URS

| DOCKET 08-AFC-5 | |
|---|---|
| DATE | June 12 2009 |
| RECD. | June 15 2009 |

June 12, 2009

Mr. Christopher Meyer
Project Manager
Attn: Docket No. 08-AFC-5
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512

Subject: SES Solar Two (08-AFC-5)
Supplement to Application for Certification
URS Project No. 27657102.00900

Dear Mr. Meyer:

On behalf of SES Solar Two, LLC, URS Corporation Americas (URS) hereby submits the Supplement to the Solar Two Application for Certification (08-AFC-5).

I certify under penalty of perjury that the foregoing is true, correct, and complete to the best of my knowledge. I also certify that I am authorized to submit the transcript on behalf of SES Solar Two, LLC.

Sincerely,

Angela Leiba
Project Manager

AL:ml

PROOF OF SERVICE ( REVISED 5/26/09 ) FILED WITH
ORIGINAL MAILED FROM SACRAMENTO ON 6/15/09
MF

URS Corporation
1615 Murray Canyon Road, Suite 1000
San Diego, CA 92108
Tel: 619.294.9400
Fax: 619.293.7920

W:\27657102\00900-d-l.doc\11-Jun-09\SDG

**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA**
**1516 NINTH STREET, SACRAMENTO, CA 95814**
**1-800-822-6228 – WWW.ENERGY.CA.GOV**

**APPLICATION FOR CERTIFICATION**
***For the SES SOLAR TWO PROJECT***

**Docket No. 08-AFC-5**

**PROOF OF SERVICE**
**(Revised 5/26/09)**

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## DECLARATION OF SERVICE

I, Mineka Foggie, declare that June 15, 2009, I served and filed copies of the attached Supplement to SES Solar Two Application for Certification., dated June 12 ,2009 The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:
[www.energy.ca.gov/sitingcases/solartwo]. The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(*Check all that Apply*)

### FOR SERVICE TO ALL OTHER PARTIES:

__X__ sent electronically to all email addresses on the Proof of Service list;

__X__ by personal delivery or by depositing in the United States mail at _____ _____ with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses NOT marked "email preferred."

*AND*

### FOR FILING WITH THE ENERGY COMMISSION:

__X__ sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (***preferred method***);

*OR*

____ depositing in the mail an original and 12 paper copies, as follows:

0BCALIFORNIA ENERGY COMMISSION
Attn: Docket No. _____
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512

docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.

Original Signature in Dockets
MINEKA FOGGIE

# Supplement to SES Solar Two Application for Certification

## Application for Certification (08-AFC-5)

SES Solar Two, LLC

**Submitted to:**
**Bureau of Land Management**
1661 S. 4th Street, El Centro, CA 92243

**Submitted to:**
**California Energy Commission**
1516 9th Street , MS 15, Sacramento, CA 95814-5504

**Submitted by:**
**SES Solar Two, LLC**
2920 E. Camelback Road, Suite 150, Phoenix, AZ 85016

URS

With Support From:
URS Corporation

**June 2009**

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# TABLE OF CONTENTS

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## Tables



## Figures

## Appendices

| | |
|---|---|
| AFC | Application for Certification |
| CEC | California Energy Commission |
| BLM | Bureau of Land Management |
| IID | Imperial Irrigation District |
| SES | Stirling Energy Systems Solar Two, LLC |
| SWWTF | Seeley Waste Water Treatment Facility |
| SCWD | Seeley County Water District |
| gpm | gallons per minute |
| gpd | gallons per day |
| afy | acre feet per year |
| NPDES | National Pollutant Discharge Elimination System |
| UV | ultraviolet |
| ROW | Right-of-Way |
| PCU | Power Conversion Unit |
| SCFH | Standard cubic feet of hydrogen |
| Scf | Standard cubic feet |
| kW | Kilowatt |
| Mw | Megawatt |
| Psig | Pounds per square inch gauge |
| LORS | Laws, Ordinances, Regulations and Standards |
| CalARP | California Accidental Release Prevention |
| CFR | Code of Federal Regulations |
| Lbs | Pounds |
| RMP | Risk Management Plan |
| OCA | Off-site consequence analysis |
| Psi | Pounds per square inch |
| EPA | Environmental Protection Agency |
| Mj | Millijoule |
| m/s | Meter per second |
| URS | URS Corporation Americas |
| NOAA | National Oceanic & Atmospheric Administration |
| NEPA | National Environmental Protection Act |
| CEQA | California Environmental Quality Act |
| FEMA | Federal Emergency Management Agency |
| FIRM | Floor Insurance Rate Map |
| Cfs | Cubic feet per second |
| CURE | California Unions for Reliable Energy |
| ROE | Right of Entry |
| NRHP | National Register of Historic Places |
| CRHR | California Register of Historic Resources |
| Dba | Decibels |
| HRA | Health Risk Assessment |
| TAC | Toxic Air Contaminants |
| GISO | General Industry Safety Orders |
| CSO | Construction Safety Orders |
| ESO | Electrical Safety Orders |

# SECTION 1 SUPPLEMENTAL PROJECT DESCRIPTION

## 1.1 INTRODUCTION

SES Solar Two, LLC (SES or Applicant) filed an Application for Certification (AFC) with the California Energy Commission (CEC) and Bureau of Land Management (BLM) for its proposed SES Solar Two Project (Solar Two or Project) in June 30, 2008. The Application was deemed adequate on October 8, 2008. Since then, the Applicant has continued to work with agencies and the public to assess potential Project improvements. This Supplement to the Project AFC includes proposed changes to the Project and its ancillary systems, which were originally described in Section 3.0, Facility Description and Location, of the Project AFC. This Supplement to the Project AFC also provides an environmental assessment of the environmental impacts resulting from the proposed Project changes.

## 1.2 SEELEY WASTE WATER TREATMENT FACILITY

### 1.2.1 Background

According to the original AFC filing, the Imperial Irrigation District (IID) would provide the water supply for the project from its Westside Main Canal raw canal water, which was to be treated to provide an appropriate quality of water for mirror washing and to meet the standards for on-site drinking water (Figure 1-1). The applicant estimated that approximately 33 acre-feet of water would be used annually for mirror washing and domestic use. There were no provisions in the AFC for a backup water supply.

In the first set of data requests, the CEC and BLM asked the Applicant for additional information on the reliability of the Solar Two water supply from IID and the source of back-up water in the event that there are future interruptions in primary water. In considering the responses to these questions, an in-depth evaluation of the Solar Two water supply options in terms of reliability, cost, and environmental impact was performed. After extensive research, Solar Two provides this supplement to present findings and to report to CEC and BLM the Applicant's new primary source of water: reclaimed water from the Seeley Waste Water Treatment Facility (SWWTF).

#### *1.2.1.1 Overview of Research Performed*

For this evaluation, SES considered five supply options:

- IID (surface water)
- Palo Verde Water District (surface water)
- Imperial Valley Groundwater Basin (ground water)
- El Centro Waste Water Treatment Plant (reclaimed water)
- SWWTF (reclaimed water)

These options are described below.

**IID** – The Applicant submitted the Project AFC with a letter of intent from IID to provide water to the project. After receiving the letter, SES eliminated the eastern portion of the site from development because of the presence of significant environmentally-sensitive resources. As a result of this action, the Solar Two site was no longer within the District boundaries and IID subsequently determined that it was not able to serve the project. This option is no longer available.

**Palo Verde Water District** - The Palo Verde Water District expressed possible interest in providing water to the project. The source of the water would be from the Colorado River and delivered to the project site through existing canals and through a new pipeline. Transport of the water would require wheeling agreements with two other water districts. All of the water used by the Solar Two project would have been fully offset. This water would, however, be delivered outside of the District's boundaries and result in the same service complications as experienced with IID. It would further raise concerns regarding conformance with the CEC's water policy. This option was not explored further.

**Imperial Valley Ground Water** – As discussed in Section 5.5, Water Resources, of the AFC (page 5.5-2), the Imperial Valley Ground Water Basin underlies the eastern portion of the project site. This water has high concentrations of total dissolved solids and is considered unsuitable for domestic or irrigation use without treatment.

In December 2008, SES drilled a 300-foot deep test well on the site to determine the availability and quality of ground water. The well produced water at a flow rate of about 3 gallons per minute and concentrations of total dissolved solids ranging from approximately 17,000 to 20,000 ppm. It would need to provide approximately 23 gallons of water per minute (gpm) to meet the needs of the project during operation. A minimum of four wells would need to be drilled approximately 500 to 550 feet deep. The ground water would need to be treated to produce water of sufficient quality for normal operational activities including mirror washing.

By itself, ground water from this source would be insufficient to meet construction water requirements. If water from the Imperial Valley Groundwater Basin were used for the project, bottled water would be brought in for human consumption.

Although this water source is located on site, it represents a number of concerns including the adequacy of supply to meet construction needs and cost of treatment and disposal because of its low quality. It could serve as an emergency back-up supply if required in the future but will not be considered further as an option at this time.

**El Centro Wastewater Treatment Plant** – The El Centro Wastewater Treatment Plant is located at 2255 La Brucherie Road in El Centro. It is operated by the Public Works Department of the City of El Centro and is approximately 20 miles east of the project site. Preliminary discussions with the Public Works Department indicated they were willing to provide water to the project. Its location, however, would require construction of a pipeline approximately 27 miles to the proposed project area or use of trucks.

**SWWTF** – The SWWTF is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the project site. It is operated by the Seeley County Water District (SCWD) and is designed

to produce secondary treated water at the rate of 200,000 gallons per day (gpd) (139 gpm or 224 acre feet per year [afy]).

According to the current National Pollutant Discharge Elimination System (NPDES) Permit:

> The treatment system consists of a lift station, a drum screen, a bar screen, a "Clemson" aerated pond treatment system with surface aerators, pressure sand filters, and an ultraviolet (UV) disinfection system. The facility's "Clemson" system consists of five aerated ponds operated in series.
>
> Bio-solids are removed by draining the last two ponds, removing the sludge and storing it in the out of service treatment ponds of the replaced treatment system, prior to removal.
>
> Wastewater is discharged from Discharge Point 001 (see table on cover page) to the New River, a water of the United States, tributary to the Salton Sea, and within the Salton Sea Transboundary Watershed." (Waste Discharge Requirements For The Seeley County Water District, Seeley County Wastewater Treatment Plant, California Regional Water Quality Control Board, Colorado River Basin Region, 2007).

Under this option, the Applicant would finance an upgrade to the existing facility to allow it to meet Title 22 water quality standards and would fund the training of operators for the new facility. The SCWD would provide as much treated effluent water as needed to SES. The current influent flow rate is approximately 150,000 gpd, or 168 afy. Improvements to the treatment facility would increase the Title 22 effluent capacity to 250,000 gpd. Any surplus water, not needed by SES, will be used by SCWD for irrigation or discharged into the New River.

According to David Dale, engineer to the Seeley County Water District (March 9, 2009), the treatment facility has been very reliable and discharges about 150,000 gpd of reclaimed water regardless of water supply conditions in the area. The discharge rate is based on the population of the service area, not the annual rain fall.

A summary and comparison of these water supply options is shown in Table 1-1 presented below.

**Table 1-1**
**Project Water Supply Options**

| Option | Description | Type and Amount Available | Reliability of Supply | Environ. Concerns | Comment |
|---|---|---|---|---|---|
| Imperial Irrigation District | | Fresh water | | Conflict with CEC water policy, would be fully mitigated | No longer available because project is located outside district boundaries. |
| Palo Verde Water District | Water from Colorado River wheeled to area and piped to site | Fresh water | Reliable supply but would require transport through facilities owned by other water districts | Conflict with CEC water policy, would need to be fully mitigated | Option eliminated because of challenges associated with transport through facilities owned by multiple water districts |
| Imperial Valley Ground-water Basin | Four wells located on eastern portion of project site | Poor quality ground water; estimated flow of 23 gpm with four wells | Not sufficient supply to meet construction needs; sufficient flow to serve as back-up during operation; further assessment required | Potential impacts from evaporation pond; mitigate with pond design and screening | Eliminated as primary option because of cost associated with water treatment and low flow rates. Possible back-up supply during operation |
| El Centro Waste-water Treatment Plant | Requires trucking to site or about an 20 mile pipeline | Reclaimed water | Reliable | Consistent with CEC water policy; Air emissions associated with trucking water to the site | El Centro Waste-water Treatment Plant |
| Seeley Waste-water Treatment Plant | Upgrade existing treatment facility; pipe water about 13 miles to project site along Evan Hewes Highway; unneeded water discharged as before | Reclaimed water | Reliable | Consistent with CEC water policy; beneficial impact from improved discharge water quality; minimal Impacts associated with pipeline construction | New preferred construction and operation supply |

### 1.2.2 Seeley Waste Water Treatment Facility Overview

After evaluating the currently available water supply options, SES has concluded that the primary source of water for the Project will be furnished by the SWWTF. SES will finance upgrades to the existing treatment plant so its effluent meets Title 22 requirements for recycled water. In exchange SES will have access to at least approximately 150,000 gallons and up to 200,000 gallons of reclaimed water per day for use in all construction and operation activities except for potable water.

SCWD serves customers in the town of Seeley, which is located in the unincorporated area of Imperial County, California, with certain utility services, including, without limitation, sewage collection and treatment services. Currently, sewage collected in Seeley's system is treated and, thereafter, flows into the New River.

SCWD has agreed to provide reclaimed water to SES Solar Two (See Attachment A – Will Serve Letter and the response to Data Requests 37 and 38). An agreement between SCWD and SES Solar Two, LLC was signed at the Seeley Board Meeting scheduled for May 18, 2009. As a result of the terms of this Agreement, Seeley's sewage treatment facilities will be upgraded to treat 250,000 gpd and 200,000 gpd of treated effluent (Title 22 water) will be made available to SES (Figure 1-2). This effluent level reflects SCWD's future influent levels expected due to population growth and will be provided to SES if requested.

The SWCD and SES have identified an engineer, Dudek, to design the upgrade at the treatment plant. Dudek will complete the necessary upgrades for the treatment plant to make it possible for them to supply up to 200,000 gpd of treated effluent. Seeley County Water District and the SES will bid the design improvements for completion in March 2010.

To access the water, the SES will construct approximately 12 miles of pipeline from the Seeley facility to the SES water treatment plant along the Evan Hewes Highway. Please see Appendix A for a list of property owners within 500 feet of the new waterline alignment. This pipeline will be buried within the right-of-way (ROW) of Evan Hewes Highway approximately 30" below the existing grade. The line will enter the SES property approximately 1000 yards east of Plaster City and then run due south to the Raw Water Storage Tank. The water treatment plant, mainly a reverse osmosis system, will be the same as shown on the recently filed documents.

Please see Appendix B, Water Characteristics at the Seeley Waste Water Treatment Facility for detailed descriptions of the water characteristics.

SES has had conversations with Michael D. Cooke of the Imperial County Department of Public Works and Andy Horne with the Imperial County Commissioners Office to discuss the proposed use of the Evan Hewes Highway ROW for the new waterline installation. No concerns have been raised by the Imperial County for our proposed use. This will be included in the CEC Certification of Construction along with the required permits.

The project will obtain this treated water to provide an appropriate quantity of water for mirror washing. The applicant estimates that 33 acre-feet of water will be used annually for mirror washing and domestic use. Potable water to meet plant requirements will be delivered by truck and stored in a 5000 gallon tank

in the water treatment area (Figures 1-3 through 1-6). This tank will be able to provide all required potable water for the operating facility for 2-3 days at which time it will need to be replenished.

Concerning water supply reliability, there is no backup water supply for the project. As stated previously, the current influent rate to the Seeley Wastewater Treatment Plant is about 150,000 gpd (104 gpm or 168 afy), which is much higher than the anticipated project operations phase water demand of approximately 23 gpm daily average, 39 gpm daily maximum, and 33 afy. The proposed Seeley Wastewater Treatment Plant upgrades along with a newly constructed pipe delivery system from Seeley to the project and proposed onsite storage will be adequate to provide a reliable source of water for the project. There are not expected to be any reduction or temporary interruptions of water from the Seeley Wastewater Treatment Plant. If an unforeseen interruption were to occur, SES would temporarily suspend mirror washing operations.

## 1.3 DISTRIBUTED HYDROGEN SYSTEM

### 1.3.1 Background

The Project described the hydrogen use, supply and storage in the AFC, filed June 30, 2008. The hydrogen system was described as a k-bottle of hydrogen on each Power Conversion Unit (PCU). One hydrogen gas cylinder would contain approximately 195 cubic feet of hydrogen, used to replenish lost hydrogen gas within the gas circuit. Each k-bottle was to be supported from the base of the PCU boom. Each PCU's k-bottle would either need to be removed and replaced or refilled at each dish site as required (approximately two times per year). SES has reconsidered the plan for providing hydrogen to the PCUs and has adopted a hydrogen gas supply, storage and distribution system (Figure 1-7).

### 1.3.2 Distributed Hydrogen System Overview

The hydrogen gas supply will be produced through electrolysis by one hydrogen generator. It is important to note that the hydrogen will not be generated from natural gas. The generator is capable of producing 1065 standard cubic feet of hydrogen per hour (scfh) and requires 146 watts/scf of electricity and 2.58 cubic inches of water/scf/hour during operation. Approximately 184 gallons of water per day or 0.0133 acre feet per year will be required for this generator. Reclaimed water will be obtained from the Seeley County Water District, processed through the on site Water Treatment Plant to produce Demineralized Water and fed to the electrolyzer mounted on the hydrogen generator skid. The electrolyzer will eliminate any final impurities in the water prior to processing (Figure 1-8).

The annual power consumption to meet the hydrogen production needs is 100KWper day, or 36.64 MW per year. Although the hydrogen generator could run full time if needed to support SunCatcher hydrogen requirements, the generator will normally be operated at off-peak electric hours using grid power.

The hydrogen gas will be stored in a steel storage tank capable of storing approximately two days supply of hydrogen gas. It will be piped through a 1.5-inch stainless steel piping system to 87 individual compressor groups. Each compressor group will be electrically operated and consist of a compressor, delivering gas at approximately 2,900 psig, and a high pressure supply tank (Figure 1-9).

Initially, it will take 3.4 scf of hydrogen to charge the Stirling engine. Each Power Conversion Unit is estimated to lose about 200 scf per year. Each high pressure supply tank will supply hydrogen gas to 360 SunCatchers via a 0.25-inch stainless tubing. A low pressure dump tank will be installed with each compressor group utilizing a 0.25-inch stainless steel return line to recover hydrogen gas when the SunCatchers are not in-service. This will reduce hydrogen leaks through fittings and seals on the Stirling Engine. In the event that the hydrogen generator fails, an unloading station designed to receive and transfer hydrogen gas to the storage tank will be installed to allow for the delivery of hydrogen gas to the site by an outside supplier. The hydrogen gas storage tank will provide a few days of hydrogen supply as a back-up system. SES will complete all scheduled maintenance to the hydrogen generator, when the gas supply is adequate.


Plaster City

Evan Hewes Highway

Dunaway Rd.

Proposed Waterline (approximately 12 miles)

Union Pacific Railroad (UPRR)

Previous Waterline (7.17 miles)

Proposed Main Access Road

Proposed Main Access Road

N.A.P.

N.A.P.

Phase II
450 MW

Main Services Complex (24.27 acres)

Laydown Area (11.04 acres)

Phase I
300 MW

25-Acre Staging Area

100-Acre Laydown Area

IID Westside Main Canal

Proposed 750-MW Substation (6.00 acres)

Existing SDG&E Southwest Powerlink Transmission Line

Proposed 750-MW/230-kV Transmission Line (10.30 miles)

Existing SDG&E Imperial Valley Substation

## LEGEND

- Project Boundary (6,176.65 acres)
- N.A.P. Not A Part (Owned by Others)
- 300-MW Solar Field (2,577.00 acres)
- 450-MW Solar Field (3,497.47 acres)
- Staging Area
- Laydown Area
- Proposed Substation and Main Services Complex
- Existing SDG&E Imperial Valley Substation
- Existing Transmission Line
- Proposed 750-MW/230-kV Transmission Line (10.30 miles)
- Proposed Waterline (approximately 12 miles)
- Previous Waterline (7.17 miles)
- Proposed Main Access Road
- Union Pacific Railroad (UPRR)

Bureau of Land Management

- Off-Highway Vehicle (OHV) Area - closed
- Off-Highway Vehicle (OHV) Area - open
- BLM-Administered Public Lands

SOURCES: SDG&E (existing t-line 2006); Stantec (proposed project features, BLM-managed lands 2008); USGS TOPO! (24K topo, various dates).

# TOPOGRAPHIC SITE PLAN
# SOLAR TWO PROJECT

URS

0.5 0 0.5 1 Miles

SCALE: 1" = 1 Miles (1:63,360)
SCALE CORRECT WHEN PRINTED AT 11X17

| CREATED BY: CL | DATE: 06-09-09 | FIG. NO: 1-1 |
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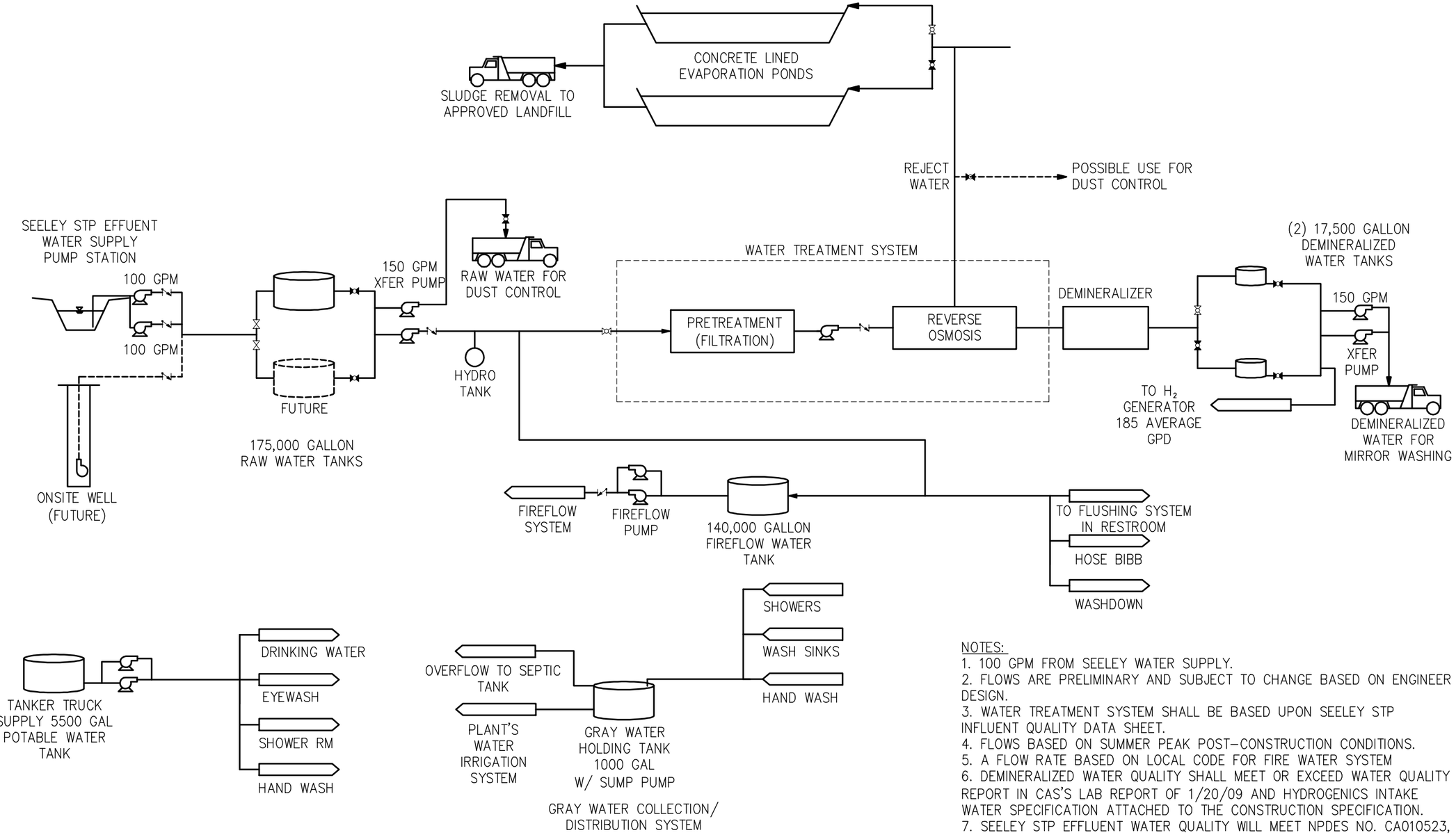



NOTES:

1. 100 GPM FROM SEELEY WATER SUPPLY.
2. FLOWS ARE PRELIMINARY AND SUBJECT TO CHANGE BASED ON ENGINEER DESIGN.
3. WATER TREATMENT SYSTEM SHALL BE BASED UPON SEELEY STP INFLUENT QUALITY DATA SHEET.
4. FLOWS BASED ON SUMMER PEAK POST-CONSTRUCTION CONDITIONS.
5. A FLOW RATE BASED ON LOCAL CODE FOR FIRE WATER SYSTEM
6. DEMINERALIZED WATER QUALITY SHALL MEET OR EXCEED WATER QUALITY REPORT IN CAS'S LAB REPORT OF 1/20/09 AND HYDROGENICS INTAKE WATER SPECIFICATION ATTACHED TO THE CONSTRUCTION SPECIFICATION.
7. SEELEY STP EFFLUENT WATER QUALITY WILL MEET NPDES NO. CA010523, AS PER ATTACHMENT TO THE CONSTRUCTION SPECIFICATION.

