

Paraiso Springs Resort – Estimated Potable Water Demand and Potable Water Source

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Introduction

This technical memorandum summarizes the potable water studies conducted for the proposed Paraiso Springs Resort, located west of Soledad/Greenfield in Monterey County. The site consists of a rectangular-shaped parcel encompassing approximately 280 acres. The site is located between the crest of the Sierra De Salinas and the Salinas Valley (see Attachment 1, Location Map). Existing site improvements include a barn, a “clubhouse,” many small shacks, and mobile homes. An active hot spring and associated spa and pools are also located onsite. Existing wells are located onsite.

Vegetative cover on the 280-acre site consists of native grasses, weeds, trees, and chaparral in the bottoms of Paraiso Springs Valley and Indian Valley. The slopes to the south of Paraiso Springs Valley and Indian Valley are generally oak woodland. Slopes on the north side of Paraiso Springs Valley and Indian Valley are chaparral. Drainage of the site is by sheet flow to the drainages of Paraiso Springs Valley and Indian Valley. In the Paraiso Springs Valley, drainage of site water also occurs through spring and seep discharge. These drainages are unnamed and flow to the east where they join the Arroyo Seco River. The Arroyo Seco River flows north to the Salinas River, which eventually discharges into the Monterey Bay.

The proposed site development will consist of a destination spa resort with a 103-room resort hotel (including 105 bedrooms), with spa and fitness center facilities, a hamlet day spa, 17 time-share villas, 60 time-share condominiums, 310 parking spaces, and approximately 11,100 feet of private roadways.

The Paraiso Springs Valley has a long history of groundwater use. Native Californians were the first to utilize this resource; hence, the name of Indian Valley given to the drainage to the north of Paraiso Springs Valley. The Spaniards and early Californians also took advantage of the groundwater resources of the area. In the southeast corner of Paraiso Springs Valley, the Mission Soledad had its vineyard. The Mission eventually sold the property. After the sale, the site was used for its hot spring mineral baths circa 1880s.

Numerous wells and hot springs are located onsite. The Main Well (Well No. 1) is approximately 100 feet deep and currently used for domestic water, typically pumping at a rate of 20 to 30 gallons per minute (Geoconsultants, 2004). Well No. 2 is approximately 760 feet deep and typically pumps at a rate of 200-300 gallons per minute, but is not used for domestic water (Geoconsultants, 2004). The Soda Springs well is currently being used for hot water for the spa and pool. This well is 37 feet deep and produces 30 to 40 gallons per minute at $\pm 115^{\circ}$ F (Geosolutions, 1998).

The abundant groundwater resource of this valley was verified by the investigation referenced in *Geologic and Soil Engineering Feasibility Report for Paraiso Hot Springs Spa Resort* (Landset Engineers, December 2004). Of the 15 geotechnical borings drilled in Paraiso Springs Valley, 10 borings encountered groundwater. Depths to ground water ranged from 11.0 to 55.0 feet below the ground surface. Groundwater in the area of the current hot springs was found to be 11.0 to 18.5 feet below the ground surface. The borings west of the current hot springs encountered groundwater at greater depths the farther west they were drilled, approximately 18.5 feet to 55.0 feet. All borings that encountered groundwater were drilled in alluvium.

Potable Water Demand

The following presents the estimated peak day potable water demand for the Paraiso Springs Resort, based on the land use described above and site plan for the Project dated July 2005 (see Attachment 2, Site Plan). The preliminary design assumption is that the resort hotel rooms will be at full occupancy, all homes will be occupied, and all restaurants and other amenities will be operating at full capacity. This condition represents the most extreme demand on the water supply system.

To estimate peak day demand, water use factors provided in Table 2 of the *Non-residential Water Use Factors of Rule 24 – Calculation of Water Use Capacity and Connection Charges*, from the Monterey Peninsula Water Management District (MPWMD), were applied to all pertinent project elements.

Table 1 shows the calculations for the estimated Project peak day potable water demand. Table 2 summarizes the water demand estimate by each of the four Project development phases and for full buildout. Irrigation demand varies throughout the year. Landscape irrigation will be supplied by recycled wastewater and supplemented with potable water if recycled wastewater is unavailable. Irrigation water demand for the Project is estimated in the companion technical memorandum, *Paraiso Springs Resort – Estimated Wastewater Production and Proposed Treatment, Irrigation, and Storage*.

TABLE 1
Paraiso Resort Water Calculations

| | Facility Description ^a | Type | Water Use Factor ^b | Number of Units | Sq Ft | Total Acre-feet/Year | Conversion Acre-feet to gpm | Total gpm | |
|--------------------------------------|-----------------------------------|--------------------|-------------------------------|-----------------|-------------------|----------------------|-----------------------------|--------------|------|
| Phase 1 Increment | | | | | | | | | |
| Hotel | Hotel Rooms ^c | room | 0.13 | 62 | | 8.06 | 0.62 | 5.00 | |
| | Time Share Condos ^d | | | | | | | | |
| | 2 Bedroom | room | 0.23 | 10 | | 2.3 | 0.62 | 1.43 | |
| | 3 Bedroom | room | 0.33 | 8 | | 2.64 | 0.62 | 1.64 | |
| | Time Share Villas ^e | | | | | | | | |
| | 3 bedroom | single family room | 0.33 | 3 | | 0.99 | 0.62 | 0.61 | |
| | 4 bedroom | room | 0.43 | 2 | | 0.86 | 0.62 | 0.53 | |
| | Subtotal | | | | | | 14.85 | | 9.21 |
| | | | | | # Of Seats | | | | |
| | Main Hotel Restaurant | restaurant | 0.02 | 125 | | | 2.5 | 0.62 | 1.55 |
| | Coffee and Tea Cafe | coffee house | 0.0002 | | 2,000 | | 0.4 | 0.62 | 0.25 |
| | Spa Restaurant | restaurant | 0.02 | 20 | | | 0.4 | 0.62 | 0.25 |
| | Meetings/ Conference ^f | | | | | | | | |
| | Banquet/Kitchen | meeting hall | 0.00053 | | 3,500 | | 1.855 | 0.62 | 1.15 |
| Conference Room | conference room | 0.00007 | | 9,016 | | 0.63112 | 0.62 | 0.39 | |
| Culinary School ^g | restaurant | 0.02 | 20 | | | 0.4 | 0.62 | 0.25 | |
| Administration Support ^f | support | | | | | | | | |
| Back of House ^e | support | | | | | | | | |
| Subtotal | | | | | | 6.18612 | | 3.84 | |
| Hamlet | Day Spa | spa | 0.05 | | | 0.05 | 0.62 | 0.03 | |
| | General Retail Stores | retail | 0.00007 | | 3,500 | 0.245 | 0.62 | 0.15 | |
| | Artist Studio & Stores | retail | 0.00007 | | 6,300 | 0.441 | 0.62 | 0.27 | |
| | Real Estate Office | retail | 0.00007 | | 450 | 0.0315 | 0.62 | 0.02 | |
| | Vineyard Facilities | retail | 0.00007 | | 3,200 | 0.224 | 0.62 | 0.14 | |
| | Garden Center | nursery | 0.00009 | | 3,000 | 0.27 | 0.62 | 0.17 | |
| | Subtotal | | | | | | 1.2615 | | 0.78 |
| Spa | Spa Facilities ^h | spa | 0.05 | | | 0.05 | 0.62 | 0.03 | |
| | Teahouse | spa | | | | | | | |
| | Hammas and Kniepp | spa | | | | | | | |
| | Aqua Course & Massage | spa | | | | | | | |
| | Villas and Pavilions | spa | | | | | | | |
| | Creative Center | spa | | | | | | | |
| Subtotal | | | | | | 0.05 | | 0.03 | |
| Fitness | Fitness Facilities | | | | | | | | |
| | Golf School | gym | 0.00007 | | 2,000 | 0.14 | 0.62 | 0.09 | |
| | Basketball and Racquetball | gym | 0.00007 | | 9,400 | 0.658 | 0.62 | 0.41 | |
| | Lap Pool | pool | 0.02 | | 24.6 | 0.492 | 0.62 | 0.31 | |
| Subtotal | | | | | | 1.29 | | 0.80 | |
| Miscellaneous | Support Facilities ^a | | | | | | | | |
| | Institute | educational | 0.00007 | | 4,000 | 0.28 | 0.62 | 0.17 | |
| | Visitor Center | retail | 0.00007 | | 750 | 0.0525 | 0.62 | 0.03 | |
| | Pet Spa | veterinary | 0.00007 | | 400 | 0.028 | 0.62 | 0.02 | |
| Subtotal | | | | | | 0.3605 | | 0.22 | |
| Potable Water Use | | | | | | | | | |
| Subtotal | | | | | | 24 | 0.62 | 14.88 | |
| Supplemental Irrigation ⁱ | | | | | | 36.21 | 0.62 | 22.45 | |
| Totals | | | | | | | | 37.33 | |

TABLE 1
Paraiso Resort Water Calculations

| | Facility Description ^a | Type | Water Use Factor ^b | Number of Units | Sq Ft | Total Acre-feet/Year | Conversion Acre-feet to gpm | Total gpm | |
|--------------------------------------|-----------------------------------|---------------|-------------------------------|-----------------|-------------------|----------------------|-----------------------------|-------------|------|
| Phase 2 Increment | | | | | | | | | |
| Hotel | Hotel Rooms ^c | room | 0.13 | 15 | | 1.95 | 0.62 | 1.21 | |
| | Time Share Condos ^d | | | | | | | | |
| | 2 Bedroom | room | 0.23 | 8 | | 1.84 | 0.62 | 1.14 | |
| | 3 Bedroom | room | 0.33 | 6 | | 1.98 | 0.62 | 1.23 | |
| | Time Share Villas ^e | single family | | | | | | | |
| | 3 bedroom | room | 0.33 | 2 | | 0.66 | 0.62 | 0.41 | |
| | 4 bedroom | room | 0.43 | 2 | | 0.86 | 0.62 | 0.53 | |
| | Subtotal | | | | | | 7.29 | | 4.52 |
| | | | | | # Of Seats | | | | |
| | Main Hotel Restaurant | restaurant | 0.02 | 50 | | | 1 | 0.62 | 0.62 |
| | Coffee and Tea Cafe | coffee house | 0 | | 2,000 | | 0 | 0.62 | 0.00 |
| | Spa Restaurant | restaurant | 0.02 | 13 | | | 0.26 | 0.62 | 0.16 |
| | Meetings/ Conference ^f | | | | | | | | |
| | Banquet/Kitchen | meeting hall | 0 | | 3,500 | | 0 | 0.62 | 0.00 |
| Conference Room | conference room | 0 | | 9,016 | | 0 | 0.62 | 0.00 | |
| Culinary School ^g | restaurant | 0 | | | | 0 | 0.62 | 0.00 | |
| Administration Support ^h | support | | | | | | | | |
| Back of House ^c | support | | | | | | | | |
| Subtotal | | | | | | 1.26 | | 0.78 | |
| Hamlet | Day Spa | spa | 0 | | | | 0.62 | 0.00 | |
| | General Retail Stores | retail | 0 | | 3,500 | 0 | 0.62 | 0.00 | |
| | Artist Studio & Stores | retail | 0 | | 6,300 | 0 | 0.62 | 0.00 | |
| | Real Estate Office | retail | 0 | | 450 | 0 | 0.62 | 0.00 | |
| | Vineyard Facilities | retail | 0 | | 3,200 | 0 | 0.62 | 0.00 | |
| | Garden Center | nursery | 0 | | 3,000 | 0 | 0.62 | 0.00 | |
| | Subtotal | | 0 | | | | 0 | | 0.00 |
| Spa | Spa Facilities ^h | spa | 0 | | | | 0.62 | 0.00 | |
| | Teahouse | spa | | | | | | | |
| | Hammans and Kniepp | spa | | | | | | | |
| | Aqua Course & Massage | spa | | | | | | | |
| | Villas and Pavilions | spa | | | | | | | |
| | Creative Center | spa | | | | | | | |
| Subtotal | | | | | | 0 | | 0.00 | |
| Fitness | Fitness Facilities | | | | | | | | |
| | Golf School | gym | 0 | | 2,000 | 0 | 0.62 | 0.00 | |
| | Basketball and Racquetball | gym | 0 | | 9,400 | 0 | 0.62 | 0.00 | |
| | Lap Pool | pool | 0 | | 24.6 | 0 | 0.62 | 0.00 | |
| Subtotal | | | | | | 0 | | 0.00 | |
| Miscellaneous | Support Facilities ^a | | | | | | | | |
| | Institute | educational | 0 | | 4,000 | 0 | 0.62 | 0.00 | |
| | Visitor Center | retail | 0 | | 750 | 0 | 0.62 | 0.00 | |
| | Pet Spa | veterinary | 0 | | 400 | 0 | 0.62 | 0.00 | |
| Subtotal | | | | | | 0 | | 0.00 | |
| Potable Water Use Subtotal | Subtotal | | | | | 8.55 | 0.62 | 5.30 | |
| Supplemental Irrigation ⁱ | | | | | | | | | |
| Totals | | | | | | 8.55 | | 5.30 | |

TABLE 1
Paraiso Resort Water Calculations

| | Facility Description ^a | Type | Water Use Factor ^b | Number of Units | Sq Ft | Total Acre-feet/Year | Conversion Acre-feet to gpm | Total gpm | |
|--------------------------------------|-----------------------------------|---------------|-------------------------------|-----------------|-------------------|----------------------|-----------------------------|-------------|------|
| Phase 3 Increment | | | | | | | | | |
| Hotel | Hotel Rooms ^c | room | 0.13 | 15 | | 1.95 | 0.62 | 1.21 | |
| | Time Share Condos ^d | | | | | | | | |
| | 2 Bedroom | room | 0.23 | 8 | | 1.84 | 0.62 | 1.14 | |
| | 3 Bedroom | room | 0.33 | 6 | | 1.98 | 0.62 | 1.23 | |
| | Time Share Villas ^e | single family | | | | | | | |
| | 3 bedroom | room | 0.33 | 2 | | 0.66 | 0.62 | 0.41 | |
| | 4 bedroom | room | 0.43 | 2 | | 0.86 | 0.62 | 0.53 | |
| | Subtotal | | | | | | 7.29 | | 4.52 |
| | | | | | # Of Seats | | | | |
| | Main Hotel Restaurant | restaurant | 0.02 | | 30 | | 0.6 | 0.62 | 0.37 |
| | Coffee and Tea Cafe | coffee house | 0 | | | 2,000 | 0 | 0.62 | 0.00 |
| | Spa Restaurant | restaurant | 0.02 | | | | 0 | 0.62 | 0.00 |
| | Meetings/ Conference ^f | | | | | | | | |
| | Banquet/Kitchen | meeting hall | 0 | | | 3,500 | 0 | 0.62 | 0.00 |
| Conference Room | conference room | 0 | | | 9,016 | 0 | 0.62 | 0.00 | |
| Culinary School ^g | restaurant | 0 | | | | 0 | 0.62 | 0.00 | |
| Administration Support ^f | support | | | | | | | | |
| Back of House ^c | support | | | | | | | | |
| Subtotal | | | | | | 0.6 | | 0.37 | |
| Hamlet | Day Spa | spa | 0 | | | | 0.62 | 0.00 | |
| | General Retail Stores | retail | 0 | | 3,500 | 0 | 0.62 | 0.00 | |
| | Artist Studio & Stores | retail | 0 | | 6,300 | 0 | 0.62 | 0.00 | |
| | Real Estate Office | retail | 0 | | 450 | 0 | 0.62 | 0.00 | |
| | Vineyard Facilities | retail | 0 | | 3,200 | 0 | 0.62 | 0.00 | |
| | Garden Center | nursery | 0 | | 3,000 | 0 | 0.62 | 0.00 | |
| | Subtotal | | | | | | 0 | | 0.00 |
| Spa | Spa Facilities ^h | spa | 0 | | | | 0.62 | 0.00 | |
| | Teahouse | spa | | | | | | | |
| | Hammans and Kniepp | spa | | | | | | | |
| | Aqua Course & Massage | spa | | | | | | | |
| | Villas and Pavilions | spa | | | | | | | |
| | Creative Center | spa | | | | | | | |
| Subtotal | | | | | | 0 | | 0.00 | |
| Fitness | Fitness Facilities | | | | | | | | |
| | Golf School | gym | 0 | | 2,000 | 0 | 0.62 | 0.00 | |
| | Basketball and Racquetball | gym | 0 | | 9,400 | 0 | 0.62 | 0.00 | |
| | Lap Pool | pool | 0 | | 24.6 | 0 | 0.62 | 0.00 | |
| Subtotal | | | | | | 0 | | 0.00 | |
| Miscellaneous | Support Facilities ^a | | | | | | | | |
| | Institute | educational | 0 | | 4,000 | 0 | 0.62 | 0.00 | |
| | Visitor Center | retail | 0 | | 750 | 0 | 0.62 | 0.00 | |
| | Pet Spa | veterinary | 0 | | 400 | 0 | 0.62 | 0.00 | |
| Subtotal | | | | | | 0 | | 0.00 | |
| Potable Water Use | | | | | | | | | |
| Subtotal | | | | | | 7.89 | 0.62 | 4.89 | |
| Supplemental Irrigation ⁱ | | | | | | | | | |
| Totals | | | | | | 7.89 | | 4.89 | |

TABLE 1
Paraiso Resort Water Calculations

| | Facility Description ^a | Type | Water Use Factor ^b | Number of Units | Sq Ft | Total Acre-feet/Year | Conversion Acre-feet to gpm | Total gpm | |
|---|-----------------------------------|--------------|-------------------------------|-----------------|-------------------|----------------------|-----------------------------|--------------|--------------|
| Full Project Buildout Summary | | | | | | | | | |
| Hotel | Hotel Rooms ^c | room | 0.13 | 105 | | 13.65 | 0.62 | 8.46 | |
| | Time Share Condos ^d | | | 60 | | | | | |
| | 2 Bedroom | room | 0.23 | 34 | | 7.82 | 0.62 | 4.85 | |
| | 3 Bedroom | room | 0.33 | 26 | | 8.58 | 0.62 | 5.32 | |
| | Time Share Villas ^e | | | 17 | | | | | |
| | 3 bedroom | room | 0.33 | 9 | | 2.97 | 0.62 | 1.84 | |
| | 4 bedroom | room | 0.43 | 8 | | 3.44 | 0.62 | 2.13 | |
| | Subtotal | | | | | | 36.46 | | 22.61 |
| | | | | | # Of Seats | | | | |
| | Main Hotel Restaurant | restaurant | 0.02 | 205 | | 4.1 | 0.62 | 2.54 | |
| | Coffee and Tea Cafe | coffee house | 0.0002 | | 2,000 | 0.4 | 0.62 | 0.25 | |
| | Spa Restaurant | restaurant | 0.02 | 33 | | 0.66 | 0.62 | 0.41 | |
| | Meetings/ Conference ^f | | | | | | | | |
| | Banquet/Kitchen | meeting hall | 0.00053 | | 3,500 | 1.855 | 0.62 | 1.15 | |
| Conference Room | conference room | 0.00007 | | 9,016 | 0.63112 | 0.62 | 0.39 | | |
| Culinary School ^g | restaurant | 0.02 | 20 | | 0.4 | 0.62 | 0.25 | | |
| Administration Support ^h Back of House ^e | support support | | | | | | | | |
| Subtotal | | | | | | 8.04612 | | 4.99 | |
| Hamlet | Day Spa | spa | 0.05 | | | 0.05 | 0.62 | 0.03 | |
| | General Retail Stores | retail | 0.00007 | | 3,500 | 0.245 | 0.62 | 0.15 | |
| | Artist Studio & Stores | retail | 0.00007 | | 6,300 | 0.441 | 0.62 | 0.27 | |
| | Real Estate Office | retail | 0.00007 | | 450 | 0.0315 | 0.62 | 0.02 | |
| | Vineyard Facilities | retail | 0.00007 | | 3,200 | 0.224 | 0.62 | 0.14 | |
| | Garden Center | nursery | 0.00009 | | 3,000 | 0.27 | 0.62 | 0.17 | |
| | Subtotal | | | | | | 1.2615 | | 0.78 |
| Spa | Spa Facilities ^h | spa | 0.05 | | | 0.05 | 0.62 | 0.03 | |
| | Teahouse | spa | | | | | | | |
| | Hammans and Kniepp | spa | | | | | | | |
| | Aqua Course & Massage | spa | | | | | | | |
| | Villas and Pavilions | spa | | | | | | | |
| Creative Center | spa | | | | | | | | |
| Subtotal | | | | | | 0.05 | | 0.03 | |
| Fitness | Fitness Facilities | | | | | | | | |
| | Golf School | gym | 0.00007 | | 2,000 | 0.14 | 0.62 | 0.09 | |
| | Basketball and Racquetball | gym | 0.00007 | | 9,400 | 0.658 | 0.62 | 0.41 | |
| | Lap Pool | pool | 0.02 | | 24.6 | 0.492 | 0.62 | 0.31 | |
| Subtotal | | | | | | 1.29 | | 0.80 | |
| Miscellaneous | Support Facilities ^a | | | | | | | | |
| | Institute | educational | 0.00007 | | 4,000 | 0.28 | 0.62 | 0.17 | |
| | Visitor Center | retail | 0.00007 | | 750 | 0.0525 | 0.62 | 0.03 | |
| | Pet Spa | veterinary | 0.00007 | | 400 | 0.028 | 0.62 | 0.02 | |
| Subtotal | | | | | | 0.3605 | | 0.22 | |
| Potable Water Use | Subtotal | | | | | 47.47 | 0.62 | 29.43 | |
| Supplemental Irrigation ⁱ | | | | | | 15.96 | 0.62 | 9.89 | |
| | Totals | | | | | 63.43 | | 39.32 | |

^aAll facilities are as outlined on the Tentative Map.

^bWater use factors from Table 2: Non-residential water use factors from MPWMD.

^cThere are 103 hotel units, with a total of 105 bedrooms. The water use factor of 0.13 was used because the rooms would include large tubs. Included in the 0.13 acre-feet number is administration, support, back of house, laundry and irrigation within 10 feet of the hotel units.

^dEach Time Share Condo will have one large tub.

^eEach Time Share Villa will have one large tub.

^fBanquet/Kitchen space is separated from the conference room space and different water use factors are applied to each use. Conference rooms are assumed to corporate meeting-type facilities with low-moderate water use.

^gThe square footage for the culinary school has been subtracted out of the meetings and conference space because it is a specialty use and has been treated as restaurant for the purposes of water calculations.

^hAll facilities included in the main hotel spa. The different names like Kniepp or Japanese are just marketing names for the types of treatments you can expect in part of the spa. The Hammams are the men's and women's locker rooms. The Tea House is included in the coffee house calculation above.

ⁱRepresents an annual average irrigation rate, not a peak rate.

TABLE 1
Paraiso Resort Water Calculations

| | Facility Description ^a | Type | Water Use Factor ^b | Number of Units | Sq Ft | Total Acre-feet/Year | Conversion Acre-feet to gpm | Total gpm | |
|--|-----------------------------------|--------------------|-------------------------------|-----------------|-------------------|----------------------|-----------------------------|-------------|------|
| Phase 4 Increment – High Water Use Scenario | | | | | | | | | |
| Hotel | Hotel Rooms ^c | room | 0.13 | 13 | | 1.69 | 0.62 | 1.05 | |
| | Time Share Condos ^d | | | | | | | | |
| | 2 Bedroom | room | 0.23 | 8 | | 1.84 | 0.62 | 1.14 | |
| | 3 Bedroom | room | 0.33 | 6 | | 1.98 | 0.62 | 1.23 | |
| | Time Share Villas ^e | | | | | | | | |
| | 3 bedroom | single family room | 0.33 | 2 | | 0.66 | 0.62 | 0.41 | |
| | 4 bedroom | room | 0.43 | 2 | | 0.86 | 0.62 | 0.53 | |
| | Subtotal | | | | | | 7.03 | | 4.36 |
| | | | | | # Of Seats | | | | |
| | Main Hotel Restaurant | restaurant | 0 | | | | 0 | 0.62 | 0.00 |
| | Coffee and Tea Cafe | coffee house | 0 | | 2,000 | | 0 | 0.62 | 0.00 |
| | Spa Restaurant | restaurant | 0 | | | | 0 | 0.62 | 0.00 |
| | Meetings/ Conference ^f | | | | | | | | |
| | Banquet/Kitchen | meeting hall | 0 | | 3,500 | | 0 | 0.62 | 0.00 |
| Conference Room | conference room | 0 | | 9,016 | | 0 | 0.62 | 0.00 | |
| Culinary School ^g | restaurant | 0 | | | | 0 | 0.62 | 0.00 | |
| Administration Support ^h | support | | | | | | | | |
| Back of House ^c | support | | | | | | | | |
| Subtotal | | | | | | 0 | | 0.00 | |
| Hamlet | Day Spa | spa | 0 | | | | 0.62 | 0.00 | |
| | General Retail Stores | retail | 0 | | 3,500 | 0 | 0.62 | 0.00 | |
| | Artist Studio & Stores | retail | 0 | | 6,300 | 0 | 0.62 | 0.00 | |
| | Real Estate Office | retail | 0 | | 450 | 0 | 0.62 | 0.00 | |
| | Vineyard Facilities | retail | 0 | | 3,200 | 0 | 0.62 | 0.00 | |
| | Garden Center | nursery | 0 | | 3,000 | 0 | 0.62 | 0.00 | |
| | Subtotal | | | | | | 0 | | 0.00 |
| Spa | Spa Facilities ^h | spa | 0 | | | | 0.62 | 0.00 | |
| | Teahouse | spa | | | | | | | |
| | Hammans and Kniepp | spa | | | | | | | |
| | Aqua Course & Massage | spa | | | | | | | |
| | Villas and Pavilions | spa | | | | | | | |
| | Creative Center | spa | | | | | | | |
| Subtotal | | | | | | 0 | | 0.00 | |
| Fitness | Fitness Facilities | | | | | | | | |
| | Golf School | gym | 0 | | 2,000 | 0 | 0.62 | 0.00 | |
| | Basketball and Racquetball | gym | 0 | | 9,400 | 0 | 0.62 | 0.00 | |
| | Lap Pool | pool | 0 | | 24.6 | 0 | 0.62 | 0.00 | |
| Subtotal | | | | | | 0 | | 0.00 | |
| Miscellaneous | Support Facilities ^a | | | | | | | | |
| | Institute | educational | 0 | | 4,000 | 0 | 0.62 | 0.00 | |
| | Visitor Center | retail | 0 | | 750 | 0 | 0.62 | 0.00 | |
| | Pet Spa | veterinary | 0 | | 400 | 0 | 0.62 | 0.00 | |
| Subtotal | | | | | | 0 | | 0.00 | |
| Potable Water Use Subtotal | Subtotal | | | | | 7.03 | 0.62 | 4.36 | |
| Supplemental Irrigation ⁱ | | | | | | | | | |
| Totals | | | | | | 7.03 | | 4.36 | |

TABLE 2
Paraiso Hot Springs Peak Day Potable Water Demand

| Phase | Potable Water | |
|---------------|---------------|-------|
| | (gpd) | (gpm) |
| Phase 1 | 21,430 | 14.88 |
| Phase 2 | 7,630 | 5.30 |
| Phase 3 | 7,040 | 4.89 |
| Phase 4 | 6,280 | 4.36 |
| Full Buildout | 42,380 | 29.43 |

Notes:

gpd = gallons per day

gpm = gallons per minute

Potable Water Source

Onsite pump tests were conducted on the potable supply well, Well No. 1 or Main Well, and Well No. 2, from November 26 through December 6, 2007 (see Attachment 3) Water Well Location Map and Attachment 4, *Paraiso Springs Resort 10-day Pumping Test Results Technical Memorandum*). These tests resulted in a sustained yield of 58.5 gallons per minute (gpm) for the Main Well and 334.8 gpm for Well No. 2. According to Monterey County’s Source Capacity Test Procedures, a 10-day pumping test for wells produced from a non-alluvial formation for water systems will allow a source capacity credit of 50 percent. This means that Well No. 1, the Main Well, is allowed a capacity credit of 29.3 gpm.

