February 14, 2011
Revised May 23, 2011

Mr. Steve De Young
BrightSource Energy, Inc.
1999 Harrison Street, Suite 2150
Oakland, CA 94612

Subject: Report of Groundwater Monitoring and Sampling
Rio Mesa Solar Project
10 Miles Southwest of Blythe
Riverside County, California
URS Project No. 27651005.NOBIL

Dear Mr. De Young:

URS Corporation Americas (URS) is pleased to provide BrightSource Energy, Inc. (BrightSource) this letter report summarizing the results of water-level monitoring and groundwater analyses for wells at the proposed project (Project). The main Project site is located on Palo Verde Mesa, approximately 10 miles southwest of Blythe, in Riverside County, California (Figure 1). Our services were performed in accordance with Work Order No. 1005-01 authorized by Ms. Krista Kisch of BrightSource, on January 18, 2011. A report of our findings was provided to BrightSource on February 14, 2011. URS conducted resampling of the pumping well (28R003S) on May 11, 2011. The analytical results for that groundwater sample are included in this revised report.

PROJECT UNDERSTANDING

We understand that BrightSource has entered a lease agreement with the Metropolitan Water District of Southern California (MWD) for approximately 6,000 acres of land for the construction of the Project. The agreement allows for the production of up to 600 acre-feet (af) of groundwater annually for water supply for the Project. However, the lease agreement makes no guarantees regarding the quality and availability of groundwater beneath the site. The Project will require approximately 200 acre-feet per year (afy) of water for construction and approximately100 afy for operation.

In the 1970s, a nuclear power plant was planned for the site by San Diego Gas and Electric (SDG&E), known as the SunDesert Project. Many studies were conducted at the site as part of the permitting process with the U.S. Nuclear Regulatory Commission (NRC). The final Environmental Statement (ES) indicates that an onsite well was tested in 1976 to evaluate the potential for groundwater to meet the water supply demand for the project. Although groundwater could not meet the water demand for the project, it was reported that the well could produce up to 1,000 gallons per minute (gpm) with approximately 55 feet of drawdown. In our data review conducted during the fatal-flaw analysis, no other information related to the aquifer test was identified.

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According to the final ES, the total dissolved solids (TDS) concentration of water from this well in 1976 was approximately 1,800 mg/L.

We understand that a new water supply well will be installed up to 2 or 3 miles to the northeast in the same aquifer that will provide water for the project. Because the new well will be drawing from the same aquifer, water quality is expected to be similar to the existing well, provided that there are no geological conditions such as a fault or different lithology that could be responsible for variations in water quality. Previous investigations conducted for the SunDesert Project identified no major faults within the site.

Regional Hydrogeology

The site, transmission line and substations are located in the Palo Verde Mesa Groundwater Basin (PVMGB; RWQCB 2006) (Figure 2). The Palo Verde Valley Groundwater Basin (PVVGB) is located to the east that includes the Colorado River. The site and PVMGB lie on a mesa at higher elevation than the river floodplain. The boundary between the two groundwater basins is not a barrier, but appears to be defined based on surface water flow and topography. Groundwater is derived primarily from a surficial alluvial aquifer that is connected to the Colorado River. In the PVMGB groundwater is also derived by the surficial alluvial aquifer and from older Tertiary deposits, including Miocene-age fanglomerate and the Bouse Formation.

The USGS National Water Information System (NWIS) database indicates that there are many observation, destroyed, abandoned, and pumping wells in the PVMGB and the adjacent PVVGB. These wells are or were previously used primarily for agriculture. Based upon on field investigation and USGS information, there are number of groundwater supply and observation wells within and near the Project site are shown on Figure 3. Depth to groundwater on site ranges from about 140 to 150 feet below the ground surface (bgs) based on information in the NWIS database (USGS 2011). This corresponds with groundwater elevations ranging from approximately 215 to 225 feet above mean sea level (msl).

Department of Water Resources (DWR) indicates that well yields are reported to be as high as 2,750 gpm (approximately 4,438 afy) in wells located in the PVMGB (DWR 2004). Extensive studies were conducted as part of the Final ES on behalf of San Diego Gas and Electric Company (SDG&E; U.S Nuclear Regulatory Commission 1978) for the SunDesert project. The ES indicates that a test well and three observation wells were installed on the site, and aquifer test was conducted utilizing these wells. The ES indicates that the yield of the test well was evaluated at approximately 820 gpm, with approximately 55 feet of drawdown during the test. Although this yield could not support the quantity of water needed for cooling the reactors, the well yield (approximately 1,666 afy) is approximately 10 times the volume that would be required for construction and operations of the solar farm Project.

No water quality information was noted in the NWIS database for on-site wells; however, groundwater quality information from the ES (U.S. Nuclear Regulatory Commission 1978), the California (DWR 2004), and a USGS Professional Paper (Metzger, et al. 1973) was available. DWR reports total dissolved solids (TDS) in the surficial groundwater in the basin ranges from 730 to 3,100 milligrams per liter (mg/L); however, water from one deep well in the southwest portion of the basin had a TDS concentration of 4,500 mg/L (DWR 2004). Groundwater is calcium-sodium chloride or calcium-sodium sulfate in character. Groundwater quality impairments in the basin consist of arsenic, selenium, fluoride, chloride, boron, sulfate, and TDS concentrations are above their respective Maximum Contaminant Levels (MCLs) for drinking water in California. Because of higher than recommended values of TDS, some groundwater in the basin is unsuitable for domestic and irrigation purposes. Fluoride concentrations above the MCL for drinking water have been found in the older geologic units such as the Bouse Formation and Miocene-age fanglomerate (DWR 2004). The water quality in the surficial deposits is generally of slightly better quality than the Bouse Formation (DWR 2004).

Following issuance of our report dated February 14, 2011, URS located a report in the archives of the University of California-Los Angeles that contained groundwater quality information relevant to the pumping well (28R003S) installed for the SunDesert Project in the mid 1970s (Stone & Webster, 1976). Five samples were analyzed at daily intervals during the aquifer test conducted at that time and average concentrations for several constituents were reported. The average concentrations for the five samples analyzed are provided in Table 1 for comparative purposes. TDS concentrations during the aquifer test ranged from 1,805 to 1,850 mg/l.

The main Project site is not located within the service area of any municipal or commercial water supplier. However, the site is located within the Colorado River Accounting Surface (Accounting Surface), described by the U.S. Bureau of Reclamation (USBR). The Accounting Surface is the tool by which unlawful consumptive water use from the Lower Colorado River could be determined by the USBR. The Accounting Surface extends to the margins of the River Aquifer which includes the PVMGB and PVVGB. The site lies within the Accounting Surface boundaries and the elevation of this surface in the vicinity of the Project site ranges from 320 to 326 feet above msl. The groundwater elevation at the site is generally at or below this elevation without pumping. Pumping would result in water level drawdowns, such that the elevation of the water table should be below the Accounting Surface. Therefore, the water extracted would be replaced by underflow from the River and as such, it is likely that the use of this water would be regulated by USBR.

SCOPE OF SERVICES

As part of our initial scope of work, completed URS conducted the following services to meet the objectives of our work order:

- Mobilized equipment and staff needed to complete groundwater sampling;

- Prepared a safe work plan for use by field staff during the field activities;
- Removed the existing locks to facilitate monitoring and sampling;
- Measured water levels in 19 wells located on-site;
- Purged water from two wells and conducted groundwater sampling from two wells;
- Conducted groundwater analyses by a state-certified laboratory; and
- Prepared as letter report summarizing water-level information for 19 wells and water quality for two wells monitored and sampled. This letter report was provided to BrightSource on February 14, 2011.

Following issuance of this report, some BrightSource staff had concern about the validity of the analytical results for the water sample analyzed from the pumping well using a low-flow purge method. In response to this concern, URS resampled the pumping well (28R003S) at its own cost, purging five casing volumes of water. The sampling procedures and the analytical results for this sample are included in this revised report.

FIELD PROCEDURES

WELL SURVEY

Prior to sampling on January 26, 2011, URS personnel conducted a survey of known wells identified during the Phase I ESA and from review of information appearing in the USGS NWIS database in order to identify the location of the test well utilized for the aquifer testing conducted in 1976, as part of the environmental assessment for the SunDesert Project. URS personnel observed the site for existing wells. The locations of the wells were identified using a global positioning system (GPS) unit with approximately 1-meter accuracy. Because the well identifications were not known, the wells were consecutively lettered. Information present on the well covers or caps that appeared to represent a well identification was recorded. Where necessary, URS removed the existing locks with a bolt cutter. Following water-level monitoring, new, combination locks were placed on each well and gate, where existing locks had been removed.

The total depth of 19 wells were measured using a depth sounder to the nearest 0.01 feet (Figure 4). The depth to groundwater in each well was measured using an electronic water-level indicator to the nearest 0.01 feet. If there was no water present in a well it was noted. The well location information, well depths, depths to water and construction materials for each of the wells identified is provided in Table 2. The location information was compared to the map information for at least 50 well locations appearing on Figure 3-9 of the “Evaporation Basin Report” prepared by Stone & Webster Engineering Corporation (Stone & Webster) for the SunDesert Project in June 1976 (see Attachment A) and the well IDs are noted in Table 2.

We believe that the location of the pumping well was identified and correlates with the data appearing in the NWIS database for the well identified as 28R003S (Figure 3). The well is 12 inches in diameter and is constructed of mild steel casing. The total well depth is 345.85 feet and the depth to groundwater was 144.66 feet below the top of casing (btoc). This well (well no. 28R003S) was purged and sampled on January 26, 2011.

There are three observation wells associated with the pumping well that are secured within chain-link fences that penetrate to the same approximate depth as the pumping well (wells 28R001S, 28R002S and 28Q001S) (Figure 4). These wells were not sampled since these are probably constructed in a similar manner as well 28R003S. URS identified a 500-foot well (28Q002S) and it was selected as a second well to be purged and sampled, since it may represent water quality in a depth interval that is different from the pumping well. Well 28Q002S is approximately 506.35 feet deep and is constructed of 3-inch diameter PVC. The depth to water on January 26, 2011 was 147.87 feet btoc.

WELL PURGING AND SAMPLING

JANUARY 26, 2011 SAMPLING EVENT

Wells 28R003S and 28Q002S were purged by URS using a 2-inch diameter Grundfos Redi-Flo2™ submersible pump that was temporarily placed in each well. Well purging logs are provided in Attachment A. The pump was set in each well at an approximate depth of 250 feet bgs. Water was discharged from the pump to the ground surface using disposable polyethylene tubing. The tubing was used once for each well and then properly disposed. Each well was purged using the low-flow purge technique at rates ranging from approximately 0.5 to 1.5 gallons per minute (gpm). Specific conductance, turbidity, temperature, dissolved oxygen and oxidation-reduction potential (ORP) were monitored using a YSI™ multi-parameter meter equipped with a flow-through cell. These parameters were monitored at 15-gallon intervals in well 28R003S until three consecutive readings were within 10 percent of one another. Parameters were monitored at approximately 5-gallon intervals in well 28Q002S until the monitored values stabilized within 10 percent of one another. Well purging logs are provided in Attachment B.

The water samples were collected from the discharge tubing and placed into laboratory-supplied containers with the required preservatives in accordance with U.S. EPA Guidance SW-846 and/or Standard Methods. The containers were sealed, placed in an insulated cooler with ice, and transported under chain-of-custody (COC) procedures to Calscience Environmental Laboratories, Inc. (Calscience), a state-certified laboratory located in Garden Grove, California for analyses. The ice chest temperature was recorded at 2.8˚C upon receipt by the laboratory. COC records were maintained throughout the sampling program. Copies of the COCs are provided in Attachment C.

A relatively small volume of water was purged from each well to limit the volume of water discharged to the ground surface. Approximately 105 gallons were purged from well 28R003S and

33 gallons were removed from well 28Q002S. There was little or no drawdown resulting from purging observed in well 28R003S as would be expected for the test well based on aquifer testing in 1976. There was 45 feet of drawdown in well 28Q002S during purging at 0.5 to 1.5 gpm.

The pump was decontaminated before use and between wells using an Alconox detergent solution followed by twice rinsing with distilled water. Water generated during sampling and washing the pump was discharged on the ground surface following the completion of sampling.

MAY 11, 2011 SAMPLING EVENT

On May 11, 2011, URS purged well 28R003S using a 4-inch diameter Pentek™ Three Phase 5HP submersible pump. URS' subcontractor BC^2 installed the pump temporarily in the well at approximately 300 feet bgs. Water was discharged from the pump to the ground surface using a 2-inch polyvinyl chloride (PVC) pipe, a 4-inch PVC hose, and an irrigation sprinkler (to disperse the water). The well was purged at rates ranging from approximately 52 to 60 gpm. Specific conductance, pH, turbidity, temperature, dissolved oxygen and oxidation-reduction potential (ORP) were monitored using a YSI™ multi-parameter meter equipped with a flow-through cell. These parameters were monitored at approximately 260 to 300-gallon intervals until three consecutive readings were within approximately 10 percent of one another. Well purging logs are provided in Attachment B.

The water samples were collected from the discharge tubing and placed into laboratory-supplied containers with the required preservatives in accordance with U.S. EPA Guidance SW-846 and/or Standard Methods. The containers were sealed, placed in an insulated cooler with ice, and transported under COC procedures to Calscience for analyses. The ice chest temperature was recorded at 3.6 ℃ upon receipt by the laboratory. COC records were maintained throughout the sampling program. Copies of the COCs are provided in Attachment C.

Approximately 6,000 gallons of water was purged from the well and discharged to the ground surface. There was approximately 2 feet of drawdown observed at the start of pumping, but there was no drawdown during the remaining purge time as would be expected for the test well based on aquifer testing in 1976. As part of the sampling event, water levels were monitored in the pumping well (28R003S), and three monitoring wells (28Q001S, 28R001S, and 28R002S) during the purging and recovery phases using a data logger and pressure transducers. The recovery period lasted until water levels had recovered to at least 95 percent of the pre-pumping water column height. The wells all show an immediate response to pumping, which indicates a wide range of pumping influence. Drawdown curves for the pumping and monitoring wells are shown on the figure provided in Attachment D.

LABORATORY ANALYSES

The analyses were conducted on a standard turnaround (5- and 10-day) for the samples collected during the January 26, 2011 sampling event. The analyses were conducted by Calscience with the exception of those for silica speciation. Total, dissolved and colloidal (reactive) silica were analyzed by McWilliams Analytical, Inc., a California-accredited laboratory located in Pittsburg, California. The following analyses were conducted for both sampling events using U.S. EPA methods and/or Standard Methods within the U.S. EPA-recommended holding times:

- Anions (sulfate, chloride, nitrate, orthophosphate and fluoride)
- Dissolved and total metals (base cations, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, zinc, iron, manganese and aluminum
- Total, dissolved and colloidal (reactive) silica
- Turbidity
- Alkalinity (Total, Bicarbonate and Hydroxide)
- Specific conductance
- TDS
- Total Suspended Solids (TSS)
- pH
- Total phosphorous
- Carbon dioxide
- Volatile organic compounds (VOCs)
- Semivolatile organic compounds (SVOCs)
- Organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs)
- Cyanide

At the request of BrightSource, the sample collected well 28R003S on May 11, 2011 was additionally analyzed for total organic carbon (TOC).

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the groundwater samples collected on January 27, 2011 and analyzed from the two on-site wells are provided in Table 1. Analytical results for the sample

collected from the pumping well on May 11, 2011 are also included in Table 1. For comparative purposes, the average water quality data from five sampling events during the aquifer testing conducted in 1976 are also included in the table. Copies of the laboratory report and COC forms are provided in Attachment C. A brief discussion of the results is provided below.

Title 22 Metals: Dissolved metals concentrations are reported in Table 1. Total metals results are included in the laboratory analytical report. Of the 17 Title 22 metals, seven were detected in the pumping well 28R003S and nine were detected in well 28Q002S in January 2011. The metals detected in both wells included barium, chromium, copper, molybdenum, nickel, and zinc. Groundwater analyzed from well 28R003S also contained detectable concentrations of arsenic and groundwater analyzed from well 28R002S also contained cobalt and selenium. Some of the concentrations detected were above the method detection limit and below the reporting limit and therefore, the concentrations are estimated (J flagged). None of the detected metals were present above their respective primary or secondary maximum contaminant level (MCL) for drinking water. The same metals were detected in the water sample from the pumping well for both sampling events. Concentrations of the detected metals during both sampling events were similar. The concentration of arsenic detected during the May 11, 2011 sampling event was slightly above the primary MCL of 0.01 mg/l for this metal. No results were reported for these metals in 1976 (Stone & Webster 1976).

Other Metals: For the January 2011 sampling event, aluminum was not detected in the groundwater samples either both of the wells. Iron was detected in the pumping well (well 28R003S) at a concentration of 0.321 mg/l, slightly above the secondary MCL of 0.3 mg/l. The concentration of iron detected in well 28Q002S was 0.0618 mg/l. It is possible that the concentration of iron present in the pumping well may be attributed to the steel casing, since the other well is not constructed of steel and the iron concentration is considerably less. Manganese was detected in well 28R003S and 28Q002S at concentrations of 0.00782 and 0.00991 mg/l, respectively. For the May 2011 sampling event the concentrations of these metals were similar to the January 2011 event. In 1976, the iron concentrations in the pumping well was reported to be approximately 0.08 mg/l, which is less than that detected during both sampling events conducted in 2011. The presence of higher concentrations of iron in 2011 may reflect the condition of the steel well casing, since the well was new in 1976 and was not likely to have undergone significant degradation.

Base Cations and Anions: For the January 2011 sampling event, dissolved concentrations of calcium, magnesium, sodium, and potassium in the pumping well (well 28R003S) were 18.3, 2.27, 511 and 5.02 mg/l, respectively. Dissolved concentrations of calcium, magnesium, sodium and potassium in well 28Q002S during this event were 89.8, 19.1, 363 and 5.28 mg/l, respectively. Total concentrations are provided in the laboratory analytical report. The concentrations of calcium, magnesium, sodium, and potassium in the pumping well (well 28R003S) during the May 2011 sampling event were 36.2, 3.70, 615 and 6.81 mg/l, respectively.

During the January sampling event, fluoride was detected at a concentration of 4.2 mg/l in the pumping well (well 28R003S), and at a concentration of 0.41 mg/l in well 28Q002S. The concentration of fluoride in well 28R003S is above the primary MCL of 2.0 mg/l. Chloride was present in both wells 28R003S and 28Q002S, at concentrations of 740 and 470 mg/l, respectively. The concentrations detected in both wells are above the secondary MCL of 250 mg/l. Nitrate was detected at a concentration of 0.070 mg/l in well 28Q002S, which is below the primary MCL of 10 mg/l. Sulfate was detected in both wells 28R003S and 28Q002S at concentrations of 390 and 410 mg/l, respectively. The concentrations detected in both wells are above the secondary MCL of 250 mg/l. Total alkalinity and bicarbonate (as $CaCO_3$) were detected in both well 28R003S and 28Q002S at concentrations of 74 and 124 mg/l, respectively. Fluoride was present in the groundwater sample from the pumping well during the May 2011 event at the same concentration as the sample collected and analyzed during the January event (4.2 mg/l). Chloride, sulfate and bicarbonate concentrations were similar for both events. Although nitrate was not detected in groundwater from the pumping well during the January 2011 event, it was detected during the May 2011 event; however, the detection limit was lower for the May event which is responsible for the detection. The concentration detected is not above the primary MCL for nitrate.

In order to compare the composition of the water samples collected from the pumping well in 1976 and this year, the data were plotted on a Piper Diagram. This is a standard method to compare water quality between samples. In order to compare the water quality between samples, the electric charge of the cations and anions must be considered and not the reported concentrations. The Piper Diagram is provided in Attachment E. Based on the Piper Diagram, the composition of the groundwater for samples collected from the pumping well in 1976, January 2011 and May 2011 are very similar.

Silica: During the January 2011 sampling event, **t**otal and reactive silica concentrations detected in both well 28R003S and 28Q002S were 19.000 and 15.000 mg/l, respectively. Dissolved silica concentrations in both wells 28R003S and 28Q002S were 17.000 and 14.000 mg/l, respectively. In May 2011, the total, dissolved and reactive silica concentrations detected in the pumping well (28R003S) were approximately 36.6, 34.7 and 30 mg/l respectively. These concentrations were approximately twice those reported for the January 2011 event. The total silica concentration during the May 2011 and the 1976 sampling events were similar.

General Water Quality Parameters: During the January 2011 sampling event, **s**pecific conductance (SC), TDS, TSS and pH present in the groundwater sample from the pumping well (well 28R003S) were 2,900 umhos/cm, 1,850 mg/l, 5.4 mg/l and 8.60, respectively. SC, TDS, TSS and pH present in the groundwater sample from well 28Q002S were 2,300 umhos/cm, 1,570 mg/l, 8.9 mg/l and 7.27, respectively. SC and TDS concentrations measured in the water samples from both wells are above the secondary MCL of 900 mg/l and 500 mg/l, respectively. During the May 2011 sampling event, SC, TDS, TSS and pH in the groundwater sample were 2,600 umhos/cm, 1,840 mg/l, 5.9 mg/l and 8.12, respectively. These values were similar to those measured in the pumping well during the January 2011 event and during pump testing in 1976.

Both SC and TDS concentrations in the pumping well were above their respective secondary MCLs during each of the sampling events, including 1976.

Total phosphorus concentrations present in the groundwater samples from the pumping well during the January and May 2011 events were 0.27 and 0.12 mg/l, respectively. Carbon dioxide was not detected (<1.0 mg/l) in January 2011 and 1.5 mg/l in May 2011.

Turbidity measured in the groundwater samples from January and May 2011 events were 14 and 4.8 Nephelometric Turbidity Units (NTUs), which is a reflection on the amount of water purged during each of the sampling events. Apparently there was no turbidity present in the well when it was pump tested in 1976. The test occurred over a period of 97 hours of pumping.

Other Priority Pollutants: During the January 2011 sampling event, VOCs, OCPs, PCBs and total cyanide were not present at detectable concentrations in both of the groundwater samples from the wells. The SVOC, bis 2-ethylhexyl phthalate (BEHP) was detected at a concentration of 2.6 ug/l in well 28Q002S. BEHP is a plasticizer and could be associated with sampling equipment or the well casing. Although there is no MCL established for this compound, it is not present in this well at a concentration of concern. Similarly, no OCPs, PCBs and total cyanide were detected in the groundwater sample for the May 2011 event. No VOCs were detected during the May 2011 sampling event from the pumping well with the exception of a low concentration of toluene (1.5 ug/l). The presence of toluene is attributed to the pump. The concentration detected was slightly above the detection limit of 1.0 ug/l and is well below any established primary MCL.

CONCLUSIONS

Based on the analytical results for the groundwater sample from the two on-site wells, URS concludes the following:

- Groundwater is not suitable for use as a drinking water source without treatment based on TDS, base cation, and anion concentrations.
- Arsenic is present in the groundwater at a concentration that is slightly above the primary MCL for drinking water.
- Fluoride is present in the pumping well at a concentration that is above the primary MCL for drinking water.
- Iron is present in the pumping well at a concentration that is slightly above the secondary MCL for drinking water.
- Sulfate is present in the pumping well at a concentration that is above the secondary MCL for drinking water.

- Chloride, sulfate, SC and TDS are present in each of the groundwater samples from the wells at levels above their respective MCLs for drinking water.
- The analytical results for the January and May 2011 sampling events from the pumping well (28R003S) are very similar The Piper Diagrams prepared for base cations and anions using the analytical data for the pumping well during the January and May 2011 sampling events indicate that the composition of groundwater for both events is identical despite purging different volumes of water from the well prior to sampling.
- The analytical results for the 1976 sampling event plot in a the same general area compared to the results for the sampling events conducted in 2011. This indicates that the groundwater quality is generally of the same composition and TDS. Based on the data, the groundwater in 1976 appeared to contain slightly less chloride.
- Each of the monitoring wells showed an immediate response to purging of the pumping well, which indicates a wide range of pumping influence.

URS appreciates the opportunity to assist BrightSource with this project. If you have any questio s regarding the content of this letter report, please do not hesitate to call.

