	m	1/1	1	11/27/2007 12:48:59 PM
Barlum		0.039	0.020	mo	y = 1/1	1	11/27/2007 12:48:59 PM
Bendiium		0.0067	0 0030	ma	y- 1/L	1	11/27/2007 12:48:59 PM
Boron		8.0007	20	m	₽ - 1/1	50	11/27/2007 1:43:21 PM
Codmium			0 0020	m	,, <u> </u>	1	11/27/2007 12:48:59 PM
Calcium		450	5.0		y = y/l	5	11/27/2007 12:55:59 PM
Chromium			0.00	mo	,, ⊢ •/I	1	11/27/2007 12:48:59 PM
Cobell			0.0000		9' - n/l	1	11/27/2007 12:48:59 PM
Conner			0.0000	m	r	. 1	11/27/2007 12:48:59 PM
Joon		טאי 2 פ	0.0000	105	p	5	11/27/2007 12:55:59 PM
lood		0.073	0.10		р њ 1/1	1	11/27/2007 12:48:59 PM
Magnasium		0.0073	1.0000	1115	pr	1	11/27/2007 12:48:59 PM
Mongorooo		۳ ۵ ۸۹۸ ۸	0.1		p=	1	11/27/2007 12:48:59 PM
Wanganese Detective		0.004	U.UUZU E A		yr e 1/1	י ג	11/27/2007 12-40.00 PM
FOIASSIUM		140	0.0		r- A	5	11/27/2007 12:00:00 PM
SIICA	•	JU	0.00		,	<u> </u>	

Hall Environmental Analysis Laboratory, Inc.

Date: 21-Dec-07

Value above quantitation range Е J

Analyte detected below quantitation limits Not Detected at the Reporting Limit

ND

S Spike recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 1 of 3

Lab Order: 0711344 Collection Date: 11/20/2007 4: Project: Exp Well 6 Date Received: 11/21/2007 Lab ID: 0711344-01 Matrix: AQUEOUS Analyses Result PQL Qual Units DF Date EPA METHOD 6010B: DISSOLVED METALS Silicon 14 0.40 mg/L 5 11/27/ Silicon 14 0.40 mg/L 50 11/27/ Silicon 14 0.40 mg/L 50 11/27/ Silicon 14 0.40 mg/L 50 11/27/ Sodium 3500 50 mg/L 50 11/27/ Strontium 8.9 <	30:00 PM
Project:Exp Well 6Date Received:11/21/2007Lab ID:0711344-01Matrix:AQUEOUSAnalysesResultPQLQualUnitsDFDate Received:11/21/2007AnalysesResultPQLQualUnitsEPA METHOD 6010B:DISSOLVED METALSSilicon140.40mg/LSiliverND0.0050mg/L1Sodium350050mg/L5011/27/Strontium8.90.30mg/L5011/29/	Analyzed
Lab ID: 0711344-01 Matrix: AQUEOUS Analyses Result PQL Qual Units DF Date EPA METHOD 6010B: DISSOLVED METALS 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 5 1 1 11/27/ 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <	e Analyzed
Analyses Result PQL Qual Units DF Data EPA METHOD 6010B: DISSOLVED METALS 5 11/27/ 5 11/27/ 5 11/27/ 5 11/27/ 1 11/27/ 1 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/ 50 11/27/	e Analyzed
EPA METHOD 6010B: DISSOLVED METALS Silicon 14 0.40 mg/L 5 11/27/ Silver ND 0.0050 mg/L 1 11/27/ Sodium 3500 50 mg/L 50 11/27/ Strontium 8.9 0.30 mg/L 50 11/29/	
Silicon 14 0.40 mg/L 5 11/27/ Silver ND 0.0050 mg/L 1 11/27/ Sodium 3500 50 mg/L 50 11/27/ Strontium 8.9 0.30 mg/L 50 11/27/	Analyst: TES
Silver ND 0.0050 mg/L 1 11/27/ Sodium 3500 50 mg/L 50 11/27/ Strontium 8.9 0.30 mg/L 50 11/29/	2007 12:55:59 Pl
Sodium 3500 50 mg/L 50 11/27/ Strontium 8.9 0.30 mg/L 50 11/29/	2007 12:48:59 Pi
Strontium 8.9 0.30 mg/L 50 11/29.	2007 1:43:21 PM
	2007 5:20:11 PM
Vanadium ND 0.050 M0/L 1 11/27/	2007 12:48:59 Pl
Zinc 0.19 0.050 mg/L 1 11/27/	2007 12:48:59 Pl
PA 6010B. TOTAL RECOVERABLE METALS	Analyst: TES
Atuminum ND 0.020 mg/L 1 12/4/2	007 2:49:35 PM
Berlum 0.036 0.010 mg/L 1 12/4/2	007 2:49:35 PM
Bervillum 0.0061 0.0030 mg/l. 1 12/4/2	007 2:49:35 PM
Boron 97 0.40 mg/l 10 12/13:	2007 10:17:08 A
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	007 2:49:35 PM
Coloium (50 10 mg/l 20 12/7/2	007 2.12.01 PM
Calcium 450 10 mg/L 20 12/12	007 2:49:35 PM
	007 2.40.35 DM
	007 2:40:35 DM
	007 2:48:00 F M
Iron 3.3 1.0 mg/L 20 12/1/2	007 2.12.01 FW
	007 2.49.35 PM
Magnesium 97 0.50 mg/L 1 12/4/2	007 2.48.35 PW
Manganese 0.078 0.0020 mg/L 1 12/4/2	007 2:49:55 PW
Potassium 130 20 mg/L 20 12/12	007 2.12.01 FW
Silicon 15 5.0 mg/L 10 12/13/	2007 10:17:00 A
Silver ND 0.0050 mg/L 1 12/4/2	007 2:49:35 PIVI
Sodium 3600 25 mg/L 50 12///2	007 2:16:10 PW
Strontium 8.8 0.50 mg/L 50 12/10/	2007 3:00:09 Pivi
Vanadium ND 0.050 mg/L 1 12/4/2	UU7 2:49:35 PM
Zinc 0.12 0.020 mg/L 1 12/4/2	UU7 2:49:35 PM
Silica 32 11 mg/L 10 12/13/	2007 10:17:08 AF
310C: TOC	Analyst: SLB
Organic Carbon, Total 1.2 1.0 mg/L 1 11/29/	2007
M 2320B: ALKALINITY	Analyst: LMN
Alkalinity, Total (As CaCO3) 1800 20 mg/L CaCO3 1 11/27/	2007
Carbonate ND 2.0 mg/L CaCO3 1 11/27/	2007
Bicarbonate 1800 20 mg/L CaCO3 1 11/27/	2007
OTAL CARBON DIOXIDE CALCULATION	Analyst: LMN 2007
M 4500-NH3: AMMONIA	Analyst: KS
Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated M	lethod Blank
E Value above quantitation range H Holding times for preparation or and	lysis exceeded
J Analyte detected below quantitation limits MCL Maximum Contaminant Level	
ND Not Detected at the Reporting Limit RL Reporting Limit	N
S Spike recovery outside accepted recovery limits	Page 2