**REFERENCE ONLY**

| NO. | DATE | | BY | APP. |
|---|---|---|---|---|
| A | 03.11.09 | ISSUED FOR BIDS | GL | MZA |

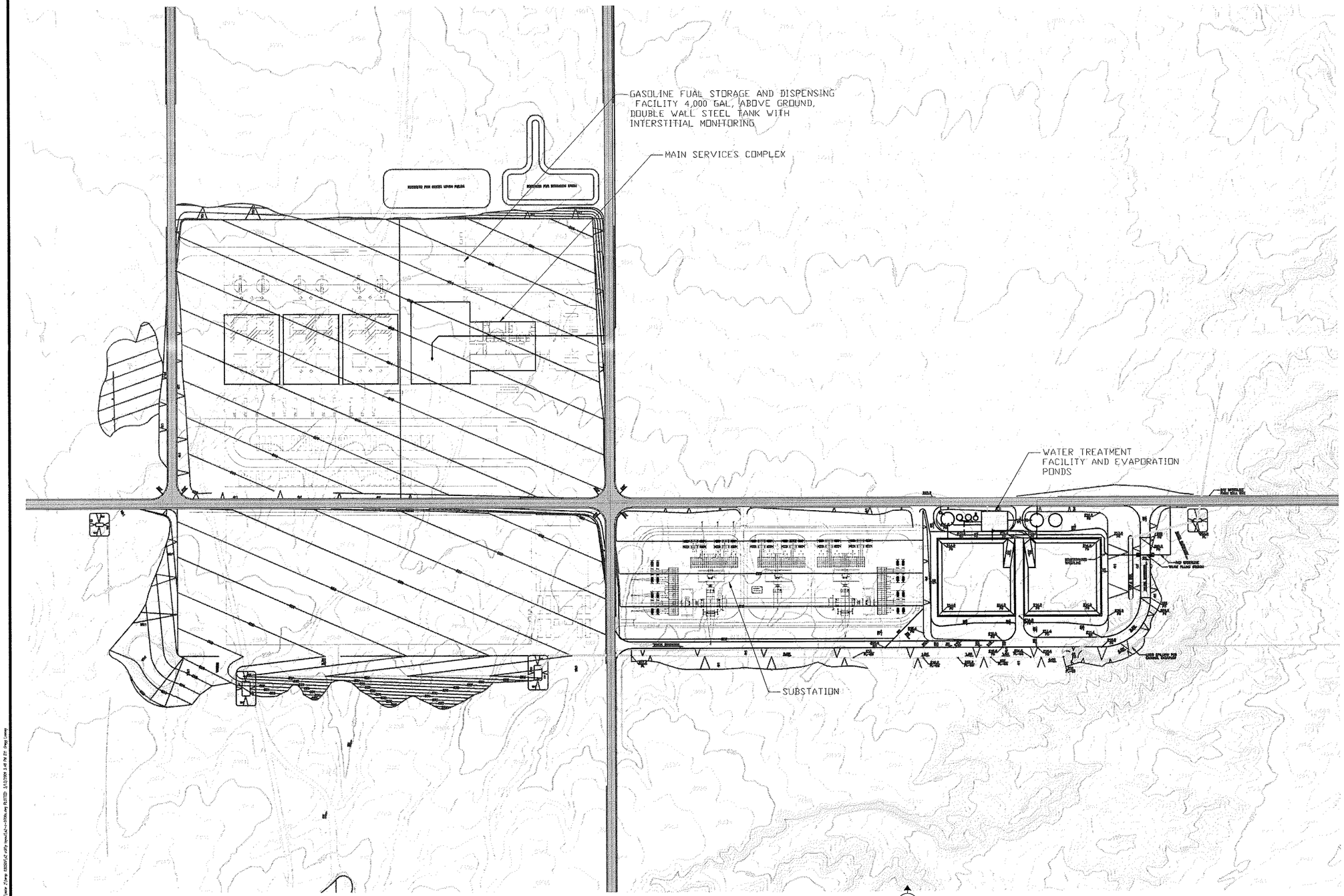
DRN. SLC | DES. NA | CHK. NA | DATE 08.12.19
SCALE AS SHOWN | APP. | DATE —

Stirling Energy Systems

PROJECT: 2000 026801

Figure 1-2
Water System Flow Sheet

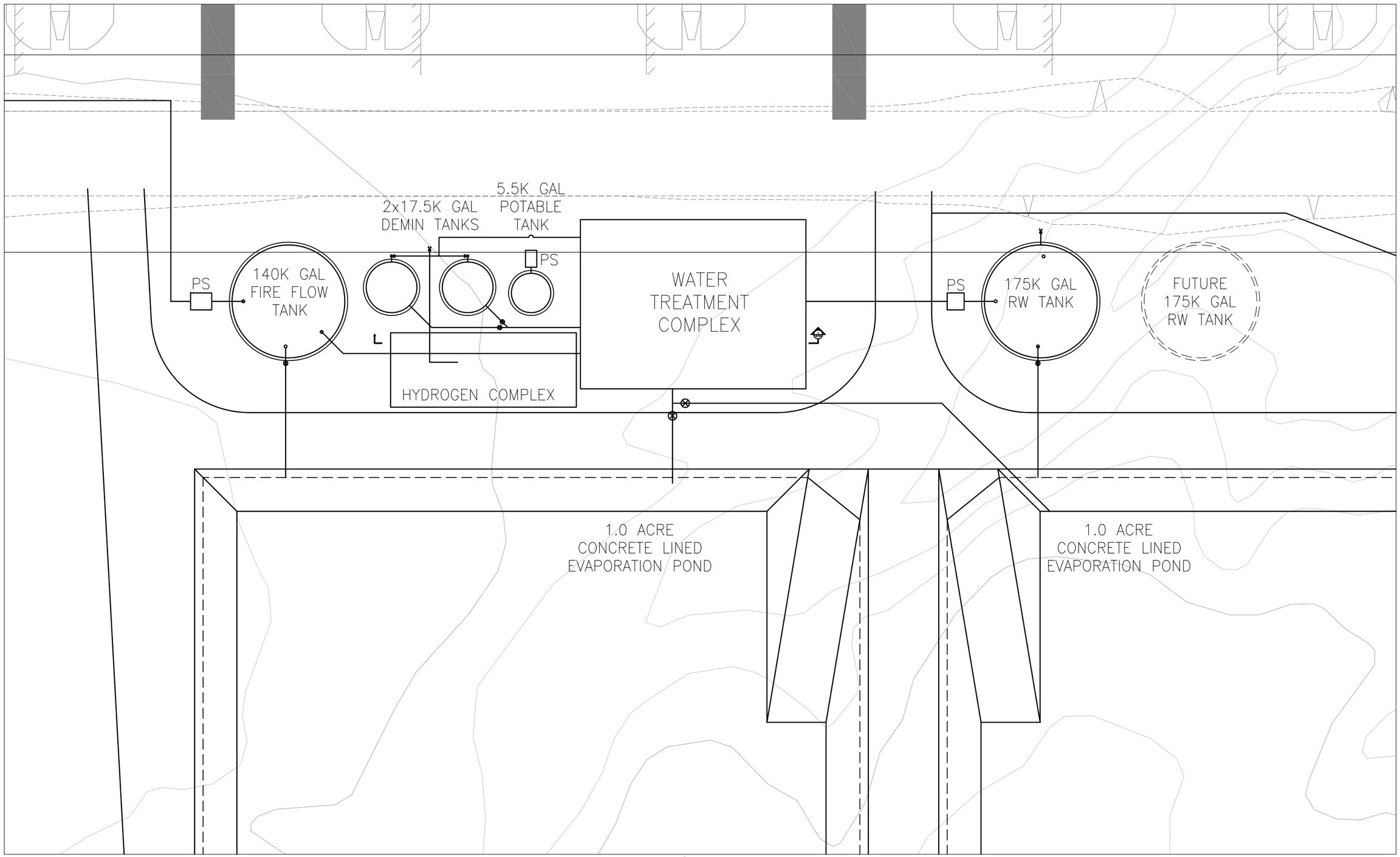
S2-G-0708 | SHT. 1 of 1 | REV. A




# REFERENCE ONLY

Figure 1-3
Water Treatment Facility Layout

PROJECT: SC-C-0700A
SHT 1 OF 1
REV.




PRELIMINARY

# REFERENCE ONLY

N

0 30' 45' 60'
1"=30'

| NO. | DATE | | BY | APP. |
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DRN. DMH DES. NA CHK. NA DATE 08.12.19
SCALE AS SHOWN APP. DATE –

Stirling Energy Systems

PROJECT: 2000 026801

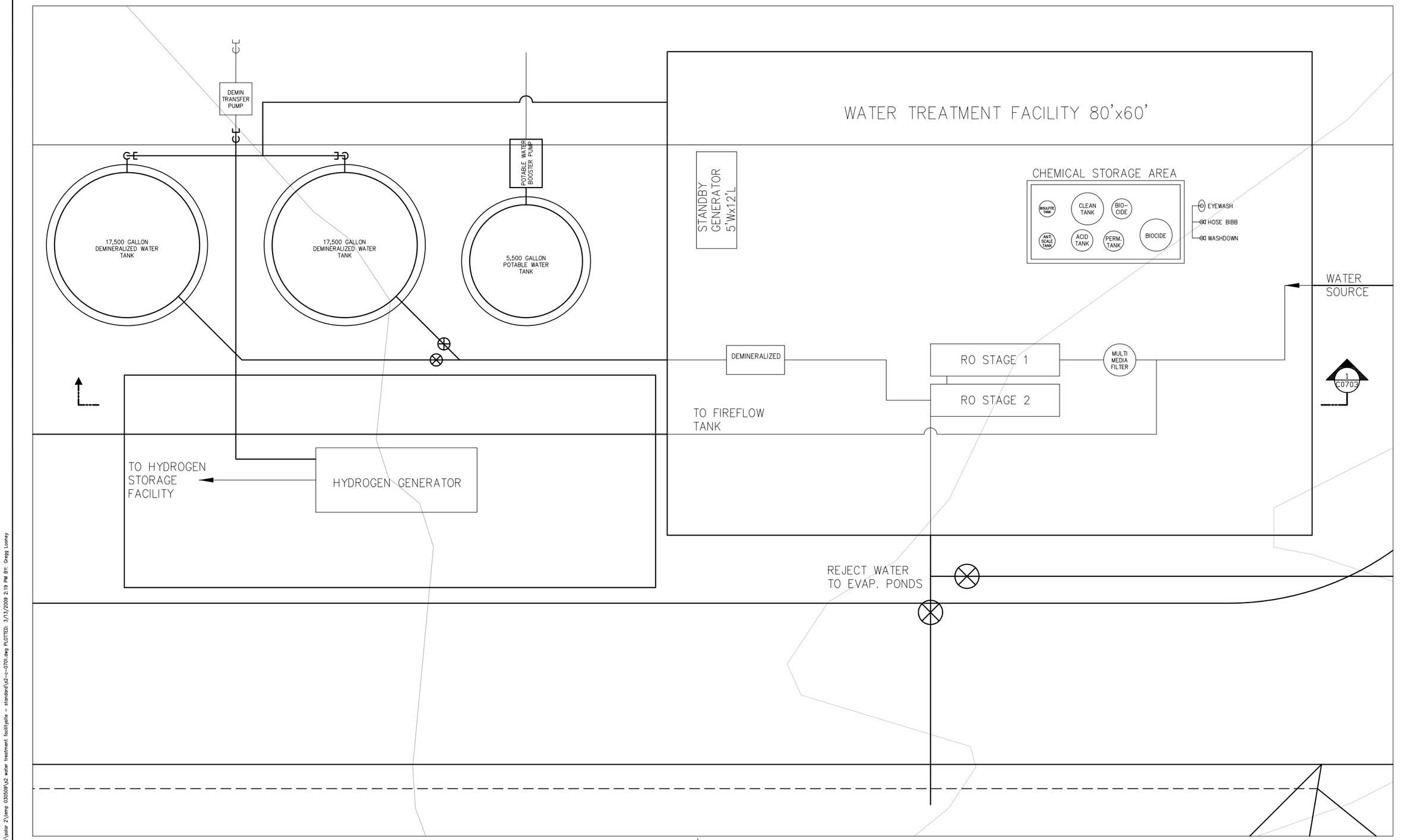
Figure 1-4
Water Treatment Facility
Site Plan

S2-C-0701

SHT. 1 of 1

REV. A

DRAWING: m:\departments\epc\solar 2\temp 030509\s2 water treatment facilitysite - standard\s2-c-0701.dwg PLOTTED: 3/13/2009 2:20 PM BY: Gregg Looney




# REFERENCE ONLY

N

1"=5' 0 5' 7'6" 10'

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DRN. DMH DES. NA CHK. NA DATE 08.12.19
SCALE AS SHOWN APP. DATE –

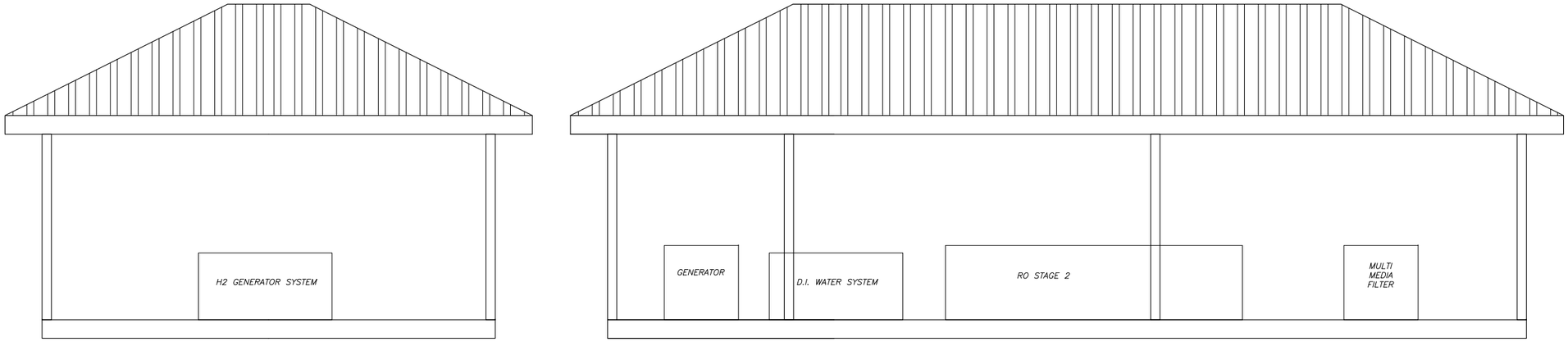
PROJECT: 2000 026801

Stirling Energy Systems

Figure 1-5
Water Treatment Facility
Site Plan-Enlarged

S2–C–0702 SHT. 1 of 1 REV.

DRAWING: m:\departments\vpc\solar 2\temp 030509\s2 water treatment facilityelle – standard\s2–c–0701.dwg PLOTTED: 3/13/2009 2:19 PM BY: Gregg Looney




1 C0702 WATER TREATMENT FACILITY – SECTION
SCALE: 1" = 3'

# REFERENCE ONLY

0 1" 1.5" 2"
1"=1

| NO. | DATE | | BY | APP. |
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| B | 03.12.09 | ISSUED FOR BIDS | GL | MZA |

DRN. DMH DES. NA CHK. NA DATE 08.12.19
SCALE AS SHOWN APP. DATE –

Stirling Energy Systems

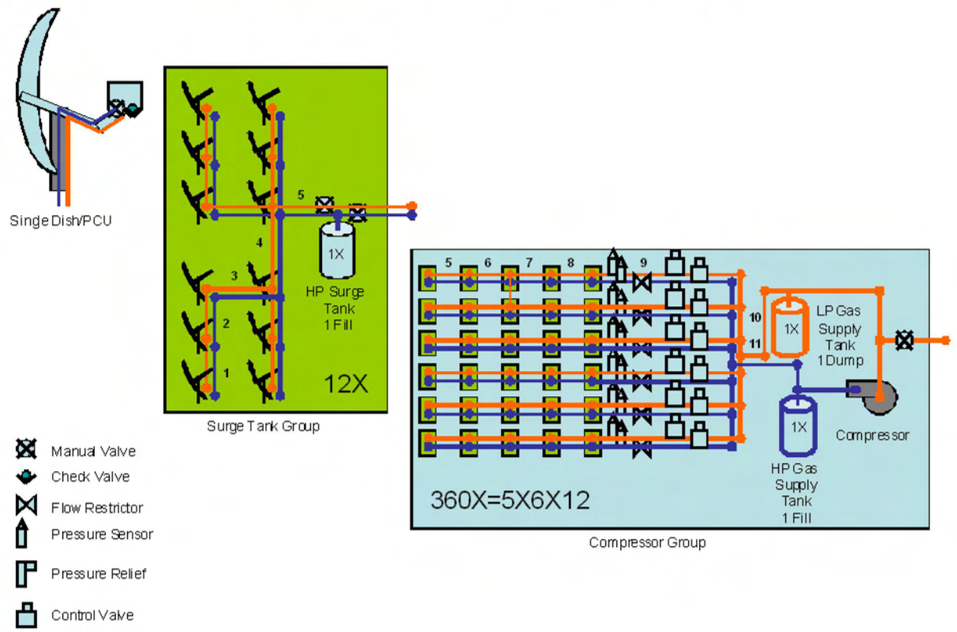
PROJECT: 2000 026801

Figure 1-6
Water Treatment Facility
Proposed Sections

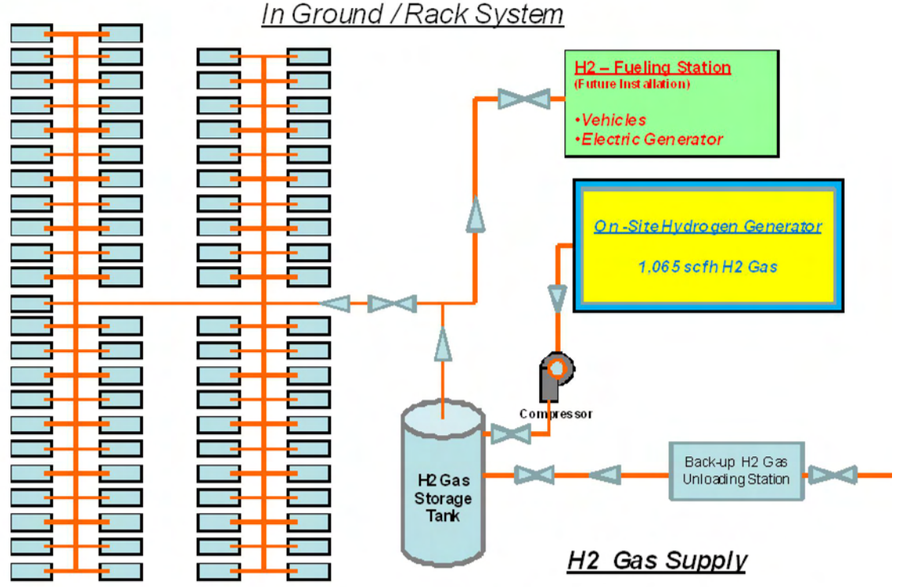
S2-C-0703 SHT. 1 of 1 REV. A

DRAWING: m:\departments\epc\solar 2\temp 030509\s2 water treatment facility\site-sections - standard\s2-c-0703.dwg PLOTTED: 3/13/2009 2:27 PM BY: Gregg Lowney

In Ground Hydrogen System
Surge Tank Groups and Compressor Groups




*Hydrogen Gas Supply & Distribution*
*In Ground / Rack System*




**87 Compressor Groups for the whole site**

***H2 Distribution***

***H2 Gas Supply***

1. H2 gas storage tank approximately two day supply, 33,000 scf capacity.
2. Estimated H2 loss is about 195 scf/ PCU /year, or 6.08 Mscf/ year

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Stirling Energy Systems

PROJECT: 2000026801 | CAD FILE: S2-C-0712.dwg | SHEET SIZE: Arch D (24x36) | DWG: **S2-C-0712** | SHT. 1 | REV. A

Figure 1-7
Hydrogen Gas Supply
& Distribution

GASOLINE FUEL STORAGE AND DISPENSING FACILITY 4,000 GAL, ABOVE GROUND, DOUBLE WALL STEEL TANK WITH INTERSTITIAL MONITORING

MAIN SERVICES COMPLEX

HYDROGEN SUPPLY PIPING TO COMPRESSOR GROUPS

HYDROGEN SUPPLY PIPING

HYDROGEN COMPRESSOR WATER TREATMENT FACILITY AND EVAPORATION PONDS

SUBSTATION

N

0 100' 200' 400'

Approximate Scale: 1" = 100'

Figure 1-8
Hydrogen System Layout

PROJECT: SC-C-0700A

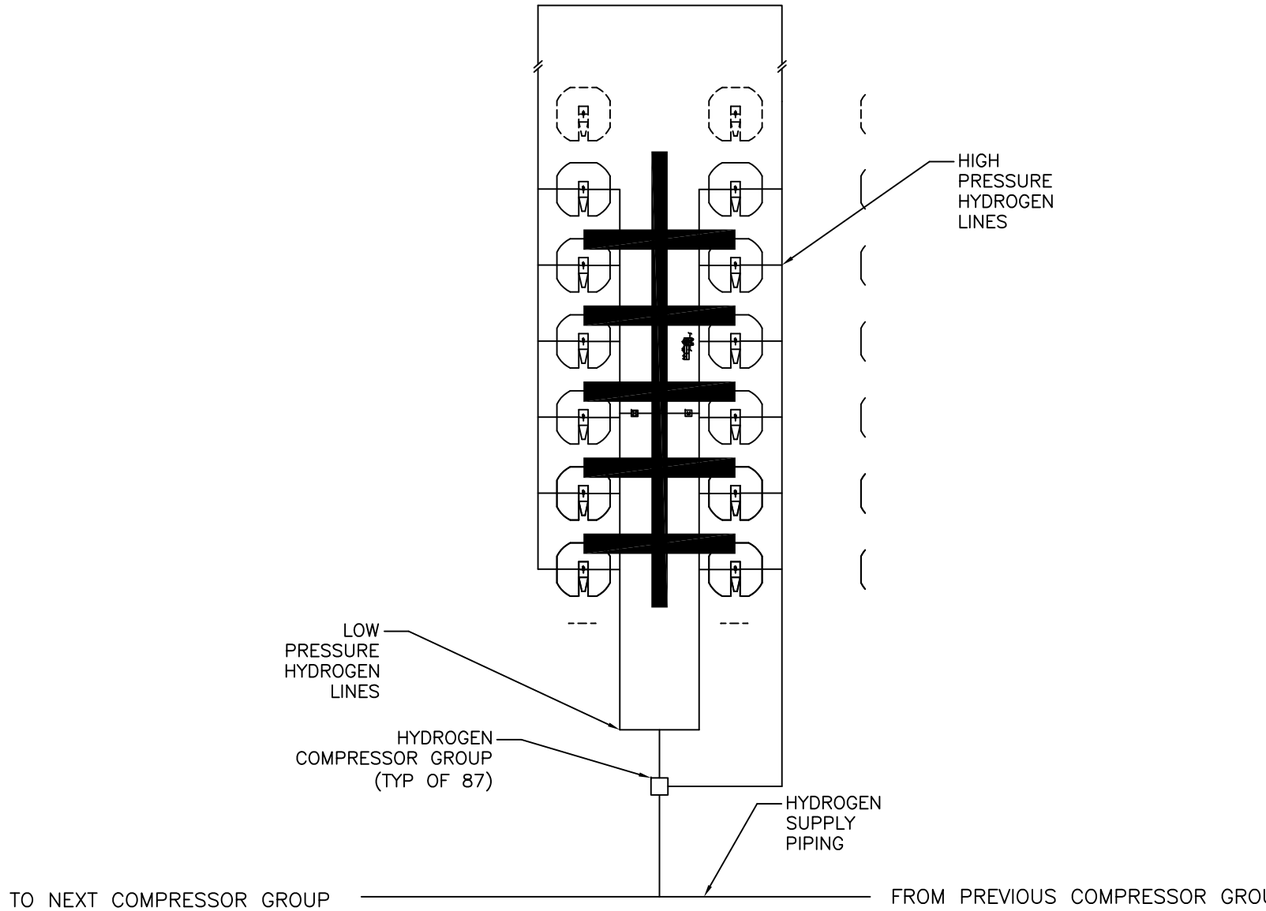
SHT. 1 OF 1

REV.