Sincerely,

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Attachments:

References	
Table 1	Groundwater Well Information and Water Level Measurements
Table 2	Groundwater Analytical Results
Figure 1	Vicinity Map
Figure 2	Groundwater Location Map
Figure 3	Groundwater Well Location Map
Figure 4	Well Survey Results

Attachment A	Figure 3-9 of the Evaporation Basin Report
Attachment B	Well Purging Logs
Attachment C	Laboratory Analytical Report and Chain-of-Custody Forms
Attachment D	Drawdown Curves
Attachment E	Piper Diagram

REFERENCES

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Table 1
Groundwater Analytical Results
BrightSource – Rio Mesa Solar

Analyte	Well #28R003S			Well #28Q002S 1/26/11	Primary/ Secondary MCL
Date Sampled	1976[a]	1/26/11	5/11/11		
Title 22 Metals:					
Antimony	NA	<0.000380	<0.000380	<0.000380	0.006
Arsenic	NA	0.00919	0.0129	<0.000589	0.01
Barium	NA	0.0184	0.0269	0.0845	1.0
Beryllium	NA	<0.000131	<0.000131	<0.000131	0.004
Cadmium	NA	<0.000266	<0.000266	<0.000266	0.005
Chromium	NA	0.00151	0.00138	0.00351	0.05
Cobalt	NA	<0.000618	<0.000140	0.00027J	NE
Copper	NA	0.00054 J	0.00121	0.0483	1.0*
Lead	NA	<0.000170	<0.000170	0.00033J	0.015
Mercury	NA	<0.0000348	<0.0000348	<0.0000348	0.002
Molybdenum	NA	0.0438	0.0589	0.0249	NE
Nickel	NA	0.00067J	0.00164	0.0117	0.1
Selenium	NA	<0.000554	0.00461	0.00173	0.05
Silver	NA	<0.000120	<0.000120	<0.000120	0.1*
Thallium	NA	<0.000498	<0.000498	<0.000498	0.002
Vanadium	NA	<0.000790	<0.000790	<0.000790	NE
Zinc	NA	0.00635	0.0101	0.350	5.0
Base Cations:					
Calcium	56	18.3	36.2	89.8	NE
Magnesium	5	2.27	3.70	19.1	NE
Sodium	580	511	615	363	NE
Potassium	11	5.02	6.81	5.28	NE
Other Metals:					
Aluminum	NA	<0.0105	<0.0105	<0.0105	0.2*
Iron	0.08	0.321	0.250	0.0618	0.3*
Manganese	NA	0.00782	0.0188	0.00991	0.05*
Anions:					
Fluoride	3.8	4.2	4.2	0.41	2.0
Chloride	604	740	730	470	250*
Nitrate (as N)	2	<0.017	0.0045	0.070J	10
Total Alkalinity (as CaCO3)	160[b]	74.0	95.0	124	NE
Sulfate	450	390	420	410	250*
o-Phosphate (as P)	NA	<0.014	<0.047	<0.014	NE
Bicarbonate (as CaCO3)	140	74.0	95.0	124	NE
Hydroxide (as CaCO3)	NA	<0.85	<0.85	<0.85	NE

Table 1
Groundwater Analytical Results
BrightSource – Rio Mesa Solar
(Continued)

Analyte	Well #28R003S			Well #28Q002S 1/26/11	Primary/ Secondary MCL
Date Sampled	1976[a]	1/26/11	5/11/11		
Silica:					
Total	32	19.000	36.6	15.000	NE
Dissolved	NA	17.000	34.7	14.000	NE
Colloidal (Reactive)	NA	19	30	15	NE
General Water Quality Parameters:					
SC (umhos/cm)	2900	2900	2600	2300	900*
TDS	1815	1850	1840	1570	500*
pH (unitless)	7.7	8.60	8.12	7.27	NE
Turbidity (NTU)	0	14	4.8	5.6	NE
TSS	5	5.4	5.9	8.9	NE
Phosphorus	NA	0.27	0.12	0.35	NE
Carbon Dioxide	NA	<1.0	1.5	12	NE
Total Organic Carbon (TOC)	NA	NA	0.12	NA	NE
Other Priority Pollutants:					
Cyanide	NA	<0.050	<0.0070	<0.050	NE
SVOCs: Bis(2-Ethylhexyl) Phthalate (ug/l)	NA	<10	ND	2.3J	NE
OCPs	NA	ND	ND	ND	NE
PCBs	NA	ND	ND	ND	NE
VOCs: Toluene (ug/l)	NA	ND	1.4	ND	NE

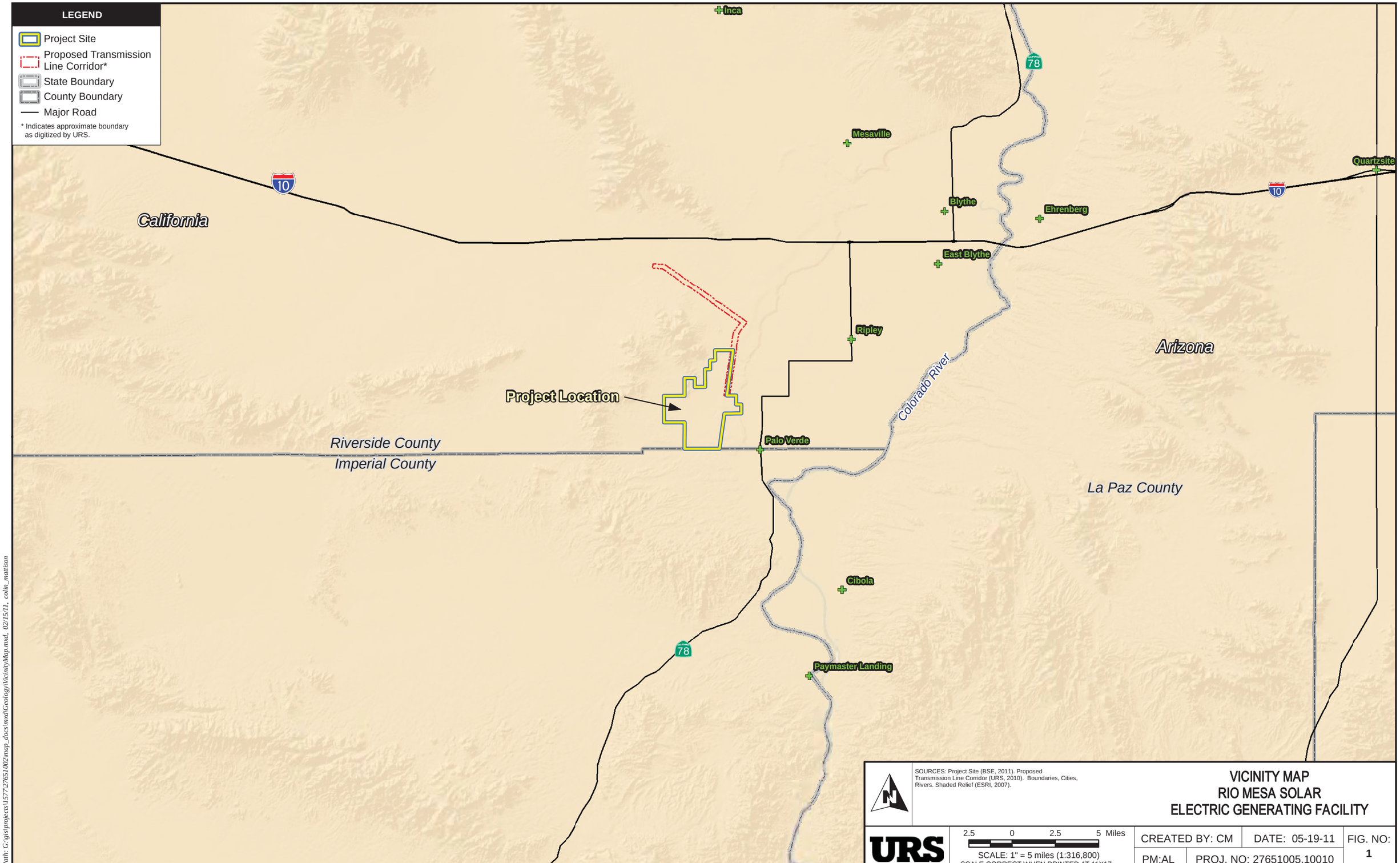
Notes:

[a] From Stone & Webster, 1976. Represents average concentrations for five samples collected during aquifer testing.
[b] Reported as total hardness (as CaCO3)
J: Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
NA: Not Analyzed
NE: None Established
ND: None detected; see lab report for detection limits for specific compounds.
SVOCs: Semivolatile organic compounds
OCPs: Organochlorine pesticides
PCBs: Polychlorinated biphenyls
VOCs: Volatile organic compounds
MCL: Maximum Containment Level.
MCL is primary, unless indicated with an asterisk (*) that indicates secondary.
BOLD indicates concentration is above MCL.
The symbol "<" (less than) indicates the constituent was not detected above the analytical detection limit specified.

Table 2
Groundwater Well Information and Water-level Measurements
BrightSource – Rio Mesa Solar

Well ID	Notes	Depth to Groundwater (btoc)	Total Depth (feet btoc)	Riser Height (inches ags)	Easting	Northing	Location ID on Figure 4
27R001S	1	DRY	36.84	15.6	7009396.19	21103178.85	7
28R001S (B-OB-2) [b]	2	145.10	350.10	--	7009386.21	2110319.95	3
28R002S [b]	2	142.66	339.20	21	7009415.58	2110068.11	4
28R003S [a]	3	144.66	345.80	--	7009309.57	2110238.30	1
28P001S [b] (Well O/BDH-42)	4	163.10	417.30	16.8	7007638.85	2110073.52	6
28Q001S (B-OB-1)	2	145.68	404.50	21	7009045.85	2110381.36	2
28Q002S (Well D/BHD-39)	4	147.87	506.35	20.25	7008606.64	2110591.79	5
33G001S (B-DH-19)	4	DRY	132.56	8	7008817.77	2107392.13	8
33J001S	5	DRY	18.28	14.25	7010313.56	2106918.94	9
34M001S	5	DRY	15.91	21	7010499.84	2106858.70	10
A	4	DRY	101.52	20.25	7008261.33	2111003.53	11
B	4	32.40	86.76	18.5	7008464.32	2111010.90	12
C (SB6-83)	4	DRY	101.46	15.5	7008668.49	2111003.58	13
E	4,5	16.18	98.30	0	7008852.36	2111005.03	14
F	4	DRY	99.60	9.5	7009098.89	2111004.13	15
G	4	DRY	100.55	22	7009300.39	2111003.81	16
H	4	145.43	490.00	23	7009183.60	2111138.48	17
I	4	DRY	100.99	28	7009097.75	2111155.33	18
J	4	100.70	100.80	15.5	7009097.91	2111618.16	19

Notes:
[a] Pumping well
[b] Observation well
1 - 8" Galvanized Steel
2 - 4" PVC with Drum Cap
3 - 12" Steel Casing
4 - 3" PVC
5 - No Cap
btoc - Below top of casing
ags - above ground surface



SOURCES: Project Site (BSE, 2011). Proposed Transmission Line Corridor (URS, 2010). Boundaries, Cities, Rivers. Shaded Relief (ESRI, 2007).

VICINITY MAP
RIO MESA SOLAR
ELECTRIC GENERATING FACILITY

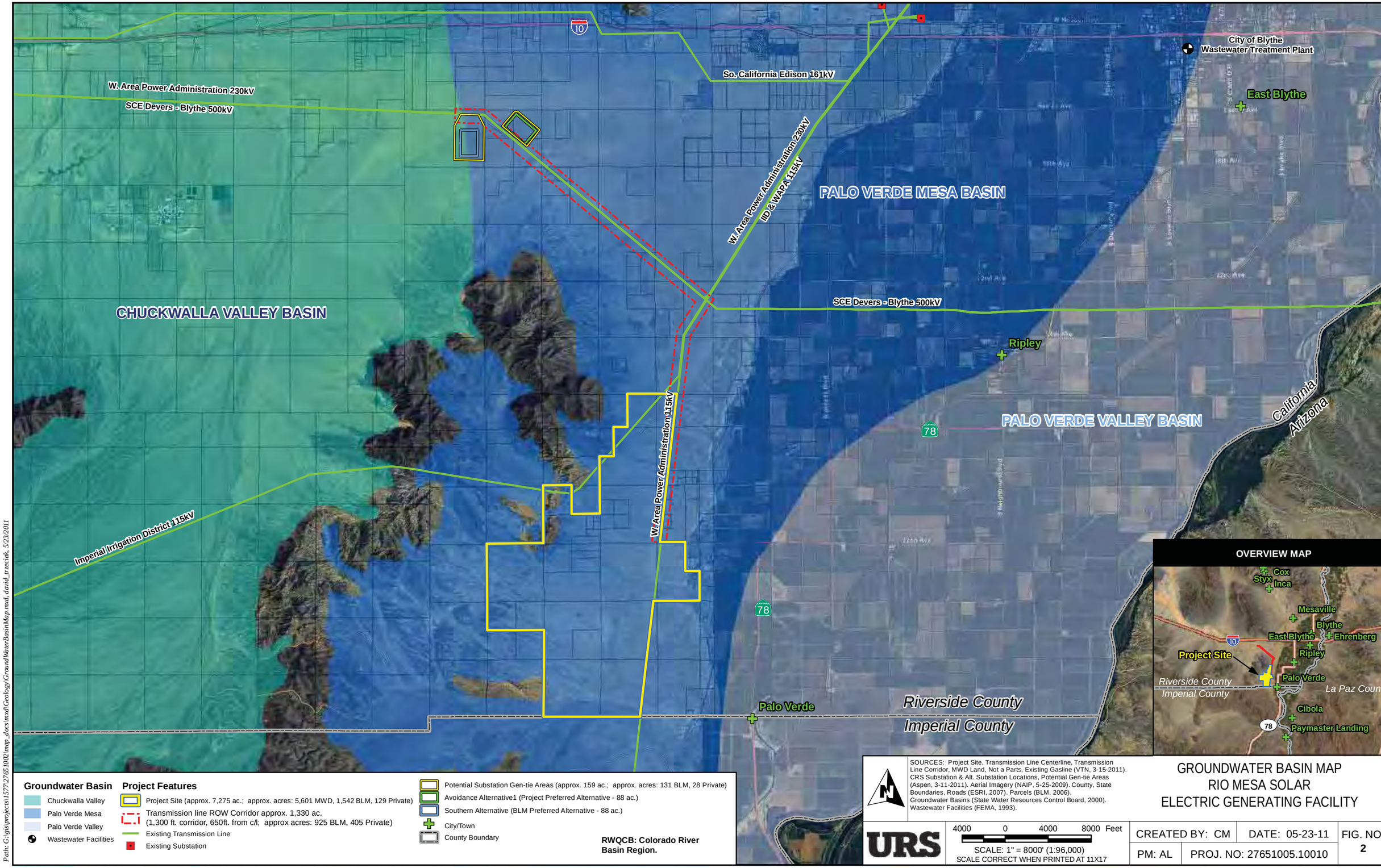
URS

2.5 0 2.5 5 Miles

SCALE: 1" = 5 miles (1:316,800)
SCALE CORRECT WHEN PRINTED AT 11X17

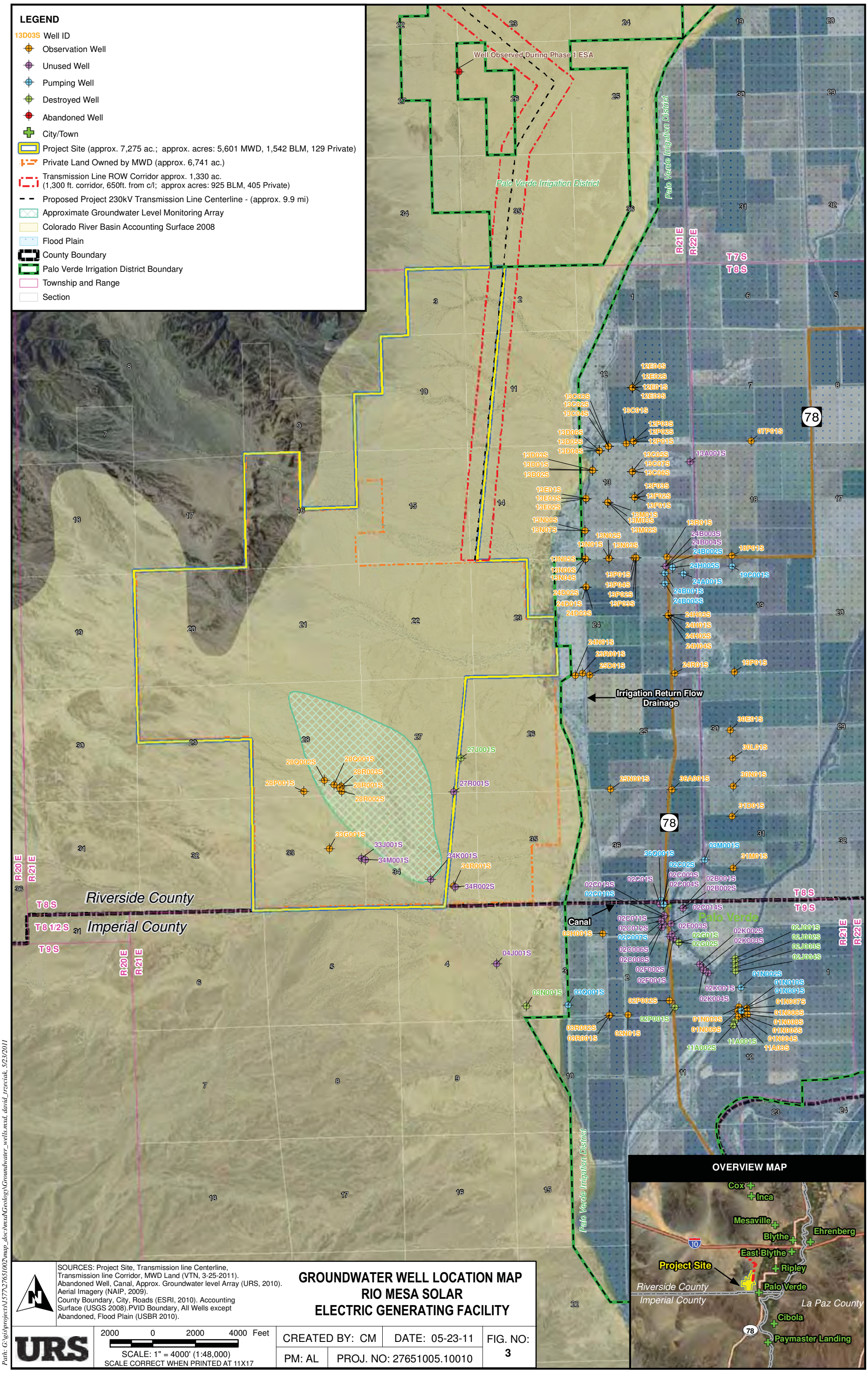
CREATED BY: CM	DATE: 05-19-11	FIG. NO:
PM:AL	PROJ. NO: 27651005.10010	1

Path: G:\gis\projects\1577\27651002\map_docs\mxd\Geology\VicinityMap.mxd, 02/15/11, colin_mattison



GROUNDWATER BASIN MAP
RIO MESA SOLAR
ELECTRIC GENERATING FACILITY

Path: G:\gis\projects\1577\2765\1002\map_docs\mxd\Geology\GroundWaterBasinMap.mxd, david_trzeciak, 5/23/2011



SOURCES: Project Site, Transmission line Centerline, Transmission line Corridor, MWD Land (VTN, 3-25-2011). Abandoned Well, Canal, Approx. Groundwater level Array (URS, 2010). Aerial Imagery (NAIP, 2009). County Boundary, City, Roads (ESRI, 2010). Accounting Surface (USGS 2008).PVID Boundary, All Wells except Abandoned, Flood Plain (USBR 2010).