Well No. 2 provides a 335-gpm sustained yield that would be reduced by 50 percent to 167 gpm, per County Source Capacity Test Procedures. Together, these wells can provide 196.3 gpm of water supply, to meet the 29.4-gpm peak potable water demand and also the supplemental irrigation water demand at buildout.

Based on the most recent water quality test data (see Attachment 5, September, 2009 and December, 2007, Water Quality Data), water from these wells cannot be used for potable purposes directly because fluoride levels exceed the public health standard of 1.0 mg/L.

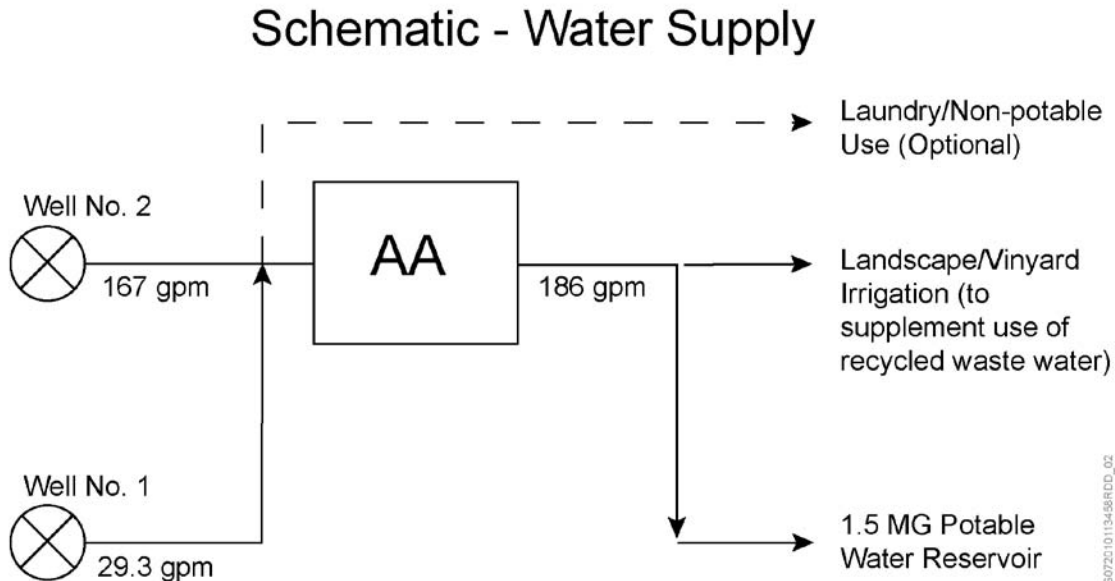
The following three options for fluoride removal were, therefore, evaluated:

- Ion exchange
- Reverse osmosis (RO)
- Activated alumina (AA)

The recommended option is activated alumina because of low initial cost and low volume of waste generated; however, a detailed evaluation of life-cycle costs has not been performed. This treatment process involves water passed through a tank containing activated aluminum supported by a bed of gravel. The activated aluminum would require regeneration approximately weekly using an acid solution. The waste regeneration solution would then be neutralized using caustic soda. Acid and caustic soda would be delivered to the site in 275-gallon totes; the totes would be stored onsite and provided with secondary containment.

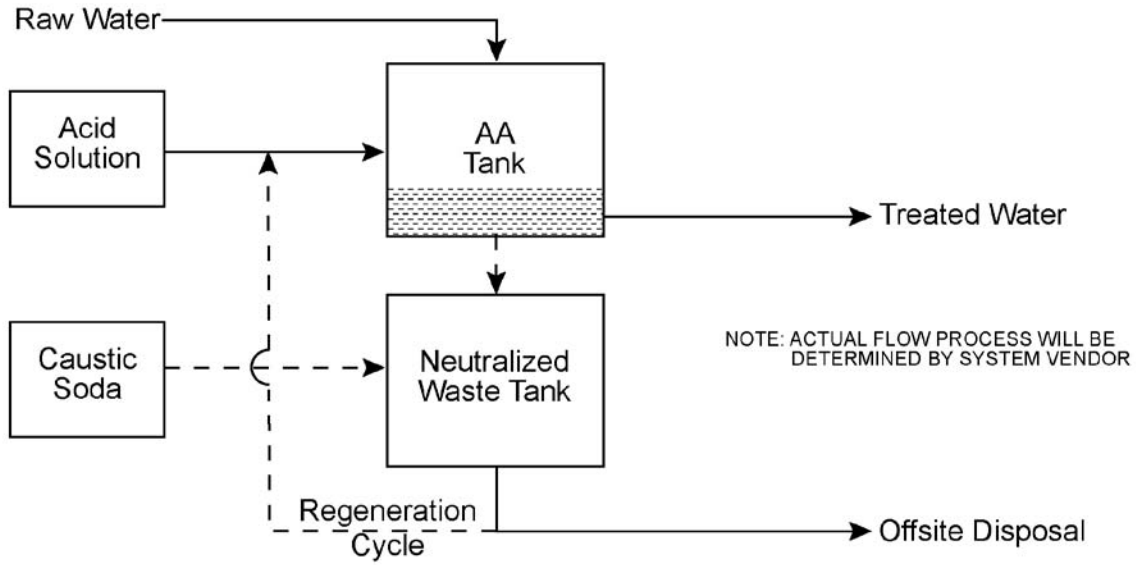
The AA regeneration process would result in an approximate 5 percent loss of water volume as neutralized waste, which would be disposed of offsite. This will further reduce the available capacity of the wells to approximately 186 gpm. However, the two wells can still provide an adequate supply of potable water for the Paraiso Springs Resort. A brochure for a representative system supplier is included as Attachment 6.

Following is a schematic diagram showing the proposed piping and AA treatment layout using both Well No. 1 and Well No. 2 for potable water use.



Schematic Diagram of Proposed Water System

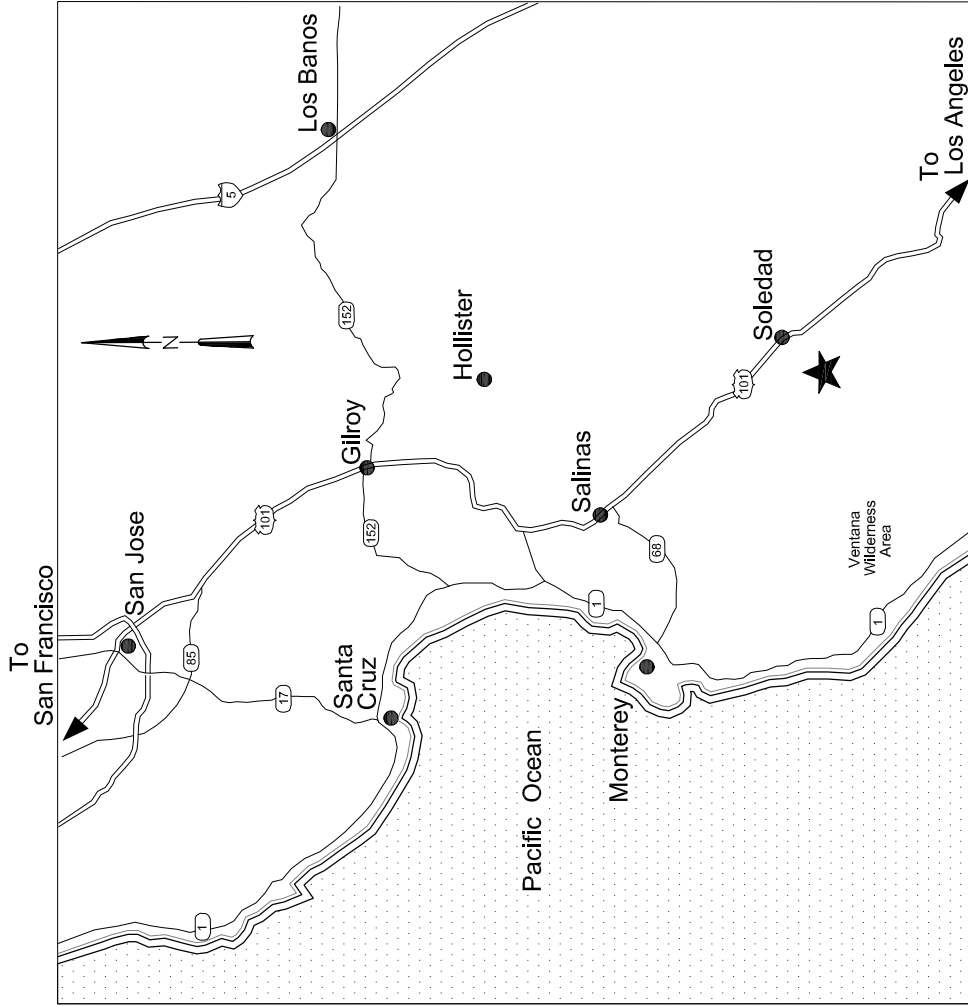
A schematic diagram of the proposed AA treatment process described above is generally outlined below. It is anticipated that this system will be supplied, maintained and operated by a qualified vendor.



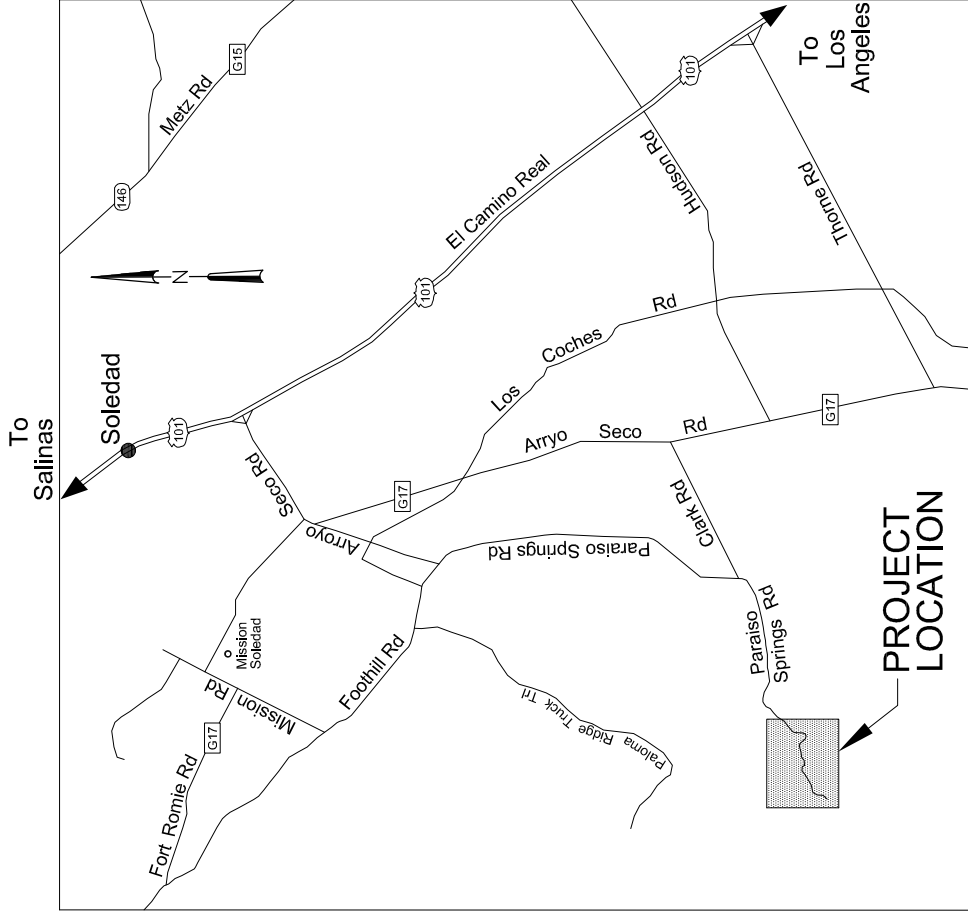
Activated Alumina Treatment Flow Diagram

The well drilling logs for the two existing potable water source wells are included as Attachment 7. However, these logs are very difficult to read. Consequently, a video survey of both Well No. 1 and Well No. 2 was conducted by Salinas Pump Company in January 2008. A summary of these surveys was compiled and is also included in Attachment 7. Based on the survey results, it is recommended that both of these wells be rehabilitated during construction of the proposed Project to increase their longevity and efficiency.

Attachment 1
Location Map



NTS



NTS

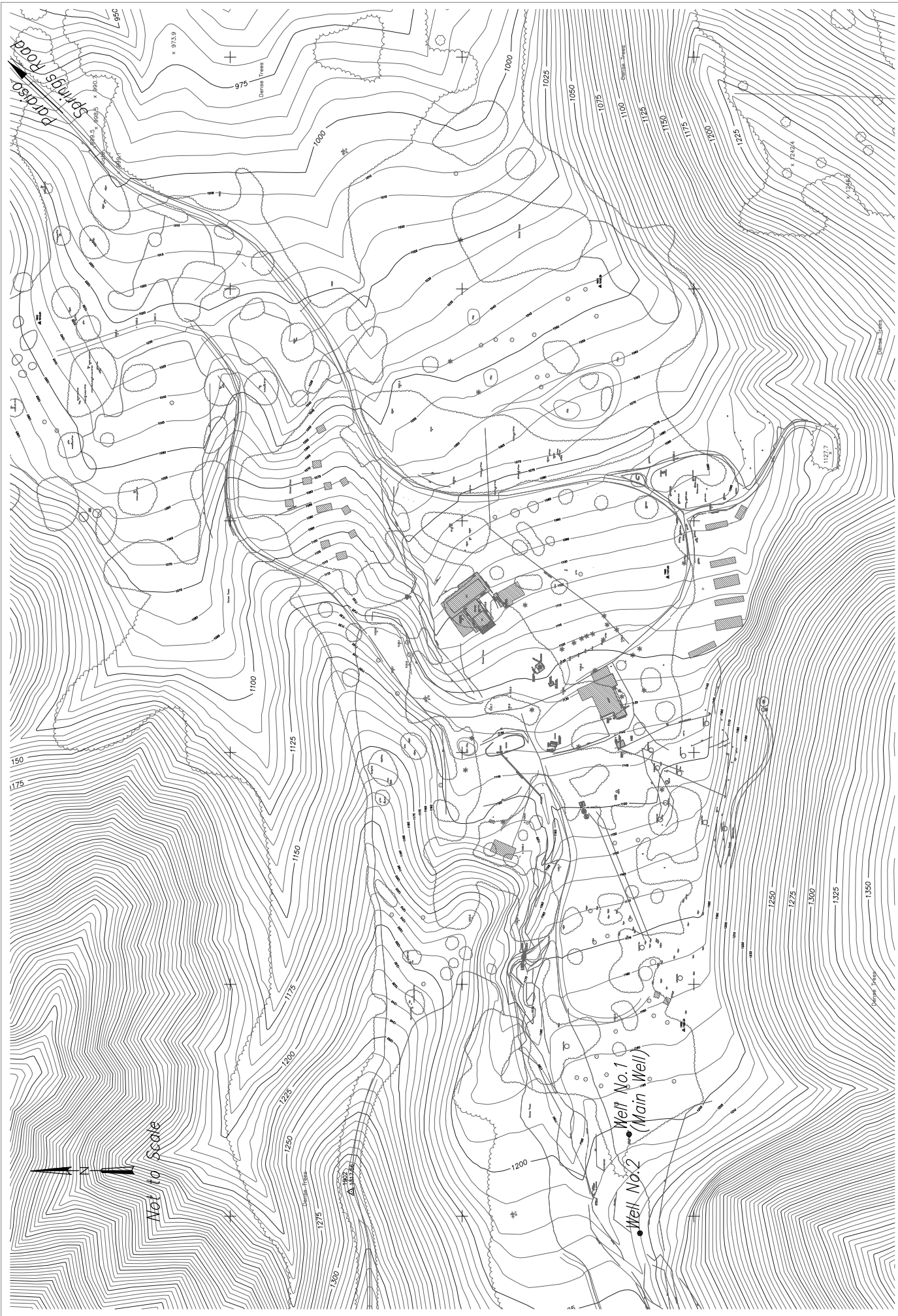
Attachment 2
Site Plan



PARAISO SPRINGS RESORT
Soledad, California

Site Plan

Attachment 3
Water Well Location Map



PARAISO SPRINGS RESORT
Soledad, California

Potable Water Wells Location Map

Attachment 4
10-day Pumping Test Results

Paraiso Springs Resort 10-day Pumping Test Results

PREPARED FOR: Bill Thompson/Thompson Holdings LLC
PREPARED BY: Eli Ludwig/CH2M HILL
Nate Brown/CH2M HILL
COPIES: Dave Von Rueden/CH2M HILL
DATE: February 26, 2008
PROJECT NUMBER: 366335.A1.03

Introduction

Groundwater is anticipated to be the source of supply for the planned Paraiso Springs Resort near Soledad, California. As stated in the Monterey County Department of Environmental Health, Source Capacity Test Procedures¹:

"All wells that are proposed to supply water for domestic use or to be connected to a water distribution system shall undergo a continuous well-capacity (pumping) test to determine the yield of the well."

Specifically, Section 15.04.140 of Title 15 (i.e., Quantity of Water Supply)² requires a civil engineer, hydrogeologist, or other qualified person as approved by Monterey County, to perform a source capacity (i.e., pumping) test. The pumping test shall be conducted as follows:

- Initiated after the water level has stabilized; the water level shall be monitored throughout the pumping and recovery periods
- Pumped continuously using a constant rate of water discharge over a minimum time period prescribed by Monterey County
- Witnessed by a representative of Monterey County
- Conducted so that discharge water is prevented to recharge the pumping well during the test and not allowed to pond or percolate within 200 feet from the water source

As such, Thompson Holdings LLC tasked CH2M HILL with overseeing groundwater pumping tests conducted during the fourth quarter of 2007 to evaluate groundwater yield from selected existing wells at the site. A preliminary groundwater pumping test was started on November 14, 2007, but ended prematurely due to equipment failure. A successful 10-day pumping test was conducted from November 26, 2007 through December 6, 2007 at two wells; Well #1 (also known as "Main Well") and Well #2 (also known as

¹ <http://www.co.monterey.ca.us/health/EnvironmentalHealth/WaterProt/forms/sourceCapacity.pdf>

² <http://municipalcodes.lexisnexis.com/codes/montereyco/>

“Fluoride Well”). Figure 1 shows a well layout map (all figures are located at the end of this technical memorandum).

In order for Monterey County to determine whether a source capacity test is adequate for evaluation of long-term reliability of the source, a report must provide at least the following minimum information:

- Calculation of specific capacity and available drawdown
- Documentation of recovery
- Calculation of sustained yield

The purpose of this technical memorandum is to document the results of the 10-day pumping test with consideration of the reporting requirements listed above.

Mobilization and Setup

With the exception of additional discharge piping provided at Well #1 and Well #2 on November 30, 2007 by CH2M HILL, equipment for the pumping tests was provided and installed by Maggiora Brothers Drilling, Inc. (Maggiora Bros) of Watsonville, California on November 26, 2007. Submersible pumps equipped with internal check valves were installed in both wells. Table 1 lists the approximate length of discharge hosing and depths of the pump intakes in Well #1 and Well #2. Discharge was directed to the east and southeast from the wells.

TABLE 1
 Summary of Initial Pumping Test Setup
Paraiso Springs Resort 10-day Pumping Test Results

| | Well #1 | Well #2 |
|--|------------|--------------|
| Length of Discharge Hose (feet) ^a | 200 to 400 | 400 to 1,000 |
| Depth to Pump Intake (feet bgs) ^b | 94.5 | 129.8 |

^aThe lengths of discharge hoses met the Monterey County requirements. Discharge water was prevented to pond, percolate, or recharge the pumping well within 200 feet from the water source. The low end of the range indicates the initial length of discharge hose used prior to November 30, 2007. The high end of the range indicates the length of discharge hose after additional hose was added on November 30, 2007.

^bUsed to compute the available drawdown during testing.
 bgs = below ground surface

The wells were equipped with data-logging pressure transducers (installed in 1-inch diameter sounding tubes). The transducers were programmed to record water pressure, water temperature, and depth to water at 5-minute intervals.

Execution of Pumping Test

The pumping test was started at Well #1 on November 26, 2007 at 1:25 PM after measuring the static (i.e., nonpumping) depth to water and estimating the available static drawdown (SD) according to Equation 1:

$$SD = \text{Pump Intake Depth} - \text{Pumping Head Contingency} - \text{Static Water Level Depth} \quad (1)$$

A Pumping Head Contingency value of 5 feet above the pump intake was assumed to be sufficient to maintain suction during pumping. The SD's at Well #1 and Well #2 were estimated as follows:

$$SD_{\text{Well\#1}} = 94.5 \text{ feet bgs} - 5 \text{ feet} - 68.7 \text{ feet bgs} = 20.8 \text{ feet}$$

$$SD_{\text{Well\#2}} = 129.8 \text{ feet bgs} - 5 \text{ feet} - 3.0 \text{ feet bgs} = 121.8 \text{ feet}$$

Depth to water and totalizer volumes were recorded as specified in the Source Capacity Test Procedures. A representative from the Monterey County Department of Environmental Health was on-site for the test start-up, periodically throughout the 10-day test, and at the end of the test. Thus, the requirement to have the pumping test witnessed by a representative of Monterey County was fulfilled. The pumping test was started at Well #2 on November 26, 2007 at 2:25 PM (Well #1 and Well #2 were pumped simultaneously from this point forward).

The pumping rates at both wells were adjusted during the initial portion of the tests with the objective of maximizing the projected sustained yield over the 10-day pumping duration. The target pumping rates for Well #1 and Well #2 were 72 and 340 gallons per minute (gpm), respectively, on the basis of previous pumping estimates. It was difficult to maintain a constant pumping rate at Well #1, as indicated by the totalizing flow meter, whose readings were very responsive to small adjustments made to the flow valve. It was determined that Well #1 would not sustain the target pumping rate for a 10-day pumping duration; thus, at approximately 2:40 PM on November 27, 2007, the pumping rate at Well #1 was reduced from approximately 70 to 58 gpm.

The pumping rate at Well #1 tended to decrease by 5 to 10 gpm over a several hour period, if the flow valve was not periodically adjusted to maintain a steady pumping rate. Thus, throughout the day on November 28, 29, and 30, the pumping rate at Well #1 was monitored and periodic adjustments were made to the flow valve to maintain a constant pumping rate, as directed by Liz Karis of Monterey County Department of Environmental Health. During the night hours, when staff were not available to make periodic adjustments to the flow valve, the pumping rate would decrease by about 5 gpm. However, on November 30, the pumping rate at Well #1 stabilized at approximately 58 gpm without further flow valve adjustments.

In addition to the pressure transducer readings, the water levels were also manually estimated every 8 hours after November 30, until the end of the 10-day pumping tests at Well #1 and Well #2. Furthermore, in addition to pumping rate readings from the instantaneous and totalizing flow meters, pumping rates were also periodically estimated manually using the following techniques to confirm that the flow meters were working properly:

- Noting the time required to fill a 55-gallon drum with discharge water
- Using the "down-and-out method" to estimate the pumping rate; involved measuring the distance (in units of inches) the outfall discharge stream of water traveled parallel to the discharge pipe, A, in falling 6 inches vertically; the pumping rate (in units of gpm)

was estimated by multiplying A by a constant that considers the inner diameter of the discharge pipe.

The manually estimated pumping rates confirmed that both flow meters were in working order. Figure 2 shows the time-series plots of drawdown observed during the execution of the pumping test.

Execution of Recovery Test

Both pumps at Well #1 and Well #2, were turned off at 2:30 PM on December 6, 2007. Recovery data were collected as specified in the Monterey County Source Capacity Test Procedures. Recovery was monitored in Well #1 and Well #2 until December 10, and December 31, 2007, respectively. Figure 3 shows the time-series plots of drawdown recovery observed during the recovery period.

Video Log Survey

Well construction data were not available for most of the existing wells on-site. Thus, a video log survey at existing wells was conducted on December 13, 2007. The purpose of the video log survey was to evaluate the overall condition of the well casing materials and to estimate the depths to the top and bottom of the screened intervals, as well as the total depths of the wells. Table 2 summarizes the well construction information that was obtained during the video log survey. However, the true depth to the bottom of each well could be deeper than indicated during the video log survey as a result of debris which has accumulated at the bottoms of some of the wells.