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




NOTES

EACH COMPRESSOR GROUP TO SERVICE 360 SUNCATCHERS
TYPICAL HYDROGEN LAYOUT

| NO. | DATE | | BY | APP. |
|---|---|---|---|---|
| A | 3/17/09 | ISSUED FOR BID | GL | |

STANTEC CONSULTING INC.
9400 S.W. BARNES ROAD
STE. 200
PORTLAND, OREGON, 97225
503.297.1631
STANTEC.COM

SES Stirling Energy Systems

Figure 1-9
Hydrogen Suncatcher
Field Layout

| DRN. | DES. | CHK. | DATE | PROJECT: | CAD FILE: | SHEET SIZE: | DWG: | SHT. | REV. |
|---|---|---|---|---|---|---|---|---|---|
| SCALE | | APP. | DATE | 2000026801 | KEVIN 2.dwg | Arch D (24x36) | | | A |

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## Attachment A

**Data Request 37**: Please discuss in detail the reliability of IID for providing the required water and the historical performance of the Westside Main Canal for providing the required water. This detailed discussion should include:

a. The amount of IID water that can be obtained reliably on a month-to-month and year-to-year basis.
b. Citations from the IID and other water agency planning documents to support the reliability discussed above.
c. The effect of the following on the available water supply over the life of the project: (1) single dry and multiple dry years; and (2) increased water supply demand as the region's population and economy grow.

**Response:** The CEC staff asked for information regarding the reliability of water from the Imperial Irrigation District (IID) since that was the source of water proposed in the Solar Two AFC. Because that water is no longer available, SES is responding to this request as it relates to the current source of water: reclaimed water from the Seeley Waste Water Treatment Facility run by the Seeley County Water District (SCWD).

a. Typically, the SWWTF receives approximately 150,000 gallons per day (gpd) of influent (approximately 104 gallons per minute [gpm] or 168 acre feet per year [afy]). The sewer influent volume is very reliable. The new plant will increase the reliability of the treatment process.
b. The reliability concerning the amount of influent usable for treated effluent at SES Solar Two, LLC is based on current estimates provided by David Dale (760-960-8500), the SCWD engineer. Monitoring data from the SWWTF is provided as Appendix B.
c. Since the water supply is wastewater influent to Seeley, it is very reliable and does not vary because of dry or wet years. If Seeley's population and economy grow, there will be more sewer influent to the plant, and thus more effluent available for use by SES.

**Data Request 38**. Since the project has only one source of water with no backup supply, please discuss the dependability of the water source. The discussion should include:

a. The available historical data for any interruptions to the proposed water supply or delivery reductions that have been required over the last 10 years.
b. A copy of a draft water supply agreement showing:
c. The agreed upon term of delivery;
d. The volume of water to be delivered;
e. A description of what, if any, reductions in delivery the applicant will be required to take in dry or drought years, or other reasons beyond the applicant's control;
f. A description of what, if any, other activities may be undertaken if water delivery from IID is reduced or temporarily halted.

**Response:** As for Data Request 37, the following response relates to the new source of water for the Solar Two project: reclaimed water from the Seeley County Water District (SCWD).

a. According to David Dale (760-960-8500), the SCWD engineer, water produced by the SWWTF has been extremely reliable regardless of regional rainfall variations. The treatment facility currently receives approximately 150,000 gpd of influent. He expects that number to increase as the population around Seeley grows.

b. A completed water supply agreement between SCWD and SES Solar Two, LLC was signed at the Seeley County Water District Board Meeting on May 18, 2009 and is included behind these responses.
c. As a result of the terms of this Agreement, the SWWTF will be upgraded with the capacity of treating up to 250,000 gpd. Up to 200,000 gpd (approximately 139 gpm or 224 afy) of treated effluent will be made available to SES Solar Two Project in connection with the construction and operation of the SCWD Wastewater Treatment Plant upgrades.
d. The Agreement stipulated that SCWD will provide up to 200,000 gpd (Title 22 water) to SES Solar Two. This number reflects SCWD's future influent levels expected due to population growth and will be provided to SES Solar Two if requested.
e. There are no expected reductions in water supplies in dry or drought years.
f. There are not expected to be any reductions or temporary interruptions of water from the SWWTF. If an unforeseen interruption were to occur, SES would temporarily suspend mirror washing operations. The current supply rate of 150,000 gpd (104 gpm or 168 afy) is much greater than the anticipated project operations phase water demand of approximately 23.3 gpm daily average, 39.2 gpm daily maximum, and 32.7 afy. The proposed SWWTFt upgrades along with a newly constructed pipe delivery system from Seeley to the project and proposed onsite storage will be adequate to provide a reliable source of water for the project.

SEELEY COUNTY WATER DISTRICT
P.O. Box 161 Seeley CA 92273
Tele (760) 352-6612
Fax (760) 352-0589

March 11, 2009

Kevin Harper
Project Manager
2920 E Camelback Rd., Suite 150 Phoenix, AZ 85016

Dear Mr. Harper:

This letter is to confirm that Seeley County Water District (SCWD) will furnish recycled water (Title 22) to SES Solar Two, LLC upon execution of an agreement and completion of the following requirements to the satisfaction of SCWD:

1. The construction of the secondary treatment facilities necessary to achieve the required water quality standards, pump station and ancillary components are to be paid for by SES Solar Two, LLC.

2. SCWD, in cooperation with SES Solar Two, LLC, will have the plans prepared, bid and constructed. During the design phase SES SOLAR TWO, LLC will be consulted regarding alternatives. Final alternatives will be approved by SCWD and SES Solar Two, LLC. Costs of engineering, bidding and construction, construction management to be paid by SES Solar Two, LLC. A deposit will be necessary to begin the design. The deposit will be the full amount for engineering fees and bidding costs. A check in the full amount of the lowest bid, plus construction management fees will need to be deposited in SCWD account prior to award of the construction contract.

3. SCWD will provide an operator to run the plant. SES Solar Two, LLC will pay for any repairs that become necessary for the upgraded secondary treatment facilities. SES Solar Two, LLC will also bear the costs of any additional chemicals required for the secondary system. SCWD will continue to pay for repairs and maintenance of the existing plant. SES Solar Two, LLC will pay for any training necessary for the operators to operate the upgraded secondary plant.

4. The upgraded secondary treatment plant will become the property of SCWD. Water will be provided to SES Solar Two, LLC as long as the secondary system is operational for a time period to be determined by SES Solar Two, LLC.

5. The pump station and the upgraded secondary plant will be located within the SCWD

plant boundary. Both shall operate on a separate electrical meter, paid by SES Solar Two, LLC. Any repairs to and maintenance of the pump station will be paid for by SES Solar Two, LLC.

6. SCWD will agree to provide up to 200,000 treated gallons per day (Title 22 water) to SES Solar Two, LLC.

7. SCWD might want to explore sharing the Title 22 water with SES Solar Two, LLC in the future, if there is excess water not used by SES Solar Two, LLC. The secondary treated water would be used by SCWD for irrigation of the nearby park. If this becomes the case, SCWD will be responsible for its share of pumping and maintenance costs, based on usage.

This will serve letter is contingent upon the execution of an agreement between SCWD and SES Solar Two, LLC. We look forward to working with Stirling Energy Systems. If you have any questions or concerns, please contact me.

Sincerely,

Rocky Vandergriff

Rocky Vandergriff
Board President, SCWD

# SECTION 2 ENVIRONMENTAL INFORMATION

## 2.1 INTRODUCTION

This section presents a discussion of the affected environment and potential environmental consequences that are associated with the changes identified in this Supplement to the SES Solar Two (Solar Two or Project) Application for Certification (AFC), along with measures to mitigate or avoid adverse impacts as appropriate. Supporting information to determine compliance with applicable laws, ordinances, regulations, and standards (LORS) is included within the discussion in each applicable section.

The analyses presented in this section are based on the following:

- Details of the proposed Project changes as presented in Section 1.0, Supplemental Project Description, of this document;
- Details of the proposed Project as presented in Section 3.0, Facility Description and Location, of the Project AFC;
- Consideration of Bureau of Land Management (BLM) and California Energy Commission (CEC) including regulations applicable to the expedited processing of projects; and
- Consideration of CEC, BLM Staff and public input.

The environmental assessments presented in this section are meant to comply with BLM and CEC requirements, including those of the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA). In general, each section follows the same format of presenting the affected environment and existing site conditions, followed by the environmental consequences of the proposed Project, cumulative impacts, measures proposed to mitigate significant adverse impacts, and LORS compliance.

## 2.2 AIR QUALITY

### 2.2.1 Affected Environment

The affected environment for Air Quality was originally discussed in Section 5.2.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

### 2.2.2 Environmental Consequences

After reviewing the air quality comments received from the California Energy Commission (CEC), SES reviewed the entire project to find opportunities to reduce air emissions from the project during construction and operation. The revised air quality analysis is presented in the Responses to Data Requests 53-110 (Docketed 4-8-2009). It describes the assumptions and general approach used to estimate emissions from the operational and construction phases of the project, presents new emission estimates and provides a summary comparison of the new results with those in the AFC. The revised analyses are presented using the same section and table numbering as in the AFC. The revised analyses include the modifications to the water delivery system and the distributed hydrogen system.

#### *2.2.2.1 Seeley Waste Water Treatment Facility*

The modification of the delivery of water to the site from the Seeley Waste Water Treatment Facility was accounted for in the revised construction modeling presented in the Responses to Data Requests 53-110 (Docketed 4-8-2009).

#### *2.2.2.2 Distributed Hydrogen System*

The Responses to Data Requests 53-110 (Docketed 4-8-2009) included the change to a distributed hydrogen system away from a system of delivery of individual hydrogen canisters for each SunCatcher. This modification reduced air pollutant emissions.

### 2.2.3 Cumulative Impacts

As stated in the Responses to Data Requests 53-110 (Docketed 4-8-2009), no cumulative air quality impact analysis was conducted since no projects within six miles of any portion of the Solar Two site were identified that had emissions greater than 5 tons per year of any pollutant.

### 2.2.4 Mitigation Measures

The mitigation measures and other discussion presented in Section 5.2.4 of the Project AFC are applicable to the proposed Project changes. Additional mitigation measures were recommended in the Responses to Data Requests 53-110 (Docketed 4-8-2009). No additional mitigation measures are recommended based on the Project modifications.

### 2.2.5 LORS Compliance

The LORS presented in Section 5.2.5 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.2.5 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.2.5 of the Project AFC.

### 2.2.6 References

No additional references beyond those presented in Section 5.2.6 of the Project AFC were used for this supplemental analysis.

# 2.3 GEOLOGIC HAZARDS AND RESOURCES

## 2.3.1 Affected Environment

The affected environment for Geologic Hazards and Resources was originally discussed in Section 5.3.2 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

The pipeline in this area will encounter similar geologic conditions (lake bed deposits) as discussed previously. The hydrogen distribution system is entirely within the project boundaries and no changes to the affected environment discussions for geologic hazards and resources in the Project AFC result from this change in project description.

## 2.3.2 Environmental Consequences

### *2.3.2.1 Seeley Waste Water Treatment Facility*

The extension of the water pipeline within the existing road ROW does not result in any significant, additional environmental impacts to the project relative to geologic hazards and resources. The previous discussions of impacts in Section 5.3.3 of the Project AFC are valid for the extension of the water pipeline to the SWWTF.

### *2.3.2.2 Distributed Hydrogen System*

The addition of distributed hydrogen system including the buried pipelines carrying hydrogen to the Suncatchers will increase slightly the total graded volume required during construction. Other potentially significant impacts by geologic conditions on the construction, in addition to those presented in Section 5.3.3 of the Project AFC, are not anticipated. Project site development is not anticipated to result in significant adverse impacts to geologic or mineral resources. Operation related impacts as a result of the hydrogen distribution system, in addition to those presented in Section 5.3.3 of the Project AFC, are not expected.

## 2.3.3 Cumulative Impacts

No additional cumulative impacts to the geologic and mineral resources at the site have been identified as part of this supplemental analysis.

### 2.3.4 Mitigation Measures

The mitigation measures and other discussion presented in Section 5.3.5 of the Project AFC are applicable to the proposed Project changes. No additional mitigation measures are recommended based on the Project modifications.

With implementation of the mitigation measures outlined in Section 5.3.5, impacts to facility construction and operation by the geologic environment and impacts to geologic or mineral resources will be reduced to less than significant levels.

### 2.3.5 LORS Compliance

The LORS presented in Section 5.3.6 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.3.6.4 of the AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.3.6.5 of the Project AFC.

### 2.3.6 References

No additional references beyond those presented in Section 5.3.7 of the Project AFC were used for this supplemental analysis.

## 2.4 SOIL RESOURCES

### 2.4.1 Affected Environment

The affected environment for Air Quality was originally discussed in Section 5.2.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

### 2.4.2 Environmental Consequences

#### *2.4.2.1 Seeley Waste Water Treatment Facility*

The change in the Project including the extension of a water pipeline eastward to the SWWTF is not a significant change with regard to impact to soils. The extension of the pipeline results in more trench excavation, however, the location of the pipeline in an established right of way will result in no significant impacts to soils.

#### *2.4.2.2 Distributed Hydrogen System*

The change in the hydrogen system does create minor changes in impacts to soils relative to those discussed in Sections 5.4 of the Project AFC in that a buried system of small lines will be required to distribute the hydrogen. This distribution system of lines will be located in the general access road and utility corridors that link the SunCatchers. Therefore the addition of the hydrogen line construction to the Project does not represent a significant impact given the relatively minor trench needed to bury the small hydrogen lines and the location of the trench lines in areas already disturbed by other construction activities. Other potentially significant impacts to soil resources beyond those presented in Section --- of the Project AFC are not anticipated. Project site development is not anticipated to result in significant adverse impacts to soil resources.

### 2.4.3 Cumulative Impacts

No additional cumulative impacts to the soil resources at the site have been identified as part of this supplemental analysis.

### 2.4.4 Mitigation Measures

The mitigation measures and other discussion presented in Section 5.4.4 of the Project AFC are applicable to the proposed Project changes. No additional mitigation measures are recommended based on the Project modifications.

With implementation of the mitigation measures outlined in Section 5.4.4 of the Project AFC, impacts to soils as a result of plant construction and operation will be reduced to less than significant levels.

### 2.4.5 LORS Compliance

The LORS presented in Section 5.4.5 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.4.5 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.4.5 of the Project AFC.

### 2.4.6 References

No additional references beyond those presented in Section 5.4.6 of the Project AFC were used for this supplemental analysis.

CA602

CA604

CA606

CA918

CA604

S80

N.A.P.

N.A.P.

CA604

CA606

8

CA606

29

CA605

CA604

CA918

**LEGEND**

- Project Area 2-Mile Buffer
- Project Boundary
- Laydown Area
- Proposed Substation and Main Services Complex
- Proposed 750-MW Transmission Line (10.30 miles)
- Proposed Waterline (approximately 12 Miles)
- Existing SDG&E Imperial Valley Substation
- Existing Transmission Line
- Railroad
- Quaternary Faults

Soil Map Unit

- Badland-Beeline-Rillito (CA605)
- Gilman-Indio-Coachella (CA602)
- Imperial-Glenbar-Gilman (CA603)
- Meloland-Vint-Indio (CA606)
- Rock Outcrop-LaPosa-Quilotosa (CA918)
- Rositas-Carrizo-Orita (CA604)

N.A.P. Not A Part (Owned by Others)

SOURCES: US Department of Agriculture, Natural Resource Conservation Service (STATSGO soils, 2004); SDG&E (existing t-lines 2006); Stantec (proposed water line, substation fence line, property boundary, proposed t-line 2007); TIGER (railroads 2000); NAIP (aerial 2005).

# SOILS IN PROJECT VICINITY WATERLINE EXTENSION SOLAR TWO PROJECT

URS

0.75 0 0.75 1.5 Miles

SCALE: 1" = 1.5 Mile (1:95,040)

SCALE CORRECT WHEN PRINTED AT 11X17

| CHECKED BY: CL | DATE: 06-03-09 | FIG. NO: |
|---|---|---|
| PM: AL | PROJ. NO: 27657102.00404 | **2.4-1** |

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# 2.5 WATER RESOURCES

## 2.5.1 Affected Environment

The affected environment for Water Resources was originally discussed in Section 5.2.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

The affected environment for the SWWTF water supply and water pipeline is the same as described in Section 5.5.1 of the Project AFC for the hydrologic setting, groundwater basins, surface water quality, climate and precipitation, and existing wastewater streams. Project AFC sections regarding storm water runoff and flooding hazards include additional Imperial Irrigation District (IID) canal/drain crossings and a crossing of the New River east of the IID Westside Main Canal (previously proposed water supply point) along the proposed water pipeline along Evan Hewes Highway form the project to the Seeley Waste Water Treatment Facility. The New River along Evan Hewes Highway is designated on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Number 06025C1700C as a 100-year (1-percent annual chance) floodplain.

For the proposed onsite distributed hydrogen system, the affected environment is unchanged from that presented in Section 5.5 of the Project AFC.

## 2.5.2 Environmental Consequences

### *2.5.2.1 Seeley Waste Water Treatment Facility*

Project components for use of the Seeley Waste Water Treatment Facility recycled water as the sole water supply source for the project includes additional water pipeline east of the previously proposed IID Westside Main Canal supply along Evan Hewes Highway to Seeley along with proposed modifications to onsite distribution of the raw water supply. The additional pipeline is proposed within the Evan Hewes Highway ROW. Environmental consequences and associated mitigation measures for required upgrades within the SWWTF will be processed through the appropriate state agencies by Seeley County Water District (SWCD) in separate environmental documentation for the waste water treatment facility upgrades.

#### 2.5.2.1.1 Water Supply and Use

The proposed water supply and use are described in detail in the Supplemental Project Description. In summary the proposed water supply for the project will be recycled water from SWWTF. This proposed use of recycled water meets state requirements for evaluation and use of recycled water for power production facilities, avoids any potential groundwater withdrawal impacts, and will result in upgrades to an existing waste water treatment facility.

The SWWTF is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the project site. It is operated by the SCWD and is designed to produce secondary treated water at the rate of 200,000 gallons per day (gpd) (139 gallons per minute or 224 acre feet per year [afy]). The current influent flow rate is approximately 150,000 gpd, or 168 afy. Improvements to the treatment facility would increase the Title 22 effluent capacity to 250,000 gpd. Any surplus water, not needed by SES, will be used by SCWD for irrigation or discharged into the New River. To access the water, SES will construct approximately 12 miles of pipeline from the Seeley facility to the SES water treatment plant along the Evan Hewes Highway. This pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade and access the water prior to the connection to the New River. The line will enter the SES property approximately 1000 yards east of Plaster City and then run due south to the Raw Water Storage Tank. The water treatment plant, mainly a reverse osmosis system, will be the same as shown on the recently filed responses to CEC and BLM Data Requests.

Concerning water supply reliability, there is no backup water supply for the project. As stated previously, the current influent rate to the SWWTF is about 150,000 gpd (104 gpm or 168 afy), which is much higher than the anticipated project operations phase water demand of approximately 23 gpm daily average, 39 gpm daily maximum, and 33 afy. The proposed SWWTF upgrades along with a newly constructed pipe delivery system from Seeley to the project and proposed onsite storage will be adequate to provide a reliable source of water for the project. There are not expected to be any reduction or temporary interruptions of water from the SWWTF. If an unforeseen interruption were to occur, SES would temporarily suspend mirror washing operations.

As stated in response to California Unions for Reliable Energy (CURE) Data Request Set 1, average annual flows in the New River upstream of SWWTF have been reported to be approximately 150 to 200 cubic feet per second (cfs). In comparison, flows in the New River at the Salton Sea average approximately 600 cfs[3]. Considering reduction of flows to the New River from redirection of flows to the Project up to 200,000 gpd from the SWWTF indicates a reduction of flow of approximately 0.15% for annual average conditions (200,000 gpd or 0.31 cfs divided by 200 cfs = 0.15%). The anticipated reduction in flows is not considered to be a significant impact on existing downstream uses. Additionally, the 150 to 200 cfs average annual flow at the border does not account for additional agricultural return flows to the New River between the border and the SWWTF (located approximately 15 miles downstream of the international border) which would reduce the anticipated percentage reduction in flows to the Salton Sea.

Based upon the above considerations, use of the SWWTF treated effluent is not considered to be a potential impact to water supply in the area or existing beneficial uses downstream (specifically return flows to the Salton Sea).

#### 2.5.2.1.2 Water Quality

Documentation of recent water quality information collected by the Seeley Waste Water Treatment Facility is included in Appendix B, Seeley Waste Water Treatment Facility Water Quality Data. The SWWTF will be upgraded to meet Title 22 water quality standards. This will result in an improvement in water quality discharges from the SWWTF to the New River.

Potential impacts to water quality from the construction of the water pipeline from Seeley to the project site will comply with the General Permit for Discharges of Storm Water Associated with Construction Activity to avoid or reduce potential construction related storm water quality impacts to a less than a significant level.