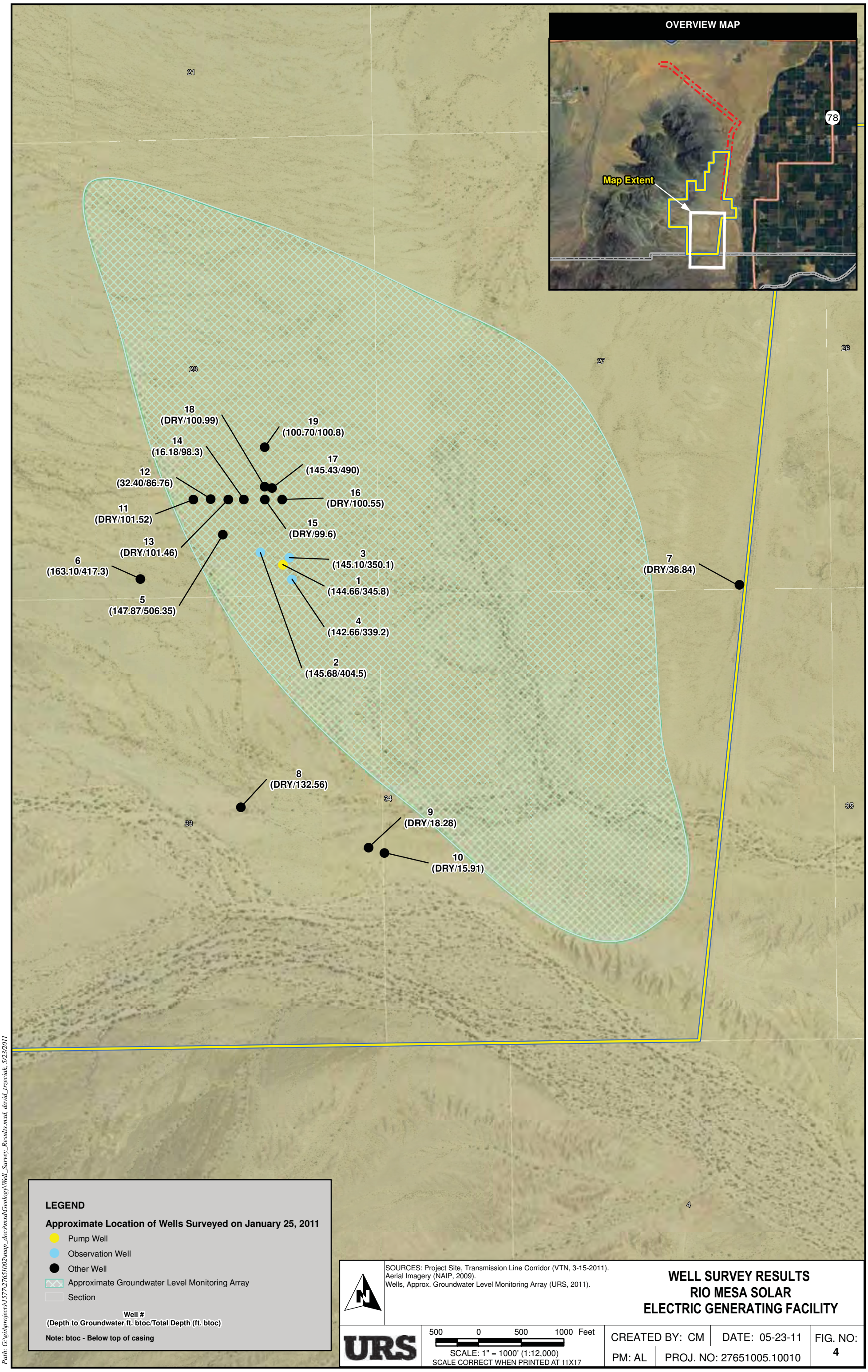
GROUNDWATER WELL LOCATION MAP
RIO MESA SOLAR
ELECTRIC GENERATING FACILITY

URS

2000 0 2000 4000 Feet
SCALE: 1" = 4000' (1:48,000)
SCALE CORRECT WHEN PRINTED AT 11X17

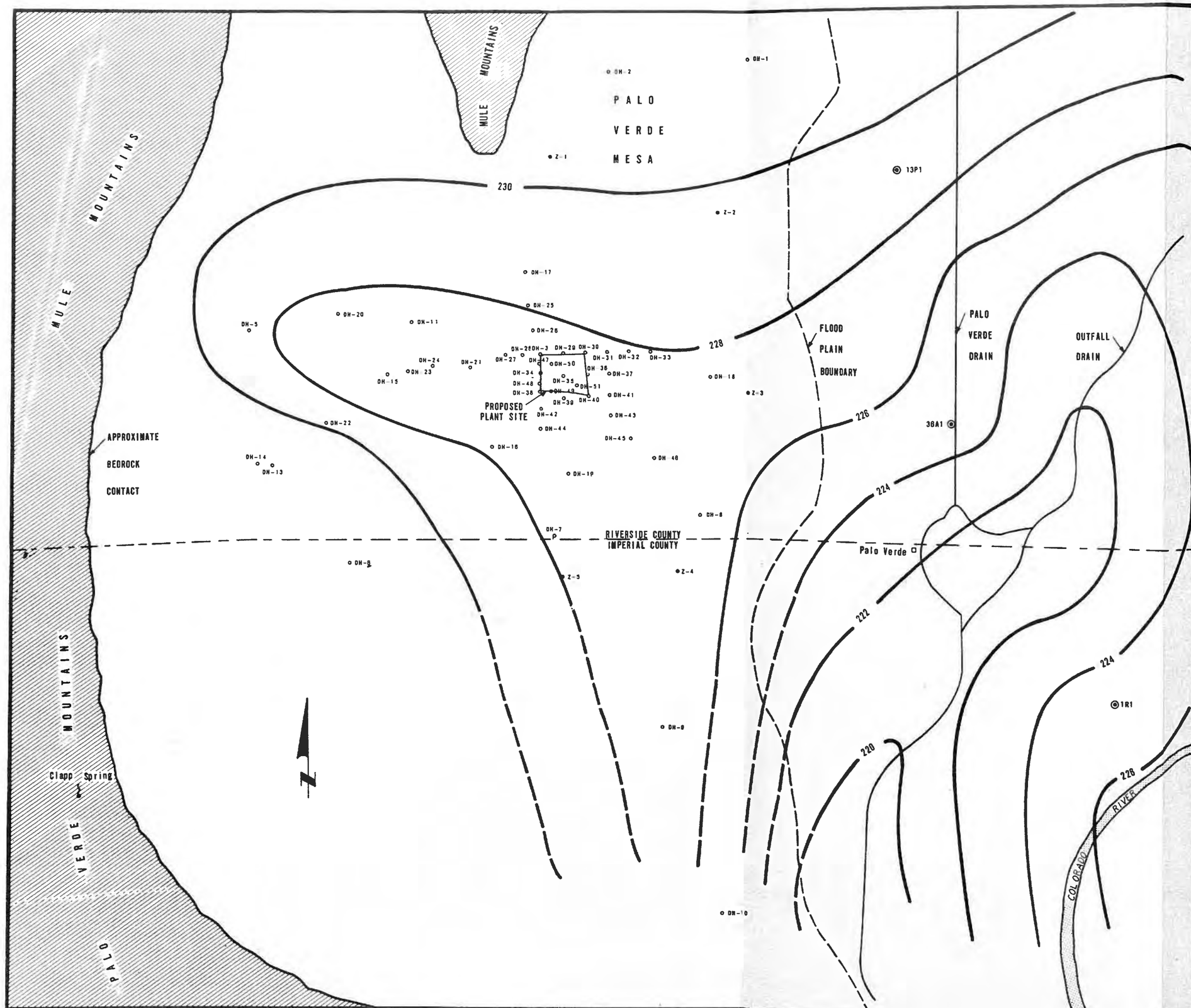
CREATED BY: CM	DATE: 05-23-11	FIG. NO: 3
PM: AL	PROJ. NO: 27651005.10010	

Path: G:\gis\projects\157\27651002\map_docs\mxd\Geology\Groundwater_wells.mxd, david_rzeciak, 5/23/2011



Path: G:\gis\projects\157\27651002\map_doc\mxd\Geology\Well_Survey_Results.mxd, david_trzeciak, 5/23/2011

Attachment A



WATER TABLE CONTOUR MAP
Blythe Siting Area

EXPLANATION

DH-NO	LAND SURFACE ELEVATION	WATER TABLE ELEVATION	DATE OF WATER LEVEL MEASUREMENT
1	341.83	230.2	1-12-75
2	421.49	320.0 *	1-12-75
3	383.22	216.9	1-07-75
5	502.31	228.3	1-06-75
6	434.45	220.2	1-12-75
7	357.18	226.0	6-25-74
8	337.41	327.4 *	1-08-75
9	358.33	241.9 *	1-12-75
10	363.96	200.0 *	1-12-75
11	434.33	228.8	1-12-75
12	425.95	228.0	1-12-75
13	461.25	234.1	2-38-75
14	455.05	310.0 *	1-12-75
15	440.85	210.8 *	2-05-75
16	366.35	227.9	1-07-75
17	398.73	228.2	1-12-75
18	319.08	227.1	12-04-74
19	359.01	227.8	2-05-75
20	463.74	362.8 *	1-12-75
21	485.87	225.0	2-05-75
22	454.92	230.5	1-09-75
23	432.15	227.7	1-12-75
24	421.79	229.4	1-12-75
25	383.78	229.6	2-05-75
26	381.43	224.8	1-08-75
27	395.40	227.7	1-09-75
28	389.10	227.5	1-09-75
29	374.70	227.4	1-08-75
30	368.30	227.4	1-03-75
31	364.12	227.1	1-09-75
32	361.66	227.8	1-08-75
33	382.18	228.0	2-05-75
34	380.87	228.0	1-09-75
35	373.80	227.4	2-05-75
36	367.67	227.3	1-09-75
37	363.16	227.3	1-09-75
38	378.76	227.0	1-09-75
39	372.61	227.7	1-08-75
40	365.58	227.3	1-08-75
41	380.04	226.8	1-09-75
42	377.94	187.1 *	1-09-75
43	358.04	227.3	1-09-75
44	376.10	220.8	1-09-75
45	348.92	226.4	1-09-75
46	332.01	226.4	1-09-75
47	382.27	227.3	1-08-75
48	368.47	227.4	1-08-75
49	378.05		
50	378.08	230.1	3-10-75
51	369.75	229.7	3-10-75

Z-NO	LAND SURFACE ELEVATION	WATER TABLE ELEVATION	DATE OF WATER LEVEL MEASUREMENT
1	424.23	233.0	2-11-75
2	328.06	228.6	2-04-75
3	320.76	228.5	2-04-75
4	310.18	227.8	2-04-75
5	431.02	228.0	2-04-75

250 — Line of equal water table elevation in feet above mean sea level. Dashed where approximate.

DH-12 — Drill hole location

Z-4 — Piezometer location

1R1 — Well hydrograph station; data shown in Figure 2.4-26

* — Well not functioning

NOTE: Flood plain data from 1974 water level contour map, Figure 2.4-21

0 3000 6000 9000
FEET

Sundesert Nuclear Plant
UNITS 1 & 2

FIGURE 3-9

WATER TABLE CONTOUR MAP

URS

Groundwater Monitoring Program
Gauging Log & Development / Sampling Log

Well Number: 28R0035	Date: 1/26/11	Project: Bright Source Energy	Project No. : 27651005.10010

Gauging Data from Top of Casing (Reference Point)

Depth to Water: 174.66'	Total Well Depth: 345.80	Water Column Height (H): 201.14'	Top of Casing Elevation:
Gauging Time: 1107	Casing diameter (D)= 12 in.	1 casing volume= $(D^2)(H)(0.0408)$= 1182 gal	3 casing volumes= 3546 gal.

Groundwater Purge Data

Purge Method: (Standard Purge) Low-Flow/Micro-Purge | Purge Equipment: RF2 + Poly Tubing | Pump Id: Primary set @ ~290' BTOC

Depth to Water (ft)	Time	Purge Rate (gpm)	Hz	Volume Removed (gallons)	pH (Units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Temp. (°C)	DO (mg/L)	ORP (mV)	Remarks
142.47	1148										Pump start
142.62	1158	1.5	380.1	15.0	8.81	3410	95.7	31.79	2.01	-220.4	Water turbid, Dark gray w/ odor
142.62	1208	1.5	380.1	30.0	8.78	3408	80.6	31.82	1.21	-272.3	
142.62	1218	1.5	380.1	45.0	8.77	3408	64.5	31.82	1.04	-259.5	
142.62	1228	1.5	380.1	60.0	8.75	3411	50.5	31.82	0.96	-297.6	
142.62	1238	1.5	380.1	75.0	8.75	3407	39.3	31.80	0.92	-303.2	Water clearing up, Light gray w/ odor
142.62	1248	1.5	380.1	90.0	8.73	3409	33.0	31.82	0.90	-302.7	
142.62	1258	1.5	380.1	105.0	8.73	3409	25.1	31.83	0.89	-307.6	
	1305										Sampled
											Gallons = ml's/3781
											Sample Rate:
											Total Casing Volumes Removed:
											Total Gallons Removed:

Sample ID.(time): 28R0035 (1305) Dup ID.: _____ ( ) Rinsate ID.: _____ ( )

Analytical Methods: (See COC) Sampler: SP/MG

7008606.17E
2110590.24N

URS

Groundwater Monitoring Program
Gauging Log & Development / Sampling Log

Well Number: 28Q0025	Date: 1/26/11	Project: Bright Source Energy	Project No. : 27651005.10010

Gauging Data from Top of Casing (Reference Point)

Depth to Water: 147.87'	Total Well Depth: 506.35'	Water Column Height (H): 358.48'	Top of Casing Elevation:
Gauging Time: 1322	Casing diameter (D)=3 in.	1 casing volume= $(D^2)(H)(0.0408)$= 132 gal	3 casing volumes= 396 gal.

Groundwater Purge Data

Purge Method: Standard Purge Low-Flow/Micro-Purge

Purge Equipment: RFQ + Poly Tubing

Pump Id: Primary set @ 425' BFL (Bfld 35)

Depth to Water (ft)	Time	Purge Rate (gpm)	Hz	Volume Removed (gallons)	pH (Units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Temp. (°C)	DO (mg/L)	ORP (mV)	Remarks
146.97	1351										Pump start
160.84	1356	1.5	387.3	7.5	7.10	2685	4.7	32.12	1.46	-50.9	Water clear, no odor
175.70	1402	1.5	387.3	16.5	7.06	2688	5.0	32.43	1.42	-33.7	
183.08	1407	1.0	363.6	21.5	7.05	2689	5.3	32.85	1.43	-23.6	
188.18	1412	1.0	363.6	26.5	7.05	2690	6.7	33.05	1.44	-15.7	
194.84	1417	1.0	363.6	31.5	7.05	2471	8.0	33.41	1.47	-18.2	
199.57	1424	0.5	353.1	33.0	7.05	2697	8.9	34.06	1.45	-16.5	
	1430										Sampled

Gallons = ml's/3781

Sample Rate:

Total Casing Volumes Removed:

Total Gallons Removed:

Sample ID.(time): 28Q0025 (1430) Dup ID.: _____ ( ) Rinsate ID.: _____ ( )

Analytical Methods: (See COC)

Sampler: SP, MG

URS

Groundwater Monitoring Program
Gauging Log & Development / Sampling Log

①

Well Number: 28R0035	Date: 5/11/14	Project: Bright Source Energy	Project No. : 27651005.10010

Depth to Water: ~~142.72'~~ 142.67'	Total Well Depth: 345.80'	Water Column Height (H): 203.13'	Top of Casing Elevation:

Gauging Time: 1215	Casing diameter (D)= 12 in.	1 casing volume= $(D^2)(H)(0.0408)$= 1,193.4 gal	3 casing volumes= 5967 gal.

Purge Method: (Standard Purge) Low-Flow/Micro-Purge | Purge Equipment: 4" Pump + 2" Piping | Pump Id: Pentek 3 Phase 5HP set @ ~295'

Depth to Water (ft)	Time	Purge Rate (gpm)	Hz	Volume Removed (gallons)	pH (Units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Temp. (°C)	DO (mg/L)	ORP (mV)	Remarks
142.72	1337										Pump not working
142.67	1700										
	1707										Pump start.
144.71	1712	60	—	300	8.53	3120	150.6	31.15	0.09	~~-102.3~~ SP -280.9	water turbid, Dark gray w/ odor
144.71	1717	55	—	575	8.53	3116	148.9	31.24	0.08	-308.4	
144.71	1722	55	—	850	8.42	3125	109.8	31.31	0.07	-305.0	
144.71	1727	55	—	1125	8.34	3124	147.3	31.36	0.07	-300.7	
144.69	1732	55	—	1400	8.32	3116	106.3	31.35	0.07	-299.7	
144.69	1737	52	—	1660	8.30	3114	71.2	31.36	0.06	-298.0	water clearing up, Light gray
144.69	1742	52	—	1920	8.28	3112	46.0	31.36	0.06	-296.2	
144.70	1747	52	—	2180	8.28	3110	38.7	31.37	0.06	-296.1	
144.70	1752	52	—	2440	8.27	3112	35.0	31.37	0.06	-295.1	water clear
144.70	1757	52	—	2700	8.26	3112	33.9	31.37	0.06	-293.8	
144.69	1802	52	—	2960	8.26	3110	27.3	31.36	0.06	-292.4	
	1807	continue next page									

Gallons = ml's/3781

Sample Rate:

Total Casing Volumes Removed: >5

Total Gallons Removed: 6080

Sample ID.(time): 28R0035 (1808) Dup ID.: _____ ( ) Rinsate ID.: _____ ( )

Analytical Methods: (See COC) Sampler: SP

URS

Groundwater Monitoring Program
Gauging Log & Development / Sampling Log

②

Well Number: 28R0035	Date: 5/11/14	Project: Bright Source Energy	Project No. : 27651005.10010

Depth to Water: 142.67'	Total Well Depth: 345.80'	Water Column Height (H): 203.13'	Top of Casing Elevation:

Gauging Time: 1215	Casing diameter (D)=12 in.	1 casing volume= $(D^2)(H)(0.0408)$= 1,193.4 gal	3 casing volumes= 5967 gal.

Purge Method: (Standard Purge) Low-Flow/Micro-Purge | Purge Equipment: 4" Pump + 2" Piping | Pump Id: Pentek 3 phase 5 HP. set @ ~ 295'

Depth to Water (ft)	Time	Purge Rate (gpm)	Hz	Volume Removed (gallons)	pH (Units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Temp. (°C)	DO (mg/L)	ORP (mV)	Remarks
144.69	1807	52	—	3220	8.26	3111	29.3	31.38	0.06	-291.5	Water clear.
144.69	1812	52	—	3480	8.25	3110	22.7	31.37	0.06	-287.0	
144.69	1817	52	—	3740	8.26	3109	19.4	31.37	0.06	-288.4	
144.69	1822	52	—	4000	8.25	3109	19.4	31.36	0.06	-286.9	
144.69	1827	52	—	4260	8.25	3107	15.8	31.36	0.06	-285.7	
144.69	1832	52	—	4520	8.24	3109	14.1	31.37	0.06	-283.2	
144.69	1837	52	—	4780	8.24	3112	12.5	31.37	0.06	-281.9	
144.69	1842	52	—	5040	8.23	3109	10.8	31.37	0.06	-279.2	
144.69	1847	52	—	5300	8.23	3112	10.6	31.37	0.06	-277.4	
144.69	1852	52	—	5560	8.23	3106	10.2	31.35	0.06	-276.0	
144.69	1857	52	—	5820	8.23	3109	8.9	31.35	0.06	-275.3	
144.69	1902	52	—	6080	8.23	3110	8.9	31.35	0.06	-273.0	
	1908										Sampled
144.11	0724			RECOVERY							
143.45	0725				↓	↓					
142.85	0725	30									

Gallons = ml's/3781

Sample Rate:

Total Casing Volumes Removed: >5

Total Gallons Removed: 6080

Sample ID.(time): 28R0035 (1908) Dup ID.: _____ ( ) Rinsate ID.: _____ ( )

Analytical Methods: (See coc)

Sampler: SP

(3)

URS

Groundwater Monitoring Program
Gauging Log & Development / Sampling Log

Well Number: 28R0035	Date: 5/11/11	Project: Bright Source Energy	Project No. : 27651005.10010

Depth to Water: 142.67'	Total Well Depth: 345.80	Water Column Height (H): 203.13'	Top of Casing Elevation:

Gauging Time: 1215	Casing diameter (D)=12 in.	1 casing volume= $(D^2)(H)(0.0408)$= 1,119.4 gal	3 casing volumes= 5967 gal.

Purge Method: (Standard Purge) Low-Flow/Micro-Purge	Purge Equipment: 4" Pump + 2" Piping	Pump Id: Redek 3 phase 5HP

Depth to Water (ft)	Time	Purge Rate (gpm)	Hz	Volume Removed (gallons)	pH (Units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Temp. (°C)	DO (mg/L)	ORP (mV)	Remarks
142.19	0726				RECOVERY						
142.76	0726	30									
142.74	0727										
142.74	0727	30									
142.73	0728										
142.72	0728	43									
142.71	0729	50									
142.70	0732	15									
142.69	0738	42									
											Gallons = ml's/3781
											Sample Rate:
											Total Casing Volumes Removed: >5
											Total Gallons Removed: 6080

Sample ID.(time): 28R0035 (1908) Dup ID.: _____ ( ) Rinsate ID.: _____ ( )

Analytical Methods: (See COC) Sampler: SP

FIELD REPORT

PROJECT NO. 27651005 10010

DATE OF WORK 1/26/11

REPORT NO.

PROJECT Bright Source Energy Well Gauging & Sampling PAGE 1 OF 1

0430 - Packed up truck. Departed house
0730 - Arrived @ Wheelie's 76 station @ corner of Palo Verde Rd & 78.
0830 - Rig stuck in sand. Navigating GPS to find wells.
1000 - Finding the wells / gauging / GPS.
1100 - Located 28R0035. Set up to monitor GW
1305 - Sampled 28R0035. Next well 28R0025
1430 - Sampled 28R0025. Break down / cleanup
1530 - Locating other wells w/ Joe & Medel. A lot of wells in the area
1600 - Contacted Bob Scott who said not to gauge all wells. Double back to pervious wells to make sure they are marked & GPS.
1730 - Meet back @ Wheelie's 76 station. Unload equipment / coolers.
1800 - Arrived @ Dennys.
1930 - Departed Dennys
2030 - Arrived @ house.

THIS FIELD REPORT ONLY PROVIDES THE RESULTS OF OBSERVATION AND TESTS BY URS CORPORATION PERSONNEL. THIS REPORT SHOULD NO BE CONSTRUED AS SUPERVISION, DIRECTION, OR A RECOMMENDATION.

TIME

CC

CC

CC

BY: Stavro Pilafas

RECEIVED DATE

URS
2020 EAST FIRST STREET, SUITE 400
SANTA ANA, CALIFORNIA 92705
(714) 835-6886
FAX (714) 667-7147

Calscience Environmental Laboratories, Inc.

February 10, 2011

Robert Scott
URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Subject: **Calscience Work Order No.: 11-01-1686**
Client Reference: BSE / Blythe Palo Verde Mesa / 27651005.10010

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/27/2011 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Vikas Patel

Calscience Environmental
Laboratories, Inc.
Vikas Patel
Project Manager

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Subcontractor Analysis Report

Work Order # 11-01-1686

Case Narrative

One or more samples in this Work Order have tests that were subcontracted. The subcontract report is included in whole at the end of the final report issued by Calscience Environmental Laboratories.

For subcontracted tests, please reference the laboratory information noted below.

1 McCampbell Analytical, Inc. - Pittsburg,CA ELAP CA # 1644

Reactive Silica

Dissolved Silica

Total Silica

Calscience Environmental Laboratories, Inc.

Client:	URS Corporation 2020 East 1st Street, Suite 400 Santa Ana, CA 92705-4032	Work Order:	11-01-1686
		Project name:	BSE / Blythe Palo Verde Mesa / 27651005.1(
		Received:	01/27/11 11:30
Attn:	Robert Scott		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
28R003S						
Arsenic	**0.0102**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Barium	**0.0211**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Chromium	**0.00459**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Copper	**0.000825**	J	0.000105*	mg/L	EPA 6020	EPA 3020A Total
Molybdenum	**0.0480**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Nickel	**0.00355**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Zinc	**0.0142**		0.00500	mg/L	EPA 6020	EPA 3020A Total
Calcium	**18.1**		0.100	mg/L	EPA 6020	EPA 3020A Total
Iron	**1.69**		0.0500	mg/L	EPA 6020	EPA 3020A Total
Magnesium	**2.28**		0.100	mg/L	EPA 6020	EPA 3020A Total
Manganese	**0.0114**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Potassium	**5.08**		0.100	mg/L	EPA 6020	EPA 3020A Total
Sodium	**515**		0.100	mg/L	EPA 6020	EPA 3020A Total
Arsenic	**0.00919**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Barium	**0.0184**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Chromium	**0.00151**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Copper	**0.000549**	J	0.000105*	mg/L	EPA 6020	EPA 3005A Filt.
Molybdenum	**0.0438**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Nickel	**0.000676**	J	0.000155*	mg/L	EPA 6020	EPA 3005A Filt.
Zinc	**0.00635**		0.00500	mg/L	EPA 6020	EPA 3005A Filt.
Calcium	**18.3**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Iron	**0.321**		0.0500	mg/L	EPA 6020	EPA 3005A Filt.
Magnesium	**2.27**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Manganese	**0.00782**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Potassium	**5.02**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Sodium	**511**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Specific Conductance	**2900**		10	umhos/cm	SM 2510 B	N/A
Phosphorus, Total	**0.27**		0.10	mg/L	SM 4500 P B/E	N/A
Turbidity	**14**		1.0	NTU	SM 2130 B	N/A
Alkalinity, Total (as CaCO3)	**74.0**		1.00	mg/L	SM 2320B	N/A
Bicarbonate (as CaCO3)	**74.0**		1.00	mg/L	SM 2320B	N/A
Fluoride	**4.2**		0.10	mg/L	EPA 300.0	N/A
Chloride	**740**		10	mg/L	EPA 300.0	N/A
Sulfate	**390**		10	mg/L	EPA 300.0	N/A
pH	**8.60**		0.01	pH units	SM 4500 H+ B	N/A
Solids, Total Suspended	**5.4**		1.0	mg/L	SM 2540 D	N/A
Solids, Total Dissolved	**1850**		10.0	mg/L	SM 2540 C	N/A

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	URS Corporation 2020 East 1st Street, Suite 400 Santa Ana, CA 92705-4032	Work Order:	11-01-1686
		Project name:	BSE / Blythe Palo Verde Mesa / 27651005.1(
		Received:	01/27/11 11:30
Attn:	Robert Scott		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
28Q002S						
Arsenic	**0.00114**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Barium	**0.0915**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Chromium	**0.0451**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Cobalt	**0.000667**	J	0.000140*	mg/L	EPA 6020	EPA 3020A Total
Copper	**0.0881**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Lead	**0.0157**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Molybdenum	**0.0298**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Nickel	**0.0423**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Selenium	**0.00162**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Zinc	**0.383**		0.00500	mg/L	EPA 6020	EPA 3020A Total
Aluminum	**0.121**		0.0500	mg/L	EPA 6020	EPA 3020A Total
Calcium	**90.6**		0.100	mg/L	EPA 6020	EPA 3020A Total
Iron	**0.550**		0.0500	mg/L	EPA 6020	EPA 3020A Total
Magnesium	**20.0**		0.100	mg/L	EPA 6020	EPA 3020A Total
Manganese	**0.0331**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Potassium	**5.52**		0.100	mg/L	EPA 6020	EPA 3020A Total
Sodium	**373**		0.100	mg/L	EPA 6020	EPA 3020A Total
Barium	**0.0845**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Chromium	**0.00351**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Cobalt	**0.000277**	J	0.000140*	mg/L	EPA 6020	EPA 3005A Filt.
Copper	**0.0483**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Lead	**0.000332**	J	0.000170*	mg/L	EPA 6020	EPA 3005A Filt.
Molybdenum	**0.0249**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Nickel	**0.0117**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Selenium	**0.00173**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Zinc	**0.350**		0.00500	mg/L	EPA 6020	EPA 3005A Filt.
Calcium	**89.8**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Iron	**0.0618**		0.0500	mg/L	EPA 6020	EPA 3005A Filt.
Magnesium	**19.1**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Manganese	**0.00991**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Potassium	**5.28**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Sodium	**363**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Specific Conductance	**2300**		10	umhos/cm	SM 2510 B	N/A
Phosphorus, Total	**0.35**		0.10	mg/L	SM 4500 P B/E	N/A
Turbidity	**5.6**		0.10	NTU	SM 2130 B	N/A
Carbon Dioxide	**12**		1.0	mg/L	SM4500-CO2D	N/A
Alkalinity, Total (as CaCO3)	**124**		5.00	mg/L	SM 2320B	N/A
Bicarbonate (as CaCO3)	**124**		5.00	mg/L	SM 2320B	N/A
Fluoride	**0.41**		0.10	mg/L	EPA 300.0	N/A
Chloride	**470**		10	mg/L	EPA 300.0	N/A

Calscience Environmental Laboratories, Inc.