TABLE 2
Well Construction Details Inferred from the Video Log Survey
Paraiso Springs Resort 10-day Pumping Test Results

| Well Construction Component | Well #1 | Well #2 |
|----------------------------------|---------|---------|
| Top of Well Screen (feet bgs) | 45 | 115 |
| Bottom of Well Screen (feet bgs) | NE | NE |
| Bottom of Well (feet bgs) | 101 | 763 |

feet bgs = feet below ground surface

NE = not estimated; debris was present near the bottom of the well that obscured the well screen

Well Yield Evaluation

To aid Monterey County in evaluating results from the 10-day pumping test, this section includes estimates of the 10-day sustained yield and specific capacity at Well #1 and Well #2. Estimates of available drawdown and the documentation of drawdown recovery were described in previous sections of this technical memorandum (see Figures 2 and 3). Figure 4 shows the time-series pumping rates and specific capacity data over the duration of testing for Well #1 and Well #2. Data on Figure 4 are plotted on a logarithmic y-axis to facilitate review of both pumping rate and specific capacity data for both wells on one plot.

Sustained Yield

The sustained yields achieved at Well #1 and Well #2 during the 10-day test were 58.5 and 334.8 gpm, respectively, as shown on Figure 4. Per Monterey County guidelines, a 50-percent credit for the 10-day sustained yield is granted. Therefore, the credited sustained yields at Well #1 and Well #2 from the 10-day pumping tests are anticipated to be 29.3 and 167.4 gpm, respectively.

Specific Capacity

The specific capacity (SC) of each well was computed by dividing the instantaneous pumping rate, Q (in units of gpm), by the time-series drawdown, s (in units of feet), according to Equation 2:

$$SC = \frac{Q}{s} \quad (2)$$

Figure 4 shows the time-series specific capacity data during the 10-day pumping test using Equation 2. The pumping rate of approximately 70 gpm was lowered to approximately 58 gpm at Well #1, because drawdown was approaching the available static drawdown at Well #1 after only one day of pumping (see Figure 2). The SC at Well #1 was approximately 4.5 gallons per minute per foot of drawdown (gpm/ft), just prior to reducing the pumping rate (see Figure 4). By the end of the pumping test, the SC at Well #1 had increased to approximately 22 gpm/ft (see Figure 4). For the purposes of this pumping test, a range of SC of between 4.5 and 22 gpm/ft is reported for Well #1.

At Well #2, a sustained SC of approximately 4.5 gpm/ft was observed. Both the pumping rates and responses of groundwater levels to pumping were less variable at Well #2 than those observed at Well #1.

Attachment 5A
2009 Water Quality Test Data

Lynne Nagata
Soil Control Lab
42 Hangar Way
Watsonville, CA 95076

09/30/2009

Dear Lynne Nagata,

Thank you for selecting BSK Analytical Laboratories for your analytical testing needs. We have prepared this report in response to your request for analytical services. Please find enclosed the following sections for your complete laboratory report, each uniquely paginated:

CASE NARRATIVE: An overview of the work performed.

CERTIFICATE OF ANALYSIS: Analytical results.

QUALITY CONTROL (QC) SUMMARY: QC supporting the results presented herein.

REPORT OF SAMPLE INTEGRITY

CHAIN OF CUSTODY FORM

Certification: BSK Analytical Laboratories certifies that the test results contained in this report meet all requirements of the NELAC Standards for applicable certified drinking water chemistry analyses under CA NELAP Certificate #04227CA, CA-ELAP Certificate #1180, and Nevada Certificate #CA79. For all other matrices and bacteriological analyses, this data package is in compliance with ELAP Standards for applicable certified analyses under CA-ELAP Certificate #1180. Any exceptions to applicable standards have been noted in the case narrative. Please note that certifications are applicable only to tests and/or analytes specified on each. Certification information may be obtained by contacting the laboratory or visiting our website at www.bsklabs.com. The results in this report pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from BSK Analytical Laboratories.

If additional clarification of any information is required, please contact your Client Services Representative, Dan Larkin, at (800) 877-8310 or (559) 497-2888.

BSK ANALYTICAL LABORATORIES



Dan Larkin
Client Services Representative



SAMPLE AND RECEIPT INFORMATION

The sample(s) was received, prepared, and analyzed within the method specified holding times unless otherwise noted on the Certificate of Analysis. Samples, when shipped, arrived within acceptable temperature requirements of 0° to 6° Celsius unless otherwise noted on the Report of Sample Integrity. Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.

QUALITY CONTROL

All analytical quality controls are within established method criteria except when noted in the Quality Control section or on the Certificate of Analysis. All positive results for EPA Methods 504.1, 502.2, and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed. QC samples may include analytes not requested in this submission.

| <u>RUN</u> | <u>ORDER</u> | <u>TEST</u> | <u>ANALYTE</u> | <u>COMMENT</u> |
|------------|--------------|-------------|----------------|--|
| 179424 | 1166081 | EPA 525.2 | | MS recovery was affected by the matrix for one or more analytes. |

SAMPLE RESULT INFORMATION

Samples are analyzed as received (wet weight basis) unless noted here. The results relate only to the items tested. Any exceptions to be considered when evaluating these results are also listed here, if applicable. Results contained in this package shall not be reproduced, except in full, without written approval of BSK Analytical Laboratories.

| <u>ORDER</u> | <u>TEST</u> | <u>ANALYTE</u> | <u>COMMENT</u> |
|--------------|-------------|----------------|----------------|
|--------------|-------------|----------------|----------------|

Carbon Copies to:

DHS_EDT: Electronic Data Transfer @ STATE FORMS



ORGANIC CHEMICAL ANALYSIS (03/03)

Date of Report: 09/09/30 Sample ID No. 2009091331-1162371
 Laboratory Authorized
 Name: BSK ANALYTICAL LABORATORIES Signature: *J. Koelwyn*
 Name of Sampler: Mike Christensen Employed By: Soil Control Lab
 Date/Time Sample Date/Time Sample Date Analyses
 Collected: 09/09/14/1600 Received: 09/09/17/1000 Completed: 09/09/28

System Name: PARAIISO HOT SPRINGS WS System #: 2701001
 Name or Number of Sample Source: WELL 01

 User ID: 27C Station Number: 2701001-001
 Date/Time of Sample: 09/09/14/1600 Laboratory Code: 5810
 Date Analysis Completed: 09/09/28

Submitted by: _____ Phone #: _____

REGULATED ORGANIC CHEMICALS

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED µg/L | ENTRY # | ANALYSES RESULTS | MCL µg/L | DLR µg/L |
|-------------|---|---------|------------------|----------|----------|
| EPA 525.2 | Atrazine (AATREX) | 39033 | ND | 1 | 0.5 |
| EPA 525.2 | Simazine (PRINCEP) | 39055 | ND | 4 | 1. |
| EPA 525.2 | Alachlor (ALANEX) | 77825 | ND | 2 | 1. |
| EPA 515.3 | Bentazon (BASAGRAN) | 38710 | ND | 18 | 2. |
| EPA 515.3 | 2,4-D | 39730 | ND | 70 | 10. |
| EPA 515.3 | 2,4,5-TP (SILVEX) | 39045 | ND | 50 | 1. |
| EPA 531.1 | Carbofuran (FURADAN) | 81405 | ND | 18 | 5. |
| EPA 515.3 | Dalapon | 38432 | ND | 200 | 10. |
| EPA 515.3 | Dinoseb (DNBP) | 81287 | ND | 7 | 2. |
| EPA 549.2 | Diquat | 78885 | ND | 20 | 4. |
| EPA 531.1 | Oxamyl (Vydate) | 38865 | ND | 50 | 20. |
| EPA 515.3 | Pentachlorophenol (PCP) | 39032 | ND | 1 | 0.2 |
| EPA 515.3 | Picloram | 39720 | ND | 500 | 1. |

UNREGULATED ORGANIC CHEMICALS

| | | | | | |
|-----------|---------------------|-------|----|--|-----|
| EPA 531.1 | Aldicarb (TEMIK) | 39053 | ND | | 3. |
| EPA 531.1 | Aldicarb Sulfone | A-020 | ND | | 4. |
| EPA 531.1 | Aldicarb Sulfoxide | A-019 | ND | | 3. |
| EPA 531.1 | Carbaryl (Sevin) | 77700 | ND | | 5. |
| EPA 515.3 | Dicamba (BANVEL) | 82052 | ND | | 1.5 |
| EPA 531.1 | 3-Hydroxycarbofuran | A-021 | ND | | 3. |
| EPA 531.1 | Methomyl | 39051 | ND | | 2. |

Note: MTBE's primary MCL is 13 µg/L; the secondary MCL is 5 µg/L
 MCL for Total THM was lowered to 80 µg/L, effective 1/1/04

Note: BSK DLRs for THM and HAA constituents are 0.5 µg/L, which is lower than the state DLRs.
 The total values on the state forms may reflect values that are reported as "ND" at the state
 DLR, but are detected at BSK levels.

REGULATED ORGANIC CHEMICALS CONTINUED

2009091331-1162371

| TEST METHOD | CHEMICAL ALL CHEMICALS REPORTED µg/L | ENTRY # | ANALYSES RESULTS | MCL µg/L | DLR µg/L |
|----------------|---|------------|---------------------|-------------|-------------|
| EPA 515.3 | 2,4,5-T | 39740 | < 1.0 | | |

Lynne Nagata
Soil Control Lab
42 Hangar Way
Watsonville, CA 95076

BSK Submission #: 2009091331

BSK Sample ID #: 1162371

Report Issue Date: 09/30/2009

Project ID: 9090428

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 09/14/2009

Sample Description: 2701001-001 Well Head 1

Time Sampled: 1600

Sample Comments: 9090428-01

Date Received: 09/17/2009

Organics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|-------------------------|-----------|--------|-------|------|----------|------|----------------|--------------------|
| 2,4,5-T | EPA 515.3 | ND | µg/L | 1.0 | 1 | 1.0 | 09/22/09 | 09/25/09 |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | µg/L | 1.0 | 1 | 1.0 | 09/22/09 | 09/25/09 |
| 2,4-D | EPA 515.3 | ND | µg/L | 10 | 1 | 10 | 09/22/09 | 09/25/09 |
| Bentazon (Basagran) | EPA 515.3 | ND | µg/L | 2.0 | 1 | 2.0 | 09/22/09 | 09/25/09 |
| Dalapon | EPA 515.3 | ND | µg/L | 10 | 1 | 10 | 09/22/09 | 09/25/09 |
| Dicamba (Banvel) | EPA 515.3 | ND | µg/L | 1.5 | 1 | 1.5 | 09/22/09 | 09/25/09 |
| Dinoseb (DNBP) | EPA 515.3 | ND | µg/L | 2.0 | 1 | 2.0 | 09/22/09 | 09/25/09 |
| Pentachlorophenol (PCP) | EPA 515.3 | ND | µg/L | 0.20 | 1 | 0.20 | 09/22/09 | 09/25/09 |
| Picloram | EPA 515.3 | ND | µg/L | 1.0 | 1 | 1.0 | 09/22/09 | 09/25/09 |
| Alachlor (Alanex) | EPA 525.2 | ND | µg/L | 1.0 | 1 | 1.0 | 09/24/09 | 09/28/09 |
| Atrazine (AAtrex) | EPA 525.2 | ND | µg/L | 0.50 | 1 | 0.50 | 09/24/09 | 09/28/09 |
| Simazine (Princep) | EPA 525.2 | ND | µg/L | 1.0 | 1 | 1.0 | 09/24/09 | 09/28/09 |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | µg/L | 3.0 | 1 | 3.0 | 09/23/09 | 09/23/09 |
| Aldicarb | EPA 531.1 | ND | µg/L | 3.0 | 1 | 3.0 | 09/23/09 | 09/23/09 |
| Aldicarb Sulfone | EPA 531.1 | ND | µg/L | 2.0 | 1 | 2.0 | 09/23/09 | 09/23/09 |
| Aldicarb Sulfoxide | EPA 531.1 | ND | µg/L | 3.0 | 1 | 3.0 | 09/23/09 | 09/23/09 |
| Carbaryl | EPA 531.1 | ND | µg/L | 5.0 | 1 | 5.0 | 09/23/09 | 09/23/09 |
| Carbofuran | EPA 531.1 | ND | µg/L | 5.0 | 1 | 5.0 | 09/23/09 | 09/23/09 |
| Methomyl | EPA 531.1 | ND | µg/L | 2.0 | 1 | 2.0 | 09/23/09 | 09/23/09 |
| Oxamyl | EPA 531.1 | ND | µg/L | 20 | 1 | 20 | 09/23/09 | 09/23/09 |
| Diquat | EPA 549.2 | ND | µg/L | 4.0 | 1 | 4.0 | 09/21/09 | 09/27/09 |

Surrogate

| | | | | | | | | |
|-----------------------------|-----------|------------|-------|---|---|-----|----------|----------|
| DCPAA | EPA 515.3 | 110 | % Rec | | 1 | N/A | 09/22/09 | 09/25/09 |
| 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 89 | %Rec | | 1 | N/A | 09/24/09 | 09/28/09 |
| BDMC | EPA 531.1 | 110 | % Rec | - | 1 | N/A | 09/23/09 | 09/23/09 |

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting
: PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory.
See External Laboratory Report attachments.
MDC: Min Detectable Concentration

Report Authentication Code:



Lynne Nagata
Soil Control Lab
42 Hangar Way
Watsonville, CA 95076

BSK Submission #: 2009091331

BSK Sample ID #: 1162372

Report Issue Date: 09/30/2009

Project ID: 9090428

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 09/14/2009

Sample Description: 2701001-002 Well Head 2

Time Sampled: 1615

Sample Comments: 9090428-02

Date Received: 09/17/2009

Organics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|-------------------------|-----------|--------|-------|------|----------|------|----------------|--------------------|
| 2,4,5-T | EPA 515.3 | ND | µg/L | 1.0 | 1 | 1.0 | 09/22/09 | 09/25/09 |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | µg/L | 1.0 | 1 | 1.0 | 09/22/09 | 09/25/09 |
| 2,4-D | EPA 515.3 | ND | µg/L | 10 | 1 | 10 | 09/22/09 | 09/25/09 |
| Bentazon (Basagran) | EPA 515.3 | ND | µg/L | 2.0 | 1 | 2.0 | 09/22/09 | 09/25/09 |
| Dalapon | EPA 515.3 | ND | µg/L | 10 | 1 | 10 | 09/22/09 | 09/25/09 |
| Dicamba (Banvel) | EPA 515.3 | ND | µg/L | 1.5 | 1 | 1.5 | 09/22/09 | 09/25/09 |
| Dinoseb (DNBP) | EPA 515.3 | ND | µg/L | 2.0 | 1 | 2.0 | 09/22/09 | 09/25/09 |
| Pentachlorophenol (PCP) | EPA 515.3 | ND | µg/L | 0.20 | 1 | 0.20 | 09/22/09 | 09/25/09 |
| Picloram | EPA 515.3 | ND | µg/L | 1.0 | 1 | 1.0 | 09/22/09 | 09/25/09 |
| Alachlor (Alanex) | EPA 525.2 | ND | µg/L | 1.0 | 1 | 1.0 | 09/24/09 | 09/28/09 |
| Atrazine (AAtrex) | EPA 525.2 | ND | µg/L | 0.50 | 1 | 0.50 | 09/24/09 | 09/28/09 |
| Simazine (Princep) | EPA 525.2 | ND | µg/L | 1.0 | 1 | 1.0 | 09/24/09 | 09/28/09 |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | µg/L | 3.0 | 1 | 3.0 | 09/23/09 | 09/23/09 |
| Aldicarb | EPA 531.1 | ND | µg/L | 3.0 | 1 | 3.0 | 09/23/09 | 09/23/09 |
| Aldicarb Sulfone | EPA 531.1 | ND | µg/L | 2.0 | 1 | 2.0 | 09/23/09 | 09/23/09 |
| Aldicarb Sulfoxide | EPA 531.1 | ND | µg/L | 3.0 | 1 | 3.0 | 09/23/09 | 09/23/09 |
| Carbaryl | EPA 531.1 | ND | µg/L | 5.0 | 1 | 5.0 | 09/23/09 | 09/23/09 |
| Carbofuran | EPA 531.1 | ND | µg/L | 5.0 | 1 | 5.0 | 09/23/09 | 09/23/09 |
| Methomyl | EPA 531.1 | ND | µg/L | 2.0 | 1 | 2.0 | 09/23/09 | 09/23/09 |
| Oxamyl | EPA 531.1 | ND | µg/L | 20 | 1 | 20 | 09/23/09 | 09/23/09 |
| Diquat | EPA 549.2 | ND | µg/L | 4.0 | 1 | 4.0 | 09/21/09 | 09/27/09 |

Surrogate

| | | | | | | | | |
|-----------------------------|-----------|-----|-------|---|---|-----|----------|----------|
| DCPAA | EPA 515.3 | 110 | % Rec | | 1 | N/A | 09/22/09 | 09/25/09 |
| 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 87 | %Rec | | 1 | N/A | 09/24/09 | 09/28/09 |
| BDMC | EPA 531.1 | 120 | % Rec | - | 1 | N/A | 09/23/09 | 09/23/09 |

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting
: PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory.
See External Laboratory Report attachments.
MDC: Min Detectable Concentration



QC Summary Report

09/30/2009



BSK Submission : **2009091331**
Client : **Soil Control Lab**
Date Submitted : **09/17/2009**
Project ID : **9090428**

NELAP Certificate #04227CA
ELAP Certificate #1180

Project Desc : **Thompson Holdings LLC**

BSK StarLims Run #: 179210



Analyst Initials: **MAYRAG**

Method Number: **531.1**

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|---------------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|-----|-----|----------|------------|
| 3-Hydroxycarbofuran | LCS | N/A | 26 | µg/L | 88 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb | LCS | N/A | 25 | µg/L | 84 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb Sulfone | LCS | N/A | 25 | µg/L | 83 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb Sulfoxide | LCS | N/A | 27 | µg/L | 89 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Carbaryl | LCS | N/A | 25 | µg/L | 82 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Carbofuran | LCS | N/A | 27 | µg/L | 89 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Methomyl | LCS | N/A | 25 | µg/L | 84 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Oxamyl | LCS | N/A | 26 | µg/L | 86 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| 3-Hydroxycarbofuran | LCSD | N/A | 29 | µg/L | 97 | 9.9 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb | LCSD | N/A | 27 | µg/L | 89 | 6 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb Sulfone | LCSD | N/A | 27 | µg/L | 89 | 6.4 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb Sulfoxide | LCSD | N/A | 28 | µg/L | 93 | 4.8 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Carbaryl | LCSD | N/A | 27 | µg/L | 90 | 9 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Carbofuran | LCSD | N/A | 29 | µg/L | 95 | 6.7 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Methomyl | LCSD | N/A | 26 | µg/L | 88 | 4.7 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Oxamyl | LCSD | N/A | 27 | µg/L | 91 | 6 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| 3-Hydroxycarbofuran | LDUP | 1162885 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/23/09 | Acceptable |
| Aldicarb | LDUP | 1162885 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/23/09 | Acceptable |
| Aldicarb Sulfone | LDUP | 1162885 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/23/09 | Acceptable |
| Aldicarb Sulfoxide | LDUP | 1162885 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/23/09 | Acceptable |
| Carbaryl | LDUP | 1162885 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/23/09 | Acceptable |
| Carbofuran | LDUP | 1162885 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/23/09 | Acceptable |
| Methomyl | LDUP | 1162885 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/23/09 | Acceptable |
| Oxamyl | LDUP | 1162885 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/23/09 | Acceptable |
| 3-Hydroxycarbofuran | MS | 1161992 | 28 | µg/L | 95 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb | MS | 1161992 | 28 | µg/L | 92 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb Sulfone | MS | 1161992 | 27 | µg/L | 90 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb Sulfoxide | MS | 1161992 | 28 | µg/L | 94 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Carbaryl | MS | 1161992 | 27 | µg/L | 89 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Carbofuran | MS | 1161992 | 29 | µg/L | 97 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Methomyl | MS | 1161992 | 27 | µg/L | 90 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Oxamyl | MS | 1161992 | 27 | µg/L | 91 | | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| 3-Hydroxycarbofuran | MSD | 1161992 | 28 | µg/L | 95 | 0.14 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb | MSD | 1161992 | 28 | µg/L | 93 | 1.3 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb Sulfone | MSD | 1161992 | 28 | µg/L | 93 | 3.7 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Aldicarb Sulfoxide | MSD | 1161992 | 29 | µg/L | 96 | 2.7 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
LDUP: Laboratory Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

Surrogate results for QC standards are not evaluated for acceptability (due to definition of a surrogate standard)

QC Summary Report

09/30/2009



BSK Submission : **2009091331**
Client : **Soil Control Lab**
Date Submitted : **09/17/2009**
Project ID : **9090428**

NELAP Certificate #04227CA
ELAP Certificate #1180

Project Desc : **Thompson Holdings LLC**

BSK StarLims Run #: 179210



Analyst Initials: **MAYRAG**

Method Number: **531.1**

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|---------------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|-----|-----|----------|------------|
| Carbaryl | MSD | 1161992 | 28 | µg/L | 92 | 2.7 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Carbofuran | MSD | 1161992 | 30 | µg/L | 100 | 3.2 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Methomyl | MSD | 1161992 | 27 | µg/L | 91 | 0.99 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| Oxamyl | MSD | 1161992 | 28 | µg/L | 94 | 4 | 30 | ND | 130 | 70 | 09/23/09 | Acceptable |
| 3-Hydroxycarbofuran | RBLK | N/A | ND | µg/L | < 3.0 | | | | 3.0 | N/A | 09/23/09 | Acceptable |
| Aldicarb | RBLK | N/A | ND | µg/L | < 3.0 | | | | 3.0 | N/A | 09/23/09 | Acceptable |
| Aldicarb Sulfone | RBLK | N/A | ND | µg/L | < 2.0 | | | | 2.0 | N/A | 09/23/09 | Acceptable |
| Aldicarb Sulfoxide | RBLK | N/A | ND | µg/L | < 3.0 | | | | 3.0 | N/A | 09/23/09 | Acceptable |
| Carbaryl | RBLK | N/A | ND | µg/L | < 5.0 | | | | 5.0 | N/A | 09/23/09 | Acceptable |
| Carbofuran | RBLK | N/A | ND | µg/L | < 5.0 | | | | 5.0 | N/A | 09/23/09 | Acceptable |
| Methomyl | RBLK | N/A | ND | µg/L | < 2.0 | | | | 2.0 | N/A | 09/23/09 | Acceptable |
| Oxamyl | RBLK | N/A | ND | µg/L | < 20 | | | | 20 | N/A | 09/23/09 | Acceptable |

Surrogate Results

| Analyte | QC Type | Surr. Result | UCL | LCL | Date | |
|---------|---------|-------------------|-----|-----|----------|---------------------|
| BDMC | LCS | N/A 88 % Rec | 92 | 130 | 70 | 09/23/09 Acceptable |
| BDMC | LCSD | N/A 100 % Rec | 92 | 130 | 70 | 09/23/09 Acceptable |
| BDMC | LDUP | 1162885 120 % Rec | 120 | 130 | 70 | 09/23/09 Acceptable |
| BDMC | MS | 1161992 100 % Rec | 100 | 130 | 70 | 09/23/09 Acceptable |
| BDMC | MSD | 1161992 100 % Rec | 100 | 130 | 70 | 09/23/09 Acceptable |
| BDMC | RBLK | N/A 92 % Rec | N/A | N/A | 09/23/09 | Acceptable |

StarLims Run 179210 includes the following BSK Sample ID# :

1161992 1162122 1162317 1162364 1162371 1162372 1162728 1162883 1162884 1162885 1164799 1164800 1164801 1164802 1164803 1164804

BSK StarLims Run #: 179342



Analyst Initials: **DANB**

Method Number: **549.2**

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|---------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|-----|-----|----------|------------|
| Diquat | LCS | N/A | 34 | µg/L | 85 | | 40 | ND | 150 | 50 | 09/27/09 | Acceptable |
| Diquat | LCSD | N/A | 37 | µg/L | 92 | 8.4 | 40 | ND | 150 | 50 | 09/27/09 | Acceptable |
| Diquat | LDUP | 1162122 | ND | µg/L | N/A | | | ND | 50 | N/A | 09/27/09 | Acceptable |
| Diquat | MS | 1161020 | 27 | µg/L | 67 | | 40 | ND | 150 | 50 | 09/27/09 | Acceptable |
| Diquat | MSD | 1161020 | 43 | µg/L | 107 | 45 | 40 | ND | 150 | 50 | 09/27/09 | Acceptable |
| Diquat | RBLK | N/A | ND | µg/L | < 4.0 | | | | 4.0 | N/A | 09/27/09 | Acceptable |

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
LDUP: Laboratory Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD

OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

Surrogate results for QC standards are not evaluated for acceptability (due to definition of a surrogate standard)

QC Summary Report

09/30/2009



BSK Submission : **2009091331**
Client : **Soil Control Lab**
Date Submitted : **09/17/2009**
Project ID : **9090428**

NELAP Certificate #04227CA
ELAP Certificate #1180

Project Desc : **Thompson Holdings LLC**

BSK StarLims Run #: 179342



Analyst Initials: **DANB**

Method Number: **549.2**

StarLims Run 179342 includes the following BSK Sample ID# :

1161020 1162122 1162248 1162317 1162364 1162371 1162372 1162890 1162891 1165731 1165732 1165733 1165734 1165735 1165736