#### 2.5.2.1.3 Storm Water Runoff and Flooding Hazards

As indicated above, the New River along Evan Hewes Highway is designated on the FEMA FIRM Number 06025C1700C as a 100-year floodplain. Installation of the proposed water pipeline will comply with FEMA and County floodplain development regulations. Because the pipe will be underground it will not affect flood levels in the river, other minor ephemeral washes, or storm water runoff volumes or rates.

### *2.5.2.2 Distributed Hydrogen System*

The distributed hydrogen system will include construction and operation of hydrogen generator storage tanks and onsite pipe distribution system. Construction of the pipe distribution system has the potential to cause temporary stormwater quality impacts due to additional grading/ground disturbance, however, implementation of the construction and operation phase Stormwater Pollution Prevention Plan, will mitigate any potential impacts to less than a significant level. Further, no additional ground disturbance is expected from that which was analyzed in the Project AFC. Therefore, these systems are not anticipated to cause any additional operation related impacts to water resources beyond those presented in Section 5.5 of the Project AFC.

The proposed hydrogen generation system will require a minimal amount of additional water supply. The project AFC Table 5.5-3, Operations Water Usage Rates was updated to include the anticipated water use for the proposed hydrogen system and is presented below as Table 2.5-1.

**Table 2.5-1**
**Operations Water Usage Rates**

| Water Use | Daily Average (gallons per minute) | Daily Maximum (gallons per minute) | Annual Usage (acre feet) |
|---|---|---|---|
| Equipment Water Requirements | | | |
| SunCatcher Mirror Washing | 10.4[1] | 17.4[2] | 14.2[3] |
| Hydrogen System | 0.13[11] | 0.13[11] | 0.0133 |
| Water Treatment System Discharge | | | |
| Brine to Evaporation Ponds | 5.5 | 10.2[4] | 7.5 |
| Potable Water Use | | | |
| For drinking and sanitary water requirements | 3.9[5] | 4.7[6] | 5.4[7] |
| Dust Control | | | |
| Raw water for dust control during operations | 3.5[8] | 6.9[9] | 5.6[10] |
| Totals | 23.4 | 39.3 | 32.7 |

Source: SES Solar Two, LLC, 2008.

1 Based on 30,000 SunCatchers requiring a monthly wash with an average of 14 gallons of demineralized water per spray wash and a five-day work week (21 work days per month).

2 During a three month period, all SunCatcher mirrors are given a scrub wash requiring up to three times the normal wash of 14 gallons per SunCatcher. Therefore, the Daily Maximum usage rate is based on 2/3 of the SunCatchers receiving a normal wash and one third receiving a scrub wash.

3 Based on every SunCatcher having approximately 8 normal washes per year with one additional scrub wash.

4 Based on the maximum amount of demineralized water required for mirror washing and assumes a decrease in raw water quality requiring an additional 20 percent of system discharge.

5 Assumes 30 gallons per person per day for 188 people.

6 Maximum amount assumes a 20 percent contingency over the Daily Average.

7 Assumes a six-day work week and average daily usage.

8 Assumes 5,000 gallons per day.

9 Assumes up to 10,000 gallons per day.

10 Assumes daily average dust control operations.

11 Hydrogen system will require approximately 184 gallons of water per day or about 0.0133 acre feet per year.

## 2.5.3 Cumulative Impacts

In regard to the proposed recycled water supply source from SWWTF, potential cumulative impacts beyond those described in Project AFC Section 5.5 include reduction of surface water flows to Salton Sea. However, as indicated in Section 2.5.2.1 use of the SWWTF treated effluent is not considered to be a potential impact to water use or existing beneficial uses downstream (specifically return flows to the Salton Sea) due to the relatively minor amount of water to be used for project purposes that may otherwise have the potential to flow to the Salton Sea.

In regard to the distributed hydrogen system, no additional cumulative impacts to the water resources at the site have been identified as part of this supplemental analysis.

### 2.5.4 Mitigation Measures

The mitigation measures and other discussion presented in Section 5.5 of the Project AFC are applicable to the proposed Project changes. No additional mitigation measures are recommended based upon the proposed Project modifications.

With implementation of the mitigation measures outlined in Section 5.5 of the Project AFC, impacts to water resources as a result of construction and operation will be reduced to less than significant levels.

### 2.5.5 LORS Compliance

An update to the LORS Compliance Table (AFC Table 5.5-5) and Contact List Table (AFC Table 5.5-6) from the Project AFC are provided below as Table 2.5-2 and 2.5-3, respectively. The updates include the proposed recycled water use from Seeley Waste Water Treatment Facility and additional contacts with the State Water Resources Control Board (SWRCB) and Regional Water Quality Control Board (RWQCB).

**Table 2.5-2**
**Summary of LORS – Water Resources**

| LORS | Requirements | Conformance Section | Administering Agency | Agency Contact |
|---|---|---|---|---|
| Federal Jurisdiction | | | | |
| CWA §402; 33 USC §1342; 40 CFR Parts 110, 112, 116 | Requires NPDES Permits for construction and industrial storm water discharges. Requires preparation of a SWPPP and Monitoring Program. | Coverage under NPDES industrial storm water permit maybe required. NOI for coverage under NPDES construction storm water permit will be filed before construction. | SWRCB and RWQCB | J. Carmona |
| CWA §311; 33 USC §1342; 40 CFR Parts 122-136 | Requires reporting of any prohibited discharge of oil or hazardous substance. | Project will conform by proper management of oils and hazardous substances both during construction and operation. If an accidental release or unintended spill occurs it will promptly be reported. | RWQCB and DTSC | J. Carmona |
| CFR, Title 40, Parts 124, 144 to 147 | Requires protection of underground water resources | Underground water resources will be protected due to the lined evaporation pond. | Environmental Protection Agency | |

**Table 2.5-2**
**Summary of LORS – Water Resources**
**(Continued)**

| LORS | Requirements | Conformance Section | Administering Agency | Agency Contact |
|---|---|---|---|---|
| State Jurisdiction | | | | |
| CWC §13552.6 | Use of potable domestic water for cooling towers and air conditioning is unreasonable use if suitable recycled water is available. | Recycled water will be the sole source of water for the project. No cooling towers are proposed. | SWRCB and RWQCB | J. Carmona / C. Raley |
| California Constitution Article 10 §2 | Avoid the waste or unreasonable uses of water. Regulates methods of use and diversion of water. | Project includes appropriate water conservation measures, both during construction and operation. | SWRCB and RWQCB | J. Carmona |
| State Water Resources Control Board, Resolution No. 75-58 | Addresses sources and use of cooling water supplies for power plants that depend on inland waters for cooling and in areas subject to general water shortages. | Recycled water will be the sole source of water for the project. No cooling towers are proposed. | SWRCB and RWQCB | J. Carmona (RWQCB), J. Kassel (SWRCB) |
| Porter-Cologne Water Quality Act of 1972; CWC § 13000-14957, Division 7, Water Quality | Requires State and Regional Water Quality Control Boards to adopt water quality initiatives to protect state waters. Those criteria include identification of beneficial uses, narrative and numerical water quality standards. | Project will conform to applicable state water standards, both qualitative and quantitative, before and during operation. Applicable permits will be obtained from Regional Water Quality Control Board. | SWRCB and RWQCB | J. Carmona |
| Title 22, CCR | Addresses the use of recycled water for cooling equipment | Recycled water will be the sole source of water for the project. No cooling towers are proposed. | California Department of Health Services and RWQCB | J. Stone (DEH) / C. Raley (RWQCB) |
| The Safe Drinking Water and Toxic Enforcement Act of 1986 (proposition 65), Health and Safety Code 25241.5 *et seq.* | Prohibits the discharge or release of chemicals known to cause cancer or reproductive toxicity into drinking water sources. | Project will conform to all state water quality standards, both qualitative and quantitative. Project will not discharge into any drinking water source. If an unintended spill occurs, reporting of spill will be prompt. | California Department of Health Services | J. Crisologo |

**Table 2.5-2**
**Summary of LORS – Water Resources**
**(Continued)**

| LORS | Requirements | Conformance Section | Administering Agency | Agency Contact |
|---|---|---|---|---|
| CWC Section 461 | Encourages the conservation of water resources and the maximum reuse of wastewater, particularly in areas where water is in short supply. | Recycled water will be the sole source of water for the project. No cooling towers are proposed. | SWRCB and RWQCB | J. Carmona / C. Raley |
| CWC Section 5002 | Requires a "Notice of Extraction and Diversion of Water" to be filed with the State Water Resources Control Board on or before 1 March of the succeeding year. | Notice will be filed as required by state law. | SWRCB and RWQCB | C. Raley (RWQCB), J. Kassel (SWRCB) |
| CWC Section 13751 | Requires a "Report of Completion" to be filed with the State Water Resources Control Board within 60 days of well construction. | A groundwater well is not proposed. | SWRCB and RWQCB | C. Raley / J. Carmona |
| California Public Resources Code §25523(a); 20 CCR §§1752, 1752.5, 2300 – 2309, and Chapter 2 Subchapter 5, Article 1, Appendix B, Part 1 | The code provides for the inclusion of requirements in the CEC's decision on an AFC to assure protection of environmental quality and requires submission of information to the CEC concerning proposed water resources and water quality protection. | Project will comply with the requirements of the CEC to assure protection of water resources. | CEC and RWQCB | C. Raley / J. Carmona (RWQCB) |
| CWC §§ 13271 – 13272; 23 CCR §§2250 – 2260 | Reporting of releases of reportable quantities of hazardous substances or sewage and releases of specified quantities of oil or petroleum products. | No releases of hazardous substances are anticipated; however, Project will conform to all State water quality standards, both qualitative and quantitative. If an unintended spill occurs, reporting of spill will be prompt. | SWRCB and RWQCB | C. Raley and J. Carmona (RWQCB) |
| CWC §13260 – 13269; 23 CCR Chapter 9 | Requires the filing of a Report of Waste Discharge and provides for the issuance of WDRs with respect to the discharge of any waste that can affect the quality of the waters of the state. | An ROWD will be filed for the RO Unit discharge waste. The RO Unit will be constructed and monitored in accordance with RWQCB requirements. | SWRCB and RWQCB | C. Raley and J. Carmona (RWQCB) |

**Table 2.5-2**
**Summary of LORS – Water Resources**
**(Continued)**

| LORS | Requirements | Conformance Section | Administering Agency | Agency Contact |
|---|---|---|---|---|
| CEQA, Public Resources Code §21000 *et seq*.; CEQA Guidelines, 14 CCR §15000 *et seq*.; Appendix G | The CEQA Guidelines (Appendix G) contain definitions of projects that can be considered to cause significant effects to water resources. | Project will comply with the requirements of the CEC to assure protection of water resources. | CEC | |
| Title 27, CCR Division 2, §20375, SWRCB – Special Requirements for Surface Impoundments (C15: §2548) | This regulation governs the design requirements for surface impoundments. | The evaporation pond for wastewater disposal will be designed and operated in accordance with the requirements of this section. | SWRCB and RWQCB | C. Raley and J. Carmona (RWQCB) |
| Local Jurisdiction | | | | |
| Imperial County Ordinance, Title 9, §91605.00 – 91605.06 | These codes regulate flood hazard reduction. | The Project will be designed by a licensed engineer and meet all floodplain design standards. | Imperial County | P. Valenzuela |
| Imperial County Ordinance, Title 9, §90515.00 – 90515.11 | The codes classify the Project as light industrial development and regulates its uses | The Project will conform to all code standards | Imperial County | P. Valenzuela |
| Imperial County APCD, Regulation VIII, Fugitive Dust Rules | | The Project will conform to all code standards | Imperial County | |

Source: URS Corporation, 2008.

Notes:

APCD = Air Pollution Control District
CEQA = California Environmental Quality Act
CFR = Code of Federal Regulations
CWA = Clean Water Act
CWC = California Water Code
LORS = laws, ordinances, regulations, and standards
NOI = Notice of Intent
NPDES = National Pollutant Discharge Elimination System
RWQCB = Regional Water Quality Control Board
SWRCB = State Water Resources Control Board
SWPPP = Storm Water Pollution Prevention Plan
USC = United States Code

**Table 2.5-3**
**Agency Contact List for LORS**

| Agency | Contact | Title | Telephone |
|---|---|---|---|
| California Regional Water Quality Control Board, Colorado River Basin Region | John Carmona | NPDES, 401 Certification, Storm Water | 760-346-7491 |
| California Regional Water Quality Control Board, Colorado River Basin Region | Cliff Raley | Chapter 15 and Non-Chapter 15 | 760-776-8962 |
| State Water Resources Control Board | Jim Kassel | Water Rights | 916-341-5446 |
| California Department of Health Services | Jeff Stone | Recycled Water | 805-566-9767 |
| California Department of Health Services | Joseph Crisologo | Water Security | 213-580-5723 |
| Imperial County Planning/Building Development Department | Patricia A. Valenzuela | Planner II | 760-482-4320 |
| California Department of Water Resources, Division of Planning and Local Assistance, Southern District | Tim Ross | | 818-500-1645 |

Sources: Colorado River Basin RWQCB, 208; CDPH, 2008a; CDPH, 2008b (References per Section 5.5 of Project AFC).

## 2.5.6 References

California Unions for Reliable Energy (CURE) Data Requests Set One, Dated April 6, 2009, CEC Docket Number 08-AFC-05

Salton Sea Ecosystem Restoration Program Programmatic Environmental Impact Report, Chapter 5, Surface Water Resources, last accessed April 29, 2009 at: http://www.saltonsea.water.ca.gov/PEIR/draft/

State Water Resources Control Board website last accessed on April 29, 2009 at: http://www.swrcb.ca.gov/rwqcb7/water_issues/programs/salton_sea/watershed.shtml

## 2.6 BIOLOGICAL RESOURCES

### 2.6.1 Affected Environment

The affected environment has changed to include the extent of the waterline that will transport water from the waste water treatment facility to the project area. This distributed hydrogen system will not incur significant changes that would impact biological resources. The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the project site. It is operated by the Seeley County Water District (SCWD) and is designed to produce secondary treated water at the rate of 139 gallons per minute or 224 acre feet per year. To access the water, SES will construct approximately 12 miles of pipeline from the Seeley facility to the SES water treatment plant along the Evan Hewes Highway. This pipeline will be buried within the right-of-way (ROW) of Evan Hewes Highway approximately 30" below the existing grade. The line will enter the SES property approximately 1000 yards east of Plaster City and then run due south to the Raw Water Storage Tank. The new alignment follows the previous alignment of approximately 7.2 miles and extends from the eastern endpoint at the Imperial Irrigation District (IID) Westside Main Canal for an additional 4.6 miles east (Figure 1-1). The proposed waterline extension is the alignment that is beyond the route that was surveyed for the Application for Certification (AFC) and the associated 300-foot wide assessment buffer are herein referred to as the "water pipeline extension study area." No focused special-status species surveys were conducted within the study area during the 2009 site visits. Vegetation communities were mapped for the entirety of the off-site new waterline route and are presented in Figures 2.6-1 through 2.6-8. Vegetation communities within the water pipeline extension study area are evaluated in detail in Appendix C, Biological Resources Report and tabulated in Table 2.6-1 below.

Common wildlife species detected within the water pipeline extension study area include common side-blotch lizard (*Uta stansburiana*), whiptail lizard (*Cnemidophorus* sp.), killdeer (*Charadrius vociferus*), common raven (*Corvus corax*), mourning dove (*Zenaida macroura*), song sparrow (*Melospiza melodia*), cliff swallow (*Petrochelidon pyrrhonota*), house finch (*Carpodacus mexicanus*), desert cottontail (*Sylvilagus audubonii*), and California ground squirrel (*Spermophilus beecheyi*). Details of the biological assessment for the pipeline extension are provided in a letter report (Appendix B).

### 2.6.2 Environmental Consequences

With the exception of the aforementioned water pipeline extension, the environmental consequences remain unchanged from the AFC section 5.6.1.

#### *2.6.2.1 Seeley Waste Water Treatment Facility*

The proposed approximately 12-mile waterline alignment will be sited within or directly adjacent the highway ROW in order to avoid/minimize impacts to native vegetation communities and jurisdictional waters, where practicable. Assuming a 30-foot construction ROW directly adjacent to the state Highway, the 4.6 miles of water pipeline extension has the potential to temporally impact jurisdictional Waters of the US/State and limited amounts of common native vegetation (likely less than 4 acres of temporary impact to native vegetation - predominantly disturbed desert scrub). Total temporary construction impacts to vegetation associated with the entire water line are shown in Table 2.6-2. Development of the proposed

waterline may incur certain permitting requirements if the New River and the irrigation canals that flow into the Salton Sea are actually impacted. Should construction activities extend into these water resource areas, implementation of the proposed project may be subject to permitting requirements associated with waters of the US/State, as described in the LORS Section 5.6.11 of the AFC.

**Table 2.6-1**
**Vegetation Acreage within**
**Water Pipeline Extension Study Area East of the Main Canal**

| Vegetation Community | Existing Acres |
|---|---|
| Arrowweed Scrub | 5.5 |
| Desert Saltbush Scrub | 1.3 |
| Disturbed Desert Saltbush Scrub | 15.8 |
| Tamarisk Scrub | 6.2 |
| Open Water Channel | 1.6 |
| Agricultural Lands | 12.8 |
| Ornamental | 0.1 |
| Disturbed Vegetation | 49.6 |
| Developed | 72.3 |
| Total Acreage | 165.2 |

**Table 2.6-2**
**Solar Two Water Line Vegetation within 30-ft Construction ROW**

| Vegetation Community | East of Main Canal | West of Main Canal * |
|---|---|---|
| Agriculture | 0.87 | |
| Arrowweed Scrub | 0.65 | |
| Developed | 8.65 | 0.08 |
| Disturbed | 3.09 | 1.85 |
| Disturbed Saltbush Scrub | 1.95 | |
| Open Channel | 0.20 | |
| Ornamental | 0.01 | |
| Salt Bush Scrub | 0.20 | |
| Tamarisk Scrub | 0.84 | 0.64 |
| Disturbed Creosote Bush Scrub | 0.00 | 0.91 |
| Creosote Bush Scrub | 0.00 | 9.28 |
| Grand Total | 16.46 | 12.76 |
| Total Native Vegetation | 3.84 | 10.83 |

* Portion of pipeline alignment previously addressed in AFC document (URS 2008).

No special-status wildlife or plant species were detected during the 2009 survey effort. Due the disturbed condition of habitats adjacent to the highway, no impacts to special-status species are anticipated as a result of construction activities associated with the pipeline extension. Most of the study area occurs in an area that has been previously disturbed or developed and is unlikely to support sensitive species (e.g., flat-tailed horned lizard) in potentially suitable habitats directly adjacent to the state highway. Burrowing owl, a state species of concern, has moderate potential to occur in the adjacent agricultural fields and along the banks of the canals. No owls or potential burrows were detected during the 2009 field effort.

#### *2.6.2.2 Distributed Hydrogen System*

The environmental consequences remain unchanged from the Project AFC discussed in 5.6.1.

### 2.6.3 Cumulative Impacts

No additional cumulative impacts to the biological resources have been identified as part of this supplemental analysis. Cumulative impacts discussed in Section 5.6.9 of the Project AFC are applicable to the proposed Project changes. No additional cumulative impacts to biological resources have been identified as part of this supplemental analysis.

### 2.6.4 Mitigation Measures

The mitigation measures and other discussion presented in Section 5.6.10 of the Project AFC are applicable to the proposed Project changes. No additional mitigation measures are recommended based on the Project modifications. With implementation of the mitigation measures outlined in Section 5.6.10 of the Project AFC, impacts to biological resources as a result of construction and operation will be reduced to less significant levels. Vegetation clearing for the water pipeline will be scheduled to avoid the bird breeding season (February 1 to June 30).

### 2.6.5 LORS Compliance

The LORS presented in Section 5.6.11 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.6.11 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.6.11 of the Project AFC.

## 2.6.6 References

California Department of Fish and Game (CDFG), 2009. *California Natural Diversity Database*. Plaster City and Seeley, California 7.5-Minute Topographic Quadrangles. April 2009.

California Native Plant Society (CNPS), 2009. *Inventory of Rare and Endangered Plants of California*. Plaster City and Seeley, California 7.5-Minute Topographic Quadrangles. April 2009.

URS Corporation. 2008. SES Solar Two Application for Certification. June.

URS Corporation. 2009. Review of federal and state surface waters for the Sterling Energy Systems Solar Two Project. February.

URS Corporation. 2009. Biological Assessment - Solar 2 Proposed Waterline Extension Letter Report. May.