Client:	URS Corporation 2020 East 1st Street, Suite 400 Santa Ana, CA 92705-4032	Work Order:	11-01-1686
		Project name:	BSE / Blythe Palo Verde Mesa / 27651005.1(
		Received:	01/27/11 11:30
Attn:	Robert Scott		

DETECTIONS SUMMARY

Client Sample ID Analyte	**Result**	Qualifiers	Reporting Limit	Units	Method	Extraction
28Q002S						
Nitrate (as N)	**0.070**	J	0.017*	mg/L	EPA 300.0	N/A
Sulfate	**410**		10	mg/L	EPA 300.0	N/A
pH	**7.27**		0.01	pH units	SM 4500 H+ B	N/A
Solids, Total Suspended	**8.9**		1.0	mg/L	SM 2540 D	N/A
Solids, Total Dissolved	**1570**		10.0	mg/L	SM 2540 C	N/A
Bis(2-Ethylhexyl) Phthalate	**2.3**	J	1.0*	ug/L	EPA 8270C	EPA 3510C

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-01-1686-1-O**	**01/26/11 13:05**	**Aqueous**	**GC/MS CCC**	**01/28/11**	**02/02/11 14:17**	**110128L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	10	1.1	1		4-Nitrophenol	ND	10	0.86	1	
Aniline	ND	10	1.2	1		Dibenzofuran	ND	10	1.4	1	
Phenol	ND	10	1.2	1		2,4-Dinitrotoluene	ND	10	1.0	1	
Bis(2-Chloroethyl) Ether	ND	25	1.0	1		2,6-Dinitrotoluene	ND	10	1.1	1	
2-Chlorophenol	ND	10	1.0	1		Diethyl Phthalate	ND	10	1.4	1	
1,3-Dichlorobenzene	ND	10	1.2	1		4-Chlorophenyl-Phenyl Ether	ND	10	1.2	1	
1,4-Dichlorobenzene	ND	10	1.1	1		Fluorene	ND	10	1.4	1	
Benzyl Alcohol	ND	10	1.0	1		4-Nitroaniline	ND	10	2.4	1	
1,2-Dichlorobenzene	ND	10	1.1	1		Azobenzene	ND	10	1.7	1	
2-Methylphenol	ND	10	1.1	1		4,6-Dinitro-2-Methylphenol	ND	50	3.4	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1.5	1		N-Nitrosodiphenylamine	ND	10	1.4	1	
3/4-Methylphenol	ND	10	1.0	1		4-Bromophenyl-Phenyl Ether	ND	10	1.2	1	
N-Nitroso-di-n-propylamine	ND	10	1.3	1		Hexachlorobenzene	ND	10	1.2	1	
Hexachloroethane	ND	10	0.98	1		Pentachlorophenol	ND	10	0.75	1	
Nitrobenzene	ND	25	1.3	1		Phenanthrene	ND	10	1.5	1	
Isophorone	ND	10	1.2	1		Anthracene	ND	10	1.5	1	
2-Nitrophenol	ND	10	1.2	1		Di-n-Butyl Phthalate	ND	10	1.5	1	
2,4-Dimethylphenol	ND	10	1.2	1		Fluoranthene	ND	10	1.5	1	
Benzoic Acid	ND	50	0.43	1		Benzidine	ND	50	0.62	1	
Bis(2-Chloroethoxy) Methane	ND	10	1.2	1		Pyrene	ND	10	1.4	1	
2,4-Dichlorophenol	ND	10	1.1	1		Pyridine	ND	10	1.4	1	
Naphthalene	ND	10	1.4	1		Butyl Benzyl Phthalate	ND	10	1.0	1	
4-Chloroaniline	ND	10	1.3	1		3,3'-Dichlorobenzidine	ND	25	1.3	1	
Hexachloro-1,3-Butadiene	ND	10	1.2	1		Benzo (a) Anthracene	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	10	1.2	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1.0	1	
2-Methylnaphthalene	ND	10	1.2	1		Chrysene	ND	10	1.3	1	
Hexachlorocyclopentadiene	ND	25	0.44	1		Di-n-Octyl Phthalate	ND	10	1.0	1	
2,4,6-Trichlorophenol	ND	10	1.2	1		Benzo (k) Fluoranthene	ND	10	1.7	1	
2,4,5-Trichlorophenol	ND	10	0.97	1		Benzo (b) Fluoranthene	ND	10	1.2	1	
2-Chloronaphthalene	ND	10	1.3	1		Benzo (a) Pyrene	ND	10	0.88	1	
2-Nitroaniline	ND	10	1.0	1		Benzo (g,h,i) Perylene	ND	10	0.71	1	
Dimethyl Phthalate	ND	10	1.3	1		Indeno (1,2,3-c,d) Pyrene	ND	10	0.83	1	
Acenaphthylene	ND	10	1.4	1		Dibenz (a,h) Anthracene	ND	10	0.82	1	
3-Nitroaniline	ND	10	1.2	1		1-Methylnaphthalene	ND	10	1.4	1	
Acenaphthene	ND	10	1.4	1		1,2,4-Trichlorobenzene	ND	10	1.3	1	
2,4-Dinitrophenol	ND	50	2.6	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	67	7-121		Phenol-d6	42	1-127	
Nitrobenzene-d5	96	50-146		2-Fluorobiphenyl	72	42-138	
2,4,6-Tribromophenol	76	41-137		p-Terphenyl-d14	91	47-173	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28Q002S	**11-01-1686-2-O**	**01/26/11 14:30**	**Aqueous**	**GC/MS CCC**	**01/28/11**	**02/02/11 14:42**	**110128L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	10	1.1	1		4-Nitrophenol	ND	10	0.86	1	
Aniline	ND	10	1.2	1		Dibenzofuran	ND	10	1.4	1	
Phenol	ND	10	1.2	1		2,4-Dinitrotoluene	ND	10	1.0	1	
Bis(2-Chloroethyl) Ether	ND	25	1.0	1		2,6-Dinitrotoluene	ND	10	1.1	1	
2-Chlorophenol	ND	10	1.0	1		Diethyl Phthalate	ND	10	1.4	1	
1,3-Dichlorobenzene	ND	10	1.2	1		4-Chlorophenyl-Phenyl Ether	ND	10	1.2	1	
1,4-Dichlorobenzene	ND	10	1.1	1		Fluorene	ND	10	1.4	1	
Benzyl Alcohol	ND	10	1.0	1		4-Nitroaniline	ND	10	2.4	1	
1,2-Dichlorobenzene	ND	10	1.1	1		Azobenzene	ND	10	1.7	1	
2-Methylphenol	ND	10	1.1	1		4,6-Dinitro-2-Methylphenol	ND	50	3.4	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1.5	1		N-Nitrosodiphenylamine	ND	10	1.4	1	
3/4-Methylphenol	ND	10	1.0	1		4-Bromophenyl-Phenyl Ether	ND	10	1.2	1	
N-Nitroso-di-n-propylamine	ND	10	1.3	1		Hexachlorobenzene	ND	10	1.2	1	
Hexachloroethane	ND	10	0.98	1		Pentachlorophenol	ND	10	0.75	1	
Nitrobenzene	ND	25	1.3	1		Phenanthrene	ND	10	1.5	1	
Isophorone	ND	10	1.2	1		Anthracene	ND	10	1.5	1	
2-Nitrophenol	ND	10	1.2	1		Di-n-Butyl Phthalate	ND	10	1.5	1	
2,4-Dimethylphenol	ND	10	1.2	1		Fluoranthene	ND	10	1.5	1	
Benzoic Acid	ND	50	0.43	1		Benzidine	ND	50	0.62	1	
Bis(2-Chloroethoxy) Methane	ND	10	1.2	1		Pyrene	ND	10	1.4	1	
2,4-Dichlorophenol	ND	10	1.1	1		Pyridine	ND	10	1.4	1	
Naphthalene	ND	10	1.4	1		Butyl Benzyl Phthalate	ND	10	1.0	1	
4-Chloroaniline	ND	10	1.3	1		3,3'-Dichlorobenzidine	ND	25	1.3	1	
Hexachloro-1,3-Butadiene	ND	10	1.2	1		Benzo (a) Anthracene	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	10	1.2	1		Bis(2-Ethylhexyl) Phthalate	2.3	10	1.0	1	J
2-Methylnaphthalene	ND	10	1.2	1		Chrysene	ND	10	1.3	1	
Hexachlorocyclopentadiene	ND	25	0.44	1		Di-n-Octyl Phthalate	ND	10	1.0	1	
2,4,6-Trichlorophenol	ND	10	1.2	1		Benzo (k) Fluoranthene	ND	10	1.7	1	
2,4,5-Trichlorophenol	ND	10	0.97	1		Benzo (b) Fluoranthene	ND	10	1.2	1	
2-Chloronaphthalene	ND	10	1.3	1		Benzo (a) Pyrene	ND	10	0.88	1	
2-Nitroaniline	ND	10	1.0	1		Benzo (g,h,i) Perylene	ND	10	0.71	1	
Dimethyl Phthalate	ND	10	1.3	1		Indeno (1,2,3-c,d) Pyrene	ND	10	0.83	1	
Acenaphthylene	ND	10	1.4	1		Dibenz (a,h) Anthracene	ND	10	0.82	1	
3-Nitroaniline	ND	10	1.2	1		1-Methylnaphthalene	ND	10	1.4	1	
Acenaphthene	ND	10	1.4	1		1,2,4-Trichlorobenzene	ND	10	1.3	1	
2,4-Dinitrophenol	ND	50	2.6	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	62	7-121		Phenol-d6	44	1-127	
Nitrobenzene-d5	97	50-146		2-Fluorobiphenyl	69	42-138	
2,4,6-Tribromophenol	67	41-137		p-Terphenyl-d14	91	47-173	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-3,074**	**N/A**	**Aqueous**	**GC/MS CCC**	**01/28/11**	**02/02/11 11:44**	**110128L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	10	1.1	1		4-Nitrophenol	ND	10	0.86	1	
Aniline	ND	10	1.2	1		Dibenzofuran	ND	10	1.4	1	
Phenol	ND	10	1.2	1		2,4-Dinitrotoluene	ND	10	1.0	1	
Bis(2-Chloroethyl) Ether	ND	25	1.0	1		2,6-Dinitrotoluene	ND	10	1.1	1	
2-Chlorophenol	ND	10	1.0	1		Diethyl Phthalate	ND	10	1.4	1	
1,3-Dichlorobenzene	ND	10	1.2	1		4-Chlorophenyl-Phenyl Ether	ND	10	1.2	1	
1,4-Dichlorobenzene	ND	10	1.1	1		Fluorene	ND	10	1.4	1	
Benzyl Alcohol	ND	10	1.0	1		4-Nitroaniline	ND	10	2.4	1	
1,2-Dichlorobenzene	ND	10	1.1	1		Azobenzene	ND	10	1.7	1	
2-Methylphenol	ND	10	1.1	1		4,6-Dinitro-2-Methylphenol	ND	50	3.4	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1.5	1		N-Nitrosodiphenylamine	ND	10	1.4	1	
3/4-Methylphenol	ND	10	1.0	1		4-Bromophenyl-Phenyl Ether	ND	10	1.2	1	
N-Nitroso-di-n-propylamine	ND	10	1.3	1		Hexachlorobenzene	ND	10	1.2	1	
Hexachloroethane	ND	10	0.98	1		Pentachlorophenol	ND	10	0.75	1	
Nitrobenzene	ND	25	1.3	1		Phenanthrene	ND	10	1.5	1	
Isophorone	ND	10	1.2	1		Anthracene	ND	10	1.5	1	
2-Nitrophenol	ND	10	1.2	1		Di-n-Butyl Phthalate	ND	10	1.5	1	
2,4-Dimethylphenol	ND	10	1.2	1		Fluoranthene	ND	10	1.5	1	
Benzoic Acid	ND	50	0.43	1		Benzidine	ND	50	0.62	1	
Bis(2-Chloroethoxy) Methane	ND	10	1.2	1		Pyrene	ND	10	1.4	1	
2,4-Dichlorophenol	ND	10	1.1	1		Pyridine	ND	10	1.4	1	
Naphthalene	ND	10	1.4	1		Butyl Benzyl Phthalate	ND	10	1.0	1	
4-Chloroaniline	ND	10	1.3	1		3,3'-Dichlorobenzidine	ND	25	1.3	1	
Hexachloro-1,3-Butadiene	ND	10	1.2	1		Benzo (a) Anthracene	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	10	1.2	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1.0	1	
2-Methylnaphthalene	ND	10	1.2	1		Chrysene	ND	10	1.3	1	
Hexachlorocyclopentadiene	ND	25	0.44	1		Di-n-Octyl Phthalate	ND	10	1.0	1	
2,4,6-Trichlorophenol	ND	10	1.2	1		Benzo (k) Fluoranthene	ND	10	1.7	1	
2,4,5-Trichlorophenol	ND	10	0.97	1		Benzo (b) Fluoranthene	ND	10	1.2	1	
2-Chloronaphthalene	ND	10	1.3	1		Benzo (a) Pyrene	ND	10	0.88	1	
2-Nitroaniline	ND	10	1.0	1		Benzo (g,h,i) Perylene	ND	10	0.71	1	
Dimethyl Phthalate	ND	10	1.3	1		Indeno (1,2,3-c,d) Pyrene	ND	10	0.83	1	
Acenaphthylene	ND	10	1.4	1		Dibenz (a,h) Anthracene	ND	10	0.82	1	
3-Nitroaniline	ND	10	1.2	1		1-Methylnaphthalene	ND	10	1.4	1	
Acenaphthene	ND	10	1.4	1		1,2,4-Trichlorobenzene	ND	10	1.3	1	
2,4-Dinitrophenol	ND	50	2.6	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	81	7-121		Phenol-d6	52	1-127	
Nitrobenzene-d5	112	50-146		2-Fluorobiphenyl	91	42-138	
2,4,6-Tribromophenol	88	41-137		p-Terphenyl-d14	110	47-173	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-01-1686-1-P**	**01/26/11 13:05**	**Aqueous**	**GC 51**	**01/28/11**	**01/31/11 19:11**	**110128L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.10	0.025	1		Endrin	ND	0.10	0.016	1	
Gamma-BHC	ND	0.10	0.026	1		Endrin Aldehyde	ND	0.10	0.0092	1	
Beta-BHC	ND	0.10	0.018	1		4,4'-DDD	ND	0.10	0.024	1	
Heptachlor	ND	0.10	0.0096	1		Endosulfan II	ND	0.10	0.022	1	
Delta-BHC	ND	0.10	0.032	1		4,4'-DDT	ND	0.10	0.017	1	
Aldrin	ND	0.10	0.021	1		Endosulfan Sulfate	ND	0.10	0.015	1	
Heptachlor Epoxide	ND	0.10	0.017	1		Methoxychlor	ND	0.10	0.028	1	
Endosulfan I	ND	0.10	0.010	1		Chlordane	ND	1.0	0.17	1	
Dieldrin	ND	0.10	0.024	1		Toxaphene	ND	2.0	0.61	1	
4,4'-DDE	ND	0.10	0.023	1		Endrin Ketone	ND	0.10	0.011	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	50-135		2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

28Q002S	**11-01-1686-2-P**	**01/26/11 14:30**	**Aqueous**	**GC 51**	**01/28/11**	**01/31/11 19:25**	**110128L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.10	0.025	1		Endrin	ND	0.10	0.016	1	
Gamma-BHC	ND	0.10	0.026	1		Endrin Aldehyde	ND	0.10	0.0092	1	
Beta-BHC	ND	0.10	0.018	1		4,4'-DDD	ND	0.10	0.024	1	
Heptachlor	ND	0.10	0.0096	1		Endosulfan II	ND	0.10	0.022	1	
Delta-BHC	ND	0.10	0.032	1		4,4'-DDT	ND	0.10	0.017	1	
Aldrin	ND	0.10	0.021	1		Endosulfan Sulfate	ND	0.10	0.015	1	
Heptachlor Epoxide	ND	0.10	0.017	1		Methoxychlor	ND	0.10	0.028	1	
Endosulfan I	ND	0.10	0.010	1		Chlordane	ND	1.0	0.17	1	
Dieldrin	ND	0.10	0.024	1		Toxaphene	ND	2.0	0.61	1	
4,4'-DDE	ND	0.10	0.023	1		Endrin Ketone	ND	0.10	0.011	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	50-135		2,4,5,6-Tetrachloro-m-Xylene	74	50-135	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-415**	**N/A**	**Aqueous**	**GC 51**	**01/28/11**	**01/31/11 18:27**	**110128L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.10	0.025	1		Endrin	ND	0.10	0.016	1	
Gamma-BHC	ND	0.10	0.026	1		Endrin Aldehyde	ND	0.10	0.0092	1	
Beta-BHC	ND	0.10	0.018	1		4,4'-DDD	ND	0.10	0.024	1	
Heptachlor	ND	0.10	0.0096	1		Endosulfan II	ND	0.10	0.022	1	
Delta-BHC	ND	0.10	0.032	1		4,4'-DDT	ND	0.10	0.017	1	
Aldrin	ND	0.10	0.021	1		Endosulfan Sulfate	ND	0.10	0.015	1	
Heptachlor Epoxide	ND	0.10	0.017	1		Methoxychlor	ND	0.10	0.028	1	
Endosulfan I	ND	0.10	0.010	1		Chlordane	ND	1.0	0.17	1	
Dieldrin	ND	0.10	0.024	1		Toxaphene	ND	2.0	0.61	1	
4,4'-DDE	ND	0.10	0.023	1		Endrin Ketone	ND	0.10	0.011	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-135		2,4,5,6-Tetrachloro-m-Xylene	74	50-135	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3510C
		Method:	EPA 8082
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-01-1686-1-P**	**01/26/11 13:05**	**Aqueous**	**GC 31**	**01/27/11**	**02/01/11 15:25**	**110128L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	1.0	0.15	1		Aroclor-1248	ND	1.0	0.10	1	
Aroclor-1221	ND	1.0	0.10	1		Aroclor-1254	ND	1.0	0.10	1	
Aroclor-1232	ND	1.0	0.10	1		Aroclor-1260	ND	1.0	0.25	1	
Aroclor-1242	ND	1.0	0.10	1		Aroclor-1262	ND	1.0	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	50-135		2,4,5,6-Tetrachloro-m-Xylene	66	50-135	

28Q002S	**11-01-1686-2-P**	**01/26/11 14:30**	**Aqueous**	**GC 31**	**01/27/11**	**02/01/11 15:44**	**110128L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	1.0	0.15	1		Aroclor-1248	ND	1.0	0.10	1	
Aroclor-1221	ND	1.0	0.10	1		Aroclor-1254	ND	1.0	0.10	1	
Aroclor-1232	ND	1.0	0.10	1		Aroclor-1260	ND	1.0	0.25	1	
Aroclor-1242	ND	1.0	0.10	1		Aroclor-1262	ND	1.0	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	50-135		2,4,5,6-Tetrachloro-m-Xylene	66	50-135	

Method Blank	**099-12-533-511**	**N/A**	**Aqueous**	**GC 31**	**01/28/11**	**02/02/11 15:53**	**110128L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	1.0	0.15	1		Aroclor-1248	ND	1.0	0.10	1	
Aroclor-1221	ND	1.0	0.10	1		Aroclor-1254	ND	1.0	0.10	1	
Aroclor-1232	ND	1.0	0.10	1		Aroclor-1260	ND	1.0	0.25	1	
Aroclor-1242	ND	1.0	0.10	1		Aroclor-1262	ND	1.0	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	80	50-135		2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-01-1686-1-B**	**01/26/11 13:05**	**Aqueous**	**GC/MS Q**	**01/28/11**	**01/29/11 02:15**	**110128L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	80-126		1,2-Dichloroethane-d4	99	80-134	
Toluene-d8	96	80-120		1,4-Bromofluorobenzene	94	80-120	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28Q002S	**11-01-1686-2-A**	**01/26/11 14:30**	**Aqueous**	**GC/MS QQ**	**01/27/11**	**01/28/11 08:13**	**110127L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	80-126		1,2-Dichloroethane-d4	105	80-134	
Toluene-d8	103	80-120		1,4-Bromofluorobenzene	94	80-120	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-28R003S	**11-01-1686-3-A**	**01/26/11 00:00**	**Aqueous**	**GC/MS QQ**	**01/27/11**	**01/28/11 08:41**	**110127L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	80-126		1,2-Dichloroethane-d4	109	80-134	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	94	80-120	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-28Q002S	**11-01-1686-4-A**	**01/26/11 00:00**	**Aqueous**	**GC/MS QQ**	**01/27/11**	**01/28/11 09:08**	**110127L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	80-126		1,2-Dichloroethane-d4	104	80-134	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	97	80-120	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-3,514**	**N/A**	**Aqueous**	**GC/MS QQ**	**01/27/11**	**01/28/11 04:09**	**110127L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	0.28	1.0	0.28	1	J	p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-126		1,2-Dichloroethane-d4	104	80-134	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	94	80-120	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-3,534**	**N/A**	**Aqueous**	**GC/MS Q**	**01/28/11**	**01/29/11 01:46**	**110128L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	98	80-126		1,2-Dichloroethane-d4	105	80-134	
Toluene-d8	97	80-120		1,4-Bromofluorobenzene	94	80-120	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3005A Filt. / EPA 7470A Filt.
		Method:	EPA 6020 / EPA 7470A
		Units:	mg/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-01-1686-1-G**	**01/26/11 13:05**	**Aqueous**	**ICP/MS 04**	**01/27/11**	**01/28/11 18:52**	**110127L01F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

-Mercury analysis was performed on 01/28/11 15:12 with batch 110127L01F.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Selenium	ND	0.00100	0.000554	1	
Arsenic	0.00919	0.00100	0.000589	1		Silver	ND	0.00100	0.000120	1	
Barium	0.0184	0.00100	0.000105	1		Thallium	ND	0.00100	0.000498	1	
Beryllium	ND	0.00100	0.000131	1		Vanadium	ND	0.00100	0.000790	1	
Cadmium	ND	0.00100	0.000266	1		Zinc	0.00635	0.00500	0.00180	1	
Chromium	0.00151	0.00100	0.000618	1		Aluminum	ND	0.0500	0.0105	1	
Cobalt	ND	0.00100	0.000140	1		Calcium	18.3	0.100	0.0154	1	
Copper	0.00054	0.00100	0.000105	1	J	Iron	0.321	0.0500	0.0122	1	
Lead	ND	0.00100	0.000170	1		Magnesium	2.27	0.100	0.00970	1	
Mercury	ND	0.000500	0.00003481			Manganese	0.00782	0.00100	0.000620	1	
Molybdenum	0.0438	0.00100	0.000290	1		Potassium	5.02	0.100	0.00992	1	
Nickel	0.00067	0.00100	0.000155	1	J	Sodium	511	0.100	0.0168	1	

28Q002S	**11-01-1686-2-G**	**01/26/11 14:30**	**Aqueous**	**ICP/MS 04**	**01/27/11**	**01/28/11 17:08**	**110127L01F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

-Mercury analysis was performed on 01/28/11 15:14 with batch 110127L01F.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Selenium	0.00173	0.00100	0.000554	1	
Arsenic	ND	0.00100	0.000589	1		Silver	ND	0.00100	0.000120	1	
Barium	0.0845	0.00100	0.000105	1		Thallium	ND	0.00100	0.000498	1	
Beryllium	ND	0.00100	0.000131	1		Vanadium	ND	0.00100	0.000790	1	
Cadmium	ND	0.00100	0.000266	1		Zinc	0.350	0.00500	0.00180	1	
Chromium	0.00351	0.00100	0.000618	1		Aluminum	ND	0.0500	0.0105	1	
Cobalt	0.00027	0.00100	0.000140	1	J	Calcium	89.8	0.100	0.0154	1	
Copper	0.0483	0.00100	0.000105	1		Iron	0.0618	0.0500	0.0122	1	
Lead	0.00033	0.00100	0.000170	1	J	Magnesium	19.1	0.100	0.00970	1	
Mercury	ND	0.000500	0.00003481			Manganese	0.00991	0.00100	0.000620	1	
Molybdenum	0.0249	0.00100	0.000290	1		Potassium	5.28	0.100	0.00992	1	
Nickel	0.0117	0.00100	0.000155	1		Sodium	363	0.100	0.0168	1	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3005A Filt. / EPA 7470A Filt.
		Method:	EPA 6020 / EPA 7470A
		Units:	mg/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-3,157**	**N/A**	**Aqueous**	**ICP/MS 04**	**01/27/11**	**01/28/11 17:57**	**110127L01F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Silver	ND	0.00100	0.000120	1	
Arsenic	ND	0.00100	0.000589	1		Thallium	ND	0.00100	0.000498	1	
Barium	ND	0.00100	0.000105	1		Vanadium	ND	0.00100	0.000790	1	
Beryllium	ND	0.00100	0.000131	1		Zinc	ND	0.00500	0.00180	1	
Cadmium	ND	0.00100	0.000266	1		Aluminum	ND	0.0500	0.0105	1	
Chromium	ND	0.00100	0.000618	1		Calcium	ND	0.100	0.0154	1	
Cobalt	ND	0.00100	0.000140	1		Iron	ND	0.0500	0.0122	1	
Copper	ND	0.00100	0.000105	1		Magnesium	ND	0.100	0.00970	1	
Lead	ND	0.00100	0.000170	1		Manganese	ND	0.00100	0.000620	1	
Molybdenum	ND	0.00100	0.000290	1		Potassium	ND	0.100	0.00992	1	
Nickel	ND	0.00100	0.000155	1		Sodium	ND	0.100	0.0168	1	
Selenium	ND	0.00100	0.000554	1							

Method Blank	**099-04-008-5,182**	**N/A**	**Aqueous**	**Mercury**	**01/27/11**	**01/27/11 12:19**	**110127L01F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Preparation/analysis for Mercury was performed by EPA 7470A.