Hall Environmental Analysis Laboratory, Inc.

Date: 21-Dec-07

Hall Environmental Analysis Laboratory, Inc.

Date: 21-Dec-07

CLIENT:	JENT: Sandoval County Client Sample ID			EW6-1				
Lab Order:	0711344		Collection Date:			11/20/2007 4:30:00 PM		
Project:	Exp Well 6			Date Received:	11/21	/2007		
Lab ID:	0711344-01			Matrix:	AQU	EOUS		
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed		
SM 4500-NH3: Ammonia	AMMONIA	0.70	0.50	mg/L	1	Analyst: KS 12/12/2007		
SM4500-P B: F	PHOSPHOROUS					Analyst: TES		

Phosphorus, Total (As P)	0.29	0.050	mg/L	1	12/4/2007
SM 2540C: TDS					Analyst: TAF
Total Dissolved Solids	12000	20	mg/L	1	11/27/2007
SM 2540D: TSS					Analyst: TAF
Suspended Solids	ND	10	mg/L	1	11/26/2007
EPA METHOD 180.1: TURBIDITY					Anaiyst: TAF
Turbidity	13	0.50	NTU	1	11/21/2007

Qualifiers:

Ε Value above quantitation range

- J Analyte detected below quantitation limits
- Not Detected at the Reporting Limit ND
- Spike recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- **Reporting Limit** RL

LABORATORY ANALYTICAL REPORT

Client:	Hall Environmental
Project:	0711344
Lab ID:	C07111273-001
Client Sample ID:	EW6-1

Report Date: 12/17/07 Collection Date: 11/20/07 16:30 DateReceived: 11/30/07 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							· · · · · · · · · · · · · · · · · · ·
Conductivity	17900	umhos/cm		1.0		A2510 B	12/03/07 10:39 / rw
Salinity	10.4	unitless		0.100		Calculation	12/14/07 16:48 / sec

 Report
 RL - Analyte reporting limit.

 Definitions:
 QCL - Quality control limit.

MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

	Explanation of codes
B	Analyte Detected in Method Blank
E	Result is Estimated
Н	Analyzed Out of Hold Time
N	Tentatively Identified Compound
S	Subcontracted
1-9	See Footnote

STANDARD

HALL ENVIRONMENTAL attn ANDY FREEMAN 4901 HAWKINS NE, SUITE D ALBUQUERQUE NM 87109-4372

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				Assaigai Analy	rtical Laboratories, in	C.					
			(Certificat	e of Analys	sis					
		All sampl	les are report	ed on an "as receive	ad" basis, uniess otherwise	e noted (l.e	Dry Weightj	l.			
Client:	HALL ENVIRONM	IENTAL									
Project:	0711344							•			
Order:	07110681 HAL	03	Receipt:	11-21-07	William I	P. Blava: Presi	dent of Assaig	ei Analytical Lab	oratories, li	72.	
Sample:	0711344-01K EW	6-1			Collected: 11-20	-07 18:30:	00 By:	<u></u>			
Matrix:	AQUEOUS					•					
							Dilution	Detection		Prep	Run
QC Group	Run Sequence	CAS #		Anaiyte	Result	Units	Factor	Limit	Code	Date	Date
07110681-	001A	SM 2120B			· · · · · · · · · · · · · · · · · · ·			By:	· MJN		
WCOLOR-0	7-085 WC.2007.2997.4			Color	100	APHA	1	5		11-21-07	11-21-07