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SOLAR 2
PROJECT BOUNDARY
Matchline

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**LEGEND**

- Proposed Waterline Centerline
- # Photo Point
- Culverts
- 150-foot Buffer
- Vegetation
  - AG = Agriculture
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  - TS = Tamarisk Scrub

SOURCES: NAIP (Aerial 2005),
URS (Vegetation delineations, 2009)

# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

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SCALE: 1" = 200' (1:2,400)
SCALE CORRECT WHEN PRINTED AT 11X17

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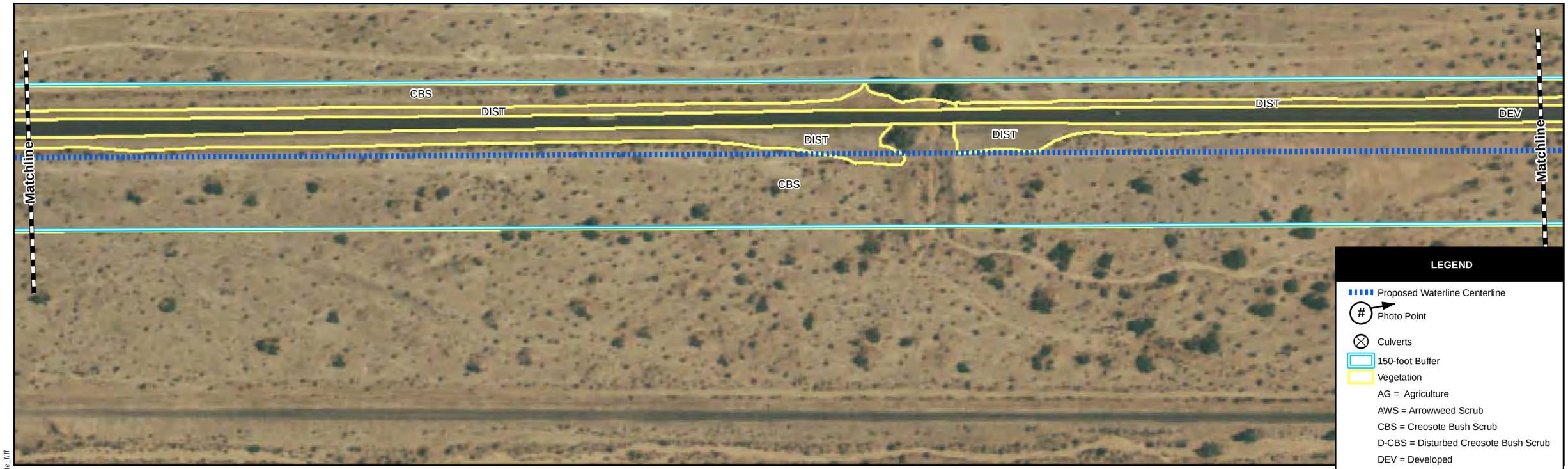


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# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

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SCALE: 1" = 200' (1:2,400)
SCALE CORRECT WHEN PRINTED AT 11X17

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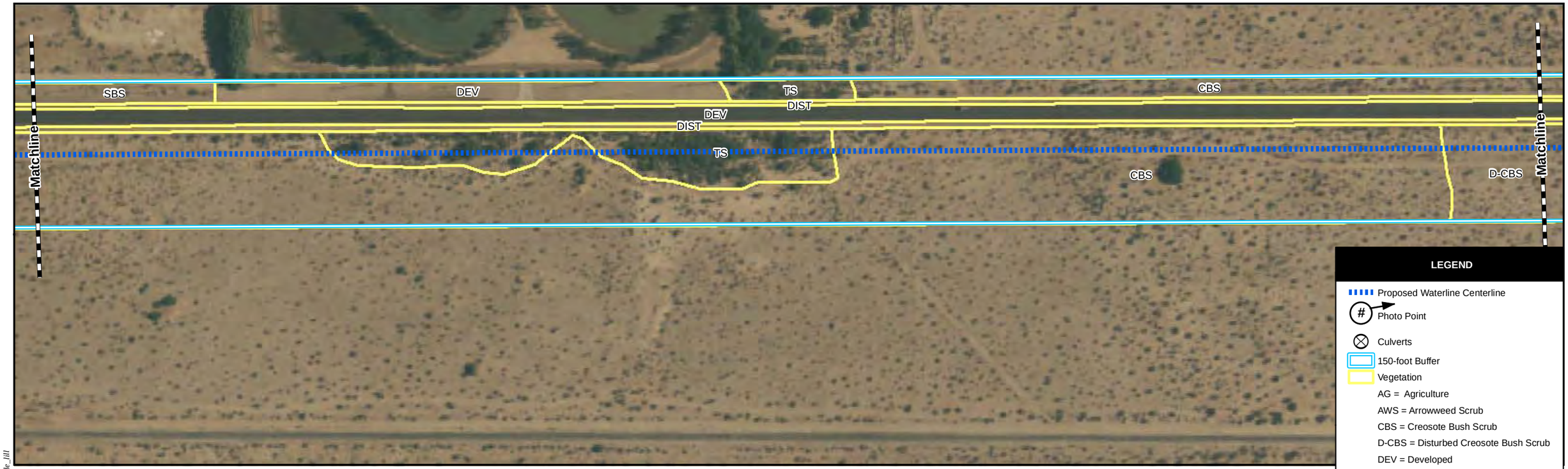


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# WATER LINE
# VEGETATION SURVEY RESULTS

URS

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SCALE: 1" = 200' (1:2,400)
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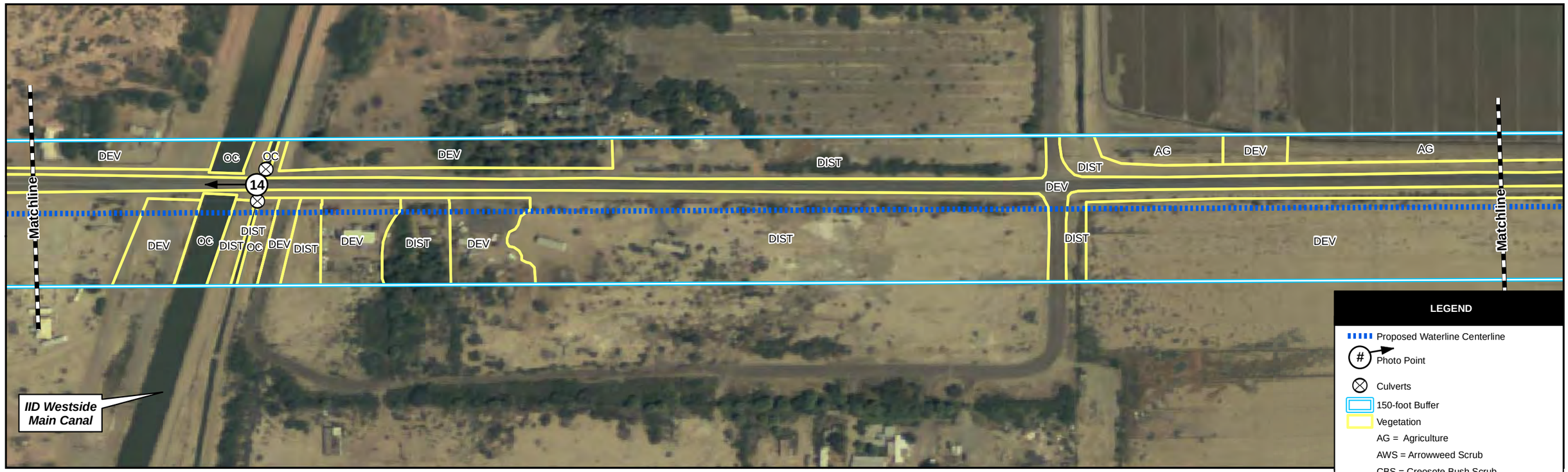


SOURCES: NAIP (Aerial 2005),
URS (Vegetation delineations, 2009)

# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

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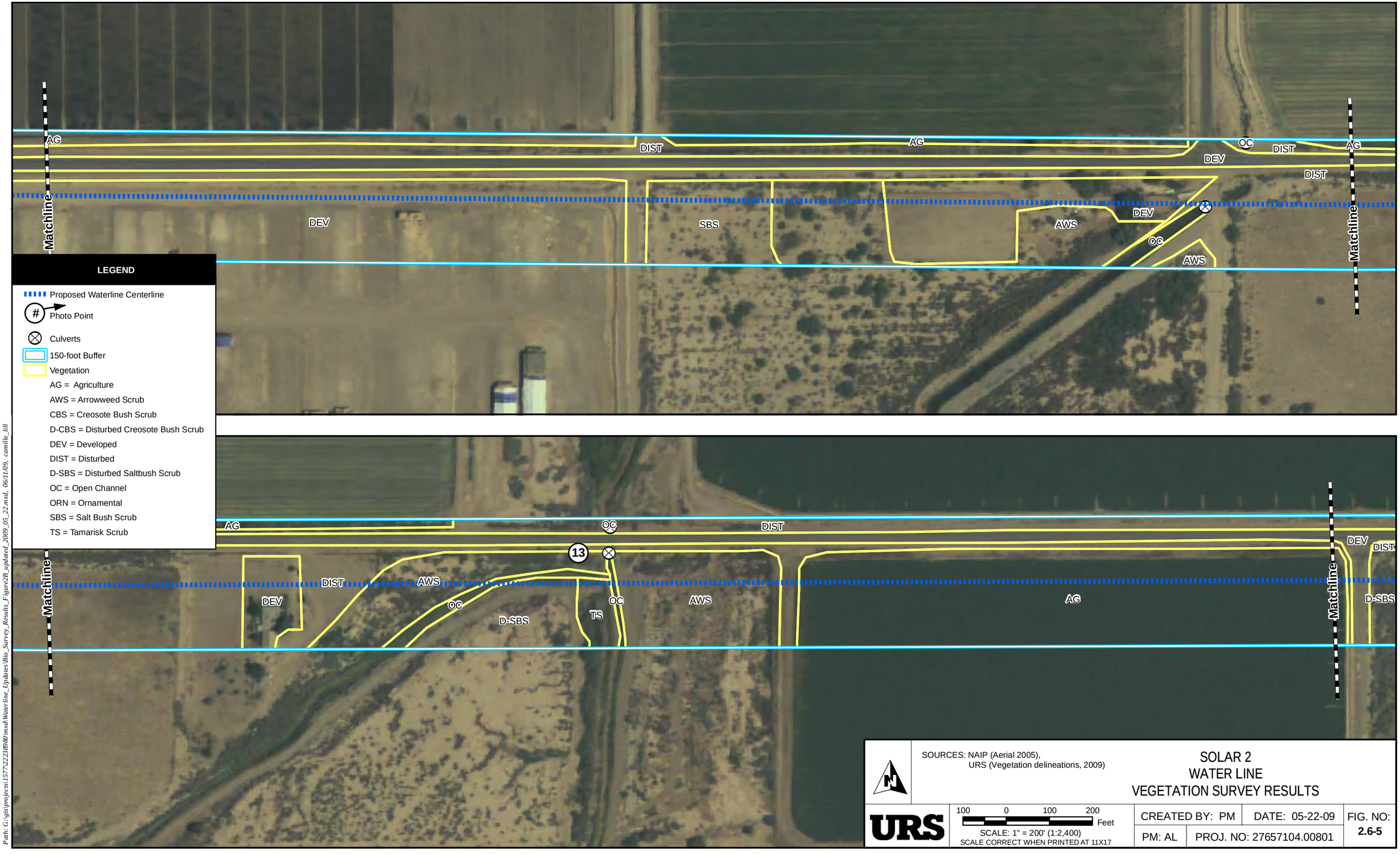


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# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

100 0 100 200 Feet

SCALE: 1" = 200' (1:2,400)
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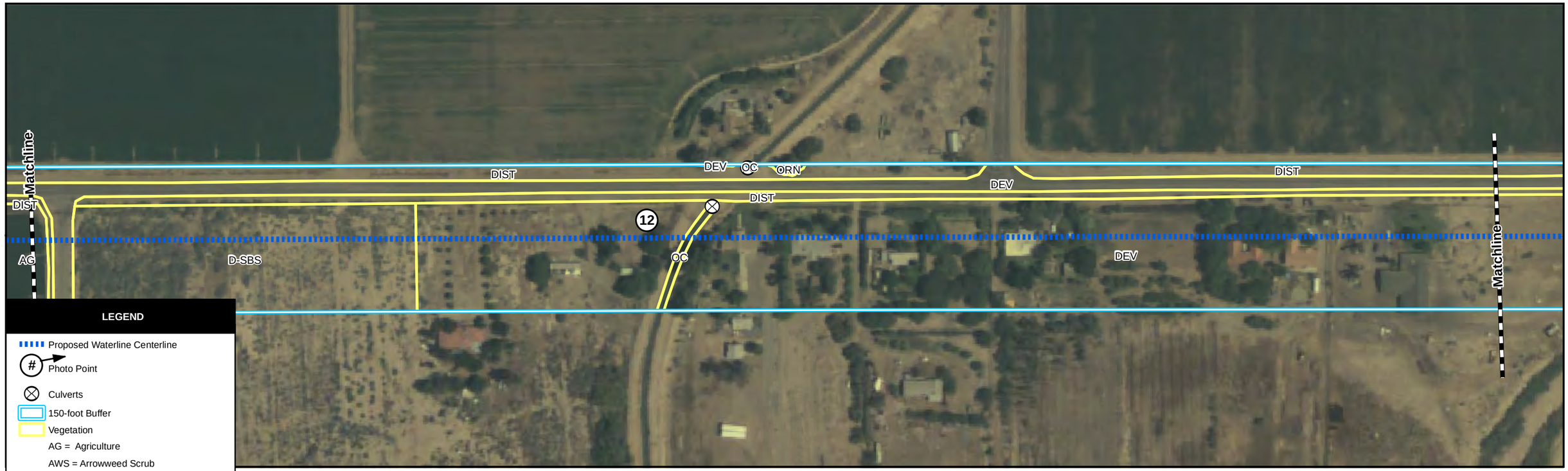


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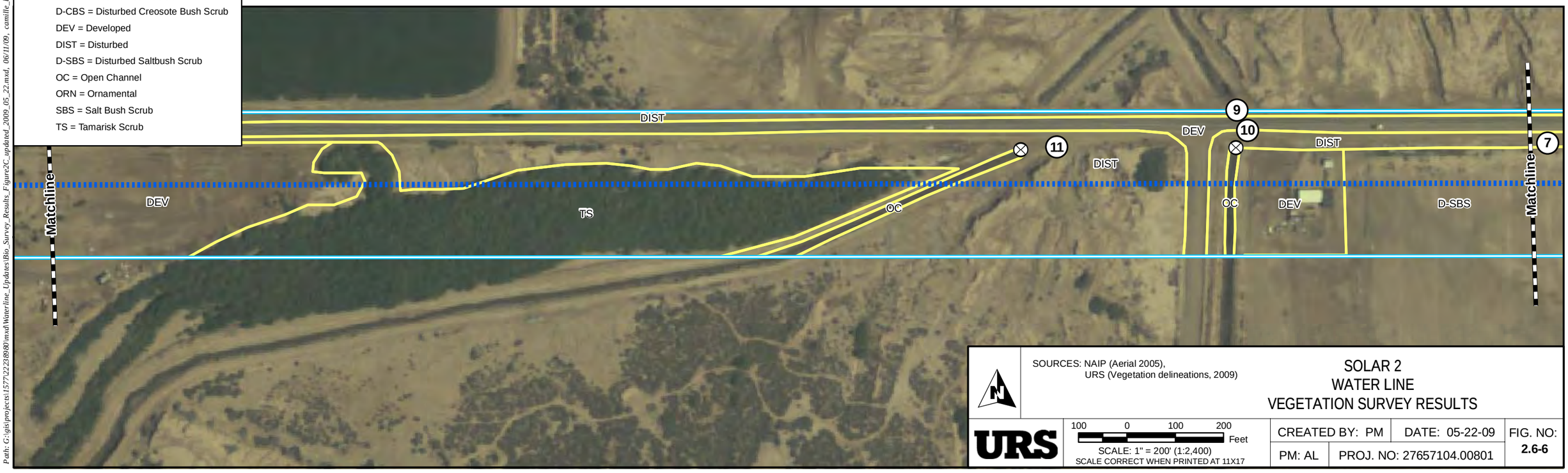


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URS

100 0 100 200 Feet

SCALE: 1" = 200' (1:2,400)
SCALE CORRECT WHEN PRINTED AT 11X17

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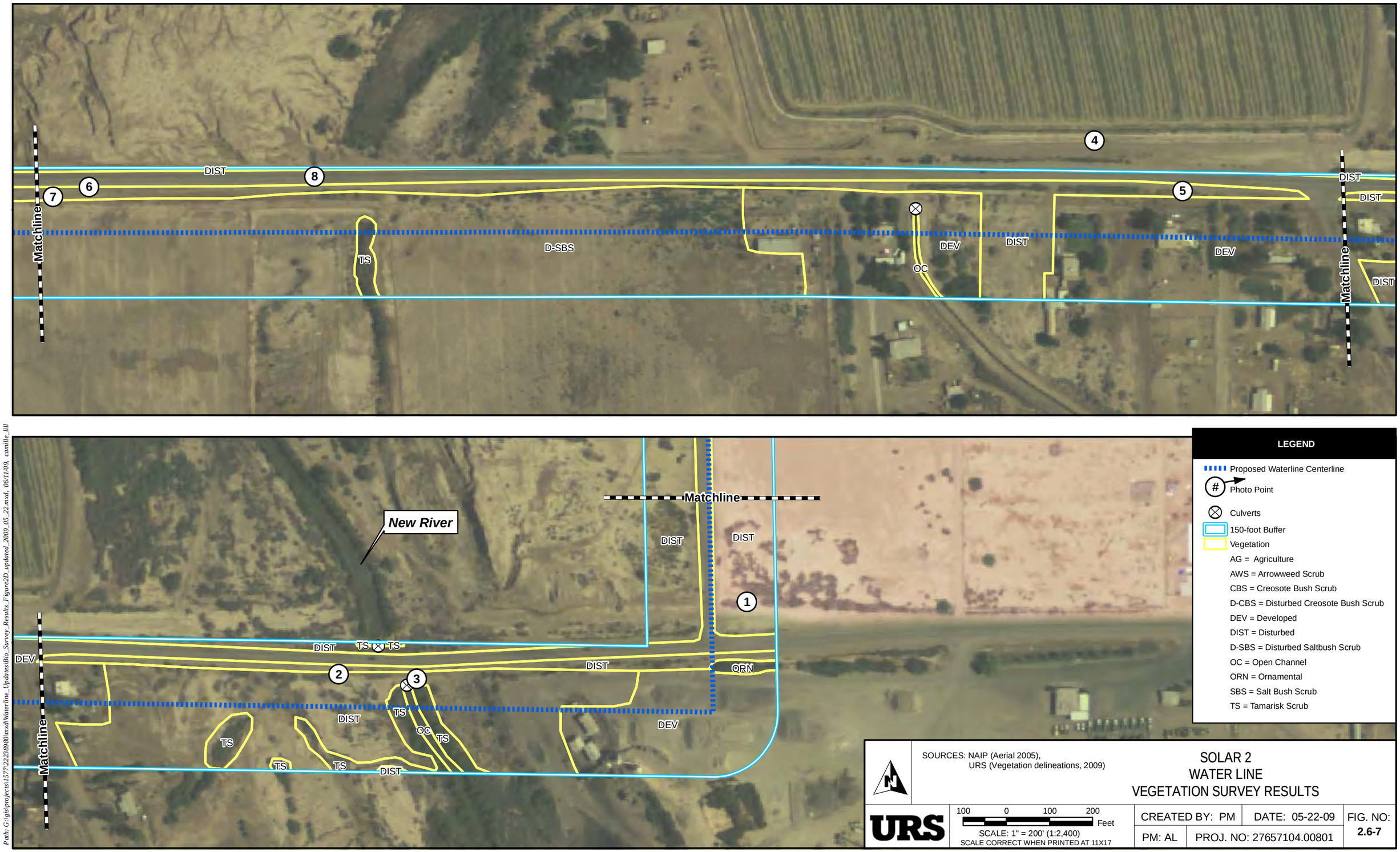


LEGEND

- Proposed Waterline Centerline
- # Photo Point
- Culverts
- 150-foot Buffer
- Vegetation
  - AG = Agriculture
  - AWS = Arrowweed Scrub
  - CBS = Creosote Bush Scrub
  - D-CBS = Disturbed Creosote Bush Scrub
  - DEV = Developed
  - DIST = Disturbed
  - D-SBS = Disturbed Saltbush Scrub
  - OC = Open Channel
  - ORN = Ornamental
  - SBS = Salt Bush Scrub
  - TS = Tamarisk Scrub

SOURCES: NAIP (Aerial 2005),
URS (Vegetation delineations, 2009)

# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

100 0 100 200 Feet

SCALE: 1" = 200' (1:2,400)
SCALE CORRECT WHEN PRINTED AT 11X17

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| PM: AL | PROJ. NO: 27657104.00801 | |

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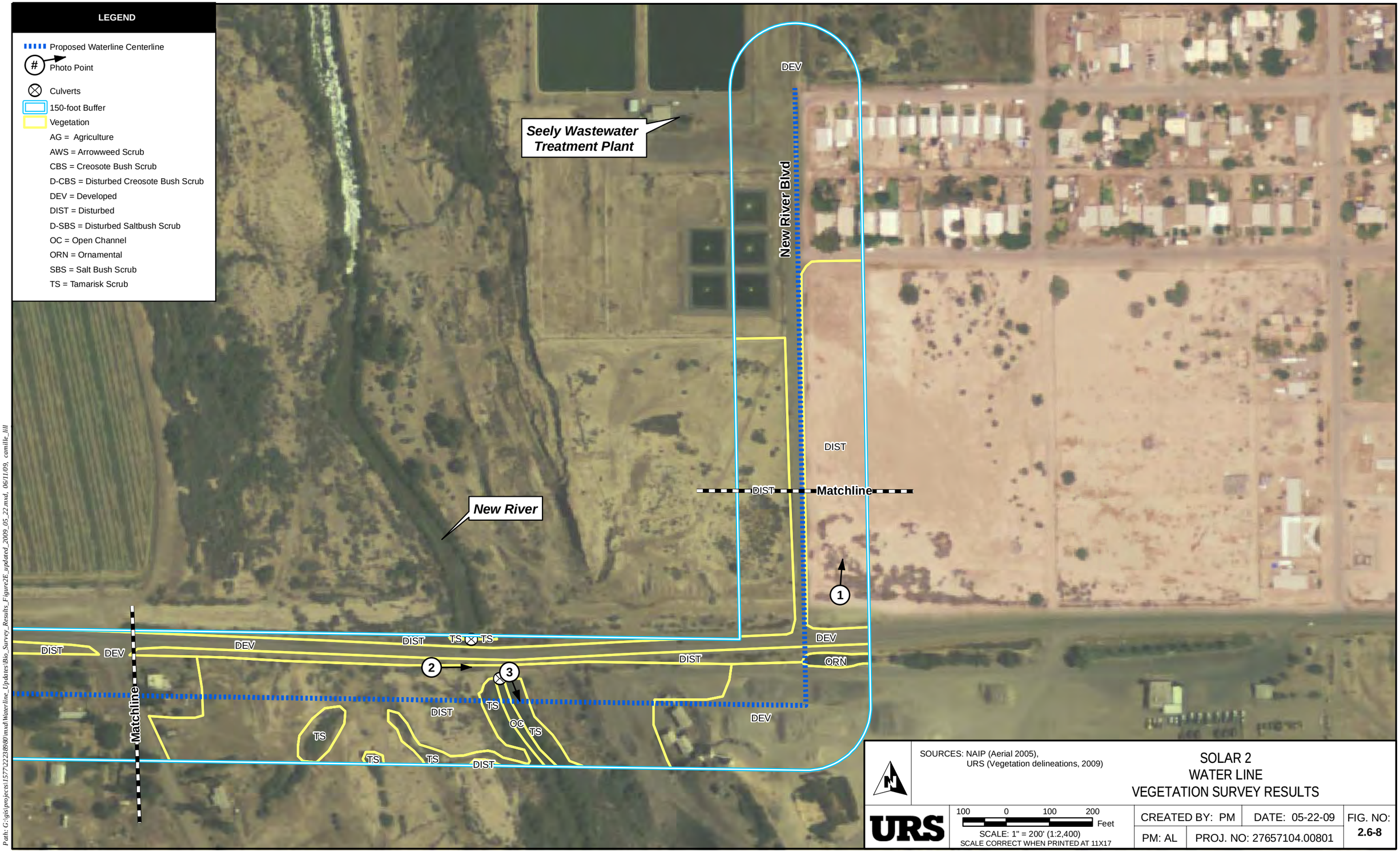
**LEGEND**

- Proposed Waterline Centerline
- # Photo Point
- Culverts
- 150-foot Buffer
- Vegetation
  - AG = Agriculture
  - AWS = Arrowweed Scrub
  - CBS = Creosote Bush Scrub
  - D-CBS = Disturbed Creosote Bush Scrub
  - DEV = Developed
  - DIST = Disturbed
  - D-SBS = Disturbed Saltbush Scrub
  - OC = Open Channel
  - ORN = Ornamental
  - SBS = Salt Bush Scrub
  - TS = Tamarisk Scrub




SOURCES: NAIP (Aerial 2005),
URS (Vegetation delineations, 2009)

# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

100 0 100 200 Feet

SCALE: 1" = 200' (1:2,400)
SCALE CORRECT WHEN PRINTED AT 11X17

| CREATED BY: PM | DATE: 05-22-09 | FIG. NO: 2.6-8 |
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# 2.7 CULTURAL RESOURCES

## 2.7.1 Affected Environment

The affected environment for Cultural Resources was originally discussed in Section 5.7.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

## 2.7.2 Environmental Consequences

With the exception of the aforementioned water line extension, the environmental consequences remain unchanged from the AFC section 5.7.1. A discussion on the environmental consequences from the change in water source and hydrogen system is presented below and in Confidential Appendix D to the Solar Two AFC Supplement.

### *2.7.2.1 Seeley Waste Water Treatment Facility*

A cultural resources pedestrian survey and a historic built environment survey were conducted for the areas associated with the SWWTF water line extension. The Seeley Water Line Extension Corridor was surveyed as a supplemental project related to the SES Solar Two Project (Project). The survey corridor measures approximately 8 miles long, with a 150-ft cultural resources survey buffer to the north and south of the centerline (Figure 2.7-1). The corridor begins at the far northeastern corner of the Solar Two project area and continues, paralleling Evan Hewes Highway, until it deviates to the north, ending at the SWWTF.