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.000500	0.0000348	1	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	01/27/11
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3020A Total / EPA 7470A Total
		Method:	EPA 6020 / EPA 7470A
		Units:	mg/L
Project: BSE / Blythe Palo Verde Mesa / 27651005.10010			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-01-1686-1-I**	**01/26/11 13:05**	**Aqueous**	**ICP/MS 04**	**01/27/11**	**01/28/11 16:58**	**110127L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury analysis was performed on 01/28/11 15:16 with batch 110127L01.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Selenium	ND	0.00100	0.000554	1	
Arsenic	0.0102	0.00100	0.000589	1		Silver	ND	0.00100	0.000120	1	
Barium	0.0211	0.00100	0.000105	1		Thallium	ND	0.00100	0.000498	1	
Beryllium	ND	0.00100	0.000131	1		Vanadium	ND	0.00100	0.000790	1	
Cadmium	ND	0.00100	0.000266	1		Zinc	0.0142	0.00500	0.00180	1	
Chromium	0.00459	0.00100	0.000618	1		Aluminum	ND	0.0500	0.0105	1	
Cobalt	ND	0.00100	0.000140	1		Calcium	18.1	0.100	0.0154	1	
Copper	0.00082	0.00100	0.000105	1	J	Iron	1.69	0.0500	0.0122	1	
Lead	ND	0.00100	0.000170	1		Magnesium	2.28	0.100	0.00970	1	
Mercury	ND	0.000500	0.00003481			Manganese	0.0114	0.00100	0.000620	1	
Molybdenum	0.0480	0.00100	0.000290	1		Potassium	5.08	0.100	0.00992	1	
Nickel	0.00355	0.00100	0.000155	1		Sodium	515	0.100	0.0168	1	

28Q002S	**11-01-1686-2-I**	**01/26/11 14:30**	**Aqueous**	**ICP/MS 04**	**01/27/11**	**01/28/11 17:01**	**110127L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury analysis was performed on 01/28/11 15:18 with batch 110127L01.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Selenium	0.00162	0.00100	0.000554	1	
Arsenic	0.00114	0.00100	0.000589	1		Silver	ND	0.00100	0.000120	1	
Barium	0.0915	0.00100	0.000105	1		Thallium	ND	0.00100	0.000498	1	
Beryllium	ND	0.00100	0.000131	1		Vanadium	ND	0.00100	0.000790	1	
Cadmium	ND	0.00100	0.000266	1		Zinc	0.383	0.00500	0.00180	1	
Chromium	0.0451	0.00100	0.000618	1		Aluminum	0.121	0.0500	0.0105	1	
Cobalt	0.00066	0.00100	0.000140	1	J	Calcium	90.6	0.100	0.0154	1	
Copper	0.0881	0.00100	0.000105	1		Iron	0.550	0.0500	0.0122	1	
Lead	0.0157	0.00100	0.000170	1		Magnesium	20.0	0.100	0.00970	1	
Mercury	ND	0.000500	0.00003481			Manganese	0.0331	0.00100	0.000620	1	
Molybdenum	0.0298	0.00100	0.000290	1		Potassium	5.52	0.100	0.00992	1	
Nickel	0.0423	0.00100	0.000155	1		Sodium	373	0.100	0.0168	1	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: 01/27/11
Work Order No: 11-01-1686
Preparation: EPA 3020A Total / EPA 7470A Total
Method: EPA 6020 / EPA 7470A
Units: mg/L

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-3,156**	**N/A**	**Aqueous**	**ICP/MS 04**	**01/27/11**	**01/28/11 17:54**	**110127L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Silver	ND	0.00100	0.000120	1	
Arsenic	ND	0.00100	0.000589	1		Thallium	ND	0.00100	0.000498	1	
Barium	ND	0.00100	0.000105	1		Vanadium	ND	0.00100	0.000790	1	
Beryllium	ND	0.00100	0.000131	1		Zinc	ND	0.00500	0.00180	1	
Cadmium	ND	0.00100	0.000266	1		Aluminum	ND	0.0500	0.0105	1	
Chromium	ND	0.00100	0.000618	1		Calcium	ND	0.100	0.0154	1	
Cobalt	ND	0.00100	0.000140	1		Iron	ND	0.0500	0.0122	1	
Copper	ND	0.00100	0.000105	1		Magnesium	ND	0.100	0.00970	1	
Lead	ND	0.00100	0.000170	1		Manganese	ND	0.00100	0.000620	1	
Molybdenum	ND	0.00100	0.000290	1		Potassium	ND	0.100	0.00992	1	
Nickel	ND	0.00100	0.000155	1		Sodium	ND	0.100	0.0168	1	
Selenium	ND	0.00100	0.000554	1							

Method Blank	**099-04-008-5,181**	**N/A**	**Aqueous**	**Mercury**	**01/27/11**	**01/27/11 12:19**	**110127L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Preparation/analysis for Mercury was performed by EPA 7470A.

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.000500	0.0000348	1	

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: 01/27/11
Work Order No: 11-01-1686

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Client Sample Number	Lab Sample Number	Date Collected	Matrix
28R003S	**11-01-1686-1**	**01/26/11**	**Aqueous**

Comment(s): (24) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	4.2	0.10	0.022	1		mg/L	N/A	01/27/11	EPA 300.0
Chloride (24)	740	10	1.3	10		mg/L	N/A	01/27/11	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	01/27/11	EPA 300.0
o-Phosphate (as P) (24)	ND	0.10	0.014	1		mg/L	N/A	01/27/11	EPA 300.0
Sulfate (24)	390	10	1.6	10		mg/L	N/A	01/27/11	EPA 300.0
Turbidity (24)	14	1.0	0.044	1		NTU	N/A	01/27/11	SM 2130 B
Alkalinity, Total (as CaCO3) (24)	74.0	1.00	0.846	1		mg/L	N/A	01/27/11	SM 2320B
Bicarbonate (as CaCO3) (24)	74.0	1.00	0.846	1		mg/L	N/A	01/27/11	SM 2320B
Hydroxide (as CaCO3) (24)	ND	1.0	0.85	1		mg/L	N/A	01/27/11	SM 2320B
Specific Conductance (24)	2900	10	0.50	1		umhos/cm	N/A	01/28/11	SM 2510 B
Solids, Total Dissolved (24)	1850	10.0	1.00	1		mg/L	01/28/11	01/28/11	SM 2540 C
Solids, Total Suspended (24)	5.4	1.0	0.95	1		mg/L	01/28/11	01/28/11	SM 2540 D
pH (24)	8.60	0.01	0.01	1		pH units	N/A	01/27/11	SM 4500 H+ B
Phosphorus, Total (24)	0.27	0.10	0.022	1		mg/L	02/02/11	02/02/11	SM 4500 P B/E
Cyanide, Total (24)	ND	0.050	0.020	1		mg/L	01/28/11	01/28/11	SM 4500-CN E
Carbon Dioxide (24)	ND	1.0	0.59	1		mg/L	N/A	01/27/11	SM4500-CO2D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: 01/27/11
Work Order No: 11-01-1686

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Client Sample Number	Lab Sample Number	Date Collected	Matrix
28Q002S	**11-01-1686-2**	**01/26/11**	**Aqueous**

Comment(s): (24) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.41	0.10	0.022	1		mg/L	N/A	01/27/11	EPA 300.0
Chloride (24)	470	10	1.3	10		mg/L	N/A	01/27/11	EPA 300.0
Nitrate (as N) (24)	0.070	0.10	0.017	1	J	mg/L	N/A	01/27/11	EPA 300.0
o-Phosphate (as P) (24)	ND	0.10	0.014	1		mg/L	N/A	01/27/11	EPA 300.0
Sulfate (24)	410	10	1.6	10		mg/L	N/A	01/27/11	EPA 300.0
Turbidity (24)	5.6	0.10	0.044	1		NTU	N/A	01/27/11	SM 2130 B
Alkalinity, Total (as CaCO3) (24)	124	5.00	0.846	1		mg/L	N/A	01/27/11	SM 2320B
Bicarbonate (as CaCO3) (24)	124	5.00	0.846	1		mg/L	N/A	01/27/11	SM 2320B
Hydroxide (as CaCO3) (24)	ND	1.0	0.85	1		mg/L	N/A	01/27/11	SM 2320B
Specific Conductance (24)	2300	10	0.50	1		umhos/cm	N/A	01/28/11	SM 2510 B
Solids, Total Dissolved (24)	1570	10.0	1.00	1		mg/L	01/28/11	01/28/11	SM 2540 C
Solids, Total Suspended (24)	8.9	1.0	0.95	1		mg/L	01/28/11	01/28/11	SM 2540 D
pH (24)	7.27	0.01	0.01	1		pH units	N/A	01/27/11	SM 4500 H+ B
Phosphorus, Total (24)	0.35	0.10	0.022	1		mg/L	02/02/11	02/02/11	SM 4500 P B/E
Cyanide, Total (24)	ND	0.050	0.020	1		mg/L	01/28/11	01/28/11	SM 4500-CN E
Carbon Dioxide (24)	12	1.0	0.59	1		mg/L	N/A	01/27/11	SM4500-CO2D

Method Blank	**N/A**	**Aqueous**

Comment(s): (24) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	ND	0.10	0.022	1		mg/L	N/A	01/27/11	EPA 300.0
Chloride (24)	ND	1.0	0.13	1		mg/L	N/A	01/27/11	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	01/27/11	EPA 300.0
o-Phosphate (as P) (24)	ND	0.10	0.014	1		mg/L	N/A	01/27/11	EPA 300.0
Sulfate (24)	ND	1.0	0.16	1		mg/L	N/A	01/27/11	EPA 300.0
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1		mg/L	N/A	01/27/11	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1		mg/L	N/A	01/27/11	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	1.0	1		mg/L	01/28/11	01/28/11	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.95	1		mg/L	01/28/11	01/28/11	SM 2540 D
Phosphorus, Total (24)	ND	0.10	0.022	1		mg/L	02/02/11	02/02/11	SM 4500 P B/E
Cyanide, Total (24)	ND	0.050	0.020	1		mg/L	01/28/11	01/28/11	SM 4500-CN E

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: 01/27/11
Work Order No: 11-01-1686
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-01-1651-1	**Aqueous**	**ICP/MS 04**	**01/27/11**	**01/27/11**	**110127S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	77	76	85-133	1	0-11	3
Arsenic	76	75	73-127	2	0-11	
Barium	101	94	74-128	4	0-10	
Beryllium	64	66	56-122	3	0-11	
Cadmium	66	68	84-114	3	0-8	3
Chromium	109	116	73-133	6	0-11	
Cobalt	99	106	79-121	7	0-10	
Copper	73	76	72-108	4	0-10	
Lead	122	121	79-121	0	0-10	3
Molybdenum	142	145	83-137	2	0-10	3
Nickel	84	87	68-122	4	0-10	
Selenium	83	79	59-125	5	0-12	
Silver	84	86	68-128	2	0-14	
Thallium	136	134	73-121	1	0-11	3
Vanadium	98	97	77-137	1	0-15	
Zinc	74	63	43-145	15	0-39	
Aluminum	107	128	47-161	18	0-24	
Calcium	4X	4X	80-120	4X	0-20	Q
Iron	4X	4X	27-201	4X	0-24	Q
Magnesium	4X	4X	63-123	4X	0-32	Q
Manganese	89	96	72-126	3	0-42	
Potassium	4X	4X	80-120	4X	0-20	Q
Sodium	4X	4X	80-120	4X	0-20	Q

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received 01/27/11
Work Order No: 11-01-1686
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
11-01-1651-1	**Aqueous**	**ICP/MS 04**	**01/27/11**	**01/27/11**	**110127S01**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	78	78	75-125	0	0-11	
Arsenic	79	81	75-125	2	0-11	
Barium	95	93	75-125	1	0-10	
Beryllium	69	68	75-125	1	0-11	5
Cadmium	69	69	75-125	0	0-8	5
Chromium	119	122	75-125	2	0-11	
Cobalt	107	109	75-125	2	0-10	
Copper	75	79	75-125	4	0-10	
Lead	119	121	75-125	1	0-10	
Molybdenum	140	142	75-125	2	0-10	5
Nickel	91	91	75-125	0	0-10	
Selenium	79	80	75-125	1	0-12	
Silver	81	80	75-125	1	0-14	
Thallium	131	132	75-125	1	0-11	5
Vanadium	98	97	75-125	2	0-15	
Zinc	63	64	75-125	2	0-39	5
Aluminum	115	121	75-125	5	0-24	
Calcium	4X	4X	75-125	4X	0-20	Q
Iron	4X	4X	75-125	4X	0-24	Q
Magnesium	4X	4X	75-125	4X	0-32	Q
Manganese	107	111	75-125	1	0-42	
Potassium	4X	4X	75-125	4X	0-20	Q
Sodium	4X	4X	75-125	4X	0-20	Q

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: 01/27/11
Work Order No: 11-01-1686
Preparation: EPA 7470A Total
Method: EPA 7470A

Project BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-01-1606-3	**Aqueous**	**Mercury**	**01/27/11**	**01/27/11**	**110127S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	101	100	57-141	1	0-10	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: 01/27/11
Work Order No: 11-01-1686
Preparation: EPA 5030C
Method: EPA 8260B

Project BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-01-1726-1	**Aqueous**	**GC/MS QQ**	**01/27/11**	**01/27/11**	**110127S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	100	78-120	1	0-20	
Carbon Tetrachloride	97	98	67-139	1	0-20	
Chlorobenzene	99	99	80-120	1	0-20	
1,2-Dibromoethane	92	103	80-123	12	0-20	
1,2-Dichlorobenzene	94	95	76-120	1	0-20	
1,2-Dichloroethane	100	101	76-130	2	0-20	
1,1-Dichloroethene	106	102	70-130	4	0-27	
Ethylbenzene	100	101	73-127	1	0-20	
Toluene	93	93	72-126	0	0-20	
Trichloroethene	100	102	74-122	2	0-20	
Vinyl Chloride	107	115	65-131	7	0-24	
Methyl-t-Butyl Ether (MTBE)	100	106	69-123	6	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received:	01/27/11
Work Order No:	11-01-1686
Preparation:	EPA 5030C
Method:	EPA 8260B

Project BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
28R003S	**Aqueous**	**GC/MS Q**	**01/28/11**	**01/29/11**	**110128S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	96	78-120	0	0-20	
Carbon Tetrachloride	96	96	67-139	0	0-20	
Chlorobenzene	105	104	80-120	1	0-20	
1,2-Dibromoethane	111	112	80-123	1	0-20	
1,2-Dichlorobenzene	111	108	76-120	3	0-20	
1,2-Dichloroethane	101	101	76-130	0	0-20	
1,1-Dichloroethene	96	94	70-130	2	0-27	
Ethylbenzene	105	103	73-127	2	0-20	
Toluene	96	95	72-126	1	0-20	
Trichloroethene	96	97	74-122	1	0-20	
Vinyl Chloride	94	92	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	90	90	69-123	0	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: N/A
Work Order No: 11-01-1686

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	SM 4500 P B/E	11-01-1560-1	02/02/11	2/2/11	93	95	70-130	1	0-25	
Fluoride	EPA 300.0	11-01-1697-8	01/27/11	N/A	97	96	80-120	1	0-20	
Chloride	EPA 300.0	11-01-1697-8	01/27/11	N/A	99	99	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	11-01-1697-8	01/27/11	N/A	100	98	80-120	2	0-20	
o-Phosphate (as P)	EPA 300.0	11-01-1697-8	01/27/11	N/A	111	113	80-120	2	0-20	
Sulfate	EPA 300.0	11-01-1697-8	01/27/11	N/A	98	98	80-120	0	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: N/A
Work Order No: 11-01-1686

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Specific Conductance	SM 2510 B	11-01-1810-1	01/28/11	1900	1900	0	0-25	
Turbidity	SM 2130 B	11-01-1635-1	01/27/11	0.26	0.25	4	0-25	
Carbon Dioxide	SM4500-CO2D	28Q002S	01/27/11	12	11	3	0-25	
Alkalinity, Total (as CaCO3)	SM 2320B	28Q002S	01/27/11	124	124	0	0-25	
pH	SM 4500 H+ B	11-01-1685-3	01/27/11	7.03	7.04	0	0-25	
Solids, Total Suspended	SM 2540 D	28R003S	01/28/11	5.4	5.6	4	0-10	
Solids, Total Dissolved	SM 2540 C	11-01-1791-1	01/28/11	1820	1810	1	0-10	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: N/A
Work Order No: 11-01-1686
Preparation: EPA 3020A Total
Method: EPA 6020

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-3,156	**Aqueous**	**ICP/MS 04**	**01/27/11**	**01/27/11**	**110127L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	96	96	80-120	73-127	1	0-20	
Arsenic	93	93	80-120	73-127	1	0-20	
Barium	93	94	80-120	73-127	1	0-20	
Beryllium	93	94	80-120	73-127	1	0-20	
Cadmium	95	97	80-120	73-127	2	0-20	
Chromium	95	96	80-120	73-127	2	0-20	
Cobalt	97	98	80-120	73-127	1	0-20	
Copper	97	99	80-120	73-127	2	0-20	
Lead	95	95	80-120	73-127	0	0-20	
Molybdenum	93	96	80-120	73-127	3	0-20	
Nickel	97	99	80-120	73-127	1	0-20	
Selenium	90	91	80-120	73-127	1	0-20	
Silver	99	101	80-120	73-127	2	0-20	
Thallium	92	91	80-120	73-127	1	0-20	
Vanadium	95	96	80-120	73-127	0	0-20	
Zinc	95	97	80-120	73-127	2	0-20	
Aluminum	84	85	80-120	73-127	1	0-20	
Calcium	101	100	80-120	73-127	0	0-20	
Iron	87	88	80-120	73-127	1	0-20	
Magnesium	97	97	80-120	73-127	0	0-20	
Manganese	95	96	80-120	73-127	1	0-20	
Potassium	79	80	80-120	73-127	2	0-20	ME
Sodium	91	93	80-120	73-127	2	0-20	

Total number of LCS compounds : 23
Total number of ME compounds : 1
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: N/A
Work Order No: 11-01-1686
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-3,157	**Aqueous**	**ICP/MS 04**	**01/27/11**	**01/27/11**	**110127L01F**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	96	96	80-120	73-127	1	0-20	
Arsenic	93	93	80-120	73-127	1	0-20	
Barium	93	94	80-120	73-127	1	0-20	
Beryllium	93	94	80-120	73-127	1	0-20	
Cadmium	95	97	80-120	73-127	2	0-20	
Chromium	95	96	80-120	73-127	2	0-20	
Cobalt	97	98	80-120	73-127	1	0-20	
Copper	97	99	80-120	73-127	2	0-20	
Lead	95	95	80-120	73-127	0	0-20	
Molybdenum	93	96	80-120	73-127	3	0-20	
Nickel	97	99	80-120	73-127	1	0-20	
Selenium	90	91	80-120	73-127	1	0-20	
Silver	99	101	80-120	73-127	2	0-20	
Thallium	92	91	80-120	73-127	1	0-20	
Vanadium	95	96	80-120	73-127	0	0-20	
Zinc	95	97	80-120	73-127	2	0-20	
Aluminum	84	85	80-120	73-127	1	0-20	
Calcium	101	100	80-120	73-127	0	0-20	
Iron	87	88	80-120	73-127	1	0-20	
Magnesium	97	97	80-120	73-127	0	0-20	
Manganese	95	96	80-120	73-127	1	0-20	
Potassium	79	80	80-120	73-127	2	0-20	ME
Sodium	91	93	80-120	73-127	2	0-20	

Total number of LCS compounds : 23
Total number of ME compounds : 1
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: N/A
Work Order No: 11-01-1686
Preparation: EPA 7470A Total
Method: EPA 7470A

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-5,181	**Aqueous**	**Mercury**	**01/27/11**	**01/27/11**	**110127L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	98	97	85-121	1	0-10	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation		Date Received:	N/A
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-5,182	**Aqueous**	**Mercury**	**01/27/11**	**01/27/11**	**110127L01F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	98	97	85-121	1	0-10	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation		Date Received:	N/A
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3510C
		Method:	EPA 8270C

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-3,074	**Aqueous**	**GC/MS CCC**	**01/28/11**	**02/02/11**	**110128L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	48	49	4-142	0-165	1	0-24	
2-Chlorophenol	104	105	53-113	43-123	1	0-17	
1,4-Dichlorobenzene	83	83	50-122	38-134	0	0-19	
N-Nitroso-di-n-propylamine	108	108	56-146	41-161	0	0-22	
Naphthalene	86	85	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	91	90	55-121	44-132	1	0-18	
Dimethyl Phthalate	93	90	0-112	0-131	3	0-20	
Acenaphthylene	96	95	33-145	14-164	1	0-20	
Acenaphthene	94	93	55-139	41-153	2	0-17	
4-Nitrophenol	43	42	1-145	0-169	4	0-29	
2,4-Dinitrotoluene	109	105	41-161	21-181	3	0-22	
Fluorene	91	89	59-121	49-131	2	0-20	
Pentachlorophenol	63	63	34-130	18-146	1	0-23	
Pyrene	101	102	38-170	16-192	1	0-27	
Butyl Benzyl Phthalate	113	111	0-152	0-177	1	0-20	
1,2,4-Trichlorobenzene	80	79	49-121	37-133	0	0-19	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation		Date Received:	N/A
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3510C
		Method:	EPA 8081A