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, is result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

LABORATORY ANALYTICAL REPORT

Hall Environmental
0711344
C07111060-001
EW6-1

Report Date: 12/21/07 Collection Date: 11/20/07 16:30 DateReceived: 11/27/07 Matrix: Aquecus

Analucaa	Popult	Itnita	Qualifiara	BI	MCL/	Mathod	Analysis Date / By
	nosun		444111070				
METALS - DISSOLVED							· .
Antimony	ND	mg/L	(0.001		SW6020	12/19/07 23:23 / sml
Arsenic	0.640	mg/L	(0.001		SW6020	12/19/07 23:23 / sml
Selenium	ND	mg/L	(0.001		SW6020	12/19/07 23:23 / sml
Thallium	0.002	mg/L	(0.001		SW6020	12/19/07 23:23 / sml
Uranium	0.002	mg/L	(0.001		SW6020	12/19/07 23:23 / sml
METALS - TOTAL							
Antimony	ND	mg/L	(0.001		SW8020	12/19/07 22:16 / sml
Arsenic	0.634	mg/L	(0.001		SW6020	12/19/07 22:16 / sml
Selenium	ND	mg/L	(0.001		SW6020	12/19/07 22:16 / sml
Thallium	0.007	mg/L	(0.001		SW6020	12/19/07 22:16 / sml
Uranium	0.002	mg/L	(0.001		SW6020	12/19/07 22:16 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	209	pCI/L		1.0		E900.0	12/13/07 20:36 / crw
Gross Alpha precision (±)	14.8	pCI/L				E900.0	12/13/07 20:38 / crw
Gross Beta	166	pCi/L		2.0		E900.0	12/13/07 20:38 / crw
Gross Beta precision (±)	30.0	pCI/L				E900.0	12/13/07 20:36 / crw
Radium 226	35.9	pCI/L		0.2		E903.0	12/11/07 14:43 / taj
Radium 226 precision (±)	2.2	pCi/L				E903.0	12/11/07 14:43 / taj
Radium 228	49.1	pCI/L		1.0		RA-05	12/05/07 09:44 / pij
Radium 228 precision (±)	1.9	pCI/L				RA-05	12/05/07 09:44 / pij

 Report
 RL - Analyte reporting limit.

 Definitions:
 QCL - Quality control limit.

APPENDIX B

PROCESS FLOW DIAGRAM



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APPENDIX D

CO-GENERATION PLANT

Co-Generation Plant

The design phase of the proposed water treatment plant (WTP) will include the identification of the critical elements supporting the permitting, design, installation and operations of the proposed co-generation facility. The requirements and supporting economics for the co-gen facility are driven by the energy requirements for the water treatment plant and the energy support for future county development projects.

Phase I Ten mega-watts of installed electrical generation capacity with waste heat conversion

The phase I installation would include (1) 10 mega-watt, natural gas fired, aeroderivative, gas turbine coupled to a poly phase AC induction generator. The collected exhaust from the engine's power turbine would be ducted to a waste heat exchanger. Waste heat would be converted to un-saturated 150 psi process steam. The energy equivalent of the converted waste heat would equal 3.5 mega-watts of energy.

The electrical and process heat requirements for the proposed WTP will leave seven (7) mega-watts of electrical energy that could be sold into the local power distribution grid. The proposed point of interconnection would be the new Rio Puerco Substation operated by Public Service Company of New Mexico. The substation and proposed interconnection is located 4.5 miles NE of the proposed WTP site.

Sandoval County's water department could form a utility district for the provision of establishing a power purchasing agreement (PPA) with the municipality of Rio Rancho. The electrical energy would be used to reduce the peak demand pricing for commercial accounts in Rio Rancho. This provision would also allow the water district to own the poles and wires required to transport the generated energy to the point of interconnection. This is an essential part of the reliability plan for the WTP. In case of an outage, planned or unplanned the electrical tie could be used to back-up the co-gen facility. The back-up could be set up on net-net exchange that would allow the WTP to replace the energy used during the outage on a timed repayment.

Market Price for demand leveling:	.1416 \$/kW/hr
Cost of generation:	.0608 \$/kW/hr (based on \$8/mmbtu gas)
Margin on electrical energy:	.04 \$/metered kW/hr
Capital Requirements:	\$3,500 per installed kW (\$35,000,000)

The net financial gain to the water utility is \$875,000 annually plus the offsetting cost of electrical service to the water facilities.

APPENDIX E

LONG TERM WATER SUPPLY PLAN



INTERA Incorporated 6000 Uptown Blvd, NE Suite 100 Albuquerque, NM 87110 Telephone: (505) 246-1600 Fax: (505) 246-2600

To: Mike Springfield, Sandoval County
CC: Guy Bralley, Sandoval County
From: Robert Sengebush, INTERA, Inc. *RMJ*Date: January 16, 2008
Subject: Phase I Summary of Rio Puerco Basin Brackish Groundwater Development

1.0 INTRODUCTION

This document summarizes the essential elements of the Sandoval County Rio Puerco Basin (RPB) brackish groundwater development project for Sandoval County management. This document has been prepared by INTERA, Inc. (INTERA) and INTERA's subcontractor WH Pacific (WHP), formerly ASCG, Inc., at the request of Mr. Mike Springfield.