#### 2.7.2.1.1 Cultural Resources Survey Results

A records search was conducted 18 of February 2009 for a quarter-mile radius around the centerline of the survey corridor. The records search revealed eight projects had been previously conducted and twenty-nine cultural resource locations have been previously documented in the records search buffer area. Table 2.7-1 lists the previously preformed investigations within the water line records search buffer. Table 2.7-2 presents the cultural resources previously documented within the records search boundary. All results including figures and site descriptions are presented in the Confidential Appendix D.

**Table 2.7-1**
**Previously Performed Investigations**

| Project Name | NABD # | Produced by | Produced for | Date |
|---|---|---|---|---|
| Archaeological Examination for the Seeley, California Wastewater Facilities Plan | 1100070 | Jay and Sherilee Von Werlhof Imperial Valley College Museum | Design Sciences | May 1976 |
| Cultural Resource Investigations for 30 Proposed Asset Management Parcels in Imperial Valley, CA | 1100301 | Patrick Welsh | BLM | July 1983 |
| Review of Alamosa PCS Site # 82502020 County of Imperial, CA | 1100757 | Environmental Biologists, Inc/SBA | Imperial County, CA | September 2000 |
| Cultural Resource Assessment AT&T Wireless Services Facility No. IM004 Imperial County, CA | 1100804 | Curt Duke LSA Associates | GeoTrans Inc. | March 2002 |
| Cultural Resources Survey and Assessment of a Cellular Phone Tower Replacement and Associated Access Road Along Old US Highway 80 Near Dixieland, Imperial County, CA | 1100820 | Philip de Barros, Ph.D. Professional Archaeological Services | Phase One Inc | May 2000 |
| Section 106 Consultation Request Cell Site CA-7 New Site # 58 Seeley, Imperial County, CA | 1100916 | Joseph M. Nixon Ph.D. Tierra Environmental Services | BRG Consulting Inc | May 2002 |
| Archaeological Examination of A Proposed County Waste Disposal Site near Calexico, CA | 1100071 | Jay and Sherilee Von Werlhof | Department of Public Land Works, Imperial County | May 1976 |
| Phase 1 Archaeological Survey of the Proposed Imperial Site, New Mental Health Treatment Facility Project | 1101071 | Mark C. Robinson, Applied EarthWorks, Inc | State of California Real Estate Services Division | January 2000 |
| Cultural Resources Study of the Mount Signal and Dixie Ranch Imperial County Prison Alternatives Imperial County, CA | 1101057 | Andrew Pignolo ERC Environmental and Energy Services Company, Inc. | California Department of Corrections | January 1990 |
| Volume I Phase II Archaeological Survey of the La Rosita 230 kV Interconnection Project | 1100251 | Cultural Systems Research, Inc. | San Diego and Electric | November 1987 |

**Table 2.7-2**
**Previously Recorded Cultural Resources**

| Site Name | Cultural Affiliation | Description | Comments |
|---|---|---|---|
| CA-IMP-321 | Prehistoric | Cremation | Site location has not been identified since initial recording |
| 4-IMP-453 | Prehistoric | Pottery shards | Leveling operating that revealed buried pottery. |
| 4-IMP-1425 | Prehistoric | Isolated find – pottery sherd | |
| 4-IMP-1426 | Prehistoric | Village site – extensive pottery and lithic materials | |
| 4-IMP-4193H | Historic | Refuse deposit | |
| 4-IMP-4389 | Prehistoric | Isolate-buffware rim sherd | |
| 4-IMP4390H | Historic | Refuse deposit | |
| 4-IMP-4391H | Historic | Refuse deposit | |
| 4-IMP-4602 | Prehistoric | Pottery scatter – pot drop | Salton Buff |
| 4-IMP-4603 | Prehistoric | Isolate – Basalt flake | |
| CA-IMP-7816H | Historic | Refuse Deposit | Potentially related to the railroad |
| US Highway 80 | Historic | Linear Highway | Reevaluated with the SES Solar Two Class III Cultural Resources Technical Report |
| San Diego and Arizona Eastern Railway | Historic | Linear Rail Road | Reevaluated with the SES Solar Two Class III Cultural Resources Technical Report |
| P-13-009129 | Prehistoric | Isolate - Brownware pottery sherd | |
| CA-IMP-8427 | Prehistoric | Open Camp with lithic tools and flakes, ceramics, and three features and groundstone | |
| P-13-009221 | Prehistoric | Isolate – two secondary porphyry flakes | |
| P-13-00922 | Historic | Isolate – glass insulator cap | |
| CA-IMP-8658 | Prehistoric | Temporary Camp lithic tools and flakes, ceramics groundstone and a feature | |
| P-13-009727 | Prehistoric | Isolate-single gray metavolcanic flake | |
| CA-IMP-8729 | Prehistoric | Lithic and ceramic scatter | |
| CA-IMP-8730 | Prehistoric | Lithic and ceramic scatter | |

A survey buffer of 150 feet on either side of the waterline center was established. Only those propoerties within this buffer that had given URS right of entry (ROE) were surveyed. These include the following. From the extreme northeastern edge of the project boundary, a buffer of 150' was surveyed south of Evan Hewes Highway through sections 10 and 11. Although rectangular areas at the eastern extreme of Section 10 were available, the bulk of these areas were outside the survey corridor. Section 12 was surveyed on both sides of the road. Certain accessible parcels were surveyed in section 7. No survey occurred in section 8 for lack of ROEs. Only the parcel north of the road was available in Section 9. Along the east section line of sections 11 and 68, a parcel was surveyed. The first three parcels on the east side of the north-south road (graded) moving towards the treatment plant were also surveyed. Finally a parcel, west of the north south road to the water treatment plant in section 68 was surveyed. Figures 2.7-1 and 2.7-2 depict the areas which were surveyed.

The result of the survey was the recordation of one previously recorded cultural resource site, three newly recorded cultural resource site, and five newly recorded prehistoric isolated artifacts. The tabular results of the survey are presented in Table 2.7-3.

**Table 2.7-3**
**Cultural Resource Survey Results**

| Site Name | Cultural Affiliation | Description |
|---|---|---|
| Previously Recorded Site | | |
| IMP-4391/H | Historic | Refuse Deposit |
| Newly Recorded Sites | | |
| KRM-SLY-1 | Historic | Linear site, 17 highway markers, 12 historic refuse deposit locations |
| KRM-SLY-3 | Prehistoric | Ceramic and lithic scatter |
| KRM-SLY-5 | Prehistoric | Possible open camp |
| Newly Recorded Isolates | | |
| SLY-ISO-2 | Prehistoric | Metavolcanic hammerstone |
| SLY-ISO-4 | Prehistoric | Tested metavolcanic cobble |
| SLY-ISO-6 | Prehistoric | Metavolcanic secondary flake |
| SLY-ISO-7 | Prehistoric | Sandstone mano fragment |
| SLY-ISO-8 | Prehistoric | Metavolcanic secondary flake. |

The Class III pedestrian survey of The Seeley Water Line Extension Corridor resulted in the recording of three sites, one historic and two prehistoric; five isolated finds; and the reevaluation of one previously recorded site. One of the sites is recommended as requiring further investigation to determine if subsurface deposits exist and eligibility for nomination to the NRHP or the CRHR. The remaining sites are recommended as requiring no further work. Previously recorded site IMP-4391H was previously unevaluated. URS Corporation recommends the site as not eligible for nomination to the NRHP or CRHR. Detailed cultural resource site descriptions and additional information can be found in Confidential Appendix D.

#### 2.7.2.1.2 Historic Built Environment Survey Results

In March and April, 2009, Mr. Jeremy Hollins, URS Architectural Historian, completed a supplemental reconnaissance-level historic architecture survey for six historic-period properties located immediately outside of the right-of-way for a proposed subsurface waterline that travels from the northeast corner of the Project Area to the SWWTF, primarily along Evan Hewes Highway in Imperial County, California.

Per the CEC Rules of Practice and Procedure and Power Plant Site Regulations Revisions, Appendix D (g)(2)(C), the proposed waterline is not considered an "above-ground linear facility," and therefore the historic architecture survey did not extend a half-mile past the proposed waterline. Rather, investigators performed a historic architecture survey for the parcels adjacent to the west and eastbound lanes of Evan Hewes Highway. Of note, the reconnaissance survey occurred from public vantage points, since site access and right-of-entry were not available at the time of survey for the privately-owned properties. In areas where views of the property were obstructed (*e.g.,* tree overgrowth), arrangements were made to access the properties or investigators utilized available information to study the property. For the most part, the survey did not consider properties set far back from the edge/boundary of their parcel and large rural properties were not identified or evaluated beyond the area reasonably subject to effect by the Project.

The six historic-period properties included: Portion of the Dixie Drain 3, Portion of Fern Canal, Portion of Fig Canal, Portion of Forgot-Me-Not Canal, Portion of Foxglove Canal (previously recorded as CA-IMP-8821H), and Portion of Salt Creek Drain 2. Historic-period properties which were previously surveyed as part of the Solar II project were not surveyed as part this supplemental reconnaissance-level architecture survey. These properties included: CA-IMP-7834H (Portion of the Westside Main Canal), 37-025680 (Portion of San Diego and Arizona Railroad), CA-IMP-7886H (Portion of Highway 80), CA-IMP-7739H (Portion of U.S. Gypsum Rail-Line), and P-13-009303 (Plaster City Plant).

Details, additional information and recommendations related to the historic built environment survey results can be found in Confidential Appendix D.

### *2.7.2.2 Distributed Hydrogen System*

The hydrogen gas will be stored in a steel storage tank capable of storing approximately two days supply of hydrogen gas. It will be piped through a 1 ½ "stainless steel piping system to 87 individual compressor groups. Each compressor group will be electrically operated and consist of a compressor, delivering gas at approximately 2,900 psig, and a high pressure supply tank. All the impacts would occur within the Proposed Project site. The site was surveyed for the original Solar Two 2008 AFC document and the survey results are located in Appendix Z, Cultural Resources Technical Report. Because the site has already been surveyed and the impacts evaluated, the impact analysis presented in the AFC remains unchanged from the new distributed hydrogen system.

## 2.7.3 Cumulative Impacts

No additional cumulative impacts to the cultural resources have been identified as part of this supplemental analysis. Cumulative impacts discussed in Section 5.7.9 of the Project AFC are applicable

to the proposed Project changes. No additional cumulative impacts to the cultural resources have been identified as part of this supplemental analysis.

### 2.7.4 Mitigation Measures

The mitigation measures and other discussion presented in Section 5.7.10 of the Project AFC are applicable to the proposed Project changes. No additional mitigation measures are recommended based on the Project modifications.

With implementation of the mitigation measures outlined in Section 5.7.10 of the Project AFC, impacts to Cultural resources as a result of construction and operation will be reduced to less significant levels.

### 2.7.5 LORS Compliance

The LORS presented in Section 5.7.11 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. The LORS compliance evalution presented in the AFC remains unchanged. Similarly, the agency contact information presented in Section 5.7.11 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.7.11 of the Project AFC.

### 2.7.6 References

A.G. Thurston. 1912. Irrigation District and Road Map – Imperial Valley.

Albert G. Thurston. 1914. Imperial Valley Tract Map.

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USGS. 1908. El Centro USGS Quadrangle Map.

USGS. 1915. El Centro 15-minute USGS Quadrangle Map.

USGS. 1943, 1957. Painted Gorge 7.5-minute USGS Quadrangle Maps.

USGS. 1940. Plaster City 15-Minute USGS Quadrangle Map.

USGS. 1943, 1944. Plaster City 1 to 62,500 Scale Map.

USGS. 1940. Brawley 15-minute USGS Quadrangle Map.

USGS. 1957. Brawley 7.5-minute USGS Quadrangle Map.

USGS. 1957, 1979. Seeley 7.5- minute USGS Quadrangle Map.

Figure 2.7-1
SES Solar Two Seeley Water Line Extension
Areas Surveyed and Survey Access

**Legend**

- Proposed Waterline Extension Centerline
- Initially Proposed Waterline
- Proposed_750MW 230kv Transmission Line
- Proposed Main Access Road
- AccessRd_50ftBuffer
- Laydown Area
- Laydown Staging Area
- Project Boundary

- DO NOT Enter
- OK to Enter
- Unknown - will not enter
- **Area Surveyed for the Waterline Extention**

0 0.25 0.5 1 Miles

1:24,000

URS

EBR 5/21/2009

Figure 2.7-2
SES Solar Two Seeley Water Line Extention
Areas Surveyed and Survey Access

**Legend**

- Proposed Waterline Extension Centerline
- Initially Proposed Waterline
- Proposed_750MW 230kv Transmission Line
- Proposed Main Access Road
- AccessRd_50ftBuffer
- Laydown Area
- Laydown Staging Area
- Project Boundary

- DO NOT Enter
- OK to Enter
- Unknown - will not enter
- Area Surveyed for the Waterline Extention

0 0.25 0.5 1 Miles

1:24,000

URS

EBR 5/21/2009

# 2.8 PALEONTOLOGICAL RESOURCES

## 2.8.1 Affected Environment

The affected environment for Paleontological Resources was originally discussed in Section 5.8.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the Project boundary) would create an addition to the affected environment.

## 2.8.2 Environmental Consequences

### *2.8.2.1 Seeley Waste Water Treatment Facility*

As discussed above, using the SWWTF would result in a new water line route from SWTTF to the edge of the Project site. Because the pipeline will be buried less than 3 feet (approximately 30 inches), no additional paleontological surveys were performed. Using the SWWTF as the Project water source will result in minor changes that do not create additional construction or operation related impacts to paleontological resources beyond those presented in Section 5.8.2 of the Project AFC.

### *2.8.2.2 Distributed Hydrogen System*

As discussed in Section One, implementation of the distributed hydrogen system will not result in additional ground disturbance from that analyzed in the AFC. Therefore, the Distributed Hydrogen System does not create additional construction or operation related impacts to paleontological resources beyond those presented in Section 5.8.2 of the Project AFC.

## 2.8.3 Cumulative Impacts

The Seeley Waste Water Treatment Facility and the Distributed Hydrogen System do not result in additional cumulative impacts to the paleontological resources beyond those identified in Section 2.8.3 of the Project AFC.

## 2.8.4 Mitigation Measures

The mitigation measures and other discussion presented in Section 5.8.4 of the Project AFC are applicable to the proposed Project changes. No additional mitigation measures are recommended based on the Project modifications.

Implementation of the mitigation measures outlined in Section 5.8.4 of the Project AFC, will reduce impacts to paleontological resources as a result of plant construction and operation to less than significant levels.

## 2.8.5 LORS Compliance

The LORS presented in Section 5.8.5 of the Project AFC are applicable to the revised Project and no additional LORS have been identified. Similarly, the agency contact information presented in Section 5.8.5 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.8.5 of the Project AFC.

## 2.8.6 References

This supplemental analysis used no references beyond those presented in Section 5.8.6 of the Project AFC.

## 2.9 LAND USE

### 2.9.1 Affected Environment

The affected environment for Land Use was originally discussed in Section 5.9.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

### 2.9.2 Environmental Consequences

With the exception of the aforementioned water line extension, the environmental consequences remain unchanged from the AFC section 5.7.1.

#### *2.9.2.1 Seeley Waste Water Treatment Facility*

The corridor begins at the far northeastern corner of the Solar Two project area and continues, paralleling Evan Hewes Highway, until it deviates to the north, ending at the Seeley Waste Water Treatment Facility. The ROW passes through land uses to the north and south of Evan Hewes Highway that are mainly zoned for General Agriculture (A2), but also an Industrial Zone (M2). Permitting required for installation of the SWWTF within the ROW includes approval of plans by the County of Imperial Department of Public Works and the issuance of an encroachment permit. The cost of the permit is assessed by distance.

Currently the Evan Hewes Highway ROW contains a gas pipeline. None of the local zoning is incompatible with the proposed water line. The land use will not change for the areas associated with the SWWTF water line extension. The SWWTF water line will not cause any impacts to the land uses on adjacent properties. There are no Williamson Act lands on any of the adjacent parcels. No impacts to land use are anticipated to result from the addition of the SWWTF pipeline.

#### *2.9.2.2 Distributed Hydrogen System*

All the impacts resulting from inclusion of a Distributed Hydrogen System would occur within the Proposed Project site. The proposed land use will remain the same, and no additional land use resources will be affected. The impact analysis presented in the AFC remains unchanged by the new distributed hydrogen system.

### 2.9.3 Cumulative Impacts

No additional cumulative impacts to the Land Use resources have been identified as part of this supplemental analysis. Cumulative impacts discussed in Section 5.9.4 of the Project AFC are applicable to the proposed Project changes. No additional cumulative impacts to the Land Use resources have been identified as part of this supplemental analysis.

### 2.9.4 Mitigation Measures

No additional mitigation measures beyond those presented in Section 5.9.4 of the Project AFC are recommended based on the Project modifications.

### 2.9.5 LORS Compliance

The LORS presented in Section 5.9.6 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. The LORS compliance evaluation presented in the AFC remains unchanged. Similarly, the agency contact information presented in Section 5.9.6 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.9.6 of the Project AFC. However, an encroachment permit is required by the County of Imperial Department of Public Works for installation of the pipeline within the Evan Hewes Highway ROW. Therefore Table 5.9-10 Applicable Permits has been revised and included below.

**Table 2.9-1**
**Applicable Permits**

| Responsible Agency | Permit/Approval | Schedule |
|---|---|---|
| Imperial County Department of Planning and Building | Conditional Use Permit | To be announced |
| Imperial County Department of Public Works | Encroachment Permit | To be announced |
| Bureau of Land Management | Amendment to California Desert Conservation Area | 12 months |
| California Energy Commission | Certification | 12 months |

Source: Imperial County Department of Planning and Building, and Department of Public Works 2009.

### 2.9.6 References

No additional references were used for this supplemental analysis beyond those cited below and presented in Section 5.13.6 of the Project AFC.

URS conducted a phone conversation with Richard Cabanilla of the Imperial County Department of Planning and Building on June 8, 2009.

URS conducted a phone conversation with Manuel Ortiz of the Imperial County Department of Public Works on June 8, 2009.

URS conducted a phone conversation with Brian Donnelly of the Imperial County Building Division on June 8, 2009.

# 2.10 SOCIOECONOMICS

## 2.10.1 Affected Environment

The affected environment evaluated in the Application for Certification (AFC) included the County of Imperial. While the Project footprint has changed slightly with the addition of a new off-site water line route, the affected environment for this supplement is unchanged from that presented in Section 5.10.1 of the Project AFC.

## 2.10.2 Environmental Consequences

The addition of the water pipe connecting SWWTF to the Project would not change the environmental consequences reported in AFC section 5.10, Socioeconomics. However the Project includes an upgrade of the SWWTF, increasing its production capacity for treated effluent water that will be available for other uses within the community such as park watering. The upgrading of the SWWTF production capacity would contribute to additional beneficial environmental consequences of the Project.

### *2.10.2.1 Seeley Waste Water Treatment Facility*

Changes to the Project include installation of a water pipe connecting the Project to the Seeley Waste Water Treatment Facility for the purposes of supplying the project with reclaimed water for use on the Project site. The socioeconomic conditions of the region or local areas will remain unchanged from the conditions previously considered in the Project AFC. The addition of the water line is not a significant change with regard to socioeconomics considerations. The configuration changes will result in minor changes that do not create additional construction or operation related impacts to socioeconomics beyond those presented in Sections 5.10.2.1 and 5.10.2.4 of the Project AFC.

### *2.10.2.2 Distributed Hydrogen System*

Changes to the Project include installation of hydrogen gas supply, storage and distribution system. The socioeconomic conditions of the region or local areas will remain unchanged from the conditions previously considered in the Project AFC. The addition of the hydrogen system is not a significant change with regard to socioeconomics considerations. The configuration changes will result in minor changes that do not create additional construction or operation related impacts to socioeconomics beyond those presented in Sections 5.10.2.1 and 5.10.2.4 of the Project AFC.

## 2.10.3 Cumulative Impacts

No additional cumulative impacts to socioeconomics have been identified as part of this supplemental analysis.

## 2.10.4 Mitigation Measures

No additional mitigation measures are recommended based on the Project modifications.

### 2.10.5 LORS Compliance

The LORS presented in Section 5.10.5 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.10.5 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.10.5 of the Project AFC.

### 2.10.6 References

Seeley County Water District Board meeting, February 13, 2009.

# 2.11 TRAFFIC AND TRANSPORTATION

## 2.11.1 Affected Environment

The only change to the affected environment, as originally discussed in Section 5.12.1 of the Application for Certification (AFC), is the anticipated waterline supplying water for the Project, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located approximately 13 miles east of the Project site at 1898 West Main Street in Seeley, California. Between the SWWTF and the proposed SES water treatment plant located near the Main Services Complex, SES proposes to construct an approximately 12-mile long pipeline that would follow Evan Hewes Highway and enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. Only the portion of the water line that runs a different path (from the SWWTF to the edge of the Project boundary) would create an addition to the affected environment.

## 2.11.2 Environmental Consequences

### *2.11.2.1 Seeley Waste Water Treatment Facility*

The traffic conditions within the project study area will not be substantially different than the conditions previously considered. The change of the water source provider (Seeley County Water District) and the alignment of the water supply linear will not change construction or operation related impacts to traffic and transportation and will be consistent with the findings presented in Section 5.11.2 of the Project AFC.

### *2.11.2.2 Distributed Hydrogen System*

The onsite Distributed Hydrogen System is not anticipated to create any additional construction or operation related impacts to traffic and transportation and will be consistent with the findings presented in Section 5.11.2 of the Project AFC. The onsite Distributed Hydrogen System would minimize Project operational trips with the elimination of hydrogen delivery trips.

## 2.11.3 Cumulative Impacts

No additional cumulative impacts to traffic and transportation at the Project site including both the internal and external (regional and local) circulation system within the Project study area have been identified in this supplemental analysis.

## 2.11.4 Mitigation Measures

The mitigation measures and other discussion presented in Section 5.11.4 of the Project AFC are applicable to the proposed Project changes. No additional mitigation measures are recommended based on the Project modifications.

Consistent with the mitigation discussion presented in Section 5.11.4 of the Project AFC, the project does not exceed the threshold of significance for traffic and transportation impacts.

### 2.11.5 LORS Compliance

The LORS presented in Section 5.11.5 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.11.5 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.11.5 of the Project AFC.

### 2.11.6 References

No additional references beyond those presented in Section 5.4.6 of the Project AFC were used for this supplemental analysis.

## 2.12 NOISE

### 2.12.1 Affected Environment

The only change to the affected environment, as originally discussed in Section 5.12.1 of the Application for Certification (AFC), is the anticipated waterline supplying water for the Project, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located approximately 13 miles east of the Project site at 1898 West Main Street in Seeley, California. Between the SWWTF and the proposed SES water treatment plant located near the Main Services Complex, SES proposes to construct an approximately 12-mile long pipeline that would follow Evan Hewes Highway and enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. Only the portion of the water line that runs a different path (from the SWWTF to the edge of the Project boundary) would create an addition to the affected environment.

### 2.12.2 Environmental Consequences

#### *2.12.2.1 Seeley Waste Water Treatment Facility*

The proposed water treatment facility involves anticipated equipment that includes nine (9) fluid pumps that each handle about 100-150 gallons per minute (gpm). These pumps and other facility components will be installed near the Main Services Complex, approximately 17,500 feet away from the nearest identified noise-sensitive receiver. At this distance to the nearest identified noise-sensitive receiver, and assuming above-ground installed individual equipment noise levels are no greater than 85 A-weighted decibels (dBA) at a distance of 3', which for instance would be expected from 15 kW in-line pumps that can handle the aforesaid range of flow rate, operation noise from the anticipated water treatment facility components would not be considered a significant change in impacts relative to those previously discussed in Section 5.12.2 of the Project AFC.