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-415	**Aqueous**	**GC 51**	**01/28/11**	**01/31/11**	**110128L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	105	106	50-135	36-149	0	0-25	
Gamma-BHC	105	105	50-135	36-149	0	0-25	
Beta-BHC	101	101	50-135	36-149	0	0-25	
Heptachlor	95	96	50-135	36-149	1	0-25	
Delta-BHC	89	89	50-135	36-149	0	0-25	
Aldrin	90	90	50-135	36-149	0	0-25	
Heptachlor Epoxide	105	106	50-135	36-149	0	0-25	
Endosulfan I	113	115	50-135	36-149	1	0-25	
Dieldrin	111	112	50-135	36-149	1	0-25	
4,4'-DDE	108	108	50-135	36-149	0	0-25	
Endrin	108	108	50-135	36-149	0	0-25	
Endrin Aldehyde	119	118	50-135	36-149	0	0-25	
4,4'-DDD	112	112	50-135	36-149	0	0-25	
Endosulfan II	108	108	50-135	36-149	1	0-25	
4,4'-DDT	72	72	50-135	36-149	0	0-25	
Endosulfan Sulfate	109	110	50-135	36-149	1	0-25	
Methoxychlor	104	104	50-135	36-149	0	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation		Date Received:	N/A
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 3510C
		Method:	EPA 8082

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-511	**Aqueous**	**GC 31**	**01/28/11**	**02/02/11**	**110128L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	105	119	50-135	12	0-25	
Aroclor-1260	114	102	50-135	12	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: N/A
Work Order No: 11-01-1686
Preparation: EPA 5030C
Method: EPA 8260B

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-3,514	**Aqueous**	**GC/MS QQ**	**01/27/11**	**01/28/11**	**110127L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	106	106	80-120	73-127	0	0-20	
Carbon Tetrachloride	96	97	66-138	54-150	1	0-20	
Chlorobenzene	101	101	80-120	73-127	0	0-20	
1,2-Dibromoethane	100	102	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	95	98	80-120	73-127	3	0-20	
1,2-Dichloroethane	107	105	80-129	72-137	2	0-20	
1,1-Dichloroethene	96	103	71-131	61-141	7	0-20	
Ethylbenzene	102	102	80-123	73-130	0	0-20	
Toluene	97	95	79-121	72-128	2	0-20	
Trichloroethene	103	98	80-120	73-127	5	0-20	
Vinyl Chloride	108	101	70-136	59-147	7	0-20	
Methyl-t-Butyl Ether (MTBE)	97	99	72-126	63-135	2	0-22	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation		Date Received:	N/A
2020 East 1st Street, Suite 400		Work Order No:	11-01-1686
Santa Ana, CA 92705-4032		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-3,534	**Aqueous**	**GC/MS Q**	**01/28/11**	**01/29/11**	**110128L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	94	94	80-120	73-127	0	0-20	
Carbon Tetrachloride	94	94	66-138	54-150	1	0-20	
Chlorobenzene	104	106	80-120	73-127	2	0-20	
1,2-Dibromoethane	114	113	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	109	112	80-120	73-127	3	0-20	
1,2-Dichloroethane	100	99	80-129	72-137	1	0-20	
1,1-Dichloroethene	93	94	71-131	61-141	1	0-20	
Ethylbenzene	105	107	80-123	73-130	2	0-20	
Toluene	96	96	79-121	72-128	0	0-20	
Trichloroethene	97	96	80-120	73-127	0	0-20	
Vinyl Chloride	91	89	70-136	59-147	2	0-20	
Methyl-t-Butyl Ether (MTBE)	92	90	72-126	63-135	2	0-22	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: N/A
Work Order No: 11-01-1686

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Fluoride	EPA 300.0	099-12-906-1,540	N/A	01/27/11	97	97	90-110	0	0-15	
Chloride	EPA 300.0	099-12-906-1,540	N/A	01/27/11	103	103	90-110	0	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-1,540	N/A	01/27/11	101	101	90-110	0	0-15	
o-Phosphate (as P)	EPA 300.0	099-12-906-1,540	N/A	01/27/11	98	97	90-110	0	0-15	
Sulfate	EPA 300.0	099-12-906-1,540	N/A	01/27/11	102	102	90-110	0	0-15	
Cyanide, Total	SM 4500-CN E	099-05-061-3,015	01/28/11	01/28/11	85	84	80-120	2	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

URS Corporation
2020 East 1st Street, Suite 400
Santa Ana, CA 92705-4032

Date Received: N/A
Work Order No: 11-01-1686

Project: BSE / Blythe Palo Verde Mesa / 27651005.10010

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Phosphorus, Total	SM 4500 P B/E	099-05-098-2,220	02/02/11	02/02/11	0.40	0.39	98	80-120	

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 11-01-1686

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

1686

URS CORPORATION
2020 East First Street, Suite 400
Santa Ana, CA 92705
(714) 835-6886
FAX (714) 667-7147

CHAIN OF CUSTODY RECORD

Date: 1 / 26 / 11

☐ Data Requested in GISKey Format

Lab Name: Calscience
URS Project/PO Number: 27651005
Client Name/Project Name/Location: URS / BSE / Blythe
Geo Tracker Information:
URS Project Manager: Robert Scott, Joe Liles
EDF Reporting: Y N Global ID:
Sampler Name and Signature: Stavro Pilafas
COELT Log Number:

Requested Analyses: ICP/MS metals; Metals (Lab Filtered); Wet Chemistry; TDS; TSS; Phosphorus, Total; CO2 (No Headspace); Cyanide; VOCs 8260B; SVOCs; OCPs; PCBs; HOLD; Special Instructions:

	Sample Name	Sample Date:	Sample Time:	Preserved:	Matrix:	Container type:	# of Cont.:	ICP/MS metals	Metals (Lab Filtered)	Wet Chemistry	TDS	TSS	Phosphorus, Total	CO2 (No Headspace)	Cyanide	VOCs 8260B	SVOCs	OCPs	PCBs		HOLD	Special Instructions:
1	28R0035	1/26/11	1305	Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	17	X	X	X	X	X	X	X	X	X	X	X	X			
2	28Q0025	1/26/11	1430	Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	17	X	X	X	X	X	X	X	X	X	X	X	X			
3	TB-28R0035	1/26/11	—	Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	2									X						
4	TB-28Q0025	1/26/11	—	Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	2									X						
5				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
6				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
7				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
8				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
9				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
10				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																

Relinquished By:	Date:	Received By:	Date/Time:
[signature]	1/27/11 1030	[signature] CEL	1/27/11 1030
[signature]	1/27/11 11:30	[signature]	1/27/10 11:30

Turnaround Time: (Check)
Same Day: ____ 72 Hour: ____
24 Hour: ____ 5 Day: ____
48 Hour: ____ Standard: ✓

Lab Use Only
Cooler Temperature*: ____
*Record upon arrival

URS

S=Solid L=Liquid G=Gas

White Copy in Final Report, Yellow to File, Pink to URS at Dropoff

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 11-01- 1 6 8 6

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: URS Corporation

DATE: 01/27/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C + 0.5 °C (CF) = 2.8 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: _____

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑3 VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☑3 1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☑250AGB ☐250CGB ☑250CGB**s** ☑3 1PB ☑500PB ☑500PB**na**

☑2 250PB ☑2 250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:** 110103A **Labeled/Checked by:** _____

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** _____

Preservative: h: HCL n: HNO_3 na$_2$: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** _____

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CalScience Environmental Laboratories 7440 Lincoln Way Garden Grove, CA 92841	Client Project ID: #11-01-1686	Date Sampled:	01/26/11
		Date Received:	01/28/11
	Client Contact: Vik Patel	Date Reported:	02/04/11
	Client P.O.:	Date Completed:	02/04/11

WorkOrder: 1101676

February 04, 2011

Dear Vik:

Enclosed within are:

1) The results of the **2** analyzed samples from your project: **#11-01-1686,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

1101676

Calscience Environmental Laboratories, Inc.

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

TO: McCampbell Analytical

CHAIN OF CUSTODY RECORD

DATE: 01/27/11

PAGE: 1 OF 1

LABORATORY CLIENT: Calscience Environmental Laboratories, Inc.
ADDRESS: 7440 Lincoln Way
CITY: Garden Grove, CA 92841-1427
TEL: 714/895-5494 | FAX: 714/894-7501 | E-MAIL: vipatel@calscience.com

CLIENT PROJECT NAME / NUMBER: 11-01-1686
PROJECT CONTACT: Vik Patel
SAMPLER(S) (SIGNATURE):

P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ Standard

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Total Silica (EPA ~~6010B~~) 200.7	Dissolved Silica (EPA ~~6010B~~) 200.7	Reactive Silica (SM 4500 SiO2)
+	28R0035		01/26/11	13:05	W	2	X	X	X
+	28Q0025		01/26/11	14:30	W	2	X	X	X

ICW# 2-8
GOOD CONDITION ✓ APPROPRIATE ✓
HEADSPACE ABSENT ___ CONTAINERS ___
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___
PRESERVATION ___ VOAS | O&G | METALS | OTHER ✓

REC'D SEALED & INTACT VIA Golden State ON

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Wbatu	GSO51583866O	1/27/11	1530
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Muva Vb	1/28/11	0830
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1101676 **ClientCode: CSEL**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Vik Patel
CalScience Environmental Laboratori
7440 Lincoln Way
Garden Grove, CA 92841
(714) 895-5494 FAX (714) 894-7501

Email: vipatel@calscience.com
cc:
PO:
ProjectNo: #11-01-1686

Bill to:
Accounts Payable
CalScience Environmental Laborator
7440 Lincoln Way
Garden Grove, CA 92841

Requested TAT: 5 days

Date Received: **01/28/2011**
Date Printed: **01/28/2011**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1101676-001	28R0035	Water	1/26/2011 13:05	☐	B	B	B	A								
1101676-002	28Q0025	Water	1/26/2011 14:30	☐	B	B	B	A								

Test Legend:

1	PRDISSOLVED	2	REACTSI_W	3	SILICA_DISS	4	SILICA_W	5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **CalScience Environmental Laboratories** Date and Time Received: **1/28/2011 9:45:43 AM**

Project Name: **#11-01-1686** Checklist completed and reviewed by: Maria Venegas

WorkOrder N°: **1101676** Matrix Water Carrier: Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☐	No ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☐	No ☑	
Container/Temp Blank temperature	Cooler Temp: 2.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments: Dissolved Silica was pass it holding time

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CalScience Environmental Laboratories	Client Project ID: #11-01-1686	Date Sampled: 01/26/11
7440 Lincoln Way		Date Received: 01/28/11
	Client Contact: Vik Patel	Date Extracted: 01/28/11
Garden Grove, CA 92841	Client P.O.:	Date Analyzed: 02/02/11

Reactive Silica*

Analytical Method: SM4500-SiO2 D Work Order: 1101676

Lab ID	Client ID	Matrix	Reactive Silica	DF	Comments
1101676-001B	28R0035	W	19	5	
1101676-002B	28Q0025	W	15	5	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.05 mg/L	
	S	NA	

*water samples are reported in mg/L.

DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CalScience Environmental Laboratories	Client Project ID: #11-01-1686	Date Sampled: 01/26/11
7440 Lincoln Way		Date Received: 01/28/11
	Client Contact: Vik Patel	Date Extracted: 01/28/11
Garden Grove, CA 92841	Client P.O.:	Date Analyzed: 01/31/11

Silica*

Extraction method: E200.7 Analytical methods: 200.7 Work Order: 1101676

Lab ID	Client ID	Matrix	Extraction Type	Silica	DF	% SS	Comments
1101676-001B	28R0035	W	DISS.	17,000	1	N/A	
1101676-002B	28Q0025	W	DISS.	14,000	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS.	110	µg/L
	S	TOTAL	NA	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CalScience Environmental Laboratories	Client Project ID: #11-01-1686	Date Sampled: 01/26/11
7440 Lincoln Way		Date Received: 01/28/11
	Client Contact: Vik Patel	Date Extracted: 01/28/11
Garden Grove, CA 92841	Client P.O.:	Date Analyzed: 01/31/11

Silica*

Extraction method: E200.7 Analytical methods: E200.7 Work Order: 1101676

Lab ID	Client ID	Matrix	Extraction Type	Silica	DF	% SS	Comments
1101676-001A	28R0035	W	TOTAL	19,000	1	90	
1101676-002A	28Q0025	W	TOTAL	15,000	1	93	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	110	µg/L
	S	TOTAL	NA	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SM4500-SiO2 D

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55886 WorkOrder 1101676

EPA Method SM4500-SiO2 D **Extraction SM4500-SiO2 D** **Spiked Sample ID: 1101676-001B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Reactive Silica	19	1	NR	NR	NR	98	101	3.37	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 55886 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101676-001B	01/26/11 1:05 PM	01/28/11	02/02/11 12:06 AM	1101676-002B	01/26/11 2:30 PM	01/28/11	02/02/11 12:07 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR 200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55885 WorkOrder 1101676

EPA Method 200.7 **Extraction E200.7** **Spiked Sample ID: 1101532-003A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Silica	15,000	2140	83	78.7	0.551	94.4	89.6	5.19	70 - 130	20	80 - 120	20
%SS:	98	750	94	90	3.64	91	87	4.10	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 55885 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101676-001A	01/26/11 1:05 PM	01/28/11	01/31/11 5:32 PM	1101676-001B	01/26/11 1:05 PM	01/28/11	01/31/11 5:44 PM
1101676-002A	01/26/11 2:30 PM	01/28/11	01/31/11 5:34 PM	1101676-002B	01/26/11 2:30 PM	01/28/11	01/31/11 5:46 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

Calscience Environmental Laboratories, Inc.

May 17, 2011

Robert Scott
URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Subject: **Calscience Work Order No.: 11-05-0775**
Client Reference: BSE-Rio Mesa Solar / 27651005.NOBIL

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/12/2011 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Vikas Patel

Calscience Environmental
Laboratories, Inc.
Vikas Patel
Project Manager

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Subcontractor Analysis Report

Work Order # 11-05-0775

Case Narrative

One or more samples in this Work Order have tests that were subcontracted. The subcontract report is included in whole at the end of the final report issued by Calscience Environmental Laboratories.

For subcontracted tests, please reference the laboratory information noted below.

1 McCampbell Analytical, Inc. - Pittsburg,CA ELAP CA # 1644

Reactive Silica

Calscience Environmental Laboratories, Inc.

Client:	URS Corporation 4225 Executive Square, Suite 1600 La Jolla, CA 92037-1487	Work Order:	11-05-0775
		Project name:	BSE-Rio Mesa Solar / 27651005.NOBIL
		Received:	05/12/11 09:15
Attn:	Robert Scott		

DETECTIONS SUMMARY

Client Sample ID

28R003S

Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
Arsenic	**0.0145**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Barium	**0.0283**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Chromium	**0.00196**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Copper	**0.00150**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Molybdenum	**0.0586**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Nickel	**0.00166**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Selenium	**0.00481**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Zinc	**0.0243**		0.00500	mg/L	EPA 6020	EPA 3020A Total
Calcium	**37.0**		0.100	mg/L	EPA 6020	EPA 3020A Total
Iron	**3.40**		0.0500	mg/L	EPA 6020	EPA 3020A Total
Magnesium	**3.81**		0.100	mg/L	EPA 6020	EPA 3020A Total
Manganese	**0.0236**		0.00100	mg/L	EPA 6020	EPA 3020A Total
Potassium	**6.88**		0.100	mg/L	EPA 6020	EPA 3020A Total
Sodium	**682**		1.00	mg/L	EPA 6020	EPA 3020A Total
Arsenic	**0.0129**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Barium	**0.0269**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Chromium	**0.00138**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Copper	**0.00121**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Molybdenum	**0.0589**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Nickel	**0.00164**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Selenium	**0.00461**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Zinc	**0.0101**		0.00500	mg/L	EPA 6020	EPA 3005A Filt.
Calcium	**36.2**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Iron	**0.250**		0.0500	mg/L	EPA 6020	EPA 3005A Filt.
Magnesium	**3.70**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Manganese	**0.0188**		0.00100	mg/L	EPA 6020	EPA 3005A Filt.
Potassium	**6.81**		0.100	mg/L	EPA 6020	EPA 3005A Filt.
Sodium	**615**		1.00	mg/L	EPA 6020	EPA 3005A Filt.
Specific Conductance	**2600**		10	umhos/cm	SM 2510 B	N/A
Phosphorus, Total	**0.12**		0.10	mg/L	SM 4500 P B/E	N/A
Turbidity	**4.8**		0.10	NTU	SM 2130 B	N/A
Carbon Dioxide	**1.5**		1.0	mg/L	SM4500-CO2D	N/A
Alkalinity, Total (as CaCO3)	**95.0**		1.00	mg/L	SM 2320B	N/A
Bicarbonate (as CaCO3)	**95.0**		1.00	mg/L	SM 2320B	N/A
Chloride	**730**		10	mg/L	EPA 300.0	N/A
Fluoride	**4.2**		0.10	mg/L	EPA 300.0	N/A
Sulfate	**420**		10	mg/L	EPA 300.0	N/A
Nitrate (as N)	**0.045**	J	0.037*	mg/L	EPA 300.0	N/A

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	URS Corporation 4225 Executive Square, Suite 1600 La Jolla, CA 92037-1487	Work Order:	11-05-0775
		Project name:	BSE-Rio Mesa Solar / 27651005.NOBIL
		Received:	05/12/11 09:15
Attn:	Robert Scott		

DETECTIONS SUMMARY

Client Sample ID Analyte	**Result**	Qualifiers	Reporting Limit	Units	Method	Extraction
28R003S						
pH	**8.12**		0.01	pH units	SM 4500 H+ B	N/A
Carbon, Total Organic	**0.12**	J	0.10*	mg/L	SM 5310 D	N/A
Solids, Total Suspended	**5.9**		1.0	mg/L	SM 2540 D	N/A
Solids, Total Dissolved	**1840**		10.0	mg/L	SM 2540 C	N/A
Toluene	**1.4**		1.0	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	05/12/11
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: BSE-Rio Mesa Solar / 27651005.NOBIL			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-05-0775-1-Q**	**05/11/11 19:08**	**Aqueous**	**GC/MS P**	**05/12/11**	**05/12/11 15:30**	**110512L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	10	1.1	1		4-Nitrophenol	ND	10	0.86	1	
Aniline	ND	10	1.2	1		Dibenzofuran	ND	10	1.4	1	
Phenol	ND	10	1.2	1		2,4-Dinitrotoluene	ND	10	1.0	1	
Bis(2-Chloroethyl) Ether	ND	25	1.0	1		2,6-Dinitrotoluene	ND	10	1.1	1	
2-Chlorophenol	ND	10	1.0	1		Diethyl Phthalate	ND	10	1.4	1	
1,3-Dichlorobenzene	ND	10	1.2	1		4-Chlorophenyl-Phenyl Ether	ND	10	1.2	1	
1,4-Dichlorobenzene	ND	10	1.1	1		Fluorene	ND	10	1.4	1	
Benzyl Alcohol	ND	10	1.0	1		4-Nitroaniline	ND	10	2.4	1	
1,2-Dichlorobenzene	ND	10	1.1	1		Azobenzene	ND	10	1.7	1	
2-Methylphenol	ND	10	1.1	1		4,6-Dinitro-2-Methylphenol	ND	50	3.4	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1.5	1		N-Nitrosodiphenylamine	ND	10	1.4	1	
3/4-Methylphenol	ND	10	1.0	1		4-Bromophenyl-Phenyl Ether	ND	10	1.2	1	
N-Nitroso-di-n-propylamine	ND	10	1.3	1		Hexachlorobenzene	ND	10	1.2	1	
Hexachloroethane	ND	10	0.98	1		Pentachlorophenol	ND	10	0.75	1	
Nitrobenzene	ND	25	1.3	1		Phenanthrene	ND	10	1.5	1	
Isophorone	ND	10	1.2	1		Anthracene	ND	10	1.5	1	
2-Nitrophenol	ND	10	1.2	1		Di-n-Butyl Phthalate	ND	10	1.5	1	
2,4-Dimethylphenol	ND	10	1.2	1		Fluoranthene	ND	10	1.5	1	
Benzoic Acid	ND	50	0.43	1		Benzidine	ND	50	0.62	1	
Bis(2-Chloroethoxy) Methane	ND	10	1.2	1		Pyrene	ND	10	1.4	1	
2,4-Dichlorophenol	ND	10	1.1	1		Pyridine	ND	10	1.4	1	
Naphthalene	ND	10	1.4	1		Butyl Benzyl Phthalate	ND	10	1.0	1	
4-Chloroaniline	ND	10	1.3	1		3,3'-Dichlorobenzidine	ND	25	1.3	1	
Hexachloro-1,3-Butadiene	ND	10	1.2	1		Benzo (a) Anthracene	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	10	1.2	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1.0	1	
2-Methylnaphthalene	ND	10	1.2	1		Chrysene	ND	10	1.3	1	
Hexachlorocyclopentadiene	ND	25	0.44	1		Di-n-Octyl Phthalate	ND	10	1.0	1	
2,4,6-Trichlorophenol	ND	10	1.2	1		Benzo (k) Fluoranthene	ND	10	1.7	1	
2,4,5-Trichlorophenol	ND	10	0.97	1		Benzo (b) Fluoranthene	ND	10	1.2	1	
2-Chloronaphthalene	ND	10	1.3	1		Benzo (a) Pyrene	ND	10	0.88	1	
2-Nitroaniline	ND	10	1.0	1		Benzo (g,h,i) Perylene	ND	10	0.71	1	
Dimethyl Phthalate	ND	10	1.3	1		Indeno (1,2,3-c,d) Pyrene	ND	10	0.83	1	
Acenaphthylene	ND	10	1.4	1		Dibenz (a,h) Anthracene	ND	10	0.82	1	
3-Nitroaniline	ND	10	1.2	1		1-Methylnaphthalene	ND	10	1.4	1	
Acenaphthene	ND	10	1.4	1		1,2,4-Trichlorobenzene	ND	10	1.3	1	
2,4-Dinitrophenol	ND	50	2.6	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	71	7-121		Phenol-d6	50	1-127	
Nitrobenzene-d5	85	50-146		2-Fluorobiphenyl	81	42-138	
2,4,6-Tribromophenol	85	41-137		p-Terphenyl-d14	83	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	05/12/11
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: BSE-Rio Mesa Solar / 27651005.NOBIL			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-3,144**	**N/A**	**Aqueous**	**GC/MS P**	**05/12/11**	**05/12/11 13:43**	**110512L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	10	1.1	1		4-Nitrophenol	ND	10	0.86	1	
Aniline	ND	10	1.2	1		Dibenzofuran	ND	10	1.4	1	
Phenol	ND	10	1.2	1		2,4-Dinitrotoluene	ND	10	1.0	1	
Bis(2-Chloroethyl) Ether	ND	25	1.0	1		2,6-Dinitrotoluene	ND	10	1.1	1	
2-Chlorophenol	ND	10	1.0	1		Diethyl Phthalate	ND	10	1.4	1	
1,3-Dichlorobenzene	ND	10	1.2	1		4-Chlorophenyl-Phenyl Ether	ND	10	1.2	1	
1,4-Dichlorobenzene	ND	10	1.1	1		Fluorene	ND	10	1.4	1	
Benzyl Alcohol	ND	10	1.0	1		4-Nitroaniline	ND	10	2.4	1	
1,2-Dichlorobenzene	ND	10	1.1	1		Azobenzene	ND	10	1.7	1	
2-Methylphenol	ND	10	1.1	1		4,6-Dinitro-2-Methylphenol	ND	50	3.4	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1.5	1		N-Nitrosodiphenylamine	ND	10	1.4	1	
3/4-Methylphenol	ND	10	1.0	1		4-Bromophenyl-Phenyl Ether	ND	10	1.2	1	
N-Nitroso-di-n-propylamine	ND	10	1.3	1		Hexachlorobenzene	ND	10	1.2	1	
Hexachloroethane	ND	10	0.98	1		Pentachlorophenol	ND	10	0.75	1	
Nitrobenzene	ND	25	1.3	1		Phenanthrene	ND	10	1.5	1	
Isophorone	ND	10	1.2	1		Anthracene	ND	10	1.5	1	
2-Nitrophenol	ND	10	1.2	1		Di-n-Butyl Phthalate	ND	10	1.5	1	
2,4-Dimethylphenol	ND	10	1.2	1		Fluoranthene	ND	10	1.5	1	
Benzoic Acid	ND	50	0.43	1		Benzidine	ND	50	0.62	1	
Bis(2-Chloroethoxy) Methane	ND	10	1.2	1		Pyrene	ND	10	1.4	1	
2,4-Dichlorophenol	ND	10	1.1	1		Pyridine	ND	10	1.4	1	
Naphthalene	ND	10	1.4	1		Butyl Benzyl Phthalate	ND	10	1.0	1	
4-Chloroaniline	ND	10	1.3	1		3,3'-Dichlorobenzidine	ND	25	1.3	1	
Hexachloro-1,3-Butadiene	ND	10	1.2	1		Benzo (a) Anthracene	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	10	1.2	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1.0	1	
2-Methylnaphthalene	ND	10	1.2	1		Chrysene	ND	10	1.3	1	
Hexachlorocyclopentadiene	ND	25	0.44	1		Di-n-Octyl Phthalate	ND	10	1.0	1	
2,4,6-Trichlorophenol	ND	10	1.2	1		Benzo (k) Fluoranthene	ND	10	1.7	1	
2,4,5-Trichlorophenol	ND	10	0.97	1		Benzo (b) Fluoranthene	ND	10	1.2	1	
2-Chloronaphthalene	ND	10	1.3	1		Benzo (a) Pyrene	ND	10	0.88	1	
2-Nitroaniline	ND	10	1.0	1		Benzo (g,h,i) Perylene	ND	10	0.71	1	
Dimethyl Phthalate	ND	10	1.3	1		Indeno (1,2,3-c,d) Pyrene	ND	10	0.83	1	
Acenaphthylene	ND	10	1.4	1		Dibenz (a,h) Anthracene	ND	10	0.82	1	
3-Nitroaniline	ND	10	1.2	1		1-Methylnaphthalene	ND	10	1.4	1	
Acenaphthene	ND	10	1.4	1		1,2,4-Trichlorobenzene	ND	10	1.3	1	
2,4-Dinitrophenol	ND	50	2.6	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	62	7-121		Phenol-d6	41	1-127	
Nitrobenzene-d5	87	50-146		2-Fluorobiphenyl	74	42-138	
2,4,6-Tribromophenol	85	41-137		p-Terphenyl-d14	78	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	05/12/11
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: BSE-Rio Mesa Solar / 27651005.NOBIL			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-05-0775-1-R**	**05/11/11 19:08**	**Aqueous**	**GC 51**	**05/12/11**	**05/12/11 14:13**	**110512L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.10	0.025	1		Endrin	ND	0.10	0.016	1	
Gamma-BHC	ND	0.10	0.026	1		Endrin Aldehyde	ND	0.10	0.0092	1	
Beta-BHC	ND	0.10	0.018	1		4,4'-DDD	ND	0.10	0.024	1	
Heptachlor	ND	0.10	0.0096	1		Endosulfan II	ND	0.10	0.022	1	
Delta-BHC	ND	0.10	0.032	1		4,4'-DDT	ND	0.10	0.017	1	
Aldrin	ND	0.10	0.021	1		Endosulfan Sulfate	ND	0.10	0.015	1	
Heptachlor Epoxide	ND	0.10	0.017	1		Methoxychlor	ND	0.10	0.028	1	
Endosulfan I	ND	0.10	0.010	1		Chlordane	ND	1.0	0.17	1	
Dieldrin	ND	0.10	0.024	1		Toxaphene	ND	2.0	0.61	1	
4,4'-DDE	ND	0.10	0.023	1		Endrin Ketone	ND	0.10	0.011	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	50-135		2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