BSK StarLims Run #: 179388



Analyst Initials: **PAULK**

Method Number: **5153**

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|-------------------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|-----|-----|----------|------------|
| 2,4,5-T | LCS | N/A | 3.3 | µg/L | 110 | | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4,5-TP (Silvex) | LCS | N/A | 3.1 | µg/L | 102 | | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4-D | LCS | N/A | 31 | µg/L | 104 | | 30 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Bentazon (Basagran) | LCS | N/A | 6.1 | µg/L | 101 | | 6 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dalapon | LCS | N/A | 31 | µg/L | 102 | | 30 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dicamba (Banvel) | LCS | N/A | 4.5 | µg/L | 103 | | 4.38 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dinoseb (DNBP) | LCS | N/A | 6.6 | µg/L | 110 | | 6 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Pentachlorophenol (PCP) | LCS | N/A | 0.56 | µg/L | 93 | | .6 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Picloram | LCS | N/A | 3.1 | µg/L | 103 | | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4,5-T | LCSD | N/A | 3.3 | µg/L | 109 | 1.2 | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4,5-TP (Silvex) | LCSD | N/A | 3.0 | µg/L | 101 | 0.32 | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4-D | LCSD | N/A | 30 | µg/L | 100 | 4 | 30 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Bentazon (Basagran) | LCSD | N/A | 6.0 | µg/L | 99 | 1.3 | 6 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dalapon | LCSD | N/A | 29 | µg/L | 96 | 5.7 | 30 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dicamba (Banvel) | LCSD | N/A | 4.3 | µg/L | 98 | 5.2 | 4.38 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dinoseb (DNBP) | LCSD | N/A | 6.8 | µg/L | 113 | 2.3 | 6 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Pentachlorophenol (PCP) | LCSD | N/A | 0.64 | µg/L | 106 | 13 | .6 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Picloram | LCSD | N/A | 3.1 | µg/L | 102 | 1.2 | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4,5-T | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/25/09 | Acceptable |
| 2,4,5-TP (Silvex) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/25/09 | Acceptable |
| 2,4-D | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/25/09 | Acceptable |
| Bentazon (Basagran) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/25/09 | Acceptable |
| Dalapon | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/25/09 | Acceptable |
| Dicamba (Banvel) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/25/09 | Acceptable |
| Dinoseb (DNBP) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/25/09 | Acceptable |
| Pentachlorophenol (PCP) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/25/09 | Acceptable |
| Picloram | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/25/09 | Acceptable |
| 2,4,5-T | MS | 1161716 | 3.1 | µg/L | 102 | | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
LDUP: Laboratory Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD

OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

Surrogate results for QC standards are not evaluated for acceptability (due to definition of a surrogate standard)

QC Summary Report

09/30/2009



NELAP Certificate #04227CA
ELAP Certificate #1180

BSK Submission : **2009091331**
Client : **Soil Control Lab**
Date Submitted : **09/17/2009**
Project ID : **9090428**

Project Desc : **Thompson Holdings LLC**

BSK StarLims Run #: 179388



Analyst Initials: **PAULK**

Method Number: **5153**

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|-------------------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|------|-----|----------|------------|
| 2,4,5-TP (Silvex) | MS | 1161716 | 3.2 | µg/L | 105 | | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4-D | MS | 1161716 | 32 | µg/L | 105 | | 30 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Bentazon (Basagran) | MS | 1161716 | 6.0 | µg/L | 99 | | 6 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dalapon | MS | 1161716 | 32 | µg/L | 107 | | 30 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dicamba (Banvel) | MS | 1161716 | 4.6 | µg/L | 103 | | 4.38 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dinoseb (DNBP) | MS | 1161716 | 6.1 | µg/L | 102 | | 6 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Pentachlorophenol (PCP) | MS | 1161716 | 0.48 | µg/L | 80 | | .60 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Picloram | MS | 1161716 | 2.8 | µg/L | 93 | | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4,5-T | MSD | 1161716 | 3.2 | µg/L | 108 | 5.7 | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4,5-TP (Silvex) | MSD | 1161716 | 3.2 | µg/L | 106 | 0.95 | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4-D | MSD | 1161716 | 31 | µg/L | 104 | 1.1 | 30 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Bentazon (Basagran) | MSD | 1161716 | 6.1 | µg/L | 101 | 2.4 | 6 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dalapon | MSD | 1161716 | 30 | µg/L | 101 | 6 | 30 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dicamba (Banvel) | MSD | 1161716 | 4.5 | µg/L | 102 | 1.6 | 4.38 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Dinoseb (DNBP) | MSD | 1161716 | 6.1 | µg/L | 101 | 1.1 | 6 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Pentachlorophenol (PCP) | MSD | 1161716 | 0.47 | µg/L | 78 | 2.1 | .60 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Picloram | MSD | 1161716 | 2.7 | µg/L | 89 | 4.8 | 3 | ND | 130 | 70 | 09/25/09 | Acceptable |
| 2,4,5-T | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 09/25/09 | Acceptable |
| 2,4,5-TP (Silvex) | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 09/25/09 | Acceptable |
| 2,4-D | RBLK | N/A | ND | µg/L | < 10 | | | | 10 | N/A | 09/25/09 | Acceptable |
| Bentazon (Basagran) | RBLK | N/A | ND | µg/L | < 2.0 | | | | 2.0 | N/A | 09/25/09 | Acceptable |
| Dalapon | RBLK | N/A | ND | µg/L | < 10 | | | | 10 | N/A | 09/25/09 | Acceptable |
| Dicamba (Banvel) | RBLK | N/A | ND | µg/L | < 1.5 | | | | 1.5 | N/A | 09/25/09 | Acceptable |
| Dinoseb (DNBP) | RBLK | N/A | ND | µg/L | < 2.0 | | | | 2.0 | N/A | 09/25/09 | Acceptable |
| Pentachlorophenol (PCP) | RBLK | N/A | ND | µg/L | < 0.20 | | | | 0.20 | N/A | 09/25/09 | Acceptable |
| Picloram | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 09/25/09 | Acceptable |

Surrogate Results

| Analyte | QC Type | Surr. Result | UCL | LCL | Date | |
|---------|---------|-------------------|-----|-----|------|---------------------|
| DCPAA | LCS | N/A 110 % Rec | 110 | 130 | 70 | 09/25/09 Acceptable |
| DCPAA | LCSD | N/A 110 % Rec | 110 | 130 | 70 | 09/25/09 Acceptable |
| DCPAA | LDUP | 1161992 110 % Rec | 110 | 130 | 70 | 09/25/09 Acceptable |
| DCPAA | MS | 1161716 110 % Rec | 110 | 130 | 70 | 09/25/09 Acceptable |
| DCPAA | MSD | 1161716 110 % Rec | 110 | 130 | 70 | 09/25/09 Acceptable |

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
LDUP: Laboratory Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

Surrogate results for QC standards are not evaluated for acceptability (due to definition of a surrogate standard)

QC Summary Report

09/30/2009



BSK Submission : **2009091331**
Client : **Soil Control Lab**
Date Submitted : **09/17/2009**
Project ID : **9090428**

NELAP Certificate #04227CA
ELAP Certificate #1180

Project Desc : **Thompson Holdings LLC**

BSK StarLims Run #: 179388



Analyst Initials: **PAULK**

Method Number: **5153**

Surrogate Results

| Analyte | QC Type | Surr. Result | UCL | LCL | Date |
|---------|----------|--------------|-----|-----|----------------------------|
| DCPAA | RBLK N/A | 110 % Rec | N/A | N/A | 09/25/09 <i>Acceptable</i> |

StarLims Run 179388 includes the following BSK Sample ID#:

1161716 1161992 1162122 1162317 1162364 1162371 1162372 1162726 1162883 1162884 1165872 1165873 1165874 1165875 1165876 1165877

BSK StarLims Run #: 179424



Analyst Initials: **DANB**

Method Number: **525**

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date |
|-----------------------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|-----|-----|----------------------------|
| Alachlor (Alanex) | LCS | N/A | 5.9 | µg/L | 118 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Atrazine (AAtrex) | LCS | N/A | 5.7 | µg/L | 114 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Benzo(a)pyrene | LCS | N/A | 1.3 | µg/L | 130 | | 1 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| bis(2-ethylhexyl) adipate | LCS | N/A | 6.4 | µg/L | 128 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| bis(2-ethylhexyl) phthalate | LCS | N/A | 6.2 | µg/L | 124 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Bromacil (Hyvar) | LCS | N/A | ND | µg/L | 124 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Butachlor | LCS | N/A | 2.9 | µg/L | 116 | | 2.5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Diazinon | LCS | N/A | 2.5 | µg/L | 100 | | 2.5 | ND | 110 | 10 | 09/28/09 <i>Acceptable</i> |
| Dimethoate (Cygon) | LCS | N/A | ND | µg/L | 124 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Metolachlor | LCS | N/A | 6.1 | µg/L | 122 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Metribuzin | LCS | N/A | 5.8 | µg/L | 116 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Molinate (Ordram) | LCS | N/A | 5.7 | µg/L | 114 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Propachlor | LCS | N/A | 5.3 | µg/L | 106 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Simazine (Princep) | LCS | N/A | 5.5 | µg/L | 110 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Thiobencarb (Bolero) | LCS | N/A | 5.4 | µg/L | 108 | | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Alachlor (Alanex) | LCSD | N/A | 5.6 | µg/L | 112 | 5.2 | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Atrazine (AAtrex) | LCSD | N/A | 5.5 | µg/L | 110 | 3.6 | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Benzo(a)pyrene | LCSD | N/A | 1.2 | µg/L | 120 | 8 | 1 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| bis(2-ethylhexyl) adipate | LCSD | N/A | 5.8 | µg/L | 116 | 9.9 | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| bis(2-ethylhexyl) phthalate | LCSD | N/A | 5.7 | µg/L | 114 | 8.4 | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Bromacil (Hyvar) | LCSD | N/A | ND | µg/L | 120 | 3.2 | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Butachlor | LCSD | N/A | 2.8 | µg/L | 112 | 3.6 | 2.5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Diazinon | LCSD | N/A | 2.4 | µg/L | 96 | 4 | 2.5 | ND | 110 | 10 | 09/28/09 <i>Acceptable</i> |
| Dimethoate (Cygon) | LCSD | N/A | ND | µg/L | 118 | 5 | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Metolachlor | LCSD | N/A | 5.7 | µg/L | 114 | 6.8 | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Metribuzin | LCSD | N/A | 5.5 | µg/L | 110 | 5.3 | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |
| Molinate (Ordram) | LCSD | N/A | 5.6 | µg/L | 112 | 1.8 | 5 | ND | 130 | 70 | 09/28/09 <i>Acceptable</i> |

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
LDUP: Laboratory Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

Surrogate results for QC standards are not evaluated for acceptability (due to definition of a surrogate standard)

QC Summary Report

09/30/2009



BSK Submission : **2009091331**
Client : **Soil Control Lab**
Date Submitted : **09/17/2009**
Project ID : **9090428**

NELAP Certificate #04227CA
ELAP Certificate #1180

Project Desc : **Thompson Holdings LLC**

BSK StarLims Run #: 179424



Analyst Initials: **DANB**

Method Number: **525**

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|-----------------------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|------|-----|----------|------------|
| Propachlor | LCS | N/A | 5.0 | µg/L | 100 | 5.9 | 5 | ND | 130 | 70 | 09/28/09 | Acceptable |
| Simazine (Princep) | LCS | N/A | 5.3 | µg/L | 106 | 3.8 | 5 | ND | 130 | 70 | 09/28/09 | Acceptable |
| Thiobencarb (Bolero) | LCS | N/A | 5.2 | µg/L | 104 | 3.8 | 5 | ND | 130 | 70 | 09/28/09 | Acceptable |
| Alachlor (Alanex) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Atrazine (AAtrex) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Benzo(a)pyrene | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| bis(2-ethylhexyl) adipate | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| bis(2-ethylhexyl) phthalate | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Bromacil (Hyvar) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Butachlor | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Diazinon | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Dimethoate (Cygon) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Metolachlor | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Metribuzin | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Molinate (Ordram) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Propachlor | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Simazine (Princep) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Thiobencarb (Bolero) | LDUP | 1161992 | ND | µg/L | N/A | | | ND | 30 | N/A | 09/28/09 | Acceptable |
| Alachlor (Alanex) | MS | 1161381 | 6.2 | µg/L | 124 | | 5 | ND | 130 | 70 | 09/28/09 | Acceptable |
| Atrazine (AAtrex) | MS | 1161381 | 2.4 | µg/L | 48 | | 5 | ND | 130 | 70 | 09/28/09 | OOS-Low |
| Benzo(a)pyrene | MS | 1161381 | 1.4 | µg/L | 140 | | 1 | | 130 | 70 | 09/28/09 | OOS-High |
| bis(2-ethylhexyl) adipate | MS | 1161381 | 6.5 | µg/L | 130 | | 5 | | 130 | 70 | 09/28/09 | Acceptable |
| bis(2-ethylhexyl) phthalate | MS | 1161381 | 6.4 | µg/L | 128 | | 5 | | 130 | 70 | 09/28/09 | Acceptable |
| Bromacil (Hyvar) | MS | 1161381 | ND | µg/L | 140 | | 5 | | 130 | 70 | 09/28/09 | OOS-High |
| Butachlor | MS | 1161381 | 2.9 | µg/L | 116 | | 2.5 | | 130 | 70 | 09/28/09 | Acceptable |
| Diazinon | MS | 1161381 | 2.7 | µg/L | 108 | | 2.5 | | 110 | 10 | 09/28/09 | Acceptable |
| Dimethoate (Cygon) | MS | 1161381 | ND | µg/L | 128 | | 5 | | 130 | 70 | 09/28/09 | Acceptable |
| Metolachlor | MS | 1161381 | 6.5 | µg/L | 130 | | 5 | | 130 | 70 | 09/28/09 | Acceptable |
| Metribuzin | MS | 1161381 | 6.3 | µg/L | 126 | | 5 | | 130 | 70 | 09/28/09 | Acceptable |
| Molinate (Ordram) | MS | 1161381 | 5.9 | µg/L | 118 | | 5 | | 130 | 70 | 09/28/09 | Acceptable |
| Propachlor | MS | 1161381 | 6.0 | µg/L | 120 | | 5 | | 130 | 70 | 09/28/09 | Acceptable |
| Simazine (Princep) | MS | 1161381 | 2.5 | µg/L | 50 | | 5 | ND | 130 | 70 | 09/28/09 | OOS-Low |
| Thiobencarb (Bolero) | MS | 1161381 | 5.9 | µg/L | 118 | | 5 | | 130 | 70 | 09/28/09 | Acceptable |
| Alachlor (Alanex) | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 09/28/09 | Acceptable |
| Atrazine (AAtrex) | RBLK | N/A | ND | µg/L | < 0.50 | | | | 0.50 | N/A | 09/28/09 | Acceptable |
| Benzo(a)pyrene | RBLK | N/A | ND | µg/L | < 0.10 | | | | 0.10 | N/A | 09/28/09 | Acceptable |

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
LDUP: Laboratory Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

Surrogate results for QC standards are not evaluated for acceptability (due to definition of a surrogate standard)

QC Summary Report

09/30/2009



BSK Submission : 2009091331
Client : Soil Control Lab
Date Submitted : 09/17/2009
Project ID : 9090428

NELAP Certificate #04227CA
ELAP Certificate #1180

Project Desc : Thompson Holdings LLC

BSK StarLims Run #: 179424



Analyst Initials: DANB

Method Number: 525

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|-----------------------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|------|-----|----------|------------|
| bis(2-ethylhexyl) adipate | RBLK | N/A | ND | µg/L | < 3.0 | | | | 3.0 | N/A | 09/28/09 | Acceptable |
| bis(2-ethylhexyl) phthalate | RBLK | N/A | ND | µg/L | < 3.0 | | | | 3.0 | N/A | 09/28/09 | Acceptable |
| Bromacil (Hyvar) | RBLK | N/A | ND | µg/L | < 10 | | | | 10 | N/A | 09/28/09 | Acceptable |
| Butachlor | RBLK | N/A | ND | µg/L | < 0.38 | | | | 0.38 | N/A | 09/28/09 | Acceptable |
| Diazinon | RBLK | N/A | ND | µg/L | < 0.25 | | | | 0.25 | N/A | 09/28/09 | Acceptable |
| Dimethoate (Cygon) | RBLK | N/A | ND | µg/L | < 10 | | | | 10 | N/A | 09/28/09 | Acceptable |
| Metolachlor | RBLK | N/A | ND | µg/L | < 0.50 | | | | 0.50 | N/A | 09/28/09 | Acceptable |
| Metribuzin | RBLK | N/A | ND | µg/L | < 0.50 | | | | 0.50 | N/A | 09/28/09 | Acceptable |
| Molinate (Ordram) | RBLK | N/A | ND | µg/L | < 2.0 | | | | 2.0 | N/A | 09/28/09 | Acceptable |
| Propachlor | RBLK | N/A | ND | µg/L | < 0.50 | | | | 0.50 | N/A | 09/28/09 | Acceptable |
| Simazine (Princep) | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 09/28/09 | Acceptable |
| Thiobencarb (Bolero) | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 09/28/09 | Acceptable |

| Run | Test | Analyte | Comment |
|--------|------|---------|--|
| 179424 | 525 | | MS recovery was affected by the matrix for one or more analytes. |

Surrogate Results

| Analyte | QC Type | Surr. Result | UCL | LCL | Date | |
|-----------------------------|---------|-----------------|-----|--------|----------|------------|
| 1,3-Dimethyl-2-nitrobenzene | LCS | N/A 86 %Rec | 88 | 130 70 | 09/28/09 | Acceptable |
| 1,3-Dimethyl-2-nitrobenzene | LCSD | N/A 94 %Rec | 88 | 130 70 | 09/28/09 | Acceptable |
| 1,3-Dimethyl-2-nitrobenzene | LDUP | 1161992 85 %Rec | 86 | 130 70 | 09/28/09 | Acceptable |
| 1,3-Dimethyl-2-nitrobenzene | MS | 1161381 91 %Rec | 93 | 130 70 | 09/28/09 | Acceptable |
| 1,3-Dimethyl-2-nitrobenzene | RBLK | N/A 88 %Rec | N/A | N/A | 09/28/09 | Acceptable |

StarLims Run 179424 includes the following BSK Sample ID# :

1161381 1161992 1162122 1162317 1162334 1162335 1162364 1162371 1162372 1162727 1166077 1166078 1166079 1166080 1166081

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
LDUP: Laboratory Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

Surrogate results for QC standards are not evaluated for acceptability (due to definition of a surrogate standard)

Sample Integrity

Pg. 1 of 2

2009091331 09/17/2009
 CLI SOIL CNTRL TAT: Standard
 917075

Date Received 9/17/09



Section 1- Sampled Same Day
 Sample Transport: Walk In SJVC ~~BSK-Courier~~ Transported In: Ice Chest Box Hand
 Has chilling process begun? Y N Samples Received Chilled to Touch Ambient On Ice

Section 2- Sampled Previously
 Sample Transport: CAO UPS SJVC Walk-In BSK-Courier GSO Fed Exp. Other: _____
 No. Coolers/Ice Chests: 1 Temperature(s): 2
 Was Temperature In Range Y N Received On Ice: Wet Blue
 Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: _____
 Were ice chest custody seals present? Y N Intact: Y N

Section 3- COC Info.

| | Completed | | Info From Container | Completed | | Info From Container |
|-------------------------------|-----------|----------|---------------------|-----------|----|-------------------------------|
| | Yes | No | | Yes | No | |
| Was COC Received | <u>1</u> | | | | | Analysis Requested |
| Date Sampled | <u>1</u> | | | | | Any hold times less than 72hr |
| Time Sampled | <u>1</u> | | | | | Client Name |
| Sample ID | <u>1</u> | | | | | Address |
| Special Storage/Handling Ins. | | <u>1</u> | | | | Telephone # |

Section 4- Bottles / Analysis

| | Yes | No | N/A | Comment |
|--|----------|----------|-----|----------|
| Did all bottles arrive unbroken and intact?: | | <u>1</u> | | <u>1</u> |
| Were bottle custody seals present? | | <u>1</u> | | |
| Were bottle custody seals intact? | | <u>1</u> | | |
| Did all bottle labels agree with COC?: | <u>1</u> | | | |
| Were correct containers used for the tests requested?: | <u>1</u> | | | |
| Were correct preservations used for the tests requested?: | <u>1</u> | | | |
| Was a sufficient amount of sample sent for tests indicated?: | <u>1</u> | | | |
| Were bubbles present in VOA Vials?: (Volatile Methods Only) | | <u>1</u> | | |
| Were Ascorbic Acid Bottles received with the VOAs | | <u>1</u> | | |

Section 5- Comments / Discrepancies
 Sample(s) Split/Preserved Yes 1 No 1 Container: 250 Preservation: Na2S2O3 + MCAA Init.: 88
 Was Client Service Rep. notified of discrepancies: Y No N/A CSR: Notified By: Ryant/H
 Explanations / Comments
250 AG W 500 THIO E, 250 MCAA + this received broken.
we have sufficient volume for the tests requested
MA 9/17/09
 Report Comment Entered: D. J 9/17/09

SR-FL-0002-02

BSK Bottles Yes 1 No 1

8oz (A) 16oz (B) 32oz (C) Amber Glass (AG)



| Container(s) Received | 1 | 2 | | | | | |
|--|----|----|--|--|--|--|--|
| Bacti Na ₂ S ₂ O ₃ | | | | | | | |
| None (p) <small>White Cap</small> | | | | | | | |
| None (p) <small>Blue Cap</small> | | | | | | | |
| HNO ₃ (p) <small>Red Cap</small> | | | | | | | |
| H ₂ SO ₄ (p) <small>Yellow Cap</small> | | | | | | | |
| NaOH (p) <small>Green Cap</small> | | | | | | | |
| Other: | | | | | | | |
| Dissolved Oxygen 300ml (g) | | | | | | | |
| 250ml (AG) None | | | | | | | |
| 250ml (AG) H ₂ SO ₄ COD <small>Yellow Label</small> | | | | | | | |
| 250ml (AG) Na ₂ S ₂ O ₃ 515,547 <small>Blue Label</small> | | | | | | | |
| 250ml (AG) Na ₂ S ₂ O ₃ + MCAA 531.1 <small>Orange Label</small> | 1 | 1 | | | | | |
| 250ml (AG) NH ₄ Cl 552 <small>Purple Label</small> | | | | | | | |
| 250ml (AG) EDA DBPs <small>Brown Label</small> | | | | | | | |
| 250ml (AG) Other: | | | | | | | |
| 500ml (AG) None | | | | | | | |
| 500ml (AG) H ₂ SO ₄ TPH-Diesel <small>Yellow Label</small> | | | | | | | |
| 1 Liter (AG) None | | | | | | | |
| 1 Liter (AG) H ₂ SO ₄ O&G <small>Yellow Label</small> | | | | | | | |
| 1 Liter (AG) Na ₂ S ₂ O ₃ 548 / 525 / 521 <small>Blue Label</small> | 2 | 2 | | | | | |
| 1 Liter (P) Na ₂ S ₂ O ₃ + H ₂ SO ₄ 549 | 1 | 1 | | | | | |
| 1 Liter (AG) NaOH+ZnAc Sulfide | | | | | | | |
| 1 Liter (AG) Ascorbic/EDTA/Pot Citrate 527 <small>Grey Label</small> | | | | | | | |
| 1 Liter (AG) CuSO ₄ /Trizma 529 <small>Turquoise Label</small> | | | | | | | |
| 1 Liter (AG) Na ₂ SO ₃ / HCL 525 UCMR <small>Neon Green Label</small> | | | | | | | |
| 1 Liter (AG) Ammonium Chloride 535 <small>Purple Label</small> | | | | | | | |
| 40ml VOA Vial Clear - HCL | *3 | *3 | | | | | |
| 40ml VOA Vial Amber - Na ₂ S ₂ O ₃ | | | | | | | |
| 40ml VOA Vial Clear - None | | | | | | | |
| 40ml VOA Vial Clear - Na ₂ S ₂ O ₃ 504, 505 | | | | | | | |
| 40ml VOA Vial Clear - H ₃ PO ₄ | | | | | | | |
| Other: | | | | | | | |
| Asbestos 32oz Plastic/Foil | | | | | | | |
| Radiological GA / GB (1/2 Gal Plastic) | | | | | | | |
| Radiological 226 / 228 (32 oz plastic N-BSK) | | | | | | | |
| Radon 200ml Clear (g) | | | | | | | |
| Low Level Hg/Metals Double Baggie | | | | | | | |
| THM-FP 4-40ml VOA None | | | | | | | |
| 250 Clear Glass Jar | | | | | | | |
| 500 Clear Glass Jar | | | | | | | |
| 1 Liter Clear Glass Jar | | | | | | | |
| Plastic Bag | | | | | | | |
| Soil Tube Brass / Steel / Plastic | | | | | | | |
| Tedlar Bags | | | | | | | |

MA
 9/17/09

Soil Control Lab

42 Hangar Way : Watsonville, CA 95076
 Phone: (831) 724-5422
 Fax: (831) 724-3188

CHAIN-OF-CUSTODY

Client/Company Name: Soil Control Lab
 Attn: Lynne Nagata
 Address: 42 Hangar Way
 Watsonville, CA 95076
 Phone: 831-724-5422
 Fax: 831-724-3188
 E-mail: lynne@controllabs.com
 Project Name: Thompson Holdings, LLC
 Project Number: 9090428

Comments/Special Instructions:

* Partial SOC's: Atrazine, 2,4-D, Diquat, Simazine, Alachlor, Bentazon, Carbofuran
 Requires EDT: User ID: 27C
 System #2701001 *Handwritten: * unable to send well Head 2 EDT for - Not in database*
 Sampler: Mike Christensen
 Soil Control Lab Use Only
 Cooler #: *Handwritten: 9090428* VOA Packer #
 Lab Sent To: BSK *Handwritten: 9/12/09*

2009091331
 SOIL CNTRL
 917075
 09/17/2009
 TAT: Standard

| | |
|--|---|
| Storage Location: | |
| Freezer #: | |
| Refrigerator #: | |
| Shelf #: | |
| Sample Condition: | |
| Partial SOC's * (EPA 515, 525, 531, 549) | X |
| VOC's by EPA 524.2 | X |

| Lab Use Only ID Number | Client Sample Identification | Sample Information | | | Bottle or Container Information | | | No. of Bottles |
|------------------------|------------------------------|--------------------|---------------|--------|---------------------------------|-------------|-------------|----------------|
| | | Sampling Date | Sampling Time | Matrix | Sample Preservative | Bottle Type | Bottle Size | |
| 9090428-01 | 2701001-001 Well Head #1 | 09/14/09 | 16:00 | DW | Na2S2O3 | AG | 250 ml | 1 |
| | 2701001-001 Well Head #1 | 09/14/09 | 16:00 | DW | Na2S2O3 | AG | 1 Liter | 2 |
| | 2701001-001 Well Head #1 | 09/14/09 | 16:00 | DW | Na2S2O3 | AG | 250 ml | 1 |
| | 2701001-001 Well Head #1 | 09/14/09 | 16:00 | DW | Na2S2O3 | Plastic | 1 Liter | 1 |
| | 2701001-001 Well Head #1 | 09/14/09 | 16:00 | DW | HCl | VOA | 40 ml | 3 |
| 9090428-02 | 2701001-002 Well Head #2 | 09/14/09 | 16:15 | DW | Na2S2O3 | AG | 250 ml | 1 |
| | 2701001-002 Well Head #2 | 09/14/09 | 16:15 | DW | Na2S2O3 | AG | 1 Liter | 2 |
| | 2701001-002 Well Head #2 | 09/14/09 | 16:15 | DW | Na2S2O3 | AG | 250 ml | 1 |
| | 2701001-002 Well Head #2 | 09/14/09 | 16:15 | DW | Na2S2O3 | Plastic | 1 Liter | 1 |
| | 2701001-002 Well Head #2 | 09/14/09 | 16:15 | DW | HCl | VOA | 40 ml | 3 |

Sampler's Signature and Printed Name: Mike Christensen

| | | | | | | |
|--|-----------------|-------------|---------------------|---|---------------|------------|
| Relinquished By (Signature and Printed Name): <i>Lynne Nagata</i> | Date: 9/16/2009 | Time: 16:00 | Transported By: UPS | Received By (Signature and Printed Name): <i>[Signature]</i> | Date: 9/17/09 | Time: 1000 |
|--|-----------------|-------------|---------------------|---|---------------|------------|

Lynne Nagata
Soil Control Lab
42 Hangar Way
Watsonville, CA 95076

10/02/2009

Dear Lynne Nagata,

Thank you for selecting BSK Analytical Laboratories for your analytical testing needs. We have prepared this report in response to your request for analytical services. Please find enclosed the following sections for your complete laboratory report, each uniquely paginated:

CASE NARRATIVE: An overview of the work performed.
CERTIFICATE OF ANALYSIS: Analytical results.
QUALITY CONTROL (QC) SUMMARY: QC supporting the results presented herein.
REPORT OF SAMPLE INTEGRITY
CHAIN OF CUSTODY FORM

Certification: BSK Analytical Laboratories certifies that the test results contained in this report meet all requirements of the NELAC Standards for applicable certified drinking water chemistry analyses under CA NELAP Certificate #04227CA, CA-ELAP Certificate #1180, and Nevada Certificate #CA79. For all other matrices and bacteriological analyses, this data package is in compliance with ELAP Standards for applicable certified analyses under CA-ELAP Certificate #1180. Any exceptions to applicable standards have been noted in the case narrative. Please note that certifications are applicable only to tests and/or analytes specified on each. Certification information may be obtained by contacting the laboratory or visiting our website at www.bsklabs.com. The results in this report pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from BSK Analytical Laboratories.