Section 2 of this document presents the drilling, construction, and groundwater geochemistry of wells Exp-6 and Exp-5, which were drilled as exploratory wells in the summer of 2007. Section 3 provides project background and additional water chemistry data. Section 4 summarizes the results to date of the water utility study currently underway by WHP. Section 5 is a short review of the site geology with an evaluation of additional potential drilling sites on the Alamo Ranch, north of the Rio West development.

Sandoval County has identified four project phases for the development of brackish groundwater in the RPB:

- Phase I: Exploration
- Phase II: Preliminary Engineering
- Phase III: Construction
- Phase IV: Operations and Maintenance

This document summarizes the information available at the end of Phase I and also provides preliminary engineering input for Phase II.

2.0 DRILLING, CONSTRUCTION, AND GROUNDWATER CHEMISTRY OF WELLS

Table 1 summarizes the drilling and construction information for the two exploratory groundwater wells and provides general groundwater chemistry of the producing zones.

Specifications	Weil Exp-6	Well Exp-5	Comments
Location	S11, T12N, R1W	S10, T12N, R1W	
Drilling Dates	June 16 - August 8, 2007	July 30 - September 1, 2007	
Well Construction Completion Date	August 10, 2007	September 24, 2007	
Total Depth, ft	3,840	6,460	
Screen Interval, ft	3,598–3,809	3,360–4,820 (> 1,460 total)	
Actual Screened Zones, ft		3,360–3,647 = 287 3,683–3,813 =130 4,117–4,373 =256 4,499–4,511 =12 4,544–4,556 =12 4,800–4,820 =20 Total 717 ft screened	
Screened Length, ft	211	717	
San Andres/Glorieta Fm thickness, ft	3,704-3,793 = 89	3,482-3,594 = 112	Obstruction at 5,140 ft in EXP-5
Flow Rate, gpm	> 600	20 (before fracture) 150 (after fracture)	
Water Temperature at Surface, degrees Fahrenheit	150	—	
Total Dissolved Solids, mg/L	12,000		
Sulfate, mg/L	4,400		
Chloride, mg/L	3,100		
Arsenic, mg/L	0.64		NM Standard = 0.10
Gross Alpha, pCi/L	209		EPA Standard = 15
Radium 226 + 228, pCi/L	85		NM Standard = 30

Table 1.	Summary of	f Drilling	Information for	· Exploration	Wells
Table L	ounnary v		THINK HIGH INH INH	LIADIULAUVI	*******

--- = Not applicable

EPA = New Mexico Environmental Protection Agency gpm = gallons per minute mg/L = milligrams per liter

NM = New Mexico pCi/L = picocuries per liter

ft = foot/feet

Results of the exploration phase confirm the presence of a brackish water aquifer at depths between 3,598 and 4,820 feet below ground surface (bgs) in the vicinity of the proposed Rio West development. The two exploratory wells have artesian flow, but this is expected to change after pumping from multiple wells begins.



The total volume of brackish water available from this deep reservoir has not been fully evaluated. Preliminary estimates range from thousands of acre-feet to hundreds of millions of acre-feet, depending on the estimation methods used and the estimated areal extent of the aquifer.

A 30-day aquifer test is planned to more completely characterize the nature and extent of the resource.

3.0 PROJECT BACKGROUND

New Mexico is experiencing rapid growth, but new development is limited by water availability. In southern Sandoval County, developers currently must demonstrate at least a 100-year water supply before construction can begin. This requirement presented a challenge to Aperion Inc., a residential and commercial developer with plans to construct Rio West, a development for 70,000 new residents, to be located west of the city of Rio Rancho. Surface water in New Mexico is already over allocated, and groundwater rights in the county are expensive—on the order of \$20,000 to \$35,000 per acre-foot (Brown, 2007). Rio West is expected to require around 8,000 acre-feet per year (AFY), treated to potable water standards, for domestic and commercial uses. For comparison, Rio Rancho currently uses about 12,000 AFY.

3.1 A New Source of Water

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Rather than pursue purchase of groundwater rights, Aperion and Sandoval County looked to another source of water: deep, brackish groundwater. According to current New Mexico water law, water produced from depths greater than 2,500 feet, and with total dissolved solids (TDS) greater than 1,000 milligrams per liter (mg/L), is not regulated by the New Mexico Office of the State Engineer. Therefore, a permit for appropriation of groundwater from this resource would not require approval from the State Engineer. Sandoval County is also interested in the feasibility of using this water resource to support additional growth in the county beyond Rio West.

During the summer of 2007, a partnership was formed between Sandoval County and Aperion which enabled the drilling and completion of two deep wells in an untested aquifer within the RPB of Sandoval County. The first well, Exp-6, began in upper Cretaceous rocks and crossed the Moquino fault, a major normal fault that is interpreted to form the western boundary of the Rio Grande Basin. Exp-6 has a total depth of 3,850 feet and is screened between 3,598 and 3,809 feet in sandstones and limestones of the San Andreas/Glorieta (SAG) Formations. The second well, Exp-5, was screened in multiple zones between 3,360 and 4,820 feet, also in sandstones and limestones of the SAG, as well as in layers above and below the SAG.