Construction related impacts to noise as a result of installing the system, beyond those presented in Section 5.12.2 of the Project AFC, are not expected.

#### *2.12.2.2 Distributed Hydrogen System*

The proposed distributed hydrogen ($H_2$) system involves a 1,065 standard cubic feet of hydrogen (scfh) $H_2$ generator, 1.5-inch line gas compressor, and gas storage tank to be installed near the Main Services Complex. These major components will be approximately 17,500 feet away from the nearest identified noise-sensitive receiver. An additional quantity of smaller .25-inch line gas compressors are to be installed at locations across the solar field to serve designated quantities of SunCatchers, at a ratio of one per 360. Such smaller compressors would likely be no closer than 1,000 feet to the Project property boundary, and would thus be no less than approximately 4,300 feet away from the nearest identified

noise-sensitive receiver. While operation of the $H_2$ generator could be expected to be continuous during, for example, 8-9 hour daytime periods each day of the year, the smaller compressors are only expected to operate about twice a year, and for brief periods of time (e.g., less than five minutes each event) to recharge distributed gas storage tanks that will replenish lost hydrogen from SunCatcher operation. Storage tanks and piping are expected to be either insulated or buried.

At the indicated distances to the nearest identified noise-sensitive receiver, and assuming above-ground installed individual equipment noise levels are no greater than 85 dBA at a distance of 3 feet, operation noise from the anticipated $H_2$ generation and delivery system components would not be considered a significant change in impacts relative to those previously discussed in Section 5.12.2 of the Project AFC.

While blowdown of the proposed hydrogen piping is expected as part of Project construction, such activity is very infrequent and of short duration. Hence, construction related impacts to noise as a result of installing and testing the system, beyond those presented in Section 5.12.2 of the Project AFC, are not expected.

### 2.12.3 Cumulative Impacts

No additional cumulative impacts to the noise at the site have been identified as part of this supplemental analysis.

### 2.12.4 Mitigation Measures

The mitigation measures and other discussion presented in Section 5.12.4 of the Project AFC are applicable to the proposed Project changes. No additional mitigation measures are recommended based on the Project modifications.

With implementation of the mitigation measures and guidance outlined in Section 5.12.4 of the Project AFC, impacts to noise as a result of plant construction and operation will be reduced to less than significant levels.

### 2.12.5 LORS Compliance

The LORS presented in Section 5.12.5 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.12.5 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.12.5 of the Project AFC.

### 2.12.6 References

No additional references beyond those presented in Section 5.12.6 of the Project AFC were used for this supplemental analysis.

# 2.13 VISUAL RESOURCES

## 2.13.1 Affected Environment

The affected environment for Visual Resources was originally discussed in Section 5.13.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

## 2.13.2 Environmental Consequences

With the exception of the aforementioned water line extension, the environmental consequences during project operation remain unchanged from the AFC section 5.13.1. Environmental consequences during the construction phase would extend along Evan Hewes Highway for the extent of the water line. A discussion on the environmental consequences from the change in water source is presented below.

### *2.13.2.1 Seeley Waste Water Treatment Facility*

Project Site preparation includes digging the trench to accommodate the water line on the existing landscape; however, major cuts and fills are not anticipated. Excavation work will consist of the removal, storage, and/or disposal of earth, sand, gravel, vegetation, organic matter, loose rock, and debris as necessary for construction.

During installation of the pipeline, construction activities and construction materials, equipment, trucks, and vehicles, would be visible to surrounding areas due to the flat, open viewing conditions in the area. Indirect effects associated with the installation of the pipeline may include effects associated with fugitive dust, night lighting, and the presence of construction and operation equipment. Construction activities will be conducted in a manner that minimizes (visible) dust emissions and light pollution. Such construction activities will not contrast significantly with the existing character of the visual environment which often contains large scale agricultural equipment. Construction activities within/adjacent to the existing ROW along Evan Hewes Highway are not anticipated to contrast significantly with maintenance and other operational activities that occur periodically in this ROW. Construction activities associated with the installation of the water line would not have an effect on the viewshed. Therefore, potential visual impacts from the construction of the water line would be temporary and not significant.

Because the water line will be underground and not visible, once the water line is installed, no visual impacts are anticipated.

#### *2.13.2.2 Distributed Hydrogen System*

The hydrogen gas will be stored in a steel storage tank capable of storing approximately two days supply of hydrogen gas. It will be piped through a 1.5-inch stainless steel piping system to 87 individual compressor groups. Each compressor group will be electrically operated and consist of a compressor, and a high pressure supply tank. The changes from switching to the distributed system would occur within the Main Services Complex or on the proposed Project site. The changes will not be visible and the impact analysis presented in the Project AFC remains unchanged.

### 2.13.3 Cumulative Impacts

No additional cumulative impacts to visual resources have been identified as part of this supplemental analysis. Cumulative impacts discussed in Section 5.13.3 of the Project AFC are applicable to the proposed Project changes. No additional cumulative impacts to visual resources have been identified as part of this supplemental analysis.

### 2.13.4 Mitigation Measures

The mitigation measures for temporary impacts related to construction presented in Section 5.13.4 of the Project AFC are applicable to the proposed Project changes. No additional mitigation measures are recommended based on the Project modifications.

### 2.13.5 LORS Compliance

The LORS presented in Section 5.13.5 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.13.11 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.13.5 of the Project AFC.

### 2.13.6 References

No additional references beyond those presented in Section 5.13.6 of the Project AFC were used for this supplemental analysis.

## 2.14 WASTE MANAGEMENT

This section presents a discussion of potential impacts from the generation, storage, and disposal of supplemental hazardous and non-hazardous wastes from the proposed Project.

The discussion below includes the affected environment; the environmental consequences; cumulative impacts; mitigation measures; and applicable laws, ordinances, regulations, and standards (LORS).

### 2.14.1 Affected Environment

The affected environment for Waste Management was originally discussed in Section 5.14.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

### 2.14.2 Environmental Consequences

The analysis of impacts related to waste management from the Project is based on significance criteria described in Section 5.14.2 of the Project AFC.

#### *2.14.2.1 Seeley Waste Water Treatment Facility*

Small amounts of hazardous and non-hazardous wastes may be generated during construction of the water pipeline and upgrades to the existing water treatment plant.

Waste generated during construction activities will be segregated, where practical, for recycling. Non-hazardous waste that can not be recycled will be placed in covered dumpsters and removed on a regular basis by a certified waste handling contractor for disposal at a Class III landfill. Hazardous waste generated during construction will be taken off site for recycling or disposal by a permitted hazardous waste transporter to a permitted treatment, storage, and disposal facility or Class I landfill. The management methods are further described in Table 5.14-2, Summary of Construction Waste Streams and Management Methods presented in the AFC.

Hazardous and non-hazardous waste generated during construction of the water pipeline and upgrades to the waste water treatment plant is expected to be minimal and will not significantly impact available landfill capacity. Therefore, the water line and new water source will result in minor changes that do not

create additional construction or operation related impacts to socioeconomics beyond those presented in Section 5.14.2 of the Project AFC.

#### *2.14.2.2 Distributed Hydrogen System*

Small amounts of hazardous and non-hazardous wastes may be generated during construction and operation of the distributed hydrogen system.

Waste generated during construction and operation will be segregated, where practical, for recycling. Non-hazardous waste that can not be recycled will be placed in covered dumpsters and removed on a regular basis by a certified waste handling contractor for disposal at a Class III landfill. Hazardous waste generated during construction and operation will be taken off site for recycling or disposal by a permitted hazardous waste transporter to a permitted treatment, storage, and disposal facility or Class I landfill. The management methods are further described in Table 5.14-2, Summary of Construction Waste Streams and Management Methods and Table 5.14-3, Summary of Operations Waste Streams and Management Methods presented in the AFC.

Hazardous and non-hazardous waste generated during construction and operation of the distributed hydrogen system is expected to be minimal and will not significantly impact available landfill capacity. Therefore, the configuration changes will result in minor changes that do not create additional construction or operation related impacts to socioeconomics beyond those presented in Section 5.14.2 of the Project AFC.

### 2.14.3 Cumulative Impacts

The Class I and Class III landfills and recycling facilities in the Project site area have adequate recycling and disposal capacities for the Project. Therefore, cumulative impacts from the Project site and other projects in the region are not expected to be significant.

### 2.14.4 Mitigation Measures

Implementation of Mitigation Measures WM-1 through WM-7 as described in the Project AFC, provide waste management procedures for handling non-hazardous and hazardous wastes. No additional mitigation measures are recommended based on the Project modifications.

### 2.14.5 LORS Compliance

Section 5.14.5 of the Project AFC summarizes the applicable LORS that govern the handling of non-hazardous and hazardous wastes, as well as the applicable permits that will be required for the Project. The LORS presented in Section 5.14.5 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.14.5 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.14.5 of the Project AFC.

## 2.14.6 References

No additional references beyond those presented in Section 5.14.6 of the Project AFC were used for this supplemental analysis.

## 2.15 HAZARDOUS MATERIALS HANDLING

This section presents a discussion of the potential impacts from storage and use of hazardous materials during construction and operation of the Project in terms of this Supplement to the Project Application for Certification (AFC). Design features have been incorporated into the Project regarding the use of hazardous materials, specifically storage procedures, in order to keep maximum potential impacts below defined thresholds of significance.

The discussion below includes the affected environment; the environmental consequences; cumulative impacts; mitigation measures; and applicable laws, ordinances, regulations, and standards (LORS).

### 2.15.1 Affected Environment

The affected environment for Hazardous Materials Handling was originally discussed in Section 5.15.1 of the AFC. The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the Union Pacific Railroad ROW. See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

### 2.15.2 Environmental Consequences

The analysis of impacts related to hazardous materials from the Project is based on significance criteria described in Section 5.15.2 of the Project AFC.

The following sections describe the supplemental hazardous materials that are expected to be used during the Project and the management methods for the use and storage of these materials.

#### *2.15.2.1 Seeley Waste Water Treatment Facility*

Negligible amounts of hazardous materials will likely be used during construction of the water pipeline and upgrades to the SWWTF. These materials are expected to be minimal and will not have significant impacts.

#### *2.15.2.2 Distributed Hydrogen System*

The Project has reconsidered the plan for providing hydrogen to the Project and has adopted a hydrogen gas supply, storage and distribution system. The hydrogen gas supply will be produced through electrolysis by one hydrogen generator. It is important to note that the hydrogen will not be generated

from natural gas. The generator is capable of producing 1065 standard cubic feet (scf) of hydrogen per hour and requires 146 watts/scf of electricity and 2.58 cubic inches of water/scf/hour during operation. Approximately 184 gallons of water per day or 0.0133 acre feet per year (afy) will be required for this generator. Title 22 reclaimed water will be obtained from the Seeley County Water District, processed through the on site Water Treatment Plant to produce Demineralized Water and fed to the electrolyzer mounted on the hydrogen generator skid. The electrolyzer will eliminate any final impurities in the water prior to processing and produce hydrogen and oxygen with no other residue or byproducts.

The hydrogen generator will be run during normal operation of the SunCatcher field and generated hydrogen will be stored onsite. Hydrogen gas produced by the onsite generator will be compressed to liquid form and stored in a 9,000-gallon steel storage tank, approximately 9 feet in diameter by 30 feet long and capable of storing approximately two days supply of hydrogen gas. It will be piped through a 1.5-inch stainless steel piping system to 87 individual compressor groups and will distribute hydrogen fuel at 150 pound-force per square inch gauge (psig). Each compressor group will be electrically operated and consist of a compressor, delivering gas at approximately 2,900 psig, and a high pressure supply tank. Each compressor group will also be equipped with a low pressure dump tank with the same 648 scf capacity and used to recover hydrogen from non-operational PCUs through a .25-inch stainless steel return line.

Hydrogen from the compressor groups will then be supplied to 30 individual high pressure surge tanks, each with a 21.5 scf capacity. Each surge tank will be responsible to supply hydrogen to the PCUs within a group of 12 SunCatchers. As previously mentioned, potential escaped hydrogen from the SunCatchers will be captured by low pressure dump tanks within the compressor groups or escape to the atmosphere.

Initially, it will take 3.4 scf of hydrogen to charge the SunCatcher Power Conversion Unit (PCU). Each PCU is estimated to lose about 200 scf per year. Each high pressure supply tank will supply hydrogen gas to 360 SunCatchers via .25-inch stainless tubing. A low pressure dump tank will be installed with each compressor group utilizing a .25-inch stainless steel return line to recover hydrogen gas when the SunCatchers are not in-service. This will reduce hydrogen leaks through fittings and seals on the PCUs. In the event that the hydrogen generator fails, an unloading station designed to receive and transfer hydrogen gas to the storage tank will be installed to allow for the delivery of hydrogen gas to the site by an outside supplier. The hydrogen gas storage tank will provide a few days of hydrogen supply as a back-up system. SES will complete all scheduled maintenance to the hydrogen generator, when the gas supply is adequate.

Based on these changes to the Project a supplemental offsite consequence analysis (OCA) was conducted.

#### 2.15.2.2.1 Offsite Consequence Analysis

##### *Introduction*

The Project consist of 30,000 SunCatchers and will use hydrogen gas as the working fluid in the PCU. To provide a steady supply of hydrogen gas to the SunCatchers, a supply, storage and distribution system will be implemented for the Project. Because of the nature of hydrogen gas there is a minimal risk that it may cause an offsite consequence upon uncontrolled release.

## *Regulatory Considerations*

The maximum amount of hydrogen that could be stored onsite within the high pressure storage tanks, low pressure dump tanks, compressor groups, high pressure surge tank groups, and within the pipe system is estimated to be 1,070 pounds. Hydrogen is identified as a hazardous substance by both the California Accidental Release Prevention Program (CalARP) [19 CCR 2735 et seq.] and the federal Chemical Accident Prevention Provisions [40 CFR 68], based on its flammable characteristics. The regulatory requirements for the storage of hydrogen at the site are presented in the table below:

**Table 2.15-1**
**Regulatory Program Applicability**

| Hazardous Chemical | Federal RMP Threshold (lbs) | State CalARP Threshold (lbs) | Regulatory Program Applicability |
|---|---|---|---|
| Hydrogen | 10,000 | 10,000 | The Project will store approximately 1070 lbs of hydrogen which will not be subject to either state CalARP or federal RMP program enforcement. |

Notes:
CalARP = California Accidental Release Prevention
CFR = Code of Federal Regulations
lbs = pounds
RMP = Risk Management Plan

As shown in Table 2.15-1, due to the maximum amount of hydrogen expected to be present at the Project Site, the Project will not be subject to either state or federal requirements for the hydrogen storage.

Although not subject to regulatory requirements for hydrogen, the Project conducted an OCA based Risk Management Plan (RMP) regulatory criteria for a worst case scenario release to evaluate the potential hazard posed by the hydrogen at the Project Site.

## *Accidental Release Process*

The OCA conducted for the Project evaluated uncontrolled worst-case release scenarios, based on the conditions recommended in state and federal RMP. The accidental release scenarios evaluated consist of the following:

(1) The release and ignition of the entire contents of the hydrogen storage tank;

(2) The release and ignition of the entire contents of the surge tanks and compressor groups;

(3) The release and ignition of the maximum potential quantity of hydrogen found at the Project Site; and

(4) The release and ignition of hydrogen from the unloading station and the potential hydrogen found within the compressor and surge tank groups.

It is important to note that the OCAs for the Project provide conservative evaluations for accidental hydrogen releases. The OCAs were performed following the methodology provided in the RMP guidance and evaluated the total impact from a vapor cloud explosions generated from each release scenario. The following section provides further details of the vapor cloud explosion events examined for the worst case scenario event.

### *Worst Case Scenario – Vapor Cloud Explosion*

Based on RMP guidance criteria, the worst case scenario for a flammable substance such as hydrogen consists of a vapor cloud explosion (where the total quantity of hydrogen released is assumed to form a vapor cloud). The following characteristics of a vapor cloud explosion are assumed for the OCA.

- The entire hydrogen content is assumed to participate in the formation of a vapor cloud.
- Ten percent of the flammable vapors in the cloud will participate in the explosion.

The impact for this worst case scenario vapor cloud explosion is then measured by the distance from the source of the explosion to a 1 pound per square inch (psi) overpressure level.

The evaluation of a worst case scenario for a flammable substance presents the effects of the blast from a vapor cloud explosion as the most significant hazard from an accidental hydrogen release. The 1.0 psi over-pressurization endpoint selected by the EPA provides an impact that may cause partial demolition of adjacent structures and can result in serious injuries to any population present within the area of impact.

Although a vapor cloud explosion presents the greatest potential impact from an accidental hydrogen release, its probability of occurrence is remote based on historical data. The release and scenario characteristics required to achieve a worst case scenario vapor cloud explosion are unlikely to present themselves. Figure 2.15-1 shows the necessary sequence of events for a vapor cloud explosion to occur.

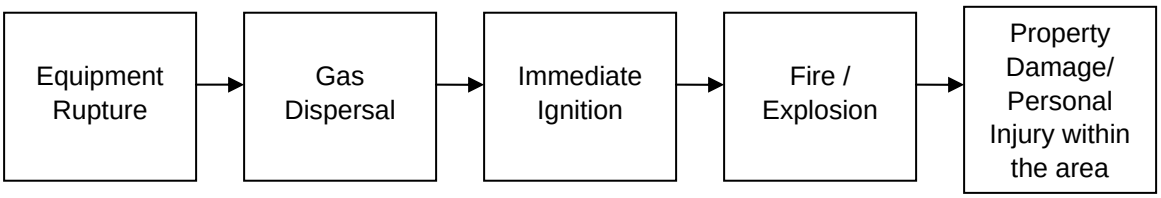


**Figure 2.15-1. Hydrogen Gas Release Sequence**

### *Hydrogen Release and Ignition Sequence of Events*

The site will not have liquid hydrogen storage. The description below is provided to analyze a worse-case comparison. When liquid hydrogen is released into the ambient conditions, the liquid hydrogen will spontaneously boil and its vapor will expand rapidly by a factor of 845 in volume as it warms to ambient temperature. It is then mixed with air and forms a combustible gas cloud. The dispersion of the cloud is affected by wind speed and direction and can be influenced by atmospheric turbulence and nearby structures.

Since its minimum ignition energy in air at atmospheric pressure is about 0.2 millijoule (mJ), hydrogen gas is easily ignited by any ignition sources or even friction and static discharges. The ignition is considered to be occurring almost spontaneously as the gas disperses in a plume. The flame will propagate through deflagration at subsonic speed relative to the unburned gas. Typical flame speeds (*i.e.*, relative to a stationary observer) are from the order of 1 to 1000 meter per second (m/s). Although the hydrogen cloud is colorless, water vapor clouds will form as a product of the combustion to indicate the rough contour of the flammable hydrogen clouds. A detonation (*i.e.*, a supersonic combustion wave) can occur if the hydrogen and air mixture is within its explosion range and an appropriate ignition source is available. This does not occur in unconfined space unless high explosives or very strong shockwaves are present.

At the Project Site, hydrogen storage tanks are situated in an open area, the flame from an ignited release will propagate through a flammable hydrogen-air cloud and will burn within seconds. Flame acceleration will not occur unless the hydrogen cloud flows into a confined space, where the increasing temperature expands the gas and generates a turbulent flow of unburned gas.

### *Historical Data Analysis*

In order to properly evaluate the consequences of a potential hydrogen explosion at the Project Site, historical accident records of similar hydrogen storage systems are analyzed in this section. $H_2$ Incidents is an online database, supported by the United States Department of Energy, which serves as a voluntary reporting tool for all accidents involving hydrogen or hydrogen-related technologies. It is used as the primary sources of records as discussed below.

There have been 140 hydrogen accidents reported between 1972 to the present time or an average of approximately 3.8 accidents per year. Of the 140 hydrogen-related accidents, 23 were liquid hydrogen-related, which are the focus of this study as a worst case scenario.

URS has reviewed the 23 accidents and found that there are several hazards that are commonly associated with liquid hydrogen accidents, ranging from respiratory ailment, component failure, ignition, and burning. Although a combination of hazards occurs in most instances, the typical release is attributed to leakage caused by defective seals or gaskets, valve misalignment, or failures of flanges or other equipment. According to the $H_2$ Incidents database, 78% of the accidents released an uncertain amount of hydrogen into the atmosphere, while 56% of those releases sparked an ignition. The causes of these accidental releases are categorized into Figure 2.15-2 below.

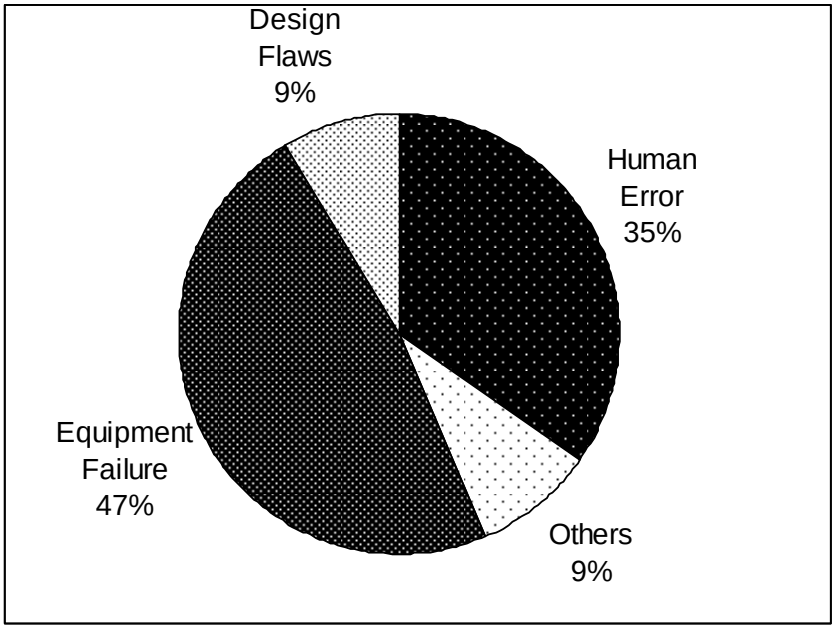


**Figure 2.15-2. Contributing Causes of Hydrogen Release Accidents**

It is found that 47% of these accidents are caused by equipment failure, such as valve malfunction and storage tank leakage. Human errors, mainly transportation accidents caused by drivers, constituted for 35% of the overall accident causes. It should be noted that most of these accidents can be prevented with better standard operating procedure protocols and operation awareness and training.

The OCA evaluation conducted for the various scenarios was performed through the application of two methods: (1) Environmental Protection Agency (EPA) approved modeling program RMP*COMP; and (2) EPA RMP OCA Guidance (EPA 1999a, 1999b, 1999c) documents. The OCA evaluations for each scenario were conducted based on worst case scenario criteria, defined as a vapor cloud explosion event from each release. As mentioned earlier, the accidental release scenarios evaluated consist of: (1) the release and ignition of the entire contents of the hydrogen storage tank, (2) the release and ignition of the entire contents of the surge tanks and compressor groups, (3) the release and ignition of the maximum potential quantity of hydrogen found at the Project Site, and (4) the release and ignition of hydrogen from the unloading station. Further details regarding each scenario and its OCA evaluation are provided within the following subsections.

### *Release Scenarios*

The accidental release scenarios below were considered in the analysis of the off-site consequence. The scenarios were evaluated based on EPA's RMP worst case scenario criteria discussed above.

- **Scenario 1:** The content of one hydrogen storage tank (approximately 175 pounds) at the Project Site is instantaneously released into the atmosphere. The released hydrogen forms a vapor cloud and 10 percent of the flammable vapor in the cloud participates in the explosion.