If additional clarification of any information is required, please contact your Client Services Representative, Dan Larkin, at (800) 877-8310 or (559) 497-2888.

BSK ANALYTICAL LABORATORIES



Dan Larkin
Client Services Representative



Quality Control Reviewer



SAMPLE AND RECEIPT INFORMATION

The sample(s) was received, prepared, and analyzed within the method specified holding times unless otherwise noted on the Certificate of Analysis. Samples, when shipped, arrived within acceptable temperature requirements of 0° to 6° Celsius unless otherwise noted on the Report of Sample Integrity. Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.

QUALITY CONTROL

All analytical quality controls are within established method criteria except when noted in the Quality Control section or on the Certificate of Analysis. All positive results for EPA Methods 504.1, 502.2, and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed. QC samples may include analytes not requested in this submission.

| <u>RUN</u> | <u>ORDER</u> | <u>TEST</u> | <u>ANALYTE</u> | <u>COMMENT</u> |
|------------|--------------|-------------|-----------------------|---|
| 179234 | 1164983 | EPA 314.0 | Perchlorate (ClO4) | MSD recovery was affected by the matrix. |
| 179503 | 1166735 | EPA 200.8 | Selenium (Se) - Total | Detected in the method blank, however only samples with results of ND or 10x were reported. All other affected samples will be rerun. |

SAMPLE RESULT INFORMATION

Samples are analyzed as received (wet weight basis) unless noted here. The results relate only to the items tested. Any exceptions to be considered when evaluating these results are also listed here, if applicable. Results contained in this package shall not be reproduced, except in full, without written approval of BSK Analytical Laboratories.

| <u>ORDER</u> | <u>TEST</u> | <u>ANALYTE</u> | <u>COMMENT</u> |
|--------------|-------------|--------------------|--|
| 1162823 | EPA 314.0 | Perchlorate (ClO4) | Sample was diluted due to matrix interference. |
| 1162824 | EPA 314.0 | Perchlorate (ClO4) | Sample was diluted due to matrix interference. |

Carbon Copies to:

DHS_EDT: Electronic Data Transfer @ STATE FORMS



GENERAL MINERAL & PHYSICAL & INORGANIC ANALYSIS (3/03)

Date of Report: 09/10/02 Sample ID No. 2009091440-1162823
 Laboratory Authorized
 Name: BSK ANALYTICAL LABORATORIES Signature: *Jelly Koelwyn*
 Name of Sampler: Mike Christensen Employed By: Soil Control Lab
 Date/Time Sample Date/Time Sample Date Analyses
 Collected: 09/09/14/1600 Received: 09/09/18/1150 Completed: 09|09|24

System Name: PARAIISO HOT SPRINGS WS System #: 2701001
 Name or Number of Sample Source: WELL 01

 User ID: 27C Station Number: 2701001-001
 Date/Time of Sample: 09|09|14|1600| Laboratory Code: 5810
Date Analysis Completed: 09|09|24

Submitted by: _____ Phone #: _____

INORGANIC CHEMICALS

| MCL | REPORTING UNITS | CHEMICAL | ENTRY# | ANALYSIS RESULTS | DLR |
|------|-----------------|-----------------------------|--------|------------------|-----|
| 2200 | umhos + | Specific Conductance (E.C.) | 00095 | 1400 | |

ADDITIONAL ANALYSES

| | | | | | |
|---|------|-------------|-------|----|----|
| 6 | µg/L | Perchlorate | A-031 | ND | 4. |
|---|------|-------------|-------|----|----|

* 250-500-600 ** 900-1600-2200 *** 500-1000-1500
 + Indicates Secondary Drinking Water Standards

RADIOACTIVITY ANALYSIS (03/03)

Date of Report: 09/10/02

Sample ID No.2009091440-1162821

Laboratory Name: BSK ANALYTICAL LABORATORIES

Authorized Signature:

[Handwritten Signature]

Name of Sampler: Mike Christensen

Employed By: Soil Control Lab

Date/Time Sample Collected: 09/09/14/1600

Date/Time Sample Received: 09/09/18/1150

Date Analyses Completed: 09|10|01

System Name: PARAISO HOT SPRINGS WS
 Name or Number of Sample Source: WELL 01

System #: 2701001

 User ID: 27C Station Number: 2701001-001
 Date/Time of Sample: 09|09|14|1600| Laboratory Code: 5810
 Date Analysis Completed: 09|10|01

Submitted by: _____

Phone #: _____

PAGE 1 OF 1

| MCL | REPORTING UNITS | CHEMICAL | STORET CODE | ANALYSIS RESULTS | DLR |
|-----|-----------------|----------------------------|-------------|------------------|-----|
| 15 | pCi/l | Gross Alpha | 01501 | 5.0 | 3 |
| | pCi/l | Gross Alpha Counting Error | 01502 | 0.33 | |
| 20 | pCi/l | Uranium | 28012 | 2.3 | 1.0 |

Lynne Nagata
Soil Control Lab
42 Hangar Way
Watsonville, CA 95076

BSK Submission #: 2009091440

BSK Sample ID #: 1162821

Report Issue Date: 10/02/2009

Project ID: 9090428

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 09/14/2009

Sample Description: 2701001-001 Well Head 1

Time Sampled: 1600

Sample Comments: 9090428-01

Date Received: 09/18/2009

Inorganics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|-------------|-----------|--------|-------|------|----------|------|----------------|--------------------|
| Uranium (U) | EPA 200.8 | 2.3 | pCi/L | 0.67 | 1 | 0.67 | 10/01/09 | 10/01/09 |

Radiological

| Analyte | Method | Result | Units | MDC | Prep Date/Time | Analysis Date/Time |
|------------------------------------|-----------|--------|-------|------|----------------|--------------------|
| Gross Alpha | EPA 00-02 | 5.0 | pCi/L | 1.30 | 09/24/09 | 09/25/09 |
| Gross Alpha 1.65 Sigma Uncertainty | EPA 00-02 | 0.33 | +/- | | | |

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting
: PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory.
See External Laboratory Report attachments.
MDC: Min Detectable Concentration

Report Authentication Code:



Lynne Nagata
 Soil Control Lab
 42 Hangar Way
 Watsonville, CA 95076

BSK Submission #: 2009091440

BSK Sample ID #: 1162822

Report Issue Date: 10/02/2009

Project ID: 9090428

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 09/14/2009

Sample Description: 2701001-002 Well Head 2

Time Sampled: 1615

Sample Comments: 9090428-02

Date Received: 09/18/2009

Radiological

| Analyte | Method | Result | Units | MDC | Prep Date/Time | Analysis Date/Time |
|------------------------------------|-----------|--------|-------|------|----------------|--------------------|
| Gross Alpha | EPA 00-02 | ND | pCi/L | 1.30 | 09/24/09 | 09/25/09 |
| Gross Alpha 1.65 Sigma Uncertainty | EPA 00-02 | 0.11 | +/- | | | |

mg/L: Milligrams/Liter (ppm)

mg/Kg: Milligrams/Kilogram (ppm)

µg/L: Micrograms/Liter (ppb)

µg/Kg: Micrograms/Kilogram (ppb)

%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit

DLR: Detection Limit for Reporting

: PQL x Dilution

ND: None Detected at DLR

pCi/L: Picocurie per Liter

H: Analyzed outside of hold time

P: Preliminary result

S: Suspect result. See Case Narrative for comments.

E: Analysis performed by External laboratory.

See External Laboratory Report attachments.

MDC: Min Detectable Concentration

Report Authentication Code:



Lynne Nagata
 Soil Control Lab
 42 Hangar Way
 Watsonville, CA 95076

BSK Submission #: 2009091440

BSK Sample ID #: 1162823

Report Issue Date: 10/02/2009

Project ID: 9090428

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 09/14/2009

Sample Description: 2701001-001 Well Head 1

Time Sampled: 1600

Sample Comments: 9090428-01

Date Received: 09/18/2009

Inorganics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|------------------------------------|-----------|-------------|---------|-----|----------|-----|----------------|--------------------|
| Conductivity - Specific (EC) @25°C | SM 2510 B | 1400 | µmho/cm | 1.0 | 1 | 1.0 | 09/18/09 | 09/18/09 |
| Perchlorate (ClO4) | EPA 314.0 | ND | µg/L | 2.0 | 2 | 4.0 | 09/24/09 | 09/24/09 |

mg/L: Milligrams/Liter (ppm)
 mg/Kg: Milligrams/Kilogram (ppm)
 µg/L: Micrograms/Liter (ppb)
 µg/Kg: Micrograms/Kilogram (ppb)
 %Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
 DLR: Detection Limit for Reporting
 : PQL x Dilution
 ND: None Detected at DLR
 pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
 P: Preliminary result
 S: Suspect result. See Case Narrative for comments.
 E: Analysis performed by External laboratory.
 See External Laboratory Report attachments.
 MDC: Min Detectable Concentration

Report Authentication Code:



Lynne Nagata
Soil Control Lab
42 Hangar Way
Watsonville, CA 95076

BSK Submission #: 2009091440

BSK Sample ID #: 1162824

Report Issue Date: 10/02/2009

Project ID: 9090428

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 09/14/2009

Sample Description: 2701001-002 Well Head 2

Time Sampled: 1616

Sample Comments: 9090428-02

Date Received: 09/18/2009

Inorganics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|------------------------------------|-----------|--------|---------|-----|----------|-----|----------------|--------------------|
| Conductivity - Specific (EC) @25°C | SM 2510 B | 1300 | µmho/cm | 1.0 | 1 | 1.0 | 09/18/09 | 09/18/09 |
| Perchlorate (ClO4) | EPA 314.0 | ND | µg/L | 2.0 | 2 | 4.0 | 09/24/09 | 09/24/09 |

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting
: PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory.
See External Laboratory Report attachments.
MDC: Min Detectable Concentration

Report Authentication Code:



QC Summary Report

10/02/2009



NELAP Certificate #04227CA
ELAP Certificate #1180

BSK Submission : 2009091440
Client : Soil Control Lab
Date Submitted : 09/18/2009
Project ID : 9090428

Project Desc : Thompson Holdings LLC

BSK StarLims Run #: 179014



Analyst Initials: MTHOMPSON

Method Number: ALK

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|------------------------------------|---------|-----------------|--------|-----------|--------------|-----------|----------|-------------|-----|-----|----------|------------|
| Alkalinity (as CaCO3) | LCS | N/A | 100 | mg/L | 101 | | 100. | ND | 120 | 80 | 09/18/09 | Acceptable |
| Alkalinity (as CaCO3) | LCSD | N/A | 100 | mg/L | 102 | 0.66 | 100. | ND | 120 | 80 | 09/18/09 | Acceptable |
| Alkalinity (as CaCO3) | LDUP | 1162852 | 230 | mg/L | 2.1 | | | 220 | 10 | N/A | 09/18/09 | Acceptable |
| Bicarbonate (as CaCO3) | LDUP | 1162852 | 220 | mg/L | 1.9 | | | 210 | 10 | N/A | 09/18/09 | Acceptable |
| Carbonate (as CaCO3) | LDUP | 1162852 | 10 | mg/L | 10 | | | 9.2 | 10 | N/A | 09/18/09 | Acceptable |
| Conductivity - Specific (EC) @25°C | LDUP | 1162852 | 440 | µmho/c | 1.1 | | | 430 | 20 | N/A | 09/18/09 | Acceptable |
| Hydroxide (as CaCO3) | LDUP | 1162852 | ND | mg/L | N/A | | | ND | 10 | N/A | 09/18/09 | Acceptable |
| pH | LDUP | 1162852 | 8.4 | Std. Unit | 0.23 | | | 8.4 | 20 | N/A | 09/18/09 | Acceptable |
| Alkalinity (as CaCO3) | RBLK | N/A | ND | mg/L | < 3.0 | | | | 3.0 | N/A | 09/18/09 | Acceptable |
| Bicarbonate (as CaCO3) | RBLK | N/A | ND | mg/L | < 3.0 | | | | 3.0 | N/A | 09/18/09 | Acceptable |
| Carbonate (as CaCO3) | RBLK | N/A | ND | mg/L | < 1.0 | | | | 1.0 | N/A | 09/18/09 | Acceptable |
| Conductivity - Specific (EC) @25°C | RBLK | N/A | ND | µmho/c | < 1.0 | | | | 1.0 | N/A | 09/18/09 | Acceptable |
| Hydroxide (as CaCO3) | RBLK | N/A | ND | mg/L | < 1.0 | | | | 1.0 | N/A | 09/18/09 | Acceptable |

StarLims Run 179014 includes the following BSK Sample ID#:

1162718 1162719 1162818 1162823 1162824 1162826 1162827 1162828 1162829 1162830 1162831 1162832 1162835 1162836 1162837 1162838
1162839 1162840 1162851 1162852 1163624 1163625 1163626 1163627

BSK StarLims Run #: 179224



Analyst Initials: RHIANNONJ

Method Number: ALPHA_00-02

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|-------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|-----|-----|----------|------------|
| Gross Alpha | LCS | N/A | 27 | pCi/L | 89 | | 30 | 0 | 120 | 80 | 09/25/09 | Acceptable |
| Gross Alpha | LCSD | N/A | 36 | pCi/L | 118 | 27 | 30 | 0 | 120 | 80 | 09/25/09 | Acceptable |
| Gross Alpha | MS | 1161975 | 140 | pCi/L | 112 | | 120 | 2.5 | 130 | 70 | 09/25/09 | Acceptable |
| Gross Alpha | MS | 1162883 | 100 | pCi/L | 83 | | 120 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Gross Alpha | MSD | 1161975 | 120 | pCi/L | 101 | 10 | 120 | 2.5 | 130 | 70 | 09/25/09 | Acceptable |
| Gross Alpha | MSD | 1162883 | 120 | pCi/L | 97 | 14 | 120 | ND | 130 | 70 | 09/25/09 | Acceptable |
| Gross Alpha | RBLK | N/A | 0 | pCi/L | < N/A | | | | N/A | N/A | 09/25/09 | Acceptable |

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
LDUP: Laboratory Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

Surrogate results for QC standards are not evaluated for acceptability (due to definition of a surrogate standard)

QC Summary Report

10/02/2009



BSK Submission : **2009091440**
Client : **Soil Control Lab**
Date Submitted : **09/18/2009**
Project ID : **9090428**

NELAP Certificate #04227CA
ELAP Certificate #1180

Project Desc : **Thompson Holdings LLC**

StarLims Run 179224 includes the following BSK Sample ID# :

1161975 1162317 1162743 1162744 1162745 1162755 1162756 1162757 1162821 1162822 1162867 1162883 1162884 1162885 1162886 1164938
1164939 1164940 1164941 1164942 1164943 1164944

BSK StarLims Run #: 179234



Analyst Initials: **DIANNEL**

Method Number: **CLO4_IC**

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|--------------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|-----|-----|----------|------------|
| Perchlorate (ClO4) | LCS | N/A | 23 | µg/L | 93 | | 25.00 | ND | 115 | 85 | 09/24/09 | Acceptable |
| Perchlorate (ClO4) | LCSD | N/A | 25 | µg/L | 99 | 6 | 25.00 | ND | 115 | 85 | 09/24/09 | Acceptable |
| Perchlorate (ClO4) | MS | 1162835 | 15 | µg/L | 101 | | 15.00 | ND | 120 | 80 | 09/24/09 | Acceptable |
| | MS | 1163435 | 7.8 | µg/L | 103 | | 7.5 | ND | 120 | 80 | 09/24/09 | Acceptable |
| Perchlorate (ClO4) | MSD | 1162835 | 16 | µg/L | 105 | 3.4 | 15.00 | ND | 120 | 80 | 09/24/09 | Acceptable |
| | MSD | 1163435 | 5.7 | µg/L | 75 | 31 | 7.5 | ND | 120 | 80 | 09/24/09 | OOS-Low |
| Perchlorate (ClO4) | RBLK | N/A | ND | µg/L | < 2.0 | | | | 2.0 | N/A | 09/24/09 | Acceptable |

| Run | Test | Analyte | Comment |
|--------|---------|-------------|--|
| 179234 | CLO4_IC | Perchlorate | MSD recovery was affected by the matrix. |

StarLims Run 179234 includes the following BSK Sample ID# :

1159585 1162823 1162824 1162835 1162837 1162839 1162856 1162865 1162866 1163433 1163434 1163435 1164863 1164977 1164978 1164979
1164980 1164981 1164982 1164983

BSK StarLims Run #: 179503



Analyst Initials: **MARGARETS**

Method Number: **SB_MS_TS**

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|-----------------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|-----|-----|----------|------------|
| Antimony (Sb) | LCS | N/A | 99 | µg/L | 98 | | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Arsenic (As) | LCS | N/A | 97 | µg/L | 97 | | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Beryllium (Be) | LCS | N/A | 110 | µg/L | 107 | | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Cadmium (Cd) | LCS | N/A | 98 | µg/L | 98 | | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Chromium - Total (Cr) | LCS | N/A | 100 | µg/L | 99 | | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Copper (Cu) | LCS | N/A | 100 | µg/L | 99 | | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Lead (Pb) | LCS | N/A | 100 | µg/L | 100 | | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Mercury (Hg) | LCS | N/A | 1.9 | µg/L | 97 | | 2 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Nickel (Ni) | LCS | N/A | 100 | µg/L | 104 | | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Selenium (Se) - Total | LCS | N/A | 110 | µg/L | 108 | | 100 | 2.1 | 115 | 85 | 09/29/09 | Acceptable |
| Silver (Ag) | LCS | N/A | 110 | µg/L | 106 | | 100 | ND | 125 | 75 | 09/29/09 | Acceptable |
| Thallium (Tl) | LCS | N/A | 110 | µg/L | 107 | | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Uranium (U) | LCS | N/A | 110 | µg/L | 107 | | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
LDUP: Laboratory Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

Surrogate results for QC standards are not evaluated for acceptability (due to definition of a surrogate standard)

QC Summary Report

10/02/2009



BSK Submission : **2009091440**
Client : **Soil Control Lab**
Date Submitted : **09/18/2009**
Project ID : **9090428**

NELAP Certificate #04227CA
ELAP Certificate #1180

Project Desc : **Thompson Holdings LLC**

BSK StarLims Run #: 179503



Analyst Initials: **MARGARETS**

Method Number: **SB_MS_TS**

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|-----------------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|------|-----|----------|------------|
| Antimony (Sb) | LCSD | N/A | 99 | µg/L | 98 | 0.02 | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Arsenic (As) | LCSD | N/A | 99 | µg/L | 98 | 1.9 | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Beryllium (Be) | LCSD | N/A | 110 | µg/L | 113 | 6 | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Cadmium (Cd) | LCSD | N/A | 99 | µg/L | 99 | 1.4 | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Chromium - Total (Cr) | LCSD | N/A | 97 | µg/L | 96 | 3 | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Copper (Cu) | LCSD | N/A | 98 | µg/L | 97 | 2 | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Lead (Pb) | LCSD | N/A | 100 | µg/L | 102 | 2.2 | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Mercury (Hg) | LCSD | N/A | 2.0 | µg/L | 102 | 5.6 | 2 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Nickel (Ni) | LCSD | N/A | 96 | µg/L | 96 | 8.4 | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Selenium (Se) - Total | LCSD | N/A | 110 | µg/L | 107 | 0.72 | 100 | 2.1 | 115 | 85 | 09/29/09 | Acceptable |
| Silver (Ag) | LCSD | N/A | 99 | µg/L | 98 | 7.9 | 100 | ND | 125 | 75 | 09/29/09 | Acceptable |
| Thallium (Tl) | LCSD | N/A | 100 | µg/L | 102 | 4.7 | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Uranium (U) | LCSD | N/A | 110 | µg/L | 108 | 1.7 | 100 | ND | 115 | 85 | 09/29/09 | Acceptable |
| Antimony (Sb) | RBLK | N/A | ND | µg/L | < 2.0 | | | | 2.0 | N/A | 09/29/09 | Acceptable |
| Arsenic (As) | RBLK | N/A | ND | µg/L | < 2.0 | | | | 2.0 | N/A | 09/29/09 | Acceptable |
| Beryllium (Be) | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 09/29/09 | Acceptable |
| Cadmium (Cd) | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 09/29/09 | Acceptable |
| Chromium - Total (Cr) | RBLK | N/A | ND | µg/L | < 10 | | | | 10 | N/A | 09/29/09 | Acceptable |
| Copper (Cu) | RBLK | N/A | ND | µg/L | < 5.0 | | | | 5.0 | N/A | 09/29/09 | Acceptable |
| Lead (Pb) | RBLK | N/A | ND | µg/L | < 5.0 | | | | 5.0 | N/A | 09/29/09 | Acceptable |
| Mercury (Hg) | RBLK | N/A | ND | µg/L | < 0.40 | | | | 0.40 | N/A | 09/29/09 | Acceptable |
| Nickel (Ni) | RBLK | N/A | ND | µg/L | < 10 | | | | 10 | N/A | 09/29/09 | Acceptable |
| Selenium (Se) - Total | RBLK | N/A | 2.1 | µg/L | 2.12 | | | | 2.0 | N/A | 09/29/09 | OOS-High |
| Silver (Ag) | RBLK | N/A | ND | µg/L | < 10 | | | | 10 | N/A | 09/29/09 | Acceptable |
| Thallium (Tl) | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 09/29/09 | Acceptable |
| Uranium (U) | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 09/29/09 | Acceptable |

| Run | Test | Analyte | Comment |
|--------|----------|----------|---|
| 179503 | SE_MS_TS | Selenium | Detected in the method blank, however only samples with results of ND or 10x is reported. All affected samples will be rerun. |

StarLims Run 179503 includes the following BSK Sample ID# :

1162655 1162659 1162660 1162818 1162822 1162825 1162835 1162836 1166735 1166736 1166737

BSK StarLims Run #: 179645



Analyst Initials: **MARGARETS**

Method Number: **SB_MS_TS**

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
LDUP: Laboratory Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

Surrogate results for QC standards are not evaluated for acceptability (due to definition of a surrogate standard)

QC Summary Report

10/02/2009



BSK Submission : **2009091440**
Client : **Soil Control Lab**
Date Submitted : **09/18/2009**
Project ID : **9090428**