The wells were drilled using an oil and gas mud rotary drilling rig capable of drilling to 10,000 feet. A full suite of geophysical logs was run in both holes to assist with the selection of potentially productive zones.



3.2 Artesian Flow

Exp-6 produced artesian flow of approximately 600 gallons per minute (gpm). Exp-5 initially produced approximately 20 gpm of artesian flow; this flow increased to a sustained rate of approximately 150 gpm after a fracturing procedure was performed.

A 13-hour, constant-flow-rate aquifer test (drawdown and recovery) was conducted in Exp-6. The water temperature at the surface during the later portions of the test was approximately 151 degrees Fahrenheit. During the test, the well was allowed to flow at over 400 gpm. This resulted in 83 feet of water-level decline (measured as change in pressure) in Exp-6 and 1.5 feet of water-level decline in Exp-5, which is located 3,450 feet west of Exp-6. The water-level decline in both wells suggests the wells are hydraulically connected. A change in slope in the drawdown curve suggests a barrier boundary condition, presumed to be the Moquino fault, within several hundred feet of Exp-6.

3.3 Water Treatment

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Analytical results for a sample collected from Exp-6 show approximately 12,000 mg/L TDS, 3,100 mg/L chloride, and 4,400 mg/L sulfate. In comparison, brackish groundwater developed by the City of Alamogordo, New Mexico, has a TDS range of 1,000 to 4,000 mg/L.

Although water from the two new wells will require treatment to meet potable standards, the cost to treat it is expected to be less than the cost of obtaining existing water rights in the area. The U.S. Bureau of Reclamation (2003) estimates the cost of treating brackish water to be on the order of \$1 to \$3 per 1,000 gallons. The treatment cost for the Sandoval County wells is expected to be higher, but could be reduced through the use of renewable energy, including wind and solar resources. A conceptual engineering study is underway to estimate these desalination costs. Additional well locations are under investigation with the objective of developing a resource that will serve not only Rio West but other current and future neighboring communities.

4.0 WATER UTILITY STUDY

This section of the summary presents the preliminary results of the water utility study currently underway by INTERA and WHP.

4.1 Projected demand for water in southern Sandoval County

Southern Sandoval County has a projected demand for water that cannot be met with currently available resources. Table 2 lists the planned developments in this area and the projected water demand associated with each development.



Potential User	Dwelling units	Residential Demand	Commercial Demand	School Demand	Total Potable Water Demand GPD	Total Potable Water Demand AFY	% of Total
Alamo Ranch	35,000	6,650,000	1,130,500	404,000	8,184,866	9,200	21%
Rio Rancho Estates	23,000	4,370,000	742,900	266,000	5,378,666	6,000	14%
Breezy Point	1,400	266,000	45,220	16,000	327,506	400	1%
Rio Rancho					10,715,000	12,000	28%
Rio West	29,434	5,592,460	950,718	347,000	6,889,678	7,700	18%
Quail Ranch	23,000	4,370,000	742,900	266,000	5,378,666	6,000	14%
Rancho Grande	7,200	1,368,000	232,560	83,000	1,683,720	1,900	4%
TOTALS	119,034	22,616,460	3,844,798	1,382,000	38,559,000	43,200	100%
% of total water	demand	81%	14%	5%	100%		

Table 2. Projected Water Demand in Southern Sandoval County

Water usage per dwelling unit of 190 gpd/DU is from MRCOG, 2001 gpd = gallons per day

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Table 2 shows the total demand for potable water to be approximately 43,000 AFY. Because brackish water must be treated to produce water of drinking quality, the actual amount of brackish water needed is greater than this. Based on a net recovery rate of 65 percent, the amount of brackish water needed to meet the projected demand is 66,000 AFY. The year at which the 43,000 AFY build-out demand actually develops depends upon a number of variables in the local economy but is expected to occur at sometime between the Years 2050 and 2060. Figure 1 shows the general locations of these proposed developments, the number of dwelling units, and the potential potable water demand.

4.2 Results of Feasibility Study for Wholesale Water Supply System

Sandoval County is currently completing a feasibility study to determine expected costs to implement and operate a system that would collect and treat RPB brackish water and supply it on a wholesale basis to the City of Rio Rancho and to the other developments listed in Table 2. Figure 2 shows the proposed production wells, piping, storage, and desalination plant locations. Figure 3 is a treatment plant diagram. Costs for this system with a build-out capacity of 43,200 AFY of potable water are being developed using the following key design inputs:

- Product water recovery rate of 65% for the combined pre-treatment and desalinization process i.e., every 100 gallons of brackish water yields 65 gallons of potable water for sale.
- Brackish water would be supplied from a series wells spaced ½ mile apart and each having a nominal depth of 4,000 feet and able to furnish 500 gpm of water with 12,000 mg/L TDS. All wells would be located west of the Moquino fault.
- The required raw water input at build-out capacity for fresh water would be provided by



> a network of ninety four (94) individual wells each producing 500 gpm of brackish water. The 94 wells provide for 20% back-up capacity so that routine maintenance and repair work on individual wells can be scheduled.

