

# CONSUMER CONFIDENCE REPORT 2010

## FOR SAN JOAQUIN COUNTY WATER SYSTEMS

**Water System Name:** Santos Ranch Water System CSA35

**Report Date:** 07/11

**Type of Water Source(s) in Use:** Groundwater wells

**Name of Source(s) in Use:** Well #1

**Drinking Water Source Assessment Information:** A source water assessment for the well of the Santos Ranch CSA35 water system was completed in July 2002.

The source is considered most vulnerable to the following activities associated with contaminants detected in the water supply: There have been no contaminants detected in the water supply, however the source is still considered vulnerable to activities located near the drinking water source. The source is considered most vulnerable to the following activities not associated with any detected contaminants: Housing (high density).

**Table #1: Sampling Results Showing Detection of Coliform Bacteria**

MICROBIOLOGICAL CONTAMINANTS	HIGHEST NO. of DETECTIONS	NO. of MOS. in VIOLATION	MCL	MCLG	TYPICAL SOURCE OF BACTERIA
Tot. Coliform Bacteria	0 (highest in month)	0	> 1	0	Naturally present in environment
Fecal Coliform and <i>E. coli</i>	0 (year total)	0	> 1	0	Human and animal fecal waste

**Table #2: Sampling Results Showing Detection of Lead and Copper**

LEAD and COPPER	NO. of SAMPLES	90 <sup>TH</sup> Percentile LEVEL	NO. SITES > AL	AL	MCLG	TYPICAL SOURCE OF CONTAMINANT
Lead (ppb)	5	2.0	0	15	2	Internal corrosion of household water plumbing systems; discharge from industrial manufacturers; erosion of natural deposits
Copper (ppb)	5	83	0	1300	170	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives

**Table #3: Sampling Results Showing Detection of Sodium and Hardness**

CHEMICAL OR CONSTITUENT	SAMPLE DATE	LEVEL DETECTED	RANGE OF DETECTIONS	MCL	PHG (MCLG)	TYPICAL SOURCE OF CONTAMINANT
Sodium (ppm)	2008	276			–	none none Generally found in ground and surface water
Hardness (ppm)	2008	343	–		none	none Generally found in ground and surface water

**Table #4: Detection of Contaminants with a PRIMARY Drinking Water Standard**

CHEMICAL OR CONSTITUENT	SAMPLE DATE	LEVEL DETECTED	RANGE OF DETECTIONS	MCL	PHG (MCLG)	TYPICAL SOURCE OF CONTAMINANT
Gross Alpha Activity (pCi/L)	2002	2.23	0.00–0.12	15	N/A	Erosion of natural deposits
Radium 228 (pCi/L)	2006	0.03	0.00–0.12	5	N/A	Erosion of natural deposits
Arsenic (ppb)	2007	4	–	10	N/A	Erosion of natural deposits; run-off from orchards; glass and electronics production wastes
Barium (ppb)	2008	28.6	–	1000	2	Oil drilling and metal refinery waste discharge; erosion of natural deposits
Chromium (ppb)	2008	1	–	50	2.5	Discharge from steel & pulp mills & chrome plating; erosion of natural deposits
Lead (ppb)	2008	0.4	–	50	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Mercury (ppb)	2008	0.02	–	2	1.2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from crop land
Nickel (ppb)	2008	5	–	100	100	Erosion of natural deposits; discharge from metal factories
Nitrate (ppm)	2010	3.8	–	45	45	Run-off and leaching from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Selenium (ppb)	2008	4	–	50	50	Discharge from petroleum, glass and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; run-off from livestock lots (feed additive)

**Table #5: Detection of Contaminants with a SECONDARY Drinking Water Standard**

CHEMICAL OR CONSTITUENT	SAMPLE DATE	LEVEL DETECTED	RANGE OF DETECTIONS	MCL	PHG (MCLG)	TYPICAL SOURCE OF CONTAMINANT
Corrosivity	2008	-0.4	–	Non-corrosive	N/A	Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affected by temperature and other factors
Manganese (ppb)	2008	20	–	50	N/A	Leaching from natural deposits
Total Dissolved Solids (TDS) (ppm)	2008	*1150	–	1000	N/A	Run-off/leaching from natural deposits
Specific Conductance (microohms)	2008	*1950	–	1600	N/A	Substances that form ions when in water; seawater influence
Chloride (ppm)	2008	313	–	500	N/A	Substances that form ions when in water; seawater influence
Sulfate (ppm)	2008	380	–	500	N/A	Leaching from natural deposits; industrial wastes

**Table #6: Detection of UNREGULATED Contaminants**

CHEMICAL OR CONSTITUENT	SAMPLE DATE	RANGE OF DETECTIONS	NOTIFICATION LEVEL	HEALTH EFFECTS LANGUAGE
Boron (ppb)	2008	1400	1000	The babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased risk of developmental defects (based on studies in laboratory animals)
Vanadium (ppb)	2008	9	50	The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental defects (based on studies in laboratory animals)

Drinking water is tested for quality for many constituents as required by State and Federal regulations. This report shows the results of our monitoring for the period of Jan. 1 thru Dec. 31, 2010.  
 \* Any violation of an MCL or AL is asterisked. Additional information concerning the violation is provided below.

### Summary Information for Contaminants Exceeding an AL

#### *Total Dissolved Solids (TDS) and Specific Conductance (E.C.) MCL violation*

Total Dissolved Solids (TDS) and Specific Conductance (E.C.) were found at levels that exceed the secondary MCL of 1000 ppm and 1600 microhms. The Total Dissolved Solids (TDS) and Specific Conductance (E.C.) MCL was set to protect you against unpleasant aesthetic effects such as color, taste, odor and the staining of plumbing fixtures (e.g., tubs and sinks), and clothing while washing. The high Total Dissolved Solids (TDS) and Specific Conductance (E.C.) levels are due to leaching of natural deposits.

*A copy of the complete assessment is available at:*

San Joaquin County, Environmental Health Department  
 304 E. Weber Ave., 3<sup>rd</sup> Floor, Stockton, CA 95202

*You may request a summary of the assessment be sent to you by contacting:*

Small Public Water Systems, San Joaquin County Environmental Health Department, (209) 468-3420