NELAP Certificate #04227CA
ELAP Certificate #1180

Project Desc : **Thompson Holdings LLC**

BSK StarLims Run #: **179645**



Analyst Initials: **MARGARETS**

Method Number: **SB_MS_TS**

Analyte Results

| Analyte | QC Type | Matrix Spike ID | Result | Units | % Rec or RPD | Spike RPD | Spk Conc | Matrix Conc | UCL | LCL | Date | |
|---------------|---------|-----------------|--------|-------|--------------|-----------|----------|-------------|-----|-----|----------|------------|
| Antimony (Sb) | LCS | N/A | 100 | µg/L | 100 | | 100 | ND | 115 | 85 | 10/01/09 | Acceptable |
| Arsenic (As) | LCS | N/A | 98 | µg/L | 98 | | 100 | ND | 115 | 85 | 10/01/09 | Acceptable |
| Uranium (U) | LCS | N/A | 100 | µg/L | 105 | | 100 | ND | 115 | 85 | 10/01/09 | Acceptable |
| Antimony (Sb) | LCSD | N/A | 99 | µg/L | 99 | 0.99 | 100 | ND | 115 | 85 | 10/01/09 | Acceptable |
| Arsenic (As) | LCSD | N/A | 100 | µg/L | 100 | 2.7 | 100 | ND | 115 | 85 | 10/01/09 | Acceptable |
| Uranium (U) | LCSD | N/A | 100 | µg/L | 104 | 0.52 | 100 | ND | 115 | 85 | 10/01/09 | Acceptable |
| Antimony (Sb) | RBLK | N/A | ND | µg/L | < 2.0 | | | | 2.0 | N/A | 10/01/09 | Acceptable |
| Arsenic (As) | RBLK | N/A | ND | µg/L | < 2.0 | | | | 2.0 | N/A | 10/01/09 | Acceptable |
| Uranium (U) | RBLK | N/A | ND | µg/L | < 1.0 | | | | 1.0 | N/A | 10/01/09 | Acceptable |

StarLims Run 179645 includes the following BSK Sample ID# :

1162743 1162821 1163915 1163916 1167592 1167593 1167594

Sample Integrity

Pg. 1 of 2

CLI

2009091440

09/18/2009

SOIL CNTRL

TAT: Standard

918062



Date Received 9/18/09

Section 1- Sampled Same Day
 Sample Transport: ~~Walk In~~ ~~SJVC~~ ~~BSK-Courier~~ Transported In: Ice Chest Box Hand
 Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On Ice

Section 2- Sampled Previously
 Sample Transport: CAO UPS SJVC Walk-In BSK-Courier GSO Fed Exp. Other: _____
 No. Coolers/Ice Chests: 1 Temperature(s): 0
 Was Temperature In Range: Y N Received On Ice: Wet Blue
 Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: _____
 Were ice chest custody seals present? Y N Intact: Y N

Section 3- COC Info.

| | Completed | | Info From Container | Completed | | Info From Container |
|-------------------------------|--------------|----------|---------------------|-----------|----|-------------------------------|
| | Yes | No | | Yes | No | |
| Was COC Received | <u>1</u> | | | | | Analysis Requested |
| Date Sampled | <u>11/11</u> | | | | | Any hold times less than 72hr |
| Time Sampled | <u>11/11</u> | | | | | Client Name |
| Sample ID | <u>11/11</u> | | | | | Address |
| Special Storage/Handling Ins. | | <u>1</u> | | | | Telephone # |

Section 4- Bottles / Analysis

| | Yes | No | N/A | Comment |
|--|----------|----------|----------|---------|
| Did all bottles arrive unbroken and intact?: | <u>1</u> | | | |
| Were bottle custody seals present? | | <u>1</u> | | |
| Were bottle custody seals intact? | | <u>1</u> | | |
| Did all bottle labels agree with COC?: | <u>1</u> | | | |
| Were correct containers used for the tests requested?: | <u>1</u> | | | |
| Were correct preservations used for the tests requested?: | <u>1</u> | | | |
| Was a sufficient amount of sample sent for tests indicated?: | <u>1</u> | | | |
| Were bubbles present in VOA Vials?: (Volatile Methods Only) | | | <u>1</u> | |
| Were Ascorbic Acid Bottles received with the VOAs | | | <u>1</u> | |

Section 5- Comments / Discrepancies
 Sample(s) Split/Preserve: Yes No Container: 300A NBSK Preservation: H703 Init: WAH
1450
 Was Client Service Rep. notified of discrepancies: Yes No N/A CSR: Notified By:
 Explanations / Comments

 Report Comment Entered:

Labeled by: WAH
1456

Labels checked by: WAH
1459

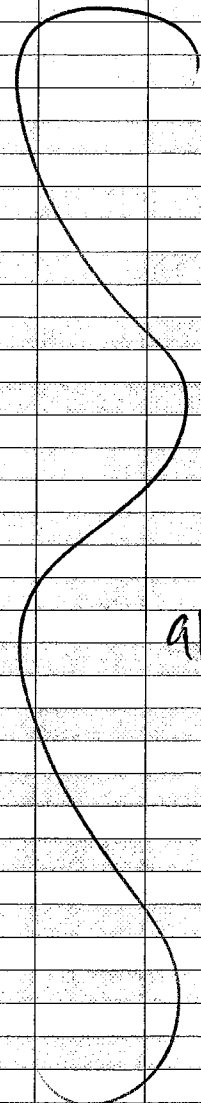
SR-FL-0002-02

BSK Bottles Yes No

8oz (A) 16oz (B) 32oz (C) Amber Glass (AG)



| Container(s) Received | 1-2 | 3-4 | | | | | | | |
|--|-----|-----|--|--|--|--|--|--|--|
| Bacti Na ₂ S ₂ O ₃ | | | | | | | | | |
| None (p) <small>White Cap</small> | | | | | | | | | |
| None (p) <small>Blue Cap</small> | | | | | | | | | |
| HNO ₃ (p) <small>Red Cap</small> | | | | | | | | | |
| H ₂ SO ₄ (p) <small>Yellow Cap</small> | | | | | | | | | |
| NaOH (p) <small>Green Cap</small> | | | | | | | | | |
| Other: | | | | | | | | | |
| Dissolved Oxygen 300ml (g) | | | | | | | | | |
| 250ml (AG) None | | | | | | | | | |
| 250ml (AG) H ₂ SO ₄ COD <small>Yellow Label</small> | | | | | | | | | |
| 250ml (AG) Na ₂ S ₂ O ₃ 515, 547 <small>Blue Label</small> | | | | | | | | | |
| 250ml (AG) Na ₂ S ₂ O ₃ + MCAA 531.1 <small>Orange Label</small> | | | | | | | | | |
| 250ml (AG) NH ₄ Cl 552 <small>Purple Label</small> | | | | | | | | | |
| 250ml (AG) EDA DBPs <small>Brown Label</small> | | | | | | | | | |
| 250ml (AG) Other: | | | | | | | | | |
| 500ml (AG) None | | | | | | | | | |
| 500ml (AG) H ₂ SO ₄ TPH-Diesel <small>Yellow Label</small> | | | | | | | | | |
| 1 Liter (AG) None | | | | | | | | | |
| 1 Liter (AG) H ₂ SO ₄ O&G <small>Yellow Label</small> | | | | | | | | | |
| 1 Liter (AG) Na ₂ S ₂ O ₃ 548 / 525 / 521 <small>Blue Label</small> | | | | | | | | | |
| 1 Liter (P) Na ₂ S ₂ O ₃ + H ₂ SO ₄ 549 | | | | | | | | | |
| 1 Liter (AG) NaOH+ZnAc Sulfide | | | | | | | | | |
| 1 Liter (AG) Ascorbic/EDTA/Pot Citrate 527 <small>Grey Label</small> | | | | | | | | | |
| 1 Liter (AG) CuSO ₄ /Trizma 529 <small>Turquoise Label</small> | | | | | | | | | |
| 1 Liter (AG) Na ₂ SO ₃ / HCL 525 UCMR <small>Neon Green Label</small> | | | | | | | | | |
| 1 Liter (AG) Ammonium Chloride 535 <small>Purple Label</small> | | | | | | | | | |
| 40ml VOA Vial Clear - HCL | | | | | | | | | |
| 40ml VOA Vial Amber - Na ₂ S ₂ O ₃ | | | | | | | | | |
| 40ml VOA Vial Clear - None | | | | | | | | | |
| 40ml VOA Vial Clear - Na ₂ S ₂ O ₃ 504, 505 | | | | | | | | | |
| 40ml VOA Vial Clear - H ₃ PO ₄ | | | | | | | | | |
| Other: | | | | | | | | | |
| Asbestos 32oz Plastic/Foil | | | | | | | | | |
| Radiological GA / GB (1/2 Gal Plastic) | | | | | | | | | |
| Radiological 226 / 228 (32 oz plastic N-BSK) | | | | | | | | | |
| Radon 200ml Clear (g) | | | | | | | | | |
| Low Level Hg/Metals Double Baggie | | | | | | | | | |
| THM-FP 4-40ml VOA None | | | | | | | | | |
| 250 Clear Glass Jar | | | | | | | | | |
| 500 Clear Glass Jar | | | | | | | | | |
| 1 Liter Clear Glass Jar | | | | | | | | | |
| Plastic Bag | | | | | | | | | |
| Soil Tube Brass / Steel / Plastic | | | | | | | | | |
| Tedlar Bags | | | | | | | | | |



9/18/05
 SK

Soil Control Lab

42 Hangar Way : Watsonville, CA 95076
 Phone: (831) 724-5422
 Fax: (831) 724-3188

CHAIN-OF-CUSTODY

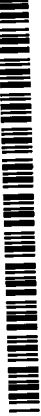
2009091440
 SOIL CNTRL
 918062

09/18/2009ge / of /

TAT: Standard

Client/Company Name: Soil Control Lab
 Attn: Lynne Nagata
 Address: 42 Hangar Way
 Watsonville, CA 95076
 Phone: 831-724-5422
 Fax: 831-724-3188
 E-mail: lynne@controllabs.com
 Project Name: Thompson Holdings, LLC
 Project Number: 9090428

Comments/Special Instructions:
 * If Gross Alpha result plus 0.84 x counting error is greater than 5 pCi/Liter, please run Uranium. Requires EDT - User ID: 27C System #2701001 Sampler: Mike Christensen
 Soil Control Lab Use Only
 Cooler #: VOA Packer #:
 Lab Sent To: BSK



Lab Use Only:
 Storage Location:
 Freezer #:
 Refrigerator #:
 Shelf #:
 Sample Condition:

| Lab Use Only ID Number | Client Sample Identification | Sample Information | | | | Bottle or Container Information | | | | Gross Alpha * | Perchlorate | | |
|------------------------|------------------------------|--------------------|---------------|--------|---------------------|---------------------------------|-------------|----------------|---|---------------|-------------|--|--|
| | | Sampling Date | Sampling Time | Matrix | Sample Preservative | Bottle Type | Bottle Size | No. of Bottles | | | | | |
| 9090428-01 | 2701001-001 Well Head #1 | 09/14/09 | 16:00 | Water | None | HDPE | 1 Liter | 2 | X | | | | |
| 9090428-02 | 2701001-002 Well Head #2 | 09/14/09 | 16:15 | Water | None | HDPE | 1 Liter | 2 | X | | | | |
| 9090428-01 | 2701001-001 Well Head #1 | 09/14/09 | 16:00 | Water | None | HDPE | 250 ml | 1 | | X | | | |
| 9090428-02 | 2701001-002 Well Head #2 | 09/14/09 | 16:16 | Water | None | HDPE | 250 ml | 1 | | X | | | |

Sampler's Signature and Printed Name: **Mike Christensen** *(Signature)*

Relinquished By (Signature and Printed Name): *(Signature)* Lynne Nagata

Transported By: UPS

Date: 9/17/2009 16:00

Received By (Signature and Printed Name): *(Signature)* Date: 9/18/09 11:50

Time: 11:50

well 2 not in write-on database at the time report was finalized



1414 Stanislaus Street
 Fresno, California 93706
 (559) 497-2888
 Fax (559) 485-6935

Certificate of Analysis
 NELAP Certificate #04227CA
 ELAP Certificate #1180

Lynne Nagata
 Soil Control Lab
 42 Hangar Way
 Watsonville, CA 95076

BSK Submission #: 2009101289

BSK Sample ID #: 1173894

Report Issue Date: 10/21/2009

Project ID: 9100437

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 10/15/2009

Sample Description: Well Head 1

Time Sampled: 0800

Sample Comments: 9100437-01

Date Received: 10/16/2009

Organics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|---------------------------------------|-----------|--------|-------|------|----------|------|----------------|--------------------|
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | EPA 524.2 | ND | µg/L | 10 | 1 | 10 | 10/20/09 | 10/20/09 |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1-Dichloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1-Dichloroethene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1-Dichloropropene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2,3-Trichloropropane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2-Dichloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2-Dichloropropane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,3-Dichloropropane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 2,2-Dichloropropane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 2-Butanone | EPA 524.2 | ND | µg/L | 10 | 1 | 10 | 10/20/09 | 10/20/09 |
| 2-Chlorotoluene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 2-Hexanone | EPA 524.2 | ND | µg/L | 10 | 1 | 10 | 10/20/09 | 10/20/09 |
| 4-Chlorotoluene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | µg/L | 10 | 1 | 10 | 10/20/09 | 10/20/09 |
| Acetone | EPA 524.2 | ND | µg/L | 10 | 1 | 10 | 10/20/09 | 10/20/09 |
| Benzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Bromobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Bromochloromethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Bromodichloromethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |

mg/L: Milligrams/Liter (ppm)
 mg/Kg: Milligrams/Kilogram (ppm)
 µg/L: Micrograms/Liter (ppb)
 µg/Kg: Micrograms/Kilogram (ppb)
 %Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
 DLR: Detection Limit for Reporting
 : PQL x Dilution
 ND: None Detected at DLR
 pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
 P: Preliminary result
 S: Suspect result. See Case Narrative for comments.
 E: Analysis performed by External laboratory.
 See External Laboratory Report attachments.
 MDC: Min Detectable Concentration

Report Authentication Code: * 1 1 7 3 8 9 4 - 2 1 0 . 0 0 0 0 *



1414 Stanislaus Street
 Fresno, California 93706
 (559) 497-2888
 Fax (559) 485-6935

Certificate of Analysis

NELAP Certificate #04227CA

ELAP Certificate #1180

Lynne Nagata
 Soil Control Lab
 42 Hangar Way
 Watsonville, CA 95076

BSK Submission #: 2009101289

BSK Sample ID #: 1173894

Report Issue Date: 10/21/2009

Project ID: 9100437

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 10/15/2009

Sample Description: Well Head 1

Time Sampled: 0800

Sample Comments: 9100437-01

Date Received: 10/16/2009

Organics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|-------------------------|-----------|--------|-------|------|----------|------|----------------|--------------------|
| Bromoform | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Bromomethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Carbontetrachloride | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Chlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Chloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Chloroform | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Chloromethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Dibromochloromethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Dibromomethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Dichlorodifluoromethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Ethyl t-Butyl Ether | EPA 524.2 | ND | µg/L | 3.0 | 1 | 3.0 | 10/20/09 | 10/20/09 |
| Ethylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Hexachlorobutadiene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Isopropylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| m,p-Xylenes | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Methylene Chloride | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Methyl-t-Butyl Ether | EPA 524.2 | ND | µg/L | 3.0 | 1 | 3.0 | 10/20/09 | 10/20/09 |
| Naphthalene | EPA 524.2 | ND | µg/L | 1.0 | 1 | 1.0 | 10/20/09 | 10/20/09 |
| n-Butylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| n-Propylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| o-Xylene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| p-Isopropyltoluene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| sec-Butylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Styrene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| t-Amyl Methyl Ether | EPA 524.2 | ND | µg/L | 3.0 | 1 | 3.0 | 10/20/09 | 10/20/09 |
| tert-Butylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Toluene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |

mg/L: Milligrams/Liter (ppm)
 mg/Kg: Milligrams/Kilogram (ppm)
 µg/L: Micrograms/Liter (ppb)
 µg/Kg: Micrograms/Kilogram (ppb)
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PQL: Practical Quantitation Limit
 DLR: Detection Limit for Reporting
 : PQL x Dilution
 ND: None Detected at DLR
 pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
 P: Preliminary result
 S: Suspect result. See Case Narrative for comments.
 E: Analysis performed by External laboratory.
 See External Laboratory Report attachments.
 MDC: Min Detectable Concentration

Report Authentication Code:

* 1 1 7 3 8 9 4 - 2 1 0 . 0 0 0 0 *



1414 Stanislaus Street
 Fresno, California 93706
 (559) 497-2888
 Fax (559) 485-6935

Certificate of Analysis
 NELAP Certificate #04227CA
 ELAP Certificate #1180

Lynne Nagata
 Soil Control Lab
 42 Hangar Way
 Watsonville, CA 95076

BSK Submission #: 2009101289

BSK Sample ID #: 1173894

Report Issue Date: 10/21/2009

Project ID: 9100437

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 10/15/2009

Sample Description: Well Head 1

Time Sampled: 0800

Sample Comments: 9100437-01

Date Received: 10/16/2009

Organics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|---------------------------|-----------|--------|-------|------|----------|------|----------------|--------------------|
| Total 1,3-Dichloropropene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | | |
| Total Trihalomethanes | EPA 524.2 | ND | µg/L | - | - | N/A | | |
| Total Xylene Isomers | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Trichloroethene (TCE) | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Trichlorofluoromethane | EPA 524.2 | ND | µg/L | 5.0 | 1 | 5.0 | 10/20/09 | 10/20/09 |
| Vinyl Chloride | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Surrogate | | | | | | | | |
| 1,2-Dichlorobenzene-d4 | EPA 524.2 | 110 | % Rec | - | 1 | N/A | 10/20/09 | 10/20/09 |
| 4-Bromofluorobenzene | EPA 524.2 | 100 | % Rec | - | 1 | N/A | 10/20/09 | 10/20/09 |

mg/L: Milligrams/Liter (ppm)

mg/Kg: Milligrams/Kilogram (ppm)

µg/L: Micrograms/Liter (ppb)

µg/Kg: Micrograms/Kilogram (ppb)

%Rec: Percent Recovered (surrogates)

Report Authentication Code:

PQL: Practical Quantitation Limit

DLR: Detection Limit for Reporting

: PQL x Dilution

ND: None Detected at DLR

pCi/L: Picocurie per Liter

* 1 1 7 3 8 9 4 - 2 1 0 . 0 0 0 0 *

H: Analyzed outside of hold time

P: Preliminary result

S: Suspect result. See Case Narrative for comments.

E: Analysis performed by External laboratory.

See External Laboratory Report attachments.

MDC: Min Detectable Concentration



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 Fresno, California 93706
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Certificate of Analysis
 NELAP Certificate #04227CA
 ELAP Certificate #1180

Lynne Nagata
 Soil Control Lab
 42 Hangar Way
 Watsonville, CA 95076

BSK Submission #: 2009101289

BSK Sample ID #: 1173895

Report Issue Date: 10/21/2009

Project ID: 9100437

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 10/15/2009

Sample Description: Well Head 2

Time Sampled: 0815

Sample Comments: 9100437-02

Date Received: 10/16/2009

Organics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|---------------------------------------|-----------|--------|-------|------|----------|------|----------------|--------------------|
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | EPA 524.2 | ND | µg/L | 10 | 1 | 10 | 10/20/09 | 10/20/09 |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1-Dichloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1-Dichloroethene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,1-Dichloropropene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2,3-Trichloropropane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2-Dichloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,2-Dichloropropane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,3-Dichloropropane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 2,2-Dichloropropane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 2-Butanone | EPA 524.2 | ND | µg/L | 10 | 1 | 10 | 10/20/09 | 10/20/09 |
| 2-Chlorotoluene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 2-Hexanone | EPA 524.2 | ND | µg/L | 10 | 1 | 10 | 10/20/09 | 10/20/09 |
| 4-Chlorotoluene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | µg/L | 10 | 1 | 10 | 10/20/09 | 10/20/09 |
| Acetone | EPA 524.2 | ND | µg/L | 10 | 1 | 10 | 10/20/09 | 10/20/09 |
| Benzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Bromobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Bromochloromethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Bromodichloromethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |

mg/L: Milligrams/Liter (ppm)

mg/Kg: Milligrams/Kilogram (ppm)

µg/L: Micrograms/Liter (ppb)

µg/Kg: Micrograms/Kilogram (ppb)

%Rec: Percent Recovered (surrogates)

Report Authentication Code:

PQL: Practical Quantitation Limit

DLR: Detection Limit for Reporting

: PQL x Dilution

ND: None Detected at DLR

pCi/L: Picocurie per Liter

* 1 1 7 3 8 9 5 - 2 1 0 . 0 0 0 0 *

H: Analyzed outside of hold time

P: Preliminary result

S: Suspect result. See Case Narrative for comments.

E: Analysis performed by External laboratory.

See External Laboratory Report attachments.

MDC: Min Detectable Concentration



1414 Stanislaus Street
Fresno, California 93706
(559) 497-2888
Fax (559) 485-6935

Certificate of Analysis
NELAP Certificate #04227CA
ELAP Certificate #1180

Lynne Nagata
Soil Control Lab
42 Hangar Way
Watsonville, CA 95076

BSK Submission #: 2009101289

BSK Sample ID #: 1173895

Report Issue Date: 10/21/2009

Project ID: 9100437

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 10/15/2009

Sample Description: Well Head 2

Time Sampled: 0815

Sample Comments: 9100437-02

Date Received: 10/16/2009

Organics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|-------------------------|-----------|--------|-------|------|----------|------|----------------|--------------------|
| Bromoform | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Bromomethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Carbontetrachloride | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Chlorobenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Chloroethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Chloroform | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Chloromethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Dibromochloromethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Dibromomethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Dichlorodifluoromethane | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Ethyl t-Butyl Ether | EPA 524.2 | ND | µg/L | 3.0 | 1 | 3.0 | 10/20/09 | 10/20/09 |
| Ethylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Hexachlorobutadiene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Isopropylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| m,p-Xylenes | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Methylene Chloride | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Methyl-t-Butyl Ether | EPA 524.2 | ND | µg/L | 3.0 | 1 | 3.0 | 10/20/09 | 10/20/09 |
| Naphthalene | EPA 524.2 | ND | µg/L | 1.0 | 1 | 1.0 | 10/20/09 | 10/20/09 |
| n-Butylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| n-Propylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| o-Xylene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| p-Isopropyltoluene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| sec-Butylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Styrene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| t-Amyl Methyl Ether | EPA 524.2 | ND | µg/L | 3.0 | 1 | 3.0 | 10/20/09 | 10/20/09 |
| tert-Butylbenzene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Toluene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |

mg/L: Milligrams/Liter (ppm)

mg/Kg: Milligrams/Kilogram (ppm)

µg/L: Micrograms/Liter (ppb)

µg/Kg: Micrograms/Kilogram (ppb)

%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit

DLR: Detection Limit for Reporting

: PQL x Dilution

ND: None Detected at DLR

pCi/L: Picocurie per Liter

H: Analyzed outside of hold time

P: Preliminary result

S: Suspect result. See Case Narrative for comments.

E: Analysis performed by External laboratory.

See External Laboratory Report attachments.

MDC: Min Detectable Concentration

Report Authentication Code:

* 1 1 7 3 8 9 5 - 2 1 0 . 0 0 0 0 *



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Fresno, California 93706
(559) 497-2888
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Certificate of Analysis
NELAP Certificate #04227CA
ELAP Certificate #1180

Lynne Nagata
Soil Control Lab
42 Hangar Way
Watsonville, CA 95076

BSK Submission #: 2009101289

BSK Sample ID #: 1173895

Report Issue Date: 10/21/2009

Project ID: 9100437

Project Desc: Thompson Holdings LLC

Submission Comments:

Sample Type: Liquid

Date Sampled: 10/15/2009

Sample Description: Well Head 2

Time Sampled: 0815

Sample Comments: 9100437-02

Date Received: 10/16/2009

Organics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|---------------------------|-----------|--------|-------|------|----------|------|----------------|--------------------|
| Total 1,3-Dichloropropene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | | |
| Total Trihalomethanes | EPA 524.2 | ND | µg/L | - | - | N/A | | |
| Total Xylene Isomers | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Trichloroethene (TCE) | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |
| Trichlorofluoromethane | EPA 524.2 | ND | µg/L | 5.0 | 1 | 5.0 | 10/20/09 | 10/20/09 |
| Vinyl Chloride | EPA 524.2 | ND | µg/L | 0.50 | 1 | 0.50 | 10/20/09 | 10/20/09 |

Surrogate

| | | | | | | | | |
|------------------------|-----------|-----|-------|---|---|-----|----------|----------|
| 1,2-Dichlorobenzene-d4 | EPA 524.2 | 110 | % Rec | - | 1 | N/A | 10/20/09 | 10/20/09 |
| 4-Bromofluorobenzene | EPA 524.2 | 100 | % Rec | - | 1 | N/A | 10/20/09 | 10/20/09 |

mg/L: Milligrams/Liter (ppm)

mg/Kg: Milligrams/Kilogram (ppm)

µg/L: Micrograms/Liter (ppb)

µg/Kg: Micrograms/Kilogram (ppb)

%Rec: Percent Recovered (surrogates)

Report Authentication Code:

PQL: Practical Quantitation Limit

DLR: Detection Limit for Reporting

: PQL x Dilution

ND: None Detected at DLR

pCi/L: Picocurie per Liter

* 1 1 7 3 8 9 5 - 2 1 0 . 0 0 0 0 *

H: Analyzed outside of hold time

P: Preliminary result

S: Suspect result. See Case Narrative for comments.

E: Analysis performed by External laboratory.

See External Laboratory Report attachments.