Method Blank	**099-12-529-446**	**N/A**	**Aqueous**	**GC 51**	**05/12/11**	**05/12/11 13:15**	**110512L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.10	0.025	1		Endrin	ND	0.10	0.016	1	
Gamma-BHC	ND	0.10	0.026	1		Endrin Aldehyde	ND	0.10	0.0092	1	
Beta-BHC	ND	0.10	0.018	1		4,4'-DDD	ND	0.10	0.024	1	
Heptachlor	ND	0.10	0.0096	1		Endosulfan II	ND	0.10	0.022	1	
Delta-BHC	ND	0.10	0.032	1		4,4'-DDT	ND	0.10	0.017	1	
Aldrin	ND	0.10	0.021	1		Endosulfan Sulfate	ND	0.10	0.015	1	
Heptachlor Epoxide	ND	0.10	0.017	1		Methoxychlor	ND	0.10	0.028	1	
Endosulfan I	ND	0.10	0.010	1		Chlordane	ND	1.0	0.17	1	
Dieldrin	ND	0.10	0.024	1		Toxaphene	ND	2.0	0.61	1	
4,4'-DDE	ND	0.10	0.023	1		Endrin Ketone	ND	0.10	0.011	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	50-135		2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	05/12/11
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 3510C
		Method:	EPA 8082
		Units:	ug/L
Project: BSE-Rio Mesa Solar / 27651005.NOBIL			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-05-0775-1-R**	**05/11/11 19:08**	**Aqueous**	**GC 58**	**05/12/11**	**05/12/11 17:01**	**110512L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	1.0	0.15	1		Aroclor-1248	ND	1.0	0.10	1	
Aroclor-1221	ND	1.0	0.10	1		Aroclor-1254	ND	1.0	0.10	1	
Aroclor-1232	ND	1.0	0.10	1		Aroclor-1260	ND	1.0	0.25	1	
Aroclor-1242	ND	1.0	0.10	1		Aroclor-1262	ND	1.0	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	50-135		2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

Method Blank	**099-12-533-548**	**N/A**	**Aqueous**	**GC 58**	**05/12/11**	**05/12/11 14:19**	**110512L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	1.0	0.15	1		Aroclor-1248	ND	1.0	0.10	1	
Aroclor-1221	ND	1.0	0.10	1		Aroclor-1254	ND	1.0	0.10	1	
Aroclor-1232	ND	1.0	0.10	1		Aroclor-1260	ND	1.0	0.25	1	
Aroclor-1242	ND	1.0	0.10	1		Aroclor-1262	ND	1.0	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	50-135		2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	05/12/11
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: BSE-Rio Mesa Solar / 27651005.NOBIL			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-05-0775-1-A**	**05/11/11 19:08**	**Aqueous**	**GC/MS Z**	**05/12/11**	**05/12/11 13:07**	**110512L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	1.4	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	80-126		1,2-Dichloroethane-d4	100	80-134	
Toluene-d8	98	80-120		1,4-Bromofluorobenzene	95	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	05/12/11
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: BSE-Rio Mesa Solar / 27651005.NOBIL			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-28R003S	**11-05-0775-2-A**	**05/11/11 00:00**	**Aqueous**	**GC/MS Z**	**05/12/11**	**05/12/11 13:35**	**110512L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	80-126		1,2-Dichloroethane-d4	98	80-134	
Toluene-d8	98	80-120		1,4-Bromofluorobenzene	93	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	05/12/11
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: BSE-Rio Mesa Solar / 27651005.NOBIL			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-4,618**	**N/A**	**Aqueous**	**GC/MS Z**	**05/12/11**	**05/12/11 12:11**	**110512L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	100	80-126		1,2-Dichloroethane-d4	97	80-134	
Toluene-d8	98	80-120		1,4-Bromofluorobenzene	94	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation		Date Received:	05/12/11
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 3005A Filt. / EPA 7470A Filt.
		Method:	EPA 6020 / EPA 7470A
		Units:	mg/L
Project: BSE-Rio Mesa Solar / 27651005.NOBIL			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-05-0775-1-M**	**05/11/11 19:08**	**Aqueous**	**ICP/MS 04**	**05/12/11**	**05/12/11 17:57**	**110512L01F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

-Mercury analysis was performed on 05/12/11 15:08 with batch 110512L05F.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Selenium	0.00461	0.00100	0.000554	1	
Arsenic	0.0129	0.00100	0.000589	1		Silver	ND	0.00100	0.000120	1	
Barium	0.0269	0.00100	0.000105	1		Thallium	ND	0.00100	0.000498	1	
Beryllium	ND	0.00100	0.000131	1		Vanadium	ND	0.00100	0.000790	1	
Cadmium	ND	0.00100	0.000266	1		Zinc	0.0101	0.00500	0.00180	1	
Chromium	0.00138	0.00100	0.000618	1		Aluminum	ND	0.0500	0.0105	1	
Cobalt	ND	0.00100	0.000140	1		Calcium	36.2	0.100	0.0154	1	
Copper	0.00121	0.00100	0.000105	1		Iron	0.250	0.0500	0.0122	1	
Lead	ND	0.00100	0.000170	1		Magnesium	3.70	0.100	0.00970	1	
Mercury	ND	0.000500	0.00003481			Manganese	0.0188	0.00100	0.000620	1	
Molybdenum	0.0589	0.00100	0.000290	1		Potassium	6.81	0.100	0.00992	1	
Nickel	0.00164	0.00100	0.000155	1		Sodium	615	1.00	0.168	10	

Method Blank	**096-06-003-3,316**	**N/A**	**Aqueous**	**ICP/MS 04**	**05/12/11**	**05/12/11 17:13**	**110512L01F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Silver	ND	0.00100	0.000120	1	
Arsenic	ND	0.00100	0.000589	1		Thallium	ND	0.00100	0.000498	1	
Barium	ND	0.00100	0.000105	1		Vanadium	ND	0.00100	0.000790	1	
Beryllium	ND	0.00100	0.000131	1		Zinc	ND	0.00500	0.00180	1	
Cadmium	ND	0.00100	0.000266	1		Aluminum	ND	0.0500	0.0105	1	
Chromium	ND	0.00100	0.000618	1		Calcium	ND	0.100	0.0154	1	
Cobalt	ND	0.00100	0.000140	1		Iron	ND	0.0500	0.0122	1	
Copper	ND	0.00100	0.000105	1		Magnesium	ND	0.100	0.00970	1	
Lead	ND	0.00100	0.000170	1		Manganese	ND	0.00100	0.000620	1	
Molybdenum	ND	0.00100	0.000290	1		Potassium	ND	0.100	0.00992	1	
Nickel	ND	0.00100	0.000155	1		Sodium	ND	0.100	0.0168	1	
Selenium	ND	0.00100	0.000554	1							

Method Blank	**099-04-008-5,350**	**N/A**	**Aqueous**	**Mercury**	**05/12/11**	**05/12/11 14:55**	**110512L05F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

-Preparation/analysis for Mercury was performed by EPA 7470A.

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.000500	0.00003481		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: 05/12/11
Work Order No: 11-05-0775
Preparation: EPA 3020A Total / EPA 7470A Total
Method: EPA 6020 / EPA 7470A
Units: mg/L

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
28R003S	**11-05-0775-1-I**	**05/11/11 19:08**	**Aqueous**	**ICP/MS 04**	**05/12/11**	**05/12/11 18:02**	**110512L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury analysis was performed on 05/12/11 15:06 with batch 110512L05.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Selenium	0.00481	0.00100	0.000554	1	
Arsenic	0.0145	0.00100	0.000589	1		Silver	ND	0.00100	0.000120	1	
Barium	0.0283	0.00100	0.000105	1		Thallium	ND	0.00100	0.000498	1	
Beryllium	ND	0.00100	0.000131	1		Vanadium	ND	0.00100	0.000790	1	
Cadmium	ND	0.00100	0.000266	1		Zinc	0.0243	0.00500	0.00180	1	
Chromium	0.00196	0.00100	0.000618	1		Aluminum	ND	0.0500	0.0105	1	
Cobalt	ND	0.00100	0.000140	1		Calcium	37.0	0.100	0.0154	1	
Copper	0.00150	0.00100	0.000105	1		Iron	3.40	0.0500	0.0122	1	
Lead	ND	0.00100	0.000170	1		Magnesium	3.81	0.100	0.00970	1	
Mercury	ND	0.000500	0.00003481			Manganese	0.0236	0.00100	0.000620	1	
Molybdenum	0.0586	0.00100	0.000290	1		Potassium	6.88	0.100	0.00992	1	
Nickel	0.00166	0.00100	0.000155	1		Sodium	682	1.00	0.168	10	

Method Blank	**096-06-003-3,315**	**N/A**	**Aqueous**	**ICP/MS 04**	**05/12/11**	**05/12/11 17:09**	**110512L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Silver	ND	0.00100	0.000120	1	
Arsenic	ND	0.00100	0.000589	1		Thallium	ND	0.00100	0.000498	1	
Barium	ND	0.00100	0.000105	1		Vanadium	ND	0.00100	0.000790	1	
Beryllium	ND	0.00100	0.000131	1		Zinc	ND	0.00500	0.00180	1	
Cadmium	ND	0.00100	0.000266	1		Aluminum	ND	0.0500	0.0105	1	
Chromium	ND	0.00100	0.000618	1		Calcium	ND	0.100	0.0154	1	
Cobalt	ND	0.00100	0.000140	1		Iron	ND	0.0500	0.0122	1	
Copper	ND	0.00100	0.000105	1		Magnesium	ND	0.100	0.00970	1	
Lead	ND	0.00100	0.000170	1		Manganese	ND	0.00100	0.000620	1	
Molybdenum	ND	0.00100	0.000290	1		Potassium	ND	0.100	0.00992	1	
Nickel	ND	0.00100	0.000155	1		Sodium	ND	0.100	0.0168	1	
Selenium	ND	0.00100	0.000554	1							

Method Blank	**099-04-008-5,349**	**N/A**	**Aqueous**	**Mercury**	**05/12/11**	**05/12/11 14:55**	**110512L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Preparation/analysis for Mercury was performed by EPA 7470A.

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.000500	0.00003481		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

LABORATORY ID: 11-05-0775

Method: EPA 200.7
Matrix: Water/Aqueous

CLIENT: URS Corporation
PROJECT: BSE-Rio Mesa Solar / 27651005.NOBIL

Results

Sample ID	SiO_2 (Total) (mg/L)	Dilution Factor	Date Analyzed
28R003S	36.6	1	05/12/11
Method Blank	ND	1	05/12/11
Reporting Limit:	0.107		

Laboratory Notes

Key: Rec=Recovery, ND=Not Detected at the reporting level

Calscience Environmental Laboratories, Inc.

Analytical Report

LABORATORY ID: 11-05-0775

Method: EPA 200.7
Matrix: Water/Aqueous

CLIENT: URS Corporation
PROJECT: BSE-Rio Mesa Solar / 27651005.NOBIL

Results

Sample ID	SiO_2 (Filtered) (mg/L)	Dilution Factor	Date Analyzed
28R003S	34.7	1	05/12/11
Method Blank	ND	1	05/12/11
Reporting Limit:	0.107		

Laboratory Notes

Key: Rec=Recovery, ND=Not Detected at the reporting level

Calscience Environmental Laboratories, Inc.

Analytical Report

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: 05/12/11
Work Order No: 11-05-0775

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Client Sample Number	Lab Sample Number	Date Collected	Matrix
28R003S	**11-05-0775-1**	**05/11/11**	**Aqueous**

Comment(s): (24) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	730	10	2.4	10		mg/L	N/A	05/12/11	EPA 300.0
Fluoride (24)	4.2	0.10	0.033	1		mg/L	N/A	05/12/11	EPA 300.0
o-Phosphate (as P) (24)	ND	0.10	0.047	1		mg/L	N/A	05/12/11	EPA 300.0
Sulfate (24)	420	10	3.2	10		mg/L	N/A	05/12/11	EPA 300.0
Nitrate (as N) (24)	0.045	0.10	0.037	1	J	mg/L	N/A	05/12/11	EPA 300.0
Turbidity (24)	4.8	0.10	0.044	1		NTU	N/A	05/12/11	SM 2130 B
Alkalinity, Total (as CaCO3) (24)	95.0	1.00	0.846	1		mg/L	N/A	05/12/11	SM 2320B
Bicarbonate (as CaCO3) (24)	95.0	1.00	0.846	1		mg/L	N/A	05/12/11	SM 2320B
Hydroxide (as CaCO3) (24)	ND	1.0	0.85	1		mg/L	N/A	05/12/11	SM 2320B
Specific Conductance (24)	2600	10	0.50	1		umhos/cm	N/A	05/12/11	SM 2510 B
Solids, Total Dissolved (24)	1840	10.0	1.00	1		mg/L	05/12/11	05/12/11	SM 2540 C
Solids, Total Suspended (24)	5.9	1.0	0.95	1		mg/L	05/12/11	05/12/11	SM 2540 D
pH (24)	8.12	0.01	0.01	1		pH units	N/A	05/12/11	SM 4500 H+ B
Phosphorus, Total (24)	0.12	0.10	0.022	1		mg/L	05/12/11	05/12/11	SM 4500 P B/E
Cyanide, Total (24)	ND	0.020	0.0070	1		mg/L	05/12/11	05/12/11	SM 4500-CN E
Carbon, Total Organic (24)	0.12	0.50	0.10	1	J	mg/L	N/A	05/12/11	SM 5310 D
Carbon Dioxide (24)	1.5	1.0	0.59	1		mg/L	N/A	05/12/11	SM4500-CO2D

Method Blank	**N/A**	**Aqueous**

Comment(s): (24) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	ND	1.0	0.24	1		mg/L	N/A	05/12/11	EPA 300.0
Fluoride (24)	ND	0.10	0.033	1		mg/L	N/A	05/12/11	EPA 300.0
o-Phosphate (as P) (24)	ND	0.10	0.047	1		mg/L	N/A	05/12/11	EPA 300.0
Sulfate (24)	ND	1.0	0.32	1		mg/L	N/A	05/12/11	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.037	1		mg/L	N/A	05/12/11	EPA 300.0
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1		mg/L	N/A	05/12/11	SM 2320B
Bicarbonate (as CaCO3)	ND	1.0	0.85	1		mg/L	N/A	05/12/11	SM 2320B
Hydroxide (as CaCO3) (24)	ND	1.0	0.85	1		mg/L	N/A	05/12/11	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	1.0	1		mg/L	05/12/11	05/12/11	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.95	1		mg/L	05/12/11	05/12/11	SM 2540 D
Phosphorus, Total (24)	ND	0.10	0.022	1		mg/L	05/12/11	05/12/11	SM 4500 P B/E
Cyanide, Total (24)	ND	0.020	0.0070	1		mg/L	05/12/11	05/12/11	SM 4500-CN E
Carbon, Total Organic (24)	ND	0.50	0.10	1		mg/L	N/A	05/12/11	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received:	05/12/11
Work Order No:	11-05-0775
Preparation:	N/A
Method:	EPA 200.7

Project BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-05-0654-1	**Aqueous**	**ICP 5300**	**05/12/11**	**05/12/11**	**110512SA1**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Silicon	4X	4X	80-120	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received:	05/12/11
Work Order No:	11-05-0775
Preparation:	N/A
Method:	EPA 200.7

Project BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-05-0654-1	**Aqueous**	**ICP 5300**	**05/12/11**	**05/12/11**	**110512SA1**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Silicon	4X	4X	80-120	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: 05/12/11
Work Order No: 11-05-0775
Preparation: EPA 3020A Total
Method: EPA 6020

Project BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
28R003S	**Aqueous**	**ICP/MS 04**	**05/12/11**	**05/12/11**	**110512S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	106	104	85-133	1	0-11	
Arsenic	109	108	73-127	0	0-11	
Barium	97	100	74-128	2	0-10	
Beryllium	75	75	56-122	1	0-11	
Cadmium	91	90	84-114	1	0-8	
Chromium	121	124	73-133	2	0-11	
Cobalt	116	117	79-121	1	0-10	
Copper	99	102	72-108	3	0-10	
Lead	123	123	79-121	0	0-10	3
Molybdenum	126	123	83-137	2	0-10	
Nickel	109	112	68-122	3	0-10	
Selenium	71	72	59-125	1	0-12	
Silver	90	90	68-128	0	0-14	
Thallium	125	125	73-121	1	0-11	3
Vanadium	105	105	77-137	0	0-15	
Zinc	84	83	43-145	1	0-39	
Aluminum	99	101	47-161	2	0-24	
Calcium	4X	4X	80-120	4X	0-20	Q
Iron	4X	4X	27-201	4X	0-24	Q
Magnesium	89	86	63-123	2	0-32	
Manganese	112	114	72-126	1	0-42	
Potassium	4X	4X	80-120	4X	0-20	Q
Sodium	4X	4X	80-120	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received 05/12/11
Work Order No: 11-05-0775
Preparation: EPA 3020A Total
Method: EPA 6020

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
28R003S	**Aqueous**	**ICP/MS 04**	**05/12/11**	**05/12/11**	**110512S01**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	99	95	75-125	4	0-11	
Arsenic	99	96	75-125	2	0-11	
Barium	95	94	75-125	0	0-10	
Beryllium	69	66	75-125	5	0-11	5
Cadmium	86	81	75-125	5	0-8	
Chromium	118	114	75-125	3	0-11	
Cobalt	110	108	75-125	2	0-10	
Copper	94	92	75-125	2	0-10	
Lead	116	112	75-125	4	0-10	
Molybdenum	117	110	75-125	4	0-10	
Nickel	103	101	75-125	2	0-10	
Selenium	79	71	75-125	9	0-12	5
Silver	82	79	75-125	4	0-14	
Thallium	118	114	75-125	4	0-11	
Vanadium	103	98	75-125	5	0-15	
Zinc	78	75	75-125	2	0-39	
Aluminum	101	98	75-125	3	0-24	
Calcium	4X	4X	75-125	4X	0-20	Q
Iron	4X	4X	75-125	4X	0-24	Q
Magnesium	80	73	75-125	5	0-32	5
Manganese	108	106	75-125	2	0-42	
Potassium	4X	4X	75-125	4X	0-20	Q
Sodium	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: 05/12/11
Work Order No: 11-05-0775
Preparation: EPA 7470A Total
Method: EPA 7470A

Project BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
28R003S	**Aqueous**	**Mercury**	**05/12/11**	**05/12/11**	**110512S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	108	109	57-141	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: 05/12/11
Work Order No: 11-05-0775
Preparation: EPA 5030C
Method: EPA 8260B

Project BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-05-0757-2	**Aqueous**	**GC/MS Z**	**05/12/11**	**05/12/11**	**110512S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	99	78-120	3	0-20	
Carbon Tetrachloride	105	103	67-139	2	0-20	
Chlorobenzene	102	101	80-120	1	0-20	
1,2-Dibromoethane	103	102	80-123	1	0-20	
1,2-Dichlorobenzene	106	103	76-120	3	0-20	
1,2-Dichloroethane	104	102	76-130	2	0-20	
1,1-Dichloroethene	97	98	70-130	0	0-27	
Ethylbenzene	99	98	73-127	1	0-20	
Toluene	100	98	72-126	1	0-20	
Trichloroethene	101	102	74-122	1	0-20	
Vinyl Chloride	89	91	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	95	95	69-123	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: N/A
Work Order No: 11-05-0775

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	SM 4500 P B/E	11-05-0385-1	05/12/11	5/12/11	90	90	70-130	0	0-25	
Fluoride	EPA 300.0	28R003S	05/12/11	N/A	97	99	80-120	2	0-20	
Chloride	EPA 300.0	28R003S	05/12/11	N/A	104	104	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	28R003S	05/12/11	N/A	103	103	80-120	0	0-20	
o-Phosphate (as P)	EPA 300.0	28R003S	05/12/11	N/A	103	108	80-120	5	0-20	
Sulfate	EPA 300.0	28R003S	05/12/11	N/A	102	102	80-120	0	0-20	
Carbon, Total Organic	SM 5310 D	28R003S	05/12/11	N/A	89	89	75-125	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: N/A
Work Order No: 11-05-0775