- These wells would be arranged to feed a series of five collector trunks that, in turn, would feed two central treatment plants located on State Land Office Property.
- The North Plant would serve wholesale water needs for Alamo Ranch, Rio Rancho Estates, and a portion of Rio Rancho whereas the South Plant would serve Rio West, Rio Rancho (including potential demands from Quail Ranch), and Rancho Grande.
- Waste brine from desalinization would be disposed through deep well injection into a geologically isolated layer, whereas dewatered waste residuals from pre-treatment would be disposed in permitted municipal landfills.

It should be noted that wholesale water needs for either the Alamo Ranch area or the Rio West area would be fed by gravity from the North Plant or the South Plant, respectively. As such, wholesale costs to supply these entities may not need to include the estimated costs for treated water conveyance and storage. Over the next several weeks, the County and its consultant team will be working to refine these preliminary system costs to account for the following study variables:

- Use of alternate waste brine disposal methods including pond evaporation and/or mechanical evaporation.
- Use of renewable wind energy harvested on State Land Office property to offset power consumption for brackish water wells, water treatment, and treated water transmission.
- Sustainable yields for brackish water wells that might be greater than 500 gpm based on the outcome of a 30-day flow test that is planned for spring, 2008.
- Impact of alternate timetables for implementing increments of capacity that eventually reach the required 43,200 AFY potable water supply capacity at build-out.
- Comparison of brackish water collection and treatment costs to comparable costs for collection, treatment, and reclamation of municipal wastewater generated by the developments.

5.0 IMPORTANCE OF LOCAL AND REGIONAL GEOLOGY

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Figure 4 is a geologic map (Williams and Cole, 2007) of the Rio Puerco valley, which encompasses the area of the Rio West development and a portion of the Alamo Ranch. It also displays a shaded region where brackish water is likely to be encountered between 2,500 and 5,000 feet bgs. Figure 5 is a schematic geologic cross section showing geologic units, faults, and the two exploratory wells (Exp-5 and Exp-6).

The Rio Puerco brackish groundwater resource resides in a confined aquifer comprising several specific geologic units. The units of primary interest in the exploration effort to date are the San Andres limestone and the Glorieta sandstone. The combination of these two units is abbreviated as



the "SAG". Other units of interest are the Agua Zarca sand within the Chinle Group and various sand zones in the upper Yeso Formation.

These rock layers are well known to geologists in New Mexico. In some areas they crop out at the surface, in other areas, they are deeply buried. Based on existing information, it was accepted that the SAG were certain to be present at depth in the two exploration holes drilled by Sandoval County. Further, they were anticipated to be potentially water-bearing, based on the understanding that essentially all rock units at that depth will contain water, if the rocks have natural porosity and permeability. Results from the drilling process and geophysical logging suggest that the San Andres limestone is fractured and contains void spaces or caverns with dimensions of feet in length, width, and depth.

Moquino Fault

Geologic structure, specifically faulting, is a primary controlling factor in the development of groundwater in the RPB. One might assume that if water is present in these rock layers, and the layers are regionally extensive, then the resource should be exploitable nearly anywhere in western New Mexico. However, because the layered rocks are overprinted by faults, the depth to the resource, and therefore the economics of the project is controlled to some degree by this type of geologic structure.

The fault that appears to have the most impact on this water development project is the Moquino fault. This structure has been identified by numerous geologists (Tedford and Barghoorn, 1999; Williams and Cole, 2007; Hawley, 2007) and is even visible on the ground surface. The fault trends roughly south to north-northeast and is downthrown on the eastern side. This means that if one were to drill on the east side of the fault, the first rock units encountered would be younger (or stratigraphically higher) than the units present at ground surface on the west side of the fault. Consequently, the SAG is deeper on the east side of the fault and one would need to drill deeper on this side of the fault to reach these water-bearing units. The additional depth required to reach the SAG on the east side of the Moquino fault is on the order of 2,000 to 3,000 feet, which would likely be cost prohibitive. This estimate of fault offset is based on unit thicknesses documented by the U.S. Geological Survey (Williams and Cole, 2007).

The Moquino fault appears to have the greatest vertical offset in the vicinity of the Rio West development, where units of the Mancos shale are in fault contact with layers of the Menefee Formation. As one moves north in the Rio Puerco valley and onto the Alamo Ranch property, the amount of offset on the Moquino fault appears to decrease and ultimately the offset disappears entirely. This is supported by the surface outcrop of rocks that are in continuous stratigraphic contact with each other along the projected trend of the fault. In other words, the natural layered sequence is present in the absence of the fault. The offset seen on the Moquino fault appears to be "transferred" to the east and into the Garcia-Tenorio fault zone and to the Navajo fault, which are present to the east and north.

The understanding of the geologic layers and the fault overprints leads to the identification of areas where drilling into the SAG would be most economical and would still satisfy the requirement of



water production from greater than 2,500 feet but less than about 5,000 feet bgs. These areas are shown on Figure 2. Refinements of these areas will be presented in a more detailed hydrogeologic report to be prepared at a later time.