MDC: Min Detectable Concentration



EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **Lynne Nagata**
Soil Control Lab
42 Hangar Way
Watsonville, CA 95076

Fax: (831) 724-3188 Phone: (831) 724-5422
Project: **9090428 - Thompson Holdings, LLC - Paraiso Hot Springs**


Customer ID: SCLB78
Customer PO: 9090428
Received: 09/16/09 10:00 AM
EMSL Order: 090907552

EMSL Proj:
Analysis Date: 9/18/2009

Test Report: Determination of Asbestos Structures in Water Performed by the 100.2 Method (EPA/600/R-94/134)

| Sample ID | Sample Prep Date | # Fibers Asbestos | # Fibers Non-Asbestos | Type(s) Of Asbestos | Analytical Sensitivity (MFL) | Confidence Limits | Concentration Of Asbestos Fibers (MFL) | Comments |
|---|------------------|-------------------|-----------------------|---------------------|------------------------------|-------------------|--|---|
| 9090428-01, 2701001-001 <i>090907552-0001</i> | 09/16/09 | 0 | 0 | | 2.00 | 0.00-7.30 | <2.00 | CA ELAP NOTES: Aliquot 1000:5 ml; EFA 1288.25 sq. mm; Area examined 0.130 sq. mm. Analytical sensitivity of 0.2 MFL cannot be practically achieved due to the presence of a high quantity of non-fibrous particulate matter. |
| 9090428-02, 2701001-002 <i>090907552-0002</i> | 09/16/09 | 0 | 0 | | 0.99 | 0.00-3.70 | <0.99 | CA ELAP NOTES: Aliquot 1000:10 ml; EFA 1288.25 sq. mm; Area examined 0.130 sq. mm. Analytical sensitivity of 0.2 MFL cannot be practically achieved due to the presence of a high quantity of non-fibrous particulate matter. |

Analyst(s) _____
Rui Cindy Geng (2)



Baojia Ke, Laboratory Manager
or other approved signatory

Sample collection and containers provided by the client, acceptable bottle blank level is defined as <=0.01MFL>10um. ND=None Detected. This report may not be reproduced, except in full, without written permission by EMSL Analytical, Inc. This report relates only to those items tested. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc San Leandro 2235 Polvorosa Ave , Suite 230, San Leandro CA CA ELAP 1620, HI reciprocity, ID CA 01477, WA C2007



ASBESTOS CHAIN OF CUSTODY FORM

EMSL ANALYTICAL, INC.
2235 POLVOROSA AVE STE 230
SAN LEANDRO, CA
Tel: 510-895-3675
FAX: 510-895-3680

EMSL Job Number: 090907552

Your Name: Lynne Nagata **EMSL Client Number:**

Company: Soil Control Lab

Street: 42 HANGAR WAY

City/State/Zip: Watsonville, CA 95076

Phone: 831-724-5422 **Fax:** 831-724-3188 **Email:** lynne@controllabs.com

Project Name: Thompson Holdings, LLC **Project #:** 9090428

Project Location: Paraiso Hot Springs **Project State (US):** CA

TURNAROUND TIME - STANDARD

3 Hours 6 Hours 12 Hours 24 Hours 48 Hours 72 Hours 4 Days 5 Days 6-10 Days

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call lab (713) 686-3635 for price prior to sending samples. You will be asked to sign an authorization form for this service. *12 hours (must arrive by 11:00a.m. Mon -Fri.)

SAMPLE MATRIX

Air Bulk Soil Wipe Micro-Vac Drinking Water Wastewater Other

| | | |
|--|---|--|
| <p>PCM - AIR</p> <p><input type="checkbox"/> NIOSH 7400 (A) Issue 2: August 1994</p> <p><input type="checkbox"/> OSHA w/TWA</p> <p>PLM - BULK</p> <p><input type="checkbox"/> EPA 600/R-93/116</p> <p><input type="checkbox"/> NY Stratified Point Count</p> <p><input type="checkbox"/> NIOSH 9002</p> <p><input type="checkbox"/> PLM NOB (Gravimetric) NYS 198.1</p> <p><input type="checkbox"/> EPA Point Count (400 Points)</p> <p><input type="checkbox"/> EPA Point Count (1,000 Points)</p> <p>TEM - AIR</p> <p><input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E</p> <p><input type="checkbox"/> NIOSH 7402 Issue 2</p> <p><input type="checkbox"/> EPA Level II</p> | <p>TEM BULK</p> <p><input type="checkbox"/> Drop Mount (Qualitative)</p> <p><input type="checkbox"/> Chatfield SOP-1988-02</p> <p><input type="checkbox"/> TEM NOB (Gravimetric) NY 198.4</p> <p>TEM MICROVAC</p> <p><input type="checkbox"/> ASTM D 5755-95 (Quantitative)</p> <p>TEM WIPE</p> <p><input type="checkbox"/> ASTM D-6480-99</p> <p><input type="checkbox"/> Qualitative</p> <p>TEM WATER</p> <p><input checked="" type="checkbox"/> EPA 100.1 <i>Drinking Water</i></p> <p><input type="checkbox"/> EPA 100.2</p> <p><input type="checkbox"/> NYS 198.2</p> <p><input type="checkbox"/> Other: _____</p> | <p>SOILS</p> <p><input type="checkbox"/> EPA Protocol Qualitative</p> <p><input type="checkbox"/> EPA Protocol Quantitative</p> <p><input type="checkbox"/> EMSL MSD 9000 Method fibers/gram</p> <p><input type="checkbox"/> Superfund EPA 540-R097-028 (dust generation)</p> <p>SOIL, ROCK, VERMICULITE via CARB 435</p> <p><input type="checkbox"/> PLM CARB 435 Level A</p> <p><input type="checkbox"/> PLM CARB 435 Level B</p> <p><input type="checkbox"/> TEM CARB 435 Level B</p> <p><input type="checkbox"/> TEM CARB 435 Level C</p> <p><input type="checkbox"/> TEM CARB 435 Level D</p> <p><input type="checkbox"/> TEM CARB 435 Level E</p> <p><input type="checkbox"/> TEM CARB 435 Level F</p> |
|--|---|--|

Client requires EDT forms – User ID: 27C, System and source numbers listed below; sampler: Mike Christensen

| SAMPLE NUMBER | SAMPLE DESCRIPTION / LOCATION | VOLUME Air (L) | AREA (Inches sq.) | DATE SAMPLED | SAMPLED BY |
|---------------|-------------------------------|----------------|-------------------|-------------------|------------------|
| 9090428-01 | Well Head #1, 2701001-001 | 60C | | 9/14/09, 16:00 | Mike Christensen |
| 9090428-02 | Well Head #2, 2701001-002 | 50C | | 9/14/09, 16:15 | Mike Christensen |
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Relinquished: Lynne Nagata *Lynne Nagata* Date: 9/15/09 Time: 16:00

Received: [Signature] Date: 9/16/09 Time: 1000 hrs

Attachment 5B
2007 Water Quality Test Data



MONTEREY COUNTY HEALTH DEPARTMENT

Consolidated Chemistry Laboratory

1270 Natividad Road Salinas, CA 93906
Phone (831)755-4516 Fax (831) 755-4652

ELAP Certification Number: 1395

Paraiso L.L.C./Paraiso Hot Springs
34358 Paraiso Springs Rd.
Soledad, CA 93960

Attn: Josie

Page 1 of 1

Thursday, December 20, 2007

Lab Number: AB03028
Sample Site: WELL #1
Source Code: 2701001-001
Sample ID: 2701001

Client Code: PARAIISO
Collection Date/Time: 12/3/2007 15:10
Submittal Date/Time: 12/3/2007 16:03
Sample Collector: ORTIZ-LOPEZ J

Sample Comments: Routine Drinking Water. Copy forwarded to Monterey County Environmental Health

| Analyte | Method | Unit | Result | PQL | Date Analyzed |
|---------------------|----------|----------|-----------|----------|---------------|
| Title 22 (GM-GP-IO) | Attached | Attached | Completed | Attached | 12/4/2007 |

Lab Number: AB03029
Sample Site: WELL #2
Source Code:
Sample ID: 2701001

Client Code: PARAIISO
Collection Date/Time: 12/3/2007 15:15
Submittal Date/Time: 12/3/2007 16:03
Sample Collector: ORTIZ-LOPEZ J

Sample Comments: Routine Drinking Water. Copy forwarded to Monterey County Environmental Health

| Analyte | Method | Unit | Result | PQL | Date Analyzed |
|---------------------|----------|----------|-----------|----------|---------------|
| Title 22 (GM-GP-IO) | Attached | Attached | Completed | Attached | 12/4/2007 |

Report Approved by

G. R. Guilbert, M.S., P.H.M.
Laboratory Director

mg/L : Milligrams per liter (=ppm)
PQL : Practical Quantitation Limit
DLR : Detection Limit for Reporting

ug/L : Micrograms per liter (=ppb)
MCL : Maximum Contaminant Level
ND : Not Detected N/A : Not Applicable

* : Primary Standards
** : Secondary Standards
*** : Action Level

**BSK ANALYTICAL
LABORATORIES**

BSK Submission Number: 2007120093

12/11/2007

MONTEREY COUNTY LAB
RECEIVEDGerry Guibert
Monterey CHD
1270 Natividad Rd. Rm A15
Salinas, CA 93906

DEC 18 2007



Dear Gerry Guibert,

Thank you for selecting BSK Analytical Laboratories for your analytical testing needs. We have prepared this report in response to your request for analytical services. Please find enclosed the following sections for your complete laboratory report, each uniquely paginated:

CASE NARRATIVE: An overview of the work performed.
CERTIFICATE OF ANALYSIS: Analytical results.
REPORT OF SAMPLE INTEGRITY
CHAIN OF CUSTODY FORM

Certification: BSK Analytical Laboratories certifies that the test results contained in this report meet all requirements of the NELAC Standards for applicable certified drinking water chemistry analyses under CA NELAP Certificate #04227CA, CA-ELAP Certificate #1180, and Nevada Certificate #CA79. For all other matrices and bacteriological analyses, this data package is in compliance with ELAP Standards for applicable certified analyses under CA-ELAP Certificate #1180. Any exceptions to applicable standards have been noted in the case narrative. Please note that certifications are applicable only to tests and/or analytes specified on each. Certification information may be obtained by contacting the laboratory or visiting our website at www.bsklabs.com. The results in this report pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from BSK Analytical Laboratories.

If additional clarification of any information is required, please contact your Client Services Representative, Stephanie Dollahite, at (800) 877-8310 or (559) 497-2888.

BSK ANALYTICAL LABORATORIES

A handwritten signature in black ink, appearing to read "Stephanie Dollahite", is written over a horizontal line.

Stephanie Dollahite

Client Services Representative



Case Narrative

BSK Submission Number: 2007120093

SAMPLE AND RECEIPT INFORMATION

The sample(s) was received, prepared, and analyzed within the method specified holding times unless otherwise noted on the Certificate of Analysis. Samples, when shipped, arrived within acceptable temperature requirements of 0° to 6° Celsius unless otherwise noted on the Report of Sample Integrity. Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.

QUALITY CONTROL

All analytical quality controls are within established method criteria except when noted in the Quality Control section or on the Certificate of Analysis. All positive results for EPA Methods 504.1, 502.2, and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed. QC samples may include analytes not requested in this submission.

| <u>RUN</u> | <u>ORDER</u> | <u>TEST</u> | <u>ANALYTE</u> | <u>COMMENT</u> |
|------------|--------------|--------------|-------------------------------------|---|
| 143688 | 926261 | SM 2320 B | Alkalinity (as CaCO ₃) | The LDUP RPD was out of range due to suspected matrix effects. |
| 143688 | 926261 | SM 2320 B | Bicarbonate (as CaCO ₃) | The LDUP RPD was out of range due to suspected matrix effects. |
| 143688 | 926261 | SM 2320 B | Carbonate (as CaCO ₃) | The LDUP RPD was out of range due to suspected matrix effects. |
| 144003 | 928516 | SM 4500-CN E | Cyanide (CN) | LCS recovery was out of the acceptance range, however the LCSD recovery was within the acceptance range, therefore the data was reported. |
| 144003 | 928518 | SM 4500-CN E | Cyanide (CN) | MS and MSD recoveries were affected by the matrix. |

SAMPLE RESULT INFORMATION

Samples are analyzed as received (wet weight basis) unless noted here. The results relate only to the items tested. Any exceptions to be considered when evaluating these results are also listed here, if applicable. Results contained in this package shall not be reproduced, except in full, without written approval of BSK Analytical Laboratories.

| <u>ORDER</u> | <u>TEST</u> | <u>ANALYTE</u> | <u>COMMENT</u> |
|--------------|-------------|------------------------------|---|
| 926016 | EPA 300.0 | Nitrite (NO ₂ -N) | One or more analytes were diluted due to matrix interference. |
| 926017 | EPA 300.0 | Nitrite (NO ₂ -N) | One or more analytes were diluted due to matrix interference. |

Carbon Copies to:

DHS_EDT: Electronic Data Transfer @ STATE FORMS



BSK LABORATORIES
1414 Stanislaus St.
Fresno, CA 93706

EDT

GENERAL MINERAL & PHYSICAL & INORGANIC ANALYSIS (3/03)

Date of Report: 07/12/11

Sample ID No. 2007120093-926016

Laboratory

Authorized

Name: BSK ANALYTICAL LABORATORIES

Signature:

Name of Sampler: Josie Ortiz Lopez

Employed By: Monterey CHD

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 07/12/03/1510

Received: 07/12/04/0825

Completed: 07/12/10

System Name: PARAISO HOT SPRINGS WS

System #: 2701001

Name or Number of Sample Source: WELL 01

User ID: 27C

Station Number: 2701001-001

Date/Time of Sample: 07/12/03/1510

Laboratory Code: 5810

Date Analysis Completed: 07/12/10

Submitted by:

Phone #:

INORGANIC CHEMICALS

Table with 6 columns: MCL, REPORTING UNITS, CHEMICAL, ENTRY#, ANALYSIS RESULTS, DLR. Rows include Hardness, Calcium, Magnesium, Sodium, Potassium, Alkalinity, Sulfate, Chloride, Nitrate, Fluoride, pH, Specific Conductance, Total Filterable Residue, Color, and Odor Threshold.

* 250-500-600 ** 900-1600-2200 *** 500-1000-1500
+ Indicates Secondary Drinking Water Standards



INORGANIC CHEMICALS

2007120093-926016

| MCL | REPORTING UNITS | CHEMICAL | ENTRY# | ANALYSIS RESULTS | DLR |
|------|-----------------|-----------------------|--------|------------------|------|
| 5 | NTU | Turbidity, Laboratory | 82079 | 0.31 | |
| 0.5 | mg/L + | MBAS | 38260 | < 0.050 | |
| 1000 | µg/L | Aluminum (Al) | 01105 | ND | 50. |
| 6 | µg/L | Antimony (Sb) | 01097 | ND | 6. |
| 10 | µg/L | Arsenic (As) | 01002 | ND | 2. |
| 1000 | µg/L | Barium (Ba) | 01007 | ND | 100. |
| 4 | µg/L | Beryllium (Be) | 01012 | ND | 1. |
| 5 | µg/L | Cadmium (Cd) | 01027 | ND | 1. |
| 50 | µg/L | Chromium (Total Cr) | 01034 | ND | 10. |
| 1000 | µg/L + | Copper (Cu) | 01042 | ND | 50. |
| 300 | µg/L + | Iron (Fe) | 01045 | ND | 100. |
| | µg/L | Lead (Pb) | 01051 | ND | 5. |
| 50 | µg/L + | Manganese (Mn) | 01055 | ND | 20. |
| 2 | µg/L | Mercury (Hg) | 71900 | ND | 1. |
| 100 | µg/L | Nickel (Ni) | 01067 | ND | 10. |
| 50 | µg/L | Selenium (Se) | 01147 | ND | 5. |
| 100 | µg/L + | Silver (Ag) | 01077 | ND | 10. |
| 2 | µg/L | Thallium (Tl) | 01059 | ND | 1. |
| 5000 | µg/L | Zinc (Zn) | 01092 | ND | 50. |

ADDITIONAL ANALYSES

| | | | | | |
|------|------|-------------------------|-------|------|------|
| | | Langelier Index at 60 C | 71813 | 0.64 | |
| | | Agressiveness Index | 82383 | 12 | |
| 1000 | µg/L | Nitrite as Nitrogen(N) | 00620 | ND | 400. |
| 150 | µg/L | Cyanide | 01291 | ND | 100. |

+ Indicates Secondary Drinking Water Standards

**BSK ANALYTICAL
LABORATORIES**

07120093.res



BSK ANALYTICAL LABORATORIES

Gerry Guibert
 Monterey CHD
 1270 Natividad Rd. Rm A15
 Salinas, CA 93906

Certificate of Analysis
 NELAP Certificate #04227CA
 ELAP Certificate #1180

BSK Submission #: 2007120093

BSK Sample ID #: 926016

Report Issue Date: 12/11/2007

Project ID:

Project Desc: Paraiso Hot Springs

Submission Comments:

Sample Type: Liquid

Date Sampled: 12/03/2007

Sample Description: Well 1

Time Sampled: 1510

Sample Comments: AB03028

Date Received: 12/04/2007

Inorganics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|-------------------------------------|--------------|--------|---------|-------|----------|-------|----------------|--------------------|
| Aggressive Index | | 12 | - | | 1 | N/A | 12/10/07 | 12/10/07 |
| Alkalinity (as CaCO3) | SM 2320 B | 220 | mg/L | 3.0 | 1 | 3.0 | 12/04/07 | 12/04/07 |
| Aluminum (Al) | EPA 200.7 | ND | mg/L | 0.050 | 1 | 0.050 | 12/04/07 | 12/07/07 |
| Antimony (Sb) | EPA 200.8 | ND | µg/L | 2 | 1 | 2.0 | 12/04/07 | 12/07/07 |
| Arsenic (As) | EPA 200.8 | ND | µg/L | 2 | 1 | 2.0 | 12/04/07 | 12/07/07 |
| Barium (Ba) | EPA 200.7 | 0.065 | mg/L | 0.050 | 1 | 0.050 | 12/04/07 | 12/07/07 |
| Beryllium (Be) | EPA 200.8 | ND | µg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/07/07 |
| Bicarbonate (as CaCO3) | SM 2320 B | 220 | mg/L | 3.0 | 1 | 3.0 | 12/04/07 | 12/04/07 |
| Cadmium (Cd) | EPA 200.8 | ND | µg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/07/07 |
| Calcium (Ca) | EPA 200.7 | 24 | mg/L | 0.10 | 1 | 0.10 | 12/04/07 | 12/07/07 |
| Carbonate (as CaCO3) | SM 2320 B | ND | mg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/04/07 |
| Chloride (Cl) | EPA 300.0 | 52 | mg/L | 1.0 | 3 | 3.0 | 12/04/07 | 12/04/07 |
| Chromium - Total (Cr) | EPA 200.8 | ND | µg/L | 10 | 1 | 10 | 12/04/07 | 12/07/07 |
| Color (A.P.H.A) | SM 2120 B | ND | units | 1.0 | 1 | 1.0 | 12/04/07 1626 | 12/04/07 1626 |
| Conductivity - Specific (EC) @ 25°C | SM 2510 B | 1200 | µmho/cm | 1.0 | 1 | 1.0 | 12/04/07 | 12/04/07 |
| Copper (Cu) | EPA 200.8 | ND | µg/L | 50 | 1 | 50 | 12/04/07 | 12/07/07 |
| Cyanide (CN) | SM 4500-CN-F | ND | µg/L | 20 | 1 | 20 | 12/04/07 | 12/04/07 |
| Fluoride | EPA 300.0 | 2.8 | mg/L | 0.10 | 5 | 0.50 | 12/05/07 | 12/05/07 |
| Hardness (as CaCO3) | SM 2340 B | 130 | mg/L | 1.0 | 1 | 1.0 | 12/10/07 | 12/10/07 |
| Hydroxide (as CaCO3) | SM 2320 B | ND | mg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/04/07 |
| Iron (Fe) | EPA 200.7 | 0.056 | mg/L | 0.050 | 1 | 0.050 | 12/04/07 | 12/07/07 |
| Langelier Index (Saturation Index) | SM 2330 B | 0.64 | - | - | 1 | N/A | 12/10/07 | 12/10/07 |
| Lead (Pb) | EPA 200.8 | ND | µg/L | 5.0 | 1 | 5.0 | 12/04/07 | 12/07/07 |
| Magnesium (Mg) | EPA 200.7 | 17 | mg/L | 0.10 | 1 | 0.10 | 12/04/07 | 12/07/07 |
| Manganese (Mn) | EPA 200.7 | ND | mg/L | 0.010 | 1 | 0.010 | 12/04/07 | 12/07/07 |
| MBAS, Calculated as LAS, mol wt 340 | SM 5540 C | ND | mg/L | 0.050 | 1 | 0.050 | 12/05/07 10:45 | 12/05/07 10:45 |
| Mercury (Hg) | EPA 200.8 | ND | µg/L | 0.40 | 1 | 0.40 | 12/04/07 | 12/07/07 |
| Nickel (Ni) | EPA 200.8 | ND | µg/L | 10 | 1 | 10 | 12/04/07 | 12/07/07 |
| Nitrate (NO3) | EPA 300.0 | 5.1 | mg/L | 1.0 | 3 | 3.0 | 12/04/07 11:55 | 12/04/07 11:55 |

mg/L: Milligrams/Liter (ppm)

mg/Kg: Milligrams/Kilogram (ppm)

µg/L: Micrograms/Liter (ppb)

µg/Kg: Micrograms/Kilogram (ppb)

%Rec: Percent Recovered (surrogates)

Report Authentication Cod:



PQL: Practical Quantitation Limit

DLR: Detection Limit for Reporting

: PQL x Dilution

ND: None Detected at DLR

pCi/L: Picocurie per Liter

H: Analyzed outside of hold time

P: Preliminary result

S: Suspect result. See Case Narrative for comments.

E: Analysis performed by External laboratory.

See External Laboratory Report attachments.

MDC: Min Detectable Concentration

BSK ANALYTICAL LABORATORIES

Certificate of Analysis
NELAP Certificate #04227CA
ELAP Certificate #1180

Gerry Guibert
 Monterey CHD
 1270 Natividad Rd. Rm A15
 Salinas, CA 93906

BSK Submission #: 2007120093

BSK Sample ID #: 926016

Report Issue Date: 12/11/2007

Project ID:

Project Desc: Paraiso Hot Springs

Submission Comments:

Sample Type: Liquid

Date Sampled: 12/03/2007

Sample Description: Well 1

Time Sampled: 1510

Sample Comments: AB03028

Date Received: 12/04/2007

Inorganics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|------------------------------|--------------|--------|-----------|-------|----------|-------|----------------|--------------------|
| Nitrite (NO2-N) | EPA 300.0 | ND | mg/L | 0.050 | 3 | 0.15 | 12/04/07 11:55 | 12/04/07 11:55 |
| Odor | SM 2150 B | 1.0 | TON | 1.0 | 1 | 1.0 | 12/04/07 1626 | 12/04/07 1626 |
| pH at 22.32°C | SM 4500-H+ B | 8.1 | Std. Unit | - | 1 | N/A | 12/04/07 19:41 | 12/04/07 19:41 |
| Potassium (K) | EPA 200.7 | ND | mg/L | 2 | 1 | 2.0 | 12/04/07 | 12/07/07 |
| Selenium (Se) - Total | EPA 200.8 | 2.0 | µg/L | 2 | 1 | 2.0 | 12/04/07 | 12/07/07 |
| Silver (Ag) | EPA 200.8 | ND | µg/L | 10 | 1 | 10 | 12/04/07 | 12/07/07 |
| Sodium (Na) | EPA 200.7 | 16 | mg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/07/07 |
| Sulfate (SO4) | EPA 300.0 | 400 | mg/L | 2 | 7 | 14 | 12/04/07 | 12/04/07 |
| Thallium (Tl) | EPA 200.8 | ND | µg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/07/07 |
| Total Dissolved Solids (TDS) | SM 2540 C | 890 | mg/L | 5.0 | 1 | 5.0 | 12/05/07 | 12/06/07 |
| Turbidity | SM 2130 B | 0.31 | NTU | 0.10 | 1 | 0.10 | 12/04/07 1626 | 12/04/07 1626 |
| Zinc (Zn) | EPA 200.7 | ND | mg/L | 0.050 | 1 | 0.050 | 12/04/07 | 12/07/07 |

mg/L: Milligrams/Liter (ppm)
 mg/Kg: Milligrams/Kilogram (ppm)
 µg/L: Micrograms/Liter (ppb)
 µg/Kg: Micrograms/Kilogram (ppb)
 %Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
 DLR: Detection Limit for Reporting
 : PQL x Dilution
 ND: None Detected at DLR
 pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
 P: Preliminary result
 S: Suspect result. See Case Narrative for comments.
 E: Analysis performed by External laboratory.
 See External Laboratory Report attachments.
 MDC: Min Detectable Concentration

Report Authentication Code:



Page 2 of 4

BSK ANALYTICAL LABORATORIES

Certificate of Analysis
NELAP Certificate #04227CA
ELAP Certificate #1180

Gerry Guibert
 Monterey CHI
 1270 Natividad Rd. Rm A15
 Salinas, CA 93906

BSK Submission #: 2007120093

BSK Sample ID #: 926017

Report Issue Date: 12/11/2007

Project ID:

Project Desc: Paraiso Hot Springs

Submission Comments:

Sample Type: Liquid

Date Sampled: 12/03/2007

Sample Description: Well 2

Time Sampled: 1515

Sample Comments: AB03029

Date Received: 12/04/2007

Inorganics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|-------------------------------------|--------------|--------|---------|-------|----------|-------|----------------|--------------------|
| Aggressive Index | | 12 | - | | 1 | N/A | 12/10/07 | 12/10/07 |
| Alkalinity (as CaCO3) | SM 2320 B | 39 | mg/L | 3.0 | 1 | 3.0 | 12/04/07 | 12/04/07 |
| Aluminum (Al) | EPA 200.7 | ND | mg/L | 0.050 | 1 | 0.050 | 12/04/07 | 12/07/07 |
| Antimony (Sb) | EPA 200.8 | ND | µg/L | 2 | 1 | 2.0 | 12/04/07 | 12/07/07 |
| Arsenic (As) | EPA 200.8 | ND | µg/L | 2 | 1 | 2.0 | 12/04/07 | 12/07/07 |
| Barium (Ba) | EPA 200.7 | 0.069 | mg/L | 0.050 | 1 | 0.050 | 12/04/07 | 12/07/07 |
| Beryllium (Be) | EPA 200.8 | ND | µg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/07/07 |
| Bicarbonate (as CaCO3) | SM 2320 B | 22 | mg/L | 3.0 | 1 | 3.0 | 12/04/07 | 12/04/07 |
| Cadmium (Cd) | EPA 200.8 | ND | µg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/07/07 |
| Calcium (Ca) | EPA 200.7 | 23 | mg/L | 0.10 | 1 | 0.10 | 12/04/07 | 12/07/07 |
| Carbonate (as CaCO3) | SM 2320 B | 17 | mg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/04/07 |
| Chloride (Cl) | EPA 300.0 | 48 | mg/L | 1.0 | 3 | 3.0 | 12/04/07 | 12/04/07 |
| Chromium - Total (Cr) | EPA 200.8 | ND | µg/L | 10 | 1 | 10 | 12/04/07 | 12/07/07 |
| Color (A.P.H.A) | SM 2120 B | ND | units | 1.0 | 1 | 1.0 | 12/04/07 1629 | 12/04/07 1629 |
| Conductivity - Specific (EC) @ 25°C | SM 2510 B | 1300 | µmho/cm | 1.0 | 1 | 1.0 | 12/04/07 | 12/04/07 |
| Copper (Cu) | EPA 200.8 | ND | µg/L | 50 | 1 | 50 | 12/04/07 | 12/07/07 |
| Cyanide (CN) | SM 4500-CN E | ND | mg/L | 0.020 | 1 | 0.020 | 12/07/07 | 12/08/07 |
| Fluoride | EPA 300.0 | 9.1 | mg/L | 0.10 | 8 | 0.80 | 12/05/07 | 12/05/07 |
| Hardness (as CaCO3) | SM 2340 B | 110 | mg/L | 1.0 | 1 | 1.0 | 12/10/07 | 12/10/07 |
| Hydroxide (as CaCO3) | SM 2320 B | ND | mg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/04/07 |
| Iron (Fe) | EPA 200.7 | ND | mg/L | 0.050 | 1 | 0.050 | 12/04/07 | 12/07/07 |
| Langelier Index (Saturation Index) | SM 2330 B | 0.56 | - | - | 1 | N/A | 12/10/07 | 12/10/07 |
| Lead (Pb) | EPA 200.8 | ND | µg/L | 5.0 | 1 | 5.0 | 12/04/07 | 12/07/07 |
| Magnesium (Mg) | EPA 200.7 | 12 | mg/L | 0.10 | 1 | 0.10 | 12/04/07 | 12/07/07 |
| Manganese (Mn) | EPA 200.7 | ND | mg/L | 0.010 | 1 | 0.010 | 12/04/07 | 12/07/07 |
| MBAS, Calculated as LAS, mol wt 340 | SM 5540 C | ND | mg/L | 0.050 | 1 | 0.050 | 12/05/07 10:45 | 12/05/07 10:45 |
| Mercury (Hg) | EPA 200.8 | ND | µg/L | 0.40 | 1 | 0.40 | 12/04/07 | 12/07/07 |
| Nickel (Ni) | EPA 200.8 | ND | µg/L | 10 | 1 | 10 | 12/04/07 | 12/07/07 |
| Nitrate (NO3) | EPA 300.0 | ND | mg/L | 1.0 | 3 | 3.0 | 12/04/07 12:03 | 12/04/07 12:03 |

mg/L: Milligrams/Liter (ppm)

mg/Kg: Milligrams/Kilogram (ppm)

µg/L: Micrograms/Liter (ppb)

µg/Kg: Micrograms/Kilogram (ppb)

%Rec: Percent Recovered (surrogates)

Report Authentication Code:

PQL: Practical Quantitation Limit

DLR: Detection Limit for Reporting

: PQL x Dilution

ND: None Detected at DLR

pCi/L: Picocurie per Liter

H: Analyzed outside of hold time

P: Preliminary result

S: Suspect result. See Case Narrative for comments.