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Specific Conductance	SM 2510 B	28R003S	05/12/11	2600	2700	0	0-25	
Turbidity	SM 2130 B	11-05-0805-1	05/12/11	0.080	0.080	0	0-25	
Carbon Dioxide	SM4500-CO2D	28R003S	05/12/11	1.5	1.5	3	0-25	
Alkalinity, Total (as CaCO3)	SM 2320B	28R003S	05/12/11	95.0	96.0	1	0-25	
Bicarbonate (as CaCO3)	SM 2320B	28R003S	05/12/11	95.0	96.0	1	0-25	
Carbonate (as CaCO3)	SM 2320B	28R003S	05/12/11	ND	ND	NA	0-25	
Hydroxide (as CaCO3)	SM 2320B	28R003S	05/12/11	ND	ND	NA	0-25	
pH	SM 4500 H+ B	11-05-0805-1	05/12/11	7.19	7.21	0	0-25	
Solids, Total Suspended	SM 2540 D	11-05-0754-4	05/12/11	6920	7160	3	0-10	
Solids, Total Dissolved	SM 2540 C	28R003S	05/12/11	1840	1840	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation		Date Received:	N/A
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	N/A
		Method:	EPA 200.7

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-012-4,630	**Aqueous**	**ICP 5300**	**05/12/11**	**05/12/11**	**110512LA1**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Silicon	112	113	85-115	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation		Date Received:	N/A
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	Filtered
		Method:	EPA 200.7

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-304-20	**Aqueous**	**ICP 5300**	**05/12/11**	**05/12/11**	**110512LA1F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Silicon	112	113	85-115	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: N/A
Work Order No: 11-05-0775
Preparation: EPA 3020A Total
Method: EPA 6020

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-3,315	**Aqueous**	**ICP/MS 04**	**05/12/11**	**05/12/11**	**110512L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	97	99	80-120	73-127	2	0-20	
Arsenic	93	95	80-120	73-127	2	0-20	
Barium	83	85	80-120	73-127	2	0-20	
Beryllium	103	102	80-120	73-127	1	0-20	
Cadmium	96	99	80-120	73-127	3	0-20	
Chromium	83	84	80-120	73-127	1	0-20	
Cobalt	85	85	80-120	73-127	0	0-20	
Copper	94	96	80-120	73-127	2	0-20	
Lead	93	95	80-120	73-127	2	0-20	
Molybdenum	90	91	80-120	73-127	2	0-20	
Nickel	87	89	80-120	73-127	2	0-20	
Selenium	93	87	80-120	73-127	6	0-20	
Silver	90	92	80-120	73-127	2	0-20	
Thallium	90	90	80-120	73-127	0	0-20	
Vanadium	93	96	80-120	73-127	3	0-20	
Zinc	95	97	80-120	73-127	2	0-20	
Aluminum	94	97	80-120	73-127	3	0-20	
Calcium	105	108	80-120	73-127	3	0-20	
Iron	93	95	80-120	73-127	2	0-20	
Magnesium	93	95	80-120	73-127	2	0-20	
Manganese	85	86	80-120	73-127	2	0-20	
Potassium	101	102	80-120	73-127	2	0-20	
Sodium	84	83	80-120	73-127	1	0-20	

Total number of LCS compounds : 23
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: N/A
Work Order No: 11-05-0775
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-3,316	**Aqueous**	**ICP/MS 04**	**05/12/11**	**05/12/11**	**110512L01F**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	97	99	80-120	73-127	2	0-20	
Arsenic	93	95	80-120	73-127	2	0-20	
Barium	83	85	80-120	73-127	2	0-20	
Beryllium	103	102	80-120	73-127	1	0-20	
Cadmium	96	99	80-120	73-127	3	0-20	
Chromium	83	84	80-120	73-127	1	0-20	
Cobalt	85	85	80-120	73-127	0	0-20	
Copper	94	96	80-120	73-127	2	0-20	
Lead	93	95	80-120	73-127	2	0-20	
Molybdenum	90	91	80-120	73-127	2	0-20	
Nickel	87	89	80-120	73-127	2	0-20	
Selenium	93	87	80-120	73-127	6	0-20	
Silver	90	92	80-120	73-127	2	0-20	
Thallium	90	90	80-120	73-127	0	0-20	
Vanadium	93	96	80-120	73-127	3	0-20	
Zinc	95	97	80-120	73-127	2	0-20	
Aluminum	94	97	80-120	73-127	3	0-20	
Calcium	105	108	80-120	73-127	3	0-20	
Iron	93	95	80-120	73-127	2	0-20	
Magnesium	93	95	80-120	73-127	2	0-20	
Manganese	85	86	80-120	73-127	2	0-20	
Potassium	101	102	80-120	73-127	2	0-20	
Sodium	84	83	80-120	73-127	1	0-20	

Total number of LCS compounds : 23
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received:	N/A
Work Order No:	11-05-0775
Preparation:	EPA 7470A Total
Method:	EPA 7470A

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-5,349	**Aqueous**	**Mercury**	**05/12/11**	**05/12/11**	**110512L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	104	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received:	N/A
Work Order No:	11-05-0775
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-5,350	**Aqueous**	**Mercury**	**05/12/11**	**05/12/11**	**110512L05F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	104	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: N/A
Work Order No: 11-05-0775
Preparation: EPA 3510C
Method: EPA 8270C

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-3,144	**Aqueous**	**GC/MS P**	**05/12/11**	**05/12/11**	**110512L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	37	38	4-142	0-165	1	0-24	
2-Chlorophenol	86	85	53-113	43-123	0	0-17	
1,4-Dichlorobenzene	76	76	50-122	38-134	0	0-19	
N-Nitroso-di-n-propylamine	89	89	56-146	41-161	1	0-22	
Naphthalene	84	83	21-133	2-152	2	0-20	
4-Chloro-3-Methylphenol	86	87	55-121	44-132	2	0-18	
Dimethyl Phthalate	84	86	0-112	0-131	2	0-20	
Acenaphthylene	86	87	33-145	14-164	1	0-20	
Acenaphthene	86	89	55-139	41-153	3	0-17	
4-Nitrophenol	50	53	1-145	0-169	6	0-29	
2,4-Dinitrotoluene	83	84	41-161	21-181	1	0-22	
Fluorene	86	86	59-121	49-131	1	0-20	
Pentachlorophenol	94	91	34-130	18-146	4	0-23	
Pyrene	80	79	38-170	16-192	1	0-27	
Butyl Benzyl Phthalate	87	85	0-152	0-177	3	0-20	
1,2,4-Trichlorobenzene	83	82	49-121	37-133	1	0-19	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation		Date Received:	N/A
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 3510C
		Method:	EPA 8081A

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-446	**Aqueous**	**GC 51**	**05/12/11**	**05/12/11**	**110512L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	94	93	50-135	36-149	0	0-25	
Gamma-BHC	97	96	50-135	36-149	1	0-25	
Beta-BHC	100	98	50-135	36-149	2	0-25	
Heptachlor	91	94	50-135	36-149	3	0-25	
Delta-BHC	88	87	50-135	36-149	1	0-25	
Aldrin	85	89	50-135	36-149	4	0-25	
Heptachlor Epoxide	94	92	50-135	36-149	1	0-25	
Endosulfan I	92	91	50-135	36-149	1	0-25	
Dieldrin	99	99	50-135	36-149	0	0-25	
4,4'-DDE	97	96	50-135	36-149	0	0-25	
Endrin	102	102	50-135	36-149	1	0-25	
Endrin Aldehyde	95	97	50-135	36-149	3	0-25	
4,4'-DDD	94	93	50-135	36-149	1	0-25	
Endosulfan II	97	96	50-135	36-149	1	0-25	
4,4'-DDT	87	88	50-135	36-149	2	0-25	
Endosulfan Sulfate	91	89	50-135	36-149	2	0-25	
Methoxychlor	96	97	50-135	36-149	2	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation		Date Received:	N/A
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 3510C
		Method:	EPA 8082

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-548	**Aqueous**	**GC 58**	**05/12/11**	**05/12/11**	**110512L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	92	78	50-135	17	0-25	
Aroclor-1260	100	88	50-135	13	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation		Date Received:	N/A
4225 Executive Square, Suite 1600		Work Order No:	11-05-0775
La Jolla, CA 92037-1487		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-4,618	**Aqueous**	**GC/MS Z**	**05/12/11**	**05/12/11**	**110512L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	100	100	80-120	73-127	0	0-20	
Carbon Tetrachloride	107	106	66-138	54-150	1	0-20	
Chlorobenzene	102	102	80-120	73-127	0	0-20	
1,2-Dibromoethane	103	102	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	105	104	80-120	73-127	1	0-20	
1,2-Dichloroethane	102	102	80-129	72-137	0	0-20	
1,1-Dichloroethene	101	99	71-131	61-141	2	0-20	
Ethylbenzene	99	100	80-123	73-130	1	0-20	
Toluene	98	99	79-121	72-128	1	0-20	
Trichloroethene	101	100	80-120	73-127	2	0-20	
Vinyl Chloride	87	90	70-136	59-147	3	0-20	
Methyl-t-Butyl Ether (MTBE)	95	95	72-126	63-135	0	0-22	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037-1487

Date Received: N/A
Work Order No: 11-05-0775

Project: BSE-Rio Mesa Solar / 27651005.NOBIL

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Phosphorus, Total	SM 4500 P B/E	099-05-098-2,249	05/12/11	05/12/11	98	98	80-120	0	0-20	
Fluoride	EPA 300.0	099-12-906-1,785	N/A	05/12/11	100	99	90-110	1	0-15	
Chloride	EPA 300.0	099-12-906-1,785	N/A	05/12/11	101	101	90-110	0	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-1,785	N/A	05/12/11	101	101	90-110	0	0-15	
o-Phosphate (as P)	EPA 300.0	099-12-906-1,785	N/A	05/12/11	109	109	90-110	0	0-15	
Sulfate	EPA 300.0	099-12-906-1,785	N/A	05/12/11	101	100	90-110	0	0-15	
Cyanide, Total	SM 4500-CN E	099-05-061-3,083	05/12/11	05/12/11	82	82	80-120	1	0-20	
Carbon, Total Organic	SM 5310 D	099-05-097-4,279	N/A	05/12/11	97	98	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 11-05-0775

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

URS CORPORATION
2020 East First Street, Suite 400
Santa Ana, CA 92705
(714) 835-6886
FAX (714) 667-7147

CHAIN OF CUSTODY RECORD

Date: 5/11/11

Page 1 of 1

0775

☐ Data Requested in GISKey Format

Lab Name: Calscience
Client Name/Project Name/Location: URS/BSE/Palo Verde Mesa
URS Project Manager: Robert Scott
Sampler Name and Signature: Stavro Pilafas
URS Project/PO Number:
Geo Tracker Information:
EDF Reporting: Y N Global ID:
COELT Log Number:

Requested Analyses: Sb, Ba, Cd, Co, Pb, Mo, Se, Tl, Zn, Ag, Be, Cr, Cu, Hg, Ni, Tl, V, Al, Mn, Fe. Ca, Na, Mg, K, Fl, N, CaCO3, Cl, Total Alk, P, Hydroxide.

	Sample Name	Sample Date:	Sample Time:	Preserved:	Matrix:	Container type:	# of Cont.:	ICP/MS Metals	Metals (Lab Filtered) - Ag, V	Wet Chemistry	TDS	TSS	Phosphorous, Total	CO3 (No Headspace)	Cyanide	VOCs - 8260B	SVOCs	OCPs	PCBs	TOC	HOLD	Special Instructions:
1	28R0035	5/11/11	1908	Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	18	X	X	X	X	X	X	X	X	X	X	X	X	X		
2	TB-28R0035	5/11/11	—	Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	2									X						
3				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
4				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
5				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
6				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
7				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
8				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
9				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																
10				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA																

Relinquished By:	Date:	Received By:	Date/Time:
	5/11/11		5/11/11 2000
	5/12/11		05/12/11 0858
	05/12/11		05/12/11 0915

Turnaround Time: (Check)
Same Day: ____ 72 Hour: ____
24 Hour: ____ 5 Day: ____
48 Hour: X Standard: ____

Lab Use Only
Cooler Temperature*: ____
*Record upon arrival

URS

S=Solid L=Liquid G=Gas

White Copy in Final Report, Yellow to File, Pink to URS at Dropoff

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 11-05-0775

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: URS CORP

DATE: 05/12/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.2 °C + 0.5 °C (CF) = 2.7 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: NC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑(3)VOAh ☐VOA**na$_2$** ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☑(3)1AGB**na$_2$** ☐1AGBs

☐500AGB ☐500AGJ ☐500AGJs ☑250AGB ☐250CGB ☑(2)250CGBs ☑(3)1PB ☑500PB ☑500PBna

☑(2)250PB ☑(2)250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:** 110419A **Labeled/Checked by:** NC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** [illegible]

Preservative: h: HCL n: HNO_3 na$_2$: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** [illegible]

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CalScience Environmental Laboratories 7440 Lincoln Way Garden Grove, CA 92841	Client Project ID: #11-05-0775	Date Sampled:	05/11/11
		Date Received:	05/13/11
	Client Contact: Vik Patel	Date Reported:	05/17/11
	Client P.O.:	Date Completed:	05/17/11

WorkOrder: 1105374

May 17, 2011

Dear Vik:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#11-05-0775,**
2) A QC report for the above sample,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

1105374

Calscience Environmental Laboratories, Inc.

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

RUSH

TO: McCampbell Analytical

CHAIN OF CUSTODY RECORD

DATE: 05/12/11

PAGE: 1 OF 1

LABORATORY CLIENT: Calscience Environmental Laboratories, Inc.	CLIENT PROJECT NAME / NUMBER: 11-05-0775
ADDRESS: 7440 Lincoln Way	P.O. NO.:
CITY: Garden Grove, CA 92841-1427	PROJECT CONTACT: Vik Patel
TEL: 714/895-5494 / FAX: 714/894-7501 / E-MAIL: vipatel@calscience.com	QUOTE NO.:
	SAMPLER(S): (SIGNATURE)
	LAB USE ONLY

TURNAROUND TIME: 48hr per email
☐ SAME DAY ☒ ~~24 HR~~ ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ Standard

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

48 **24 HOUR TAT** per email

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Reactive Silica (SM 4500 SiO2)
+	28R003S		05/11/11	19:08	W	1	X

ICE / t° 3.6c
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT ___ CONTAINERS ✓
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___
PRESERVATION ___ VOAS | O&G | METALS | OTHER

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
CEL	GSO AB# 516564866	051211	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/12/11	9:24am

Custody Seals REC'D SEALED & INTACT VIA GSO 5/13/11

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1105374 **ClientCode: CSEL**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Vik Patel
CalScience Environmental Laboratori
7440 Lincoln Way
Garden Grove, CA 92841
(714) 895-5494 FAX (714) 894-7501

Email: vipatel@calscience.com
cc:
PO:
ProjectNo: #11-05-0775

Bill to:
Accounts Payable
CalScience Environmental Laborator
7440 Lincoln Way
Garden Grove, CA 92841

Requested TAT: 2 days

Date Received: 05/13/2011
Date Printed: 05/13/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1105374-001	28R003S	Water	5/11/2011 19:08	☐	A											

Test Legend:

1	REACTSI_W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **CalScience Environmental Laboratories**
Date and Time Received: **5/13/2011 9:37:46 AM**
Project Name: **#11-05-0775**
Checklist completed and reviewed by: Melissa Valles
WorkOrder N°: **1105374** Matrix Water
Carrier: Golden State Overnight

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☐	No ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	NA ☐
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 3.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CalScience Environmental Laboratories	Client Project ID: #11-05-0775	Date Sampled: 05/11/11
7440 Lincoln Way		Date Received: 05/13/11
	Client Contact: Vik Patel	Date Extracted: 05/13/11
Garden Grove, CA 92841	Client P.O.:	Date Analyzed: 05/13/11

Reactive Silica*

Analytical Method: SM4500-SiO2 D Work Order: 1105374

Lab ID	Client ID	Matrix	Reactive Silica	DF	Comments
1105374-001A	28R003S	W	30	10	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.05 mg/L	
	S	NA	

*water samples are reported in mg/L.

DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SM4500-SiO2 D

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58332 WorkOrder 1105374

EPA Method SM4500-SiO2 D **Extraction SM4500-SiO2 D** **Spiked Sample ID: 1105374-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Reactive Silica	30	1	NR	NR	NR	98.2	95.7	2.58	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 58332 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1105374-001A	05/11/11 7:08 PM	05/13/11	05/13/11 12:06 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

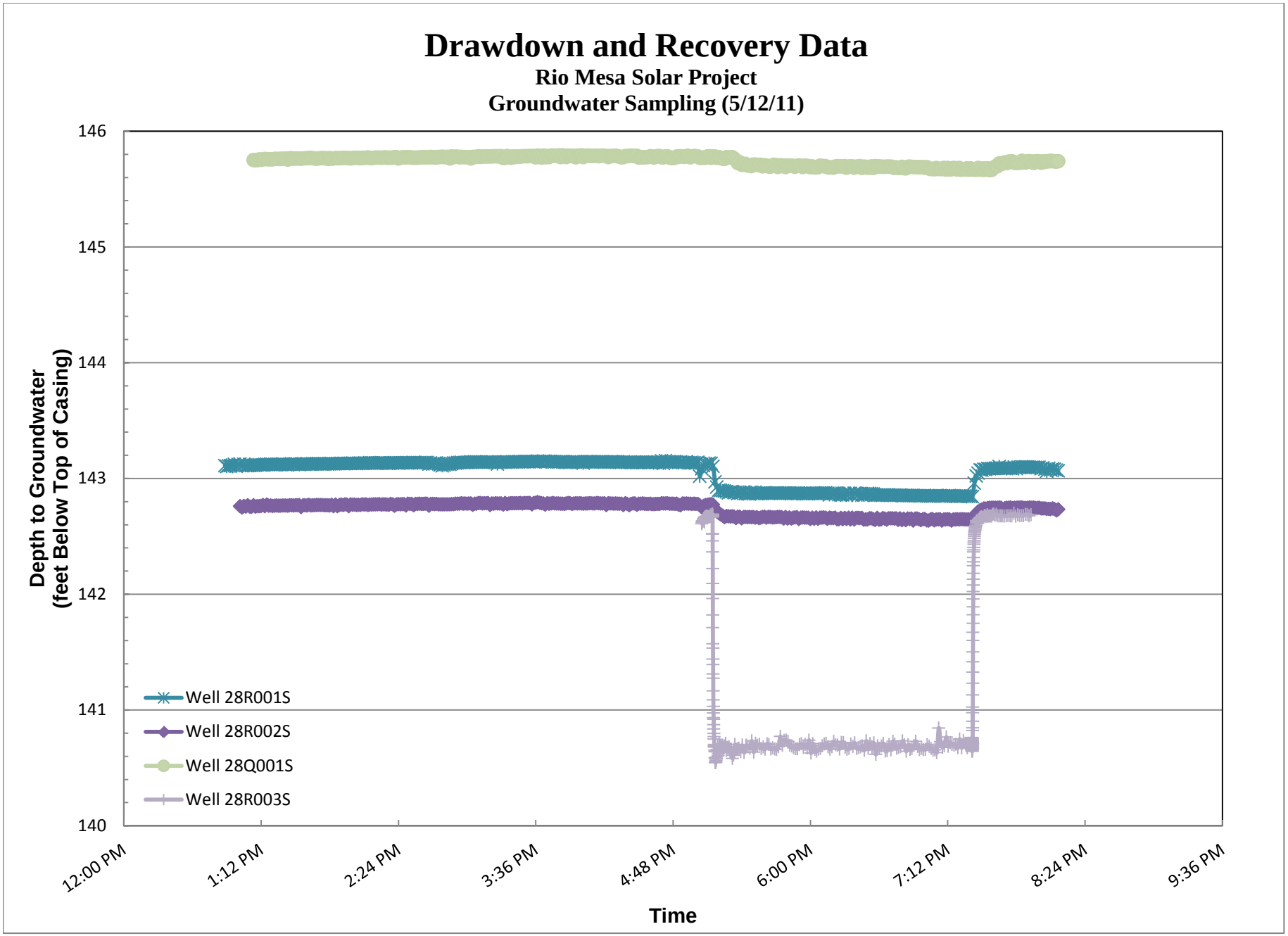
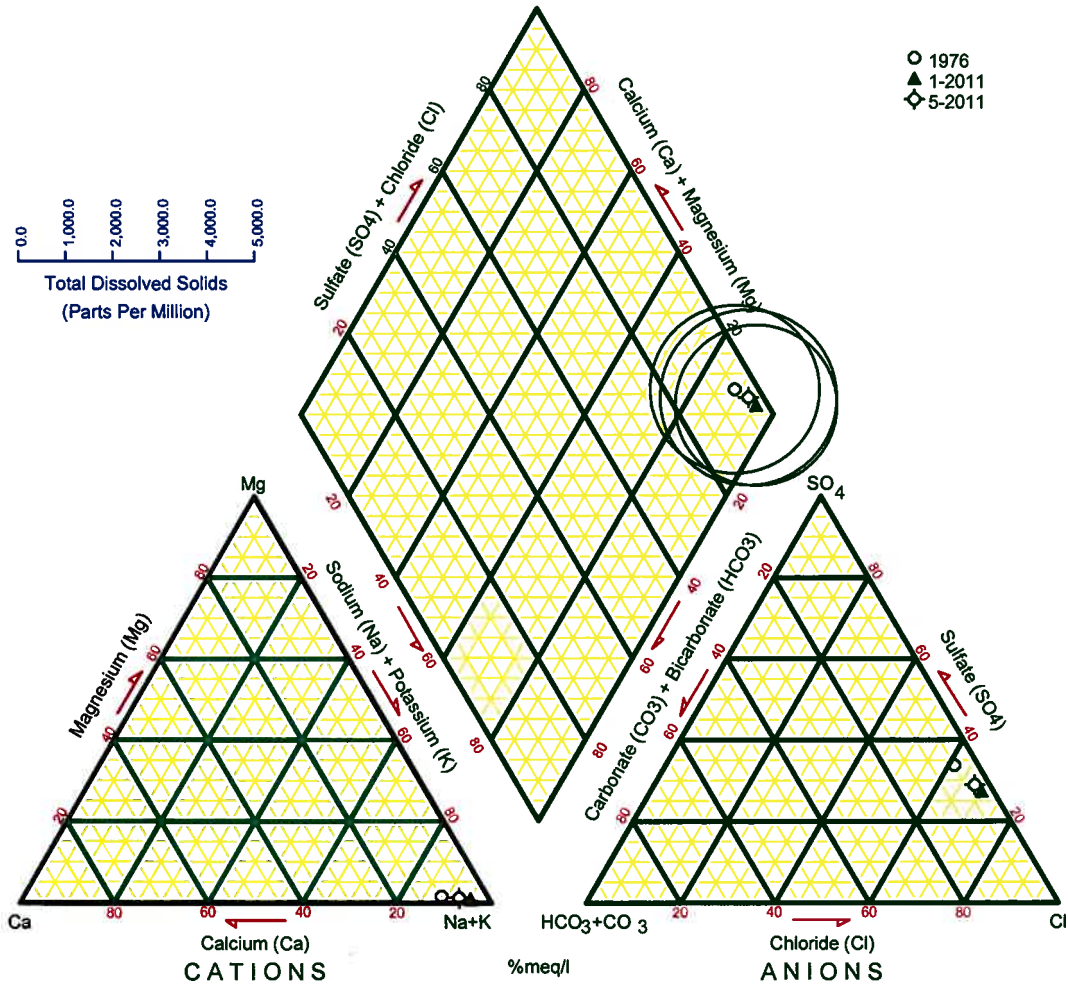
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

JR QA/QC Officer


Drawdown and Recovery Data
Rio Mesa Solar Project
Groundwater Sampling (5/12/11)
Depth to Groundwater
(feet Below Top of Casing)
146
145
144
143
142
141
140
Well 28R001S
Well 28R002S
Well 28Q001S
Well 28R003S
12:00 PM
1:12 PM
2:24 PM
3:36 PM
4:48 PM
6:00 PM
7:12 PM
8:24 PM
9:36 PM
Time

Piper Diagram