6.0 **REFERENCES**

N i

Brown, L. 2007. Personal communication with Robert Sengebush, INTERA, Inc.

Hawley, J.W. 2007. Draft geologic map of San Felipe Mesa, NM 7.5' quadrangle map, dated 7/25-26, 2007, scale 1:24,000.

Middle Rio Grande Council of Governments (MRCOG). 2001. Future water use projections for the Middle Rio Grande Water Planning Region.

Tedford, R.H., and Barghoorn, S. 1999. "Santa Fe Group (Neogene), Ceja del Rio Puerco, northwestern Albuquerque basin, Sandoval County, New Mexico," In *Albuquerque Geology*, New Mexico Geological Society 50th fall field conference guidebook, p. 327-335.

U.S. Bureau of Reclamation. 2003. Desalination and water purification technology roadmap: a report to the Executive Committee.

Van Hart, Dirk. 2007. Geologic Report: Rio West Saline-Water Project, Wells EXP #5 & EXP #6.

Williams, P.L., and Cole, J.C. 2007. Geologic map of the Albuquerque 30' x 60' quadrangle, northcentral New Mexico, U.S. Geological Survey Scientific Investigations Map 2946.



FIGURES

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Bend in section Moquino fault Elevation (ft) Zia Fm. EXP-6 Dilco Member(?), +6,000 ft EXP-5 Mancos Shale Gallup Ss Gallup Ss. ("F tongue") Menefee Fm. (coal-bearing) Cretaceous Mancos Shale +5,000 ft Dakota Ss. (Kd) AMAMAMAMAM Hosta/Dahon Ss. & Marrison Fm. (Jm) Crevasse Cyn. Fm. (undiff.) Jurassic Summerville Fm. Jurassic Upper Mancos Shale ~~~~~~~~ Entrada Em. +4,000 ft Correo Ss. MOQUINOFAULT Dilco Mbr.(?) Gallup ("F tongue" Mañcos Shale Chinle Petrified Forest Fm. Triassic Group +3,000 ft Kd Jm Agua Zarca Ss./Moenkopi Fm. (undiff.) San Andres Ls & Glonets St. (undiff.) +2,000 ft San Ysidro Mbr. Yeso Fm. Meseta Blanca Ss. Mbr. Permian +1,000 ft Abo Fm. Red Tanks Fm. Atrasado Fm. Sea level Pennsylvanian Madera Group Gray Mesa Ls. Sandia Fm. (equivalent) 111 1 -1,000 ft -, Precambrian, biotite granite-, ----Vertical scale : horizontal scale = 1



Figure 5 Schematic Geologic Cross Section Adapted from Van Hart, 2007 1-15-08

APPENDIX F

OPERATIONS PROCESS MAP





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APPENDIX H

PROJECT TASK PROCESSING CHECKLIST

Sandoval County, NM Name 10/27/2008 Date

Sandoval	NM	Brackish Water Tre	eatment Plant
County	State	Type of Pro	oject
ltem No.	Document or Action	Responsible Party	Status C=Complete P=Pending O=On=going
	Step I – Initial Docket		
1	Application	County/Engineer	C
2	Final Pit Closure Plan - dewater and closure of reserve	Hicks Environmental	Р
3	Resolution Identifying Authorized Representative	County	C
4	Vendor Procurement (Pilot Testing)	County/Engineer	C
5	Engineering/CM Services Agreement	Engineer/County	Р
6	Water utility study and forty-year water plan	Intera	С
7	Discharge permit application revisions, delivery, soil sampling, and	Intera	с
8	Ground water model	Intera	С
9	Complete test execution and analysis	Intera	Р
10	Technical assistance in management of brine waste	Hicks Environmental	0
11	Technical assistance to manage aquifer storage and recharge plan for seasonal treated wastewater (plus modeling)	Hicks Environmental	0
12	Work with turf grass specialists to develop plan to irrigate golfcourse with treated wastewater, stormwater plua brackish water	Hicks Environmental	0
13	Develop plans for aquifer thermal energy storage plan		Р
14	Engineering Design Criteria Report (PER)	Engineer	Р
15	Central clearinghouse comments	Engineer	Р
16	Copy of latest audit	County/ Financial Advisor	с
17	Proposed project schedule	Engineer	С
18	Customer letters of intent	County	C
19	Draft ballot language	Bond Counsel/ Financial Advisor	Р
20	Ballot Language & Canvas of Vote	County	Р
	Step II - Pre-closing Dock	et	
21	Approval of Design Criteria Report	County/State	Р
22	Requests for Environmental Information Received a. Clearance Letter from State Historic Preservation Office (SHPO)	Engineer	Р
	b. Geological Clearance	Engineer	Р
	c. U.S. Fish & Wildlife Service Clearance U.S. Dept of Interior	Hicks Environmental	Р
	d. 404 Permit-U.S. Corps of Engineers	Hicks Environmental	Р
	e. Executive Order 11988 (May 24, 1997)	Engineer	Р
	f. Department of Conservation Clearance	Engineer	Р
23	Environmental information document (EID)	Engineer	P
24	Financial information sheet	Engineer/ Financial Advisor	Р
25	Plans and specifications	Engineer	Р
26	Construction Permit Application Fee	County	Р
27	Rate Ordinance	Engineer/ Financial Advisor	Р
28	Lease Agreements	Attorney	Р
29	Assurance of Local Share	County / Financial Advisor	Р
30	Intergovernmental Agreements	County / Attorney	Р
31	Revised Project Schedule	Engineer	Р
32	Interim Financing	County	P
33	a State	Engineer/ County	P
	b Fed	Engineer/ County	P
	c. Other	Engineer/ County	P
34	Financial Advisor Agreement (Not Required)	Financial Advisor	Р
35	Evidence of Valid Bond Election	Attorney	Р
36	Water Rate Ordinance (Rules & Regulations)	Engineer/ Attorney	P