E: Analysis performed by External laboratory.

See External Laboratory Report attachments.

MDC: Min Detectable Concentration

BSK ANALYTICAL LABORATORIES

Certificate of Analysis
NELAP Certificate #04227CA
ELAP Certificate #1180

Gerry Guibert
 Monterey CHI
 1270 Natividad Rd. Rm A15
 Salinas, CA 93906

BSK Submission #: 2007120093

BSK Sample ID #: 926017

Report Issue Date: 12/11/2007

Project ID:

Project Desc: Paraiso Hot Springs

Submission Comments:

Sample Type: Liquid

Date Sampled: 12/03/2007

Sample Description: Well 2

Time Sampled: 1515

Sample Comments: AB03029

Date Received: 12/04/2007

Inorganics

| Analyte | Method | Result | Units | PQL | Dilution | DLR | Prep Date/Time | Analysis Date/Time |
|------------------------------|--------------|--------|-----------|-------|----------|-------|----------------|--------------------|
| Nitrite (NO2-N) | EPA 300.0 | ND | mg/L | 0.050 | 3 | 0.15 | 12/04/07 12:03 | 12/04/07 12:03 |
| Odor | SM 2150 B | 20 | TON | 1.0 | 1 | 1.0 | 12/04/07 1629 | 12/04/07 1629 |
| pH at 22.23°C | SM 4500-H+ B | 8.9 | Std. Unit | - | 1 | N/A | 12/04/07 19:49 | 12/04/07 19:49 |
| Potassium (K) | EPA 200.7 | 2.4 | mg/L | 2 | 1 | 2.0 | 12/04/07 | 12/07/07 |
| Selenium (Se) - Total | EPA 200.8 | ND | µg/L | 2 | 1 | 2.0 | 12/04/07 | 12/07/07 |
| Silver (Ag) | EPA 200.8 | ND | µg/L | 10 | 1 | 10 | 12/04/07 | 12/07/07 |
| Sodium (Na) | EPA 200.7 | 20 | mg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/07/07 |
| Sulfate (SO4) | EPA 300.0 | 480 | mg/L | 2 | 8 | 16 | 12/04/07 | 12/04/07 |
| Thallium (Tl) | EPA 200.8 | ND | µg/L | 1.0 | 1 | 1.0 | 12/04/07 | 12/07/07 |
| Total Dissolved Solids (TDS) | SM 2540 C | 850 | mg/L | 5.0 | 1 | 5.0 | 12/05/07 | 12/06/07 |
| Turbidity | SM 2130 B | 0.10 | NTU | 0.10 | 1 | 0.10 | 12/04/07 1629 | 12/04/07 1629 |
| Zinc (Zn) | EPA 200.7 | ND | mg/L | 0.050 | 1 | 0.050 | 12/04/07 | 12/07/07 |

mg/L: Milligrams/Liter (ppm)
 mg/Kg: Milligrams/Kilogram (ppm)
 µg/L: Micrograms/Liter (ppb)
 µg/Kg: Micrograms/Kilogram (ppb)
 %Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
 DLR: Detection Limit for Reporting
 : PQL x Dilution
 ND: None Detected at DLR
 pCi/L: Picocurie per Liter

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 E: Analysis performed by External laboratory.
 See External Laboratory Report attachments.
 MDC: Min Detectable Concentration

Report Authentication Code:



Page 4 of 4

Attachment 6
Representative Activated Alumina Treatment
System Vendor Brochure



Basin Water™



Worry-Free Water™
For Your Community

Protect

your community from
groundwater contamination and drought

Basin Water helps you serve your community by providing a dependable supply of safe drinking water from groundwater sources that have been impaired due to contamination. We offer proven, cost-effective solutions for wells ranging from 50 to 6,000 GPM and higher. If contaminated groundwater is keeping you from providing reliable, affordable drinking water to your community, let Basin Water help you deliver.



High-efficiency ion exchange
arsenic removal facility



High-efficiency ion exchange
nitrate removal unit



High-efficiency ion exchange
uranium removal unit

The difference is the Service

Basin Water offers a distinctive solution. We make a long-term commitment to you to provide your community with safe drinking water out of your own wells. You get the total package: planning, financing, hardware, software, and service including upgrades and waste disposal.

Your service agreement with Basin Water is all-inclusive and ongoing. If the quality of your source water changes, if regulations tighten, if your needs increase — no matter what happens — we are committed to work with you to deliver a consistent supply of drinking water that meets both government regulations and your expectations.

We also shoulder the burden of maintenance, including handling service calls 24/7 to maximize uptime. We even take care of waste disposal. You do not have to expend your time and effort.

As technologies improve, Basin Water optimizes your system on an ongoing basis. You won't be stuck owning an obsolete system. If there are hardware or software upgrades that make sense, we handle them. You always have the best-available solution for your water source, your contaminants, and your community.

Turn your water problems over to Basin Water and get a complete solution.



Eliminate

unwanted contaminants
& unbudgeted expenses



A Better Solution

Basin Water offers a service-based approach to removing contaminants from drinking water. We can employ a wide range of technologies and approaches, so you get the right solution for your situation. Because we're flexible in our approach, we can rapidly adapt to meet changing circumstances, whether it's a change in your water or a change in regulations. We can even address the removal of multiple contaminants.

Unlike other solutions, Basin Water can deploy fast. We can have equipment on-site in as little as 12 weeks.

Basin Water is currently providing treatment capacity for over 80 million gallons per day of safe drinking water to communities throughout the United States. And now Basin Water offers solutions for lower-flow wells below 350 GPM. Our systems are field-proven and cost-effective.

Guaranteed Performance

The treatment volume and objective that you contract for is what you get, with no excuses. If regulations or the quality of your well water changes, Basin Water has the flexibility to meet the new treatment or regulatory requirements. We guarantee compliance and provide the basis for you to plan your costs.

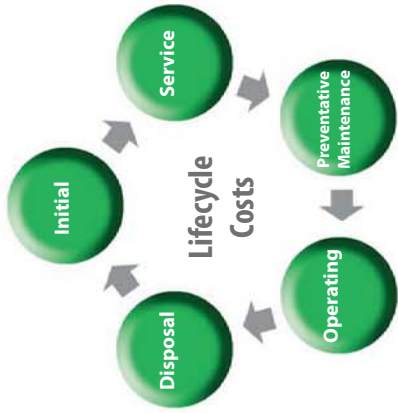


High-efficiency ion exchange arsenic removal facility



Low Lifecycle Costs

Basin Water selects the best technology to meet your needs and delivers that technology through a long-term relationship enabling you to predict and budget your operating costs. Your contract with Basin Water includes planning and design, through implementation and permitting, to ongoing maintenance and residual disposal. The result: low total lifecycle costs.



24/7 Service

Your Basin Water system runs automatically. We use remote monitoring tools to allow us to access and evaluate your system operations. Should any issues arise, our technicians will provide on-site response and are on call 24/7 to keep your water supply dependable.

Financing To Fit Your Needs

Basin Water offers flexible financing options to meet the needs of your community and your budget. We offer purchase or lease options with our long-term water service agreements. Equipment ownership can be structured to fit your capital budget. We are committed to helping you serve your community with a reliable supply of safe, affordable drinking water.



Internal view of ion exchange unit

Arsenic

The key difference is a range of flow-rates: Basin Water can treat water flow-rates from 50 GPM to 6000 GPM and higher. For higher flows, Basin Water employs either high-efficiency ion exchange or coagulation filtration technology to optimize the advantage to the customer. Our ion-exchange system produces a fraction of the waste generated by conventional arsenic removal systems, resulting in lower operating costs. For lower flows, Basin Water employs a system based upon arsenic-selective media and offers the option of off-site regeneration at our central facility. Basin Water also manages the disposal of the waste residuals.

Chromium

The key difference is experience: Basin Water has long been involved in hexavalent chromium removal applications. Basin Water offers either permanent installations or a service-exchange system. Under the service-exchange model, chromium removal resin regeneration takes place in Basin Water's facility, and the chromium is recovered.

Organics

The key difference is our process approach: Basin Water offers a range of solutions including an advanced process to remove organics that combines ultra-filtration with photocatalytic oxidation reduction. There are a number of organic contaminants that impact groundwater. These include 1,4 Dioxane, methyl tertiarybutylether (MTBE), perchloroethylene (PCE), and trichloroethylene (TCE). Additionally, naturally occurring organic material (tannins and lignins) can pose color, taste and odor problems.

Nitrate

The key difference is our efficiency: Basin Water has proprietary technologies that produce recovery rates that are among the highest in the industry. Characterization of the raw water allows Basin Water engineers to design a system that will optimize the ion-exchange removal and regeneration process, maximizing treated water delivered to your customers while minimizing salt consumption and waste brine generation.

Radionuclides

The key difference is the total solution: Basin Water offers a radionuclides removal program that includes the delivery of new media and managing the disposition of spent media.

Basin Water removes any element of doubt.

Basin Water Advantages

- We define the water chemistry and treatment objective prior to pairing your needs with any particular process or technology
- We perform analysis and treatment simulation validation studies
- Multiple treatment technologies
- Exclusive access to high-performance contaminant removal media
- Efficient process-control technology combined with standardized design approaches per contaminant or across multiple contaminants
- Both on-site and off-site regeneration are available to ensure low total lifecycle costs for a wide range of flow-rates and water chemistries
- Commitment to ensuring regenerate and disposal volumes are met — including guaranteed cost of operation for the defined water chemistry and operating conditions
- Commitment to maintain the deployed system over the life of the asset including both hardware and software components

Perchlorate

The key difference is choice: Basin Water offers a dual-treatment solution with either on-site regenerable resin or disposable resin. We have developed a patented technology to eliminate perchlorate waste and allow reuse of perchlorate-selective ion-exchange resin. Elimination of perchlorate waste without incineration offers significant environmental and economic benefits.



Put Basin Water to work for you, your agency, and your customers.



Headquarters:

8731 Prestige Court
Rancho Cucamonga, California 91730

Administrative Offices:

9302 Pittsburgh Avenue, Suite 210
Rancho Cucamonga, California 91730

Mailing Address:

P.O. Box 1400
Rancho Cucamonga, California 91729

Branch Office:

2070 Airways Boulevard
Memphis, Tennessee 38114

Branch Office:

2850 S. 36th Street, Suite A6
Phoenix, Arizona 85034

Branch Office:

Two Kingwood Place
700 Rockmead Drive, Suite 105
Kingwood, Texas 77339

Tel: (888) 481-6811 • (909) 481-6800 • Fax: (909) 481-6801 • Email: info@basinwater.com
www.basinwater.com

Attachment 7
Well Drilling Logs and Drilling Survey
Summary

WELLS

WELL COMPLETION REPORT

NO. 411877

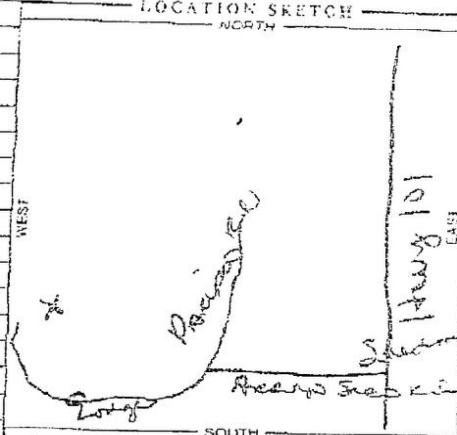
Monte...
46777

STATE OF CALIFORNIA
LATITUDE

DESCRIPTION
sand shale

WELL OWNER
Pariso Inc.
Address: Pajaro Springs Rd.
Soledad Ca 95070

WELL LOCATION
Section: Pajaro Springs
City: Soledad
County: Monterey
APN: 418-000-000
Township: Range: Section:
Latitude: Longitude:



Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

DRILLING METHOD: Rotary
WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH OF STATIC WATER LEVEL (ft.) & DATE MEASURED
ESTIMATED YIELD (GPM) & TEST TYPE
TEST LENGTH (hrs.) TOTAL DRAWDOWN

DEPTH OF COMPLETED WELL: 640 (Feet)

| DEPTH | BORE-HOLE DIA. (inch) | TYPE | | | MATERIAL GRADE | INTERNAL DIAMETER (inch) | GAUGE OR WALL THICKNESS | SLOT SIZE IF ANY (inch) | DEPTH FROM SURFACE | | ANNUAL PRODUCTION | |
|-------|-----------------------|------|--------|------|----------------|--------------------------|-------------------------|-------------------------|--------------------|-----|-------------------|--------|
| | | RAM | SCREEN | PIPE | | | | | FT. | IN. | CU FT. | TONNES |
| 0 | 10 | X | | | PVC | 5 | | | 0 | 70 | | |
| 70 | 10 | | X | | PVC | 5 | | | 70 | 640 | X | |
| | 10 | | X | | PVC | 5 | | | | | | |
| | 10 | | X | | PVC | 5 | | | | | | |
| | 10 | | X | | PVC | 5 | | | | | | |
| | 10 | | X | | PVC | 5 | | | | | | |

REMARKS

VERIFICATION STATEMENT
I, the undersigned, certify that the information is complete and accurate to the best of my knowledge.
Signed: Salinas Pump Co. Inc.
372 Ventura Ave. Salinas, Ca. 95001
DATE: 8/20/04

DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

MAIN WELL #1

NP

State No. _____
Other Well No. _____

WELL LOG:
Pareiso Springs
Pareiso Springs Rd
Coloed, Ca. 92301 93960
LOCATION OF WELL:
Pareiso Springs Rd
Pareiso Springs Rd

109
0
5' Top Soil
6' - 80' Sand
80' - 95' Brown Sand
95' - 105' Rock
105' - 109' Rock

TYPE OF WORK (check):
 Deepening Reconditioning Destroying

INTENDED USE (check):
 Industrial Municipal Test Well Other
(1) EQUIPMENT:
Rotary
Cable
Other

PIPE INSTALLED:
OTHER: _____
If gravel packed _____
Diam. Gage or Wall Diameter of Bore From ft. To ft.
104 8" 8 Ga 22" 0 104
Type of seal: 1/4 Dec

WELDED VIBRATIONS OR SCREEN:
Type of screen _____
To ft. Perf. per row Rows per ft. Size in. x in.
104 6 6 1/8 Std Louvre

CONSTRUCTION:
Casing provided? Yes No To what depth 40 ft.
Casing set in cement? Yes No If yes, note depth of casing _____
Type of concrete _____
Concrete w/gravel chute

Work done 12/1 12 76 Completed 12/11 76
WELL DRILLER'S STATEMENT:
This well was drilled under my supervision and the results given herein are to the best of my knowledge and belief.

WATER LEVELS:
Depth was first found at bottom _____ ft.
Depth perforating, if known _____ ft.
Depth perforating and casing to _____ ft.

NAME SALINAS PUMP CO.
(Person, firm, or corporation)
Address 1172 Madison Ave
Salinas, Ca. 93901
John J. Salinas
(Well Driller)

TESTS:
Type of test _____
Date of test _____
Name of tester _____

SYMBOL LOCATION OF WELL ON REVERSE SIDE

WELL #1: VIDEO SURVEY SUMMARY

| | |
|-------------------------------|--|
| Static DTW (ft btoc) | 69.71 ft BGS on 11/26/2007 12:05:00 PM |
| Casing ID at surface (inches) | 8.0 inch, 8 Gage spiral casing |
| Casing Material | Steel |
| Screen Type and Material | 8.0 inch, 1/8 Std louver spiral steel casing |
| Video Survey Date | 12/13/2007 5:00 |
| Zero Datum | Top of casing |
| Logging Contractor | Newman Surveys, LLC |
| Equipment Used | 3-3/4 Inch Color Side Scan Camera |
| Operator | Craig Newman |
| Contact Phone Number | 831.722.2388 |
| Cost | \$650-1st, \$300-2nd, \$250-3rd, \$200-4th |
| Video Total Depth (ft) | 100.8 |
| Expected Total Depth (ft) | 104 (perforations expected to 104 ft) |
| Date Well Constructed | 12/11/1976 |
| Drilling Contractor | Salinas Pump Co. |

| Depth | Well Construction Notes | Comments |
|-------|-------------------------|--|
| 19.5 | Casing joint | |
| 40.0 | Casing joint | |
| 45.5 | Top of louvers | |
| 64.3 | | Water level |
| 80.0 | | From 64 ft to 80 ft, minor build up in the louvers, from 80 ft to 87 ft, heavy build up in louvers and casing |
| 84.0 | Casing joint | |
| 87.0 | | Very heavy build up to 100 ft, louvers are difficult to see and are completely covered by build up. Build up appears to be biological but it may also be geochemical or precipitation of minerals. |
| 92.0 | | Electrical wire cable debris at bottom of well: 92 ft to 99 ft. Cable appears corroded and old, may be pump cable. |
| 94.0 | | Difficult to see louvers and casing joints |
| 99.0 | | Electrical wire cable |
| 100.8 | Bottom of video survey | Debris at bottom of well |

Summary: The steel well casing appears to be in good condition, however, heavy biological fouling and geochemical precipitation build up occurs throughout the entire section of the louvers. Louvers are completely blocked or covered in places so much that you cannot see them with the video camera. Well efficiency may be dramatically increased with well rehabilitation, development or over pumping. The video log did not reach the anticipated depth of 104 ft, therefore, approximately 4 ft of debris are at the bottom of the well.

WELL #2: VIDEO SURVEY SUMMARY

| | |
|--------------------------------------|--|
| Static DTW (ft btoc) | <u>2.01 ft BGS on 11/26/2007 12:45:00 PM</u> |
| Casing ID at surface (inches) | <u>6.0 inch, telescopes to 5.0 inch at 525 ft</u> |
| Casing Material | <u>PVC, glued joints</u> |
| Screen Type and Material | <u>Saw cut vertical slots, saw cut horizontal slots, factory horizontal slots, PVC</u> |
| Video Survey Date | <u>12/13/2007 5:00</u> |
| Zero Datum | <u>Top of casing</u> |
| Logging Contractor | <u>Newman Surveys, LLC</u> |
| Equipment Used | <u>3-3/4 Inch Color Side Scan Camera</u> |
| Operator | <u>Craig Newman</u> |
| Contact Phone Number | <u>831.722.2388</u> |
| Cost | <u>\$650-1st, \$300-2nd, \$250-3rd, \$200-4th</u> |
| Video Total Depth (ft) | <u>762.9</u> |
| Expected Total Depth (ft) | <u>640 Based on the Driller's Report</u> |
| Date Well Constructed | <u>06/28/1992</u> |
| Drilling Contractor | <u>Salinas Pump Co.</u> |

| Depth | Well Construction Notes | Comments |
|--------------|--------------------------------|--|
| 2.1 | Top of 6 inch Tee joint | 6 inch Tee stub out oriented towards the creek. May be used for discharge during artesian conditions. |
| 2.6 | Bottom of 6 inch Tee joint | Stub out appears secure and sealed ~ 2 ft away from well casing. |
| 9.9 | | Water level |
| 34.0 | Casing joint | |
| 54.0 | Casing joint | |
| 74.1 | Casing joint | |
| 94.2 | Casing joint | |
| 108.9 | | CH2M HILL's temporary pressure transducer: removed on 12/31/2007 |
| 114.0 | Casing joint | |
| 114.9 | Top of perforations | |
| 132.9 | Bottom of perforations | Saw cut 0.5 ft long vertical slots, 3 vertical slots every 1 ft (1 ft of blank, 1 ft of slots) |
| 134.0 | Casing joint | |
| 136.0 | | White PVC casing has black discoloring, probably due to the Well #2 test pump during the Nov-Dec 2007 source capacity assessment aquifer test. Electrical submersible pump set at around 130 ft. |
| 154.0 | Casing joint | |
| 174.0 | Casing joint | |
| 194.0 | Casing joint | |
| 214.0 | Casing joint | |

WELL #2: VIDEO SURVEY SUMMARY

| Depth | Well Construction Notes | Comments |
|-------|--------------------------------------|---|
| 234.0 | Casing joint | |
| 235.0 | Top of perforations | Saw cut 0.5 ft long vertical slots, 3 vertical slots every 1 ft (1 ft of blank, 1 ft of slots) |
| 253.5 | Casing joint | |
| 272.3 | Bottom of perforations | |
| 273.0 | Casing joint | |
| 293.0 | Casing joint | |
| 313.0 | Casing joint | |
| 332.0 | Casing joint | |
| 349.0 | Casing joint | |
| 350.0 | Casing joint | |
| 369.0 | Casing joint | |
| 370.0 | Top of perforations | Saw cut 0.5 ft long vertical slots, 3 vertical slots every 1 ft (1 ft of blank, 1 ft of slots) |
| 388.1 | Bottom of perforations | |
| 389.0 | Casing joint | |
| 389.4 | Top of perforations | Saw cut horizontal slots, 3 different sets of slots around the perimeter of the casing, 1 inch vertical spacing between slots with no breaks |
| 409.0 | Casing joint | |
| 429.0 | Casing joint | |
| 449.0 | Casing joint | |
| 469.0 | Casing joint | |
| 470.0 | | Saw cut horizontal slots, 3 different sets of slots around the perimeter of the casing, 1 inch vertical spacing between slots with 1 ft blank then 1 ft of slots - etc |
| 489.0 | Casing joint | |
| 505.0 | Bottom of perforations, casing joint | |
| 525.0 | Casing joint | |
| 530.0 | Casing joint | Casing ID telescopes from 6 inch ID to 5 inch ID reduction |
| 530.4 | Top of perforations | Factory cut horizontal slots, 3 different sets of slots around the perimeter of the casing, 0.3 inch vertical spacing between slots, 6 inches of slots with 2 inch breaks between slots Some biological fouling: build up is black color |
| 549.0 | Casing joint | |
| 569.0 | Casing joint | |
| 590.0 | Casing joint | |
| 610.0 | Casing joint | |
| 630.0 | Casing joint | |
| 650.0 | Casing joint | |
| 670.0 | Casing joint | |

WELL #2: VIDEO SURVEY SUMMARY

| Depth | Well Construction Notes | Comments |
|-------|-------------------------|---|
| 690.0 | Casing joint | |
| 710.0 | Casing joint | |
| 715.0 | | Some biological fouling: build up is black color and focused in the slots |
| 720.0 | | No biological build up |
| 730.0 | Casing joint | |
| 750.0 | Casing joint | |
| 762.9 | Bottom of video survey | Debris in bottom of well and slots. Debris is soft and appears to be sand and mud |

Summary: The PVC well casing appears to be in good condition. Some sections of the well have perforations that are saw cut and the deeper section (below 530 ft) of the well has factory cut slots. The well casing telescopes from 6 inch ID to 5 inch ID at 525 ft. Little biological fouling or build up occurs along in the well casing and in the slots. The video log went below the anticipated depth of 640 ft, however debris was observed at the bottom of the well. If the deepest casing joint is 20 ft long, then the bottom of the well may be at 770, or 7 ft of debris in the bottom of the well assuming the well does not have a sump.