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10/27/2008 Date

Sandoval County, NM Name

Sandoval	NM	Brackish Water Tre	alment Plant
County	State	Type of Pro	ieci
			Status C=Complete P=Pending
ttem No.	Document or Action	Responsible Party	O=On=going
37	Evidence of Public Notice of Public Hearings		_
I	a. Plan Options	County / Engineer	P
•	b. Water Rate	County	P
- 38	C. Environmental	County	<u> </u>
1 30	a. Plan Options	County / Engineer	Р
	b. Rate	County / Engineer	P
	c. Environmental	Hicks Environmental	P
39	Land Rights		
ł	a. County Authorization to Use Public Roads	Intera	P
	b. State Highway Department Regarding	Intera	Р
1	c Letter and/or Contract With RR's Regarding	Intera	P
I	Crossings		
I	d. Right-of-Way Map	Intera	P
1	e. Assurance With Respect to Real Property	County	P
	Acquisition	Allomey	
1	Presminary rue Opmon/Instrance / 1106 Commitment	Attomey	
40	Notification to Other Utilities	Engineer	P
41	Submission of Parity Lien Bond Ordinance	Bond Counsel/	P
		Attorney	
42	Questionnaire to Underwriters Counsel	Bond Underwriter	P
43	FONSI Published (If Required)	State	P
44	Bond Ordinances Disseminated to Participants	Bond Counsel	P
45	Rating Agency Review of Participants Financials &	Bond Underwriter	P
46	Bond Documents	County	P
1~			
47	Rate Ordinance Adopted by Applicant (Implementation may be Immediate or at a Future Date)	County	P
48	State Authority Meeting	State	P
49	Final Draft of Bond Documents & First Draft of	Bond Counsel	P
1	Preliminary Official Statement Disseminated to		
50	Fonsi Comment Period Ends	NMFA	
51	(NPDES Public Notice (If Required)	Hicks Environmental	P
52	State Final Approvals		P
	a. Authorized Representative Resolution	County	Ρ
	b. RFQ/RFP Process for major equipment	Engineer	P
	c. Plans & Specifications	Engineer	P
	6. Engineering Agreement	County County	۳ ۳
	g. Rules & Regulation Ordinance	County / Engineer	P
	h. Proposed Project Schedule	County / Engineer	P
	i. Value Engineering Study (If Applicable)	County / Engineer	P
	j. Preliminary Determination of Eligible Costs	State	Р
	k. Bond Documents	Bond Counsel	Р
53	Preliminary Official Statement to Printer	Bond Counsel	
54	Preliminary Official Statement Mailed	Bond Counsel	<u> </u>
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1 30	Ordinance		
57	Applicant Signs Documents & Forwards to Bond	County	P
	Counsel		
58	Depository Bank Designation	County	P
59	Pre-Closing	Bond Underwriter	
60	Closing	Bond Underwriter	
61	Request for Wage Determinations	County	<u> </u>
63	Resolution or analysis Authorization (If Assligable)	State	
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64	Affidavit of Publication of Notice to Biddens	County	P
65	Bid Letting	Engineer/County	P
	Comprehensive Bid Tabulation & Letter of	Engineer	Р
	Recommendation		L

County	State	Type of Project
Sandoval	NM	Brackish Water Treatment Plant
	Name	Date
	Sandoval County, NM	10/27/2008

Item No.	Document or Action	Responsible Party	Status C=Complete P=Pending O=On=going
	Step III – Awarding Contracts I	Docket	
66	Project Budget & Estimated Funds Withdrawal Schedule	Engineer	Р
67	Final Construction Budget	Engineer	Р
68	State Approval to Award	Engineer	Р
70	Resolution/Ordinance Approving Construction Bids- Notice of Award	County	Р
71	Engineering Agreement for Construction Phase Engineering	County	Р
72	Construction Documents Executed by Contractor Only	Contractor	Р
73	MBE/WBE Utilization	Contractor	Р
74	Project Attorney's Opinion	Attorney	Р
75	Approval of Contracts by State Office – State Revolving Loan Fund	Engineer	Р
76	Construction Documents Executed by Applicant	County	Р
77	Notice to Proceed Issued	County / Engineer	Р
78	Pre-Construction Conference	Engineer	Р
79	Notice to Labor Department	County / Engineer	Р
	Step IV- Construction Doc	ket	
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APPENDIX

PROJECT SCHEDULE

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