- **Scenario 2:** The hydrogen content of all 87 compressor groups and corresponding 30 surge tank groups (approximately 895 pounds) is instantaneously released into the atmosphere. The released hydrogen forms a vapor cloud and 10 percent of the flammable vapor in the cloud participates in the explosion.
- **Scenario 3:** The maximum hydrogen quantity at the Project Site, i.e. the hydrogen storage tank, compressor groups, and surge tank groups, (approximately 1,070 pounds) is instantaneously released into the atmosphere. All of the released hydrogen forms a single vapor cloud and 10 percent of the flammable vapor in the cloud participates in the explosion.
- **Scenario 4:** Due to a malfunction of the onsite hydrogen generator, a need arose to fill the empty hydrogen storage tank using the back-up hydrogen unloading station. The entire content of a hydrogen delivery truck, which is assumed to have the capacity of 400 kg (approximately 881 lbs) of liquid hydrogen, and along with the contents of the 87 compressor groups and corresponding 30 surge tank groups (approximately 895 pounds) at the Project Site, with a total quantity of approximately 1,776 pounds of hydrogen, are assumed to be instantaneously released into the atmosphere. The released hydrogen forms a vapor cloud and 10 percent of the flammable vapor in the cloud participates in the explosion.

As previously presented, the worst case scenario evaluations performed for each hypothetical scenario were applied to produce conservative results. Each of the scenarios provided above is unrealistic, due to their extremely low probability of occurrence. However, the evaluation of these scenarios under worst case criteria was performed by the Project to determine the furthest extent of impact from a release and ignition of hydrogen at the Project Site.

### *Methodology of Modeling*

#### *(1) RMP* COMP*

RMP* COMP is an EPA recommended risk management program developed by the Office of Response and Restoration, National Ocean Service, National Oceanic and Atmospheric Administration (NOAA), and the EPA Office of Emergency Management. Based on the total release amount, the program models the potential impact from an accidental release by estimating the distance to endpoint according to EPA's recommended procedures in the offsite consequence analysis--both worst-case and alternative scenarios. By inputting the release amount and selecting the modeling scenario, the program will complete the calculation based on OCA Guidance and automatically generate the endpoint distance to 1.0 psi overpressure.

#### *(2) RMP OCA Guidance*

In the RMP OCA Guidance, the total quantity of hydrogen is assumed to form a vapor cloud. The entire cloud is assumed to be within the flammability limits, and the cloud is assumed to explode. Ten percent of the flammable vapor in the cloud is assumed to participate in the explosion. The effect is measured as the distance to the 1.0 psi overpressure level. This is determined using the following equation:

$$D = 0.0081\left(0.1 W_f \frac{H_{Cf}}{H_{CTNT}}\right)^{1/3}$$

Where:

D = distance to overpressure of 1 psi (miles)

$W_f$ = weight of flammable substance (pounds)

$H_{Cf}$ = heat of combustion of flammable substance (kjoules/kilogram)

$H_{CTNT}$ = heat of combustion of trinitrotoluene (4,600 kjoules/kilogram)

### *Evaluation Parameters*

A vapor cloud explosion is used to model the hazard of explosion from a hydrogen release event. The following section explains the parameters used for each effect evaluation. Table 2.15-2, Chemical Physical Parameters, presents the parameters used while Table 2.15-3, Scenario Definitions, shows the scenarios used in the analysis.

**Table 2.15-2**
**Chemical Physical Parameters**

| Chemical | $H_c$[1] (kjoules/kilogram) | Density[2] (lb/scf) | References |
|---|---|---|---|
| Hydrogen | 119,950 | 0.0053 | 1, 2 |

Sources: 1 - EPA Risk Management Plan Off-site Consequence Analysis Guidance Exhibit C-2, Appendix C, 1999
2 - Hydrogen Material Safety Data Sheet, 2008.

Note:
$H_c$ = Heat of Combustion
Density of hydrogen at standard conditions (i.e. 60°F, 14.696 psia)

**Table 2.15-3**
**Scenario Definitions**

| Scenario | Source of Release | Approximate Volume (scf) | Total Mass (lbs) |
|---|---|---|---|
| 1 | Hydrogen Storage Tank | 33,000 | 175 |
| 2 | Compressor Groups(87 units) & Surge Tank Groups (30 units) | 168,867 | 895 |
| 3 | Hydrogen Storage Tank & Compressor Groups (87 units) & Surge Tank Groups (30 units) | 201,867 | 1,070 |
| 4 | Compressor Groups (87 units) & Surge Tank Groups (30 units) & Hydrogen Delivery Truck(1) | 335,093 | 1,776 |

## *Analysis Results*

The off-site consequence results are summarized in Table 2.15-4, Explosion Distance to Endpoint (overpressure of 1.0 psi).

**Table 2.15-4**
**Explosion Distance to Endpoint (overpressure of 1.0 psi)**

| Scenario | Volume (scf) | Chemical | Weight (lbs) | Explosion Endpoint Distance* (miles) |
|---|---|---|---|---|
| 1 | 33,000 | Hydrogen | 175 | 0.06 |
| 2 | 168,867 | Hydrogen | 895 | 0.11 |
| 3 | 201,867 | Hydrogen | 1,070 | 0.11 |
| 4 | 335,093 | Hydrogen | 1,776 | 0.13 |

* The modeling results from both methodologies turn out the same.

Note:
psi = pounds per square inch
scf = standard cubic feet

## *Conclusion*

OCAs were performed using the EPA approved RMP*Comp modeling program and confirmed through RMP OCA Guidance calculations. The purpose of conducting these OCAs was to evaluate any potential offsite hazards that may occur from the storage and use of hydrogen at the Project Site. Four (4) separate accident scenarios were evaluated using worst-case scenario criteria. The distances from the point of release to each respective scenario endpoint are provided in Table 2.15-4, Explosion Distance to Endpoint (overpressure of 1.0 psi).

As shown in Table 2.15-4, based on the OCA modeling, the maximum potential extent of impact in the event of a worst-case release from a single unit, as defined by the RMP OCA Guidance, would be equivalent to 0.06 mile. However, in the event of the worst case scenario induced from cumulative releases at the site, the maximum impacted distance is 0.13 mile. These distances are derived from an unrealistic hypothetical situations where all potential hydrogen present at the Project Site participates in a vapor cloud explosion.

Results from the OCA modeling demonstrated that an accidental release of hydrogen, under conservative worst-case scenario conditions, will not impact the public or environmental receptors in the vicinity of the site. From the evaluation of the four (4) release scenarios, the impact distance from the point of release to each respective scenario endpoint is estimated to range from 0.06 to 0.13 mile. Based on the location of the Project Site, the major portion of the impact derived from any of the analyzed scenarios shall not affect any sensitive receptors in the event of such a release at the Project Site. Additionally, the Project will provide fire protection measures to mitigate the impact from an accidental hydrogen release further reducing the overall area of impact.

### 2.15.3 Cumulative Impacts

Based on land uses in the surrounding area and the limited amount and type of supplemental hazardous materials to be used as part of the Project, and the results of the OCA, no significant cumulative impacts due to hazardous material handling are expected from future projects in combination with the Project.

### 2.15.4 Mitigation Measures

Implementation of Mitigation Measures HAZMAT-1 through HAZMAT-8 as described in the Project AFC, provides management procedures for the handling of hazardous materials during construction and operation of the Project. These procedures and programs will minimize potential construction-related and operations-related impacts to a less than significant level. No further mitigation is proposed.

### 2.15.5 LORS Compliance

Section 5.15.5 of the Project AFC summarizes the applicable LORS that govern the use and storage of hazardous materials, as well as the applicable permits that will be required for the Project.

### 2.15.6 References

Environmental Protection Agency Risk Management Program Guidance for Offsite Consequence Analysis Guidance (April 199)

AirProducts, *Liquid Hygroden Safety Sheet*. 2007, USA.

Hattwig, Martin and Steen, Henrikus. *Handbook of Explosion Prevention and Protection*. 2004

GexCon. *Gas Explosion Handbook*. 2003, Sweden. http://www.gexcon.com/ (Accessed on June 3, 2009).

USDOE, Pacific Northwest National Laboratory. *H2 Incidents*. http://h2incidents.org/ (Accessed on June 3, 2009).

# 2.16 PUBLIC HEALTH AND SAFETY

## 2.16.1 Affected Environment

The affected environment for Air Quality was originally discussed in Section 5.16.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

## 2.16.2 Environmental Consequences

The Project AFC analyzed the potential human health risks from the emergency diesel firewater pump and power generator. SES reviewed the project to find opportunities to reduce air emissions from the project. One of the emission reductions SES chose will be to electrify the fire water pump. The fire water pump will use power generated from the Project, grid power or power generated from the diesel emergency generator, thus no emissions will be associated with the fire water pump. The removal of the diesel fire water pump will only reduce the health risks predicted in Section 5.16.2 of the Project AFC. The modification of water delivery and onsite hydrogen generation will not change the Health Risk Assessment (HRA). Therefore, the conclusions from the AFC remain unchanged; there will not be significant health risks from the Project.

### *2.16.2.1 Seeley Waste Water Treatment Facility*

No changes will be required to the HRA in the Project AFC to account for this modification.

### *2.16.2.2 Distributed Hydrogen System*

No changes will be required to the HRA in the Project AFC to account for this modification.

## 2.16.3 Cumulative Impacts

As stated in Section 5.16.3 of the Project AFC there are no new or permitted sources of toxic air contaminants within six miles of the Project, thus no cumulative analysis will be conducted. Also, in the responses to data requests 53 to 110, no projects within six miles of any portion of the Solar Two site were identified that had large enough emissions to necessitate an air quality cumulative analysis. Likewise, these nearby sources do not have emissions of air toxics necessitating an air toxic cumulative analysis.

### 2.16.4 Mitigation Measures

The mitigation measures and other discussion presented in Sections 5.16.4 and 5.2.4 of the Project AFC are applicable to the proposed Project changes. Additional mitigation measures were recommended in the responses to data requests 53 to 110. No additional mitigation measures are recommended based on the Project modifications.

### 2.16.5 LORS Compliance

The LORS presented in Section 5.16.5 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.16.5 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.16.5 of the Project AFC.

### 2.16.6 References

No additional references beyond those presented in Section 5.16.6 of the Project AFC were used for this supplemental analysis.

## 2.17 WORKER SAFETY

This section addresses safety and health issues and describes or outlines systems and procedures that will be implemented to provide occupational safety and health protection for the Project workers, proposed worker safety mitigation methods to minimize impacts to the Project workers, and applicable laws, ordinances, regulations, and standards (LORS). All applicable elements of the Title 8 California Code of Regulations (CCR), General Industry Safety Orders (GISO), Construction Safety Orders (CSO), and Electrical Safety Orders (ESO), are addressed in the Project AFC or described below.

### 2.17.1 Affected Environment

The affected environment for Worker Safety was originally discussed in Section 5.17.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

### 2.17.2 Environmental Consequences

Construction, operation, and maintenance activities may expose workers to the hazards identified in Table 5.17-1 of the Project AFC. Exposure to these hazards can be minimized through adherence to appropriate engineering design criteria and administrative controls, use of applicable personal protective equipment (PPE), and compliance with all applicable health and safety LORS. The programs, regulations, and preventive measures intended to control potential worker health and safety impacts associated with these hazards are described in the Project AFC and encompass a comprehensive health, safety, and fire prevention program and an accident/injury prevention program intended to ensure healthful and safe operations at the Project site. The water line and new water source will result in minor changes that do not create additional construction or operation related impacts to socioeconomics beyond those presented in Section 5.17.2 of the Project AFC.

#### *2.17.2.1 Seeley Waste Water Treatment Facility*

To protect the health and safety of workers during construction activities, the Applicant (or construction contractor) will ensure compliance with the Construction Health & Safety Program, and all federal, state, and local health standards that pertain to worker health and safety, as described in the Project AFC.

#### *2.17.2.2 Distributed Hydrogen System*

To protect the health and safety of workers during operation activities, the Applicant (or construction contractor) will ensure compliance with the Operation Health & Safety Program, and all federal, state, and local health standards that pertain to worker health and safety, as described in the Project AFC. The configuration changes will result in minor changes that do not create additional construction or operation related impacts to socioeconomics beyond those presented in Section 5.17.2 of the Project AFC.

### 2.17.3 Cumulative Impacts

As the various projects in the cumulative impact evaluation will be responsible for complying individually with applicable worker safety requirements, no cumulative impacts on worker safety are expected as a result of the Project.

### 2.17.4 Mitigation Measures

Environmental consequences related to worker safety are not foreseen at this time; therefore, additional measures beyond those proposed in the Project AFC are not considered necessary.

### 2.17.5 LORS Compliance

Section 5.17.4 of the Project AFC summarizes the applicable LORS that govern the handling of non-hazardous and hazardous wastes, as well as the applicable permits that will be required for the Project. The LORS presented in Section 5.17.5 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.17.5 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.17.5 of the Project AFC.

### 2.17.6 References

No additional references beyond those presented in Section 5.17.6 of the Project AFC were used for this supplemental analysis.

# 2.18 CUMULATIVE IMPACTS

## 2.18.1 Affected Environment

The affected environment for Cumulative Impacts was originally discussed in Section 5.18.1 of the Application for Certification (AFC). The only change to the affected environment is the waterline, which now extends east of the original line and now runs parallel to Evan Hewes Highway rather than the railroad right-of-way (ROW). See Figure 1-1 and the description provided below.

The Seeley Waste Water Treatment Facility (SWWTF) is located at 1898 West Main Street in Seeley, California, approximately 13 miles east of the Project site. SES will construct an approximate 12-mile pipeline from the SWWTF to the SES water treatment plant along Evan Hewes Highway. The pipeline will be buried within the Evan Hewes Highway ROW approximately 30" below the existing grade. The line will enter the SES property at the exact location as the previously identified line (approximately 1,000 yards east of Plaster City and then run due south to the Raw Water Storage Tank). Only the portion of the water line that runs a different path (from the SWWTF to the edge of the project boundary) would create an addition to the affected environment.

## 2.18.2 Environmental Consequences

### *2.18.2.1 Seeley Waste Water Treatment Facility*

Using the SWWTF as the Project water source does not affect the cumulative impact discussion presented in Section 5.18.3 of the Project AFC.

### *2.18.2.2 Distributed Hydrogen System*

Using the distributed hydrogen system does not affect the cumulative impact discussion presented in Section 5.18.3 of the Project AFC.

## 2.18.3 Mitigation Measures

The mitigation measures and other discussion presented in Section 5.18.4 of the Project AFC are applicable to the proposed Project changes. No additional mitigation measures are recommended based on the Project modifications.

## 2.18.4 LORS Compliance

The LORS presented in Section 5.18.5 of the Project AFC are applicable to the revised Project and no additional LORS are recommended. Similarly, the agency contact information presented in Section 5.18.5 of the Project AFC is unchanged and the proposed Project modifications do not affect the required permits or Project schedule presented in Section 5.18.5 of the Project AFC.

## 2.18.5 References

No additional references beyond those presented in Section 5.18.6 of the Project AFC were used for this supplemental analysis.

# Appendix A
# Property Owners Within 500 Feet

| APN | Owner's Name | C/O | MAILING ADDRESS | MAILING CITY | MAILING STATE | MAILING ZIP |
|---|---|---|---|---|---|---|
| 034-360-017 | U S A | | | | | 0 |
| 034-360-018 | U S A | | | | | 0 |
| 034-360-019 | SAN DIEGO & ARIZONA EASTERN RR | | | | | 0 |
| 034-360-020 | U S A | | | | | 0 |
| 034-360-029 | U S A | | | | | 0 |
| 034-360-030 | U S A | | | | | 0 |
| 034-360-031 | SAN DIEGO & ARIZONA EASTERN RR | | | | | 0 |
| 034-360-032 | U S A | | | | | 0 |
| 034-360-033 | U S A | | | | | 0 |
| 034-360-034 | SAN DIEGO & ARIZONA EASTERN RR | | | | | 0 |
| 034-360-035 | U S A | | | | | 0 |
| 034-360-036 | ED L CONSTRUCTION INC | | P O BOX 785 | SAN MARCOS | CA | 92069 |
| 034-360-037 | ED L CONSTRUCTION INC | | P O BOX 785 | SAN MARCOS | CA | 92069 |
| 034-360-042 | SAN DIEGO & ARIZONA EASTERN RR | | | | | 0 |
| 034-360-091 | UNITED STATES GYPSUM CO | PROPERTY DEPT #179 | P.O. BOX 6721 | CHICAGO | IL | 60680 |
| 034-390-009 | LISTER MONTE JAY & KAREN JT | | 4116 BONAZA AVE | SAN DIEGO | CA | 92117 |
| 034-390-010 | SPOUNIAS CHRIS J JR | C/O #465 | 5694 MISSION CENTER RD | SAN DIEGO | CA | 92108 |
| 034-390-011 | TAYLOR JAMES D & ASHLEY F JT | | 2828 W EVAN HEWES HWY #11 | IMPERIAL | CA | 92251 |
| 034-390-022 | IMPERIAL LAKES HOMEOWNERS ASSOCIATION | | 2828 W EVAN HEWES HWY #22 | IMPERIAL | CA | 92251 |
| 034-390-023 | IMPERIAL LAKES HOMEOWNERS ASSOCIATION | | 2828 W EVAN HEWES HWY #22 | IMPERIAL | CA | 92251 |
| 034-390-024 | IMPERIAL LAKES INC | | 2828 W EVAN HEWES HWY #22 | IMPERIAL | CA | 92251 |
| 034-390-025 | U S A | | | | | 0 |
| 034-390-026 | DICKENS JUNE H TRUSTEE | | 3004 SOLITO ST | DAVIS | CA | 95616 |
| 051-020-005 | KUHN HEIDI TRUSTEE | | P O BOX 1669 | EL CENTRO | CA | 92243 |
| 051-020-006 | CUIN EDWARD R & JOAN JT | | 2370 W HIGHWAY 80 | IMPERIAL | CA | 92251 |
| 051-020-023 | VALADEZ FRANCISCO J & MARIA ELENA JT | | 2810 EVAN HEWES HWY | IMPERIAL | CA | 92251 |
| 051-020-026 | IMPERIAL VALLEY CHEESE OF CALIFORNIA LLC | | PO BOX 3247 | LOGAN | UT | 84323 |
| 051-020-029 | KUHN FARMS | HEIDI L. KUHN | 5743 MEADOWS DEL MAR | SAN DIEGO | CA | 92130 |
| 051-033-006 | FAMILY NURSERY CO INC | | P.O. BOX 57292 | SHERMAN OAKS | CA | 91413 |
| 051-033-007 | AVILA-BRADSHAW S & BRADSHAW R H 1/2 ETAL | C/O RALPH BRADSHAW | 6411 TRINETTE AVE | GARDEN GROVE | CA | 92845 |
| 051-033-008 | I I D | | | | | 0 |
| 051-033-009 | MARGEM III | C/O MILLER JAMES | P O BOX 244 | OMENA | MI | 49674 |
| 051-033-012 | MEALEY EDWIN C & MARY C JT | | 1805 BASS COVE RD | EL CENTRO | CA | 92243 |
| 051-033-014 | LEIMGRUBER MAX & LEIMGRUBER WALTER III JT | | 798 VENCILL RD | HOLTVILLE | CA | 92250 |
| 051-033-015 | BLASINGAME MARTHA WOODS & VADNEY JAN WOOD | C/O JAN WOODS VADNEY | 147 PINE HILLS LANE | OAKLAND | CA | 94611 |
| 051-033-016 | FREUND AGATHA A TRUSTEE U/T/D 1-15-99 | C/O BOND THOMAS | PO BOX 256 | APPLE VALLEY | CA | 92307 |
| 051-033-017 | HAMM HARLAN JR & GLORIA JT | | 1113 SOUTH HAUSER BLVD | LOS ANGELES | CA | 90019 |
| 051-033-018 | YOUNG ANDREA A EST OF & DIANE | C/O DIANE YOUNG | 12219 S. LOS ANGELES ST | LOS ANGELES | CA | 900612316 |
| 051-036-005 | BOYD PATRICIA E | | P O BOX 1046 | DESERT HOT SPRI | CA | 92240 |
| 051-036-009 | CONSTANT ROBERT N & CONSTANCE M JT | C/O NANCY HASSARD EXEC OF | 28871 BLYTHEWOOD DR | RANCHO PALOS VE | CA | 90274 |
| 051-036-015 | NELSEN JACK E & BROTT JAMES DAVID | | 12463 RCHO BRNARDO RD#218 | SAN DIEGO | CA | 92128 |
| 051-036-016 | LOH INVESTMENT LIMITED PARTNERSHIP | | | | | |
| 051-036-017 | COOPER NORMAN | | 6511 BEEMAN AVE | N HOLLYWOOD | CA | 91606 |
| 051-036-018 | COOPER NORMAN | | 6511 BEEMAN AVE | N HOLLYWOOD | CA | 91606 |
| 051-036-019 | SHISHIM FRANCIS G & HEIDI A JT | C/O HEIDI ZIN | 162 N. ARNAZ | OJAI, | CA | 93023 |
| 051-036-020 | ASHKAR GEORGE V & MARGARET TRUSTEES | | 2279 29TH ST | SANTA MONICA | CA | 90405 |
| 051-036-021 | NELSEN JACK E & BROTT JAMES DAVID | #218 | 12463 RANCHO BERNARDO RD | SAN DIEGO | CA | 92128 |
| 051-036-022 | NELSEN JACK | | 12463 RNCHO BRNRDO RD#218 | SAN DIEGO | CA | 92128 |
| 051-036-023 | LOH INVESTMENT LIMITED PARTNERSHIP | | | | | |
| 051-036-024 | LOH INVESTMENT LIMITED PARTNERSHIP | | | | | |
| 051-036-025 | LOH INVESTMENT LIMITED PARTNERSHIP | | | | | |
| 051-036-026 | ROMERO ALBERTO SANCHEZ | | 337 1ST ST #20063 | CALEXICO | CA | 92231 |
| 051-036-027 | MEALEY J C & R V | | 2189 BOLEY RD | IMPERIAL | CA | 92251 |
| 051-047-001 | PERSHALL RAY E & LOLA GARDNER TRUSTEES | MARK J FLITTON | 824 DEARBORN | CALDWELL | ID | 83605 |
| 051-047-002 | FOSTER TERRANCE C | | 803 EAST J STREET | CHULA VISTA | CA | 91910 |
| 051-051-002 | I I D | | | | | 0 |
| 051-051-003 | I I D | | | | | 0 |
| 051-052-005 | PRIDDY E C | | P O BOX 964 | BRAWLEY | CA | 92227 |
| 051-052-006 | HERRERA RAYMOND | | P O BOX 469 | HEBER | CA | 92249 |
| 051-052-007 | HERRERA SUSANA | | 2344 SMOKEWOOD AVENUE | IMPERIAL | CA | 92251 |
| 051-052-008 | GALINDO GABRIEL A & GLORIA A JT | | 2798 EVAN HEWES HWY | IMPERIAL | CA | 92251 |
| 051-053-001 | SOBOLESKI ANTHONY J & NOCONA A JT | | 2836 W. EVAN HEWES HWY | IMPERIAL | CA | 92251 |
| 051-053-002 | ROMERO JUAN | | PO BOX 204 | CULSER | OR | 97734 |
| 051-053-003 | SANCHO FERNANDO & HERMELINDA G JT | LE BROWN EVERT A | P.O. BOX 34 | HORSESHOE BEND | ID | 83629 |
| 051-053-004 | ROMERO ANGEL & TERESA A JT | | 1621 VIRGINIA LANE | EL CENTRO | CA | 92243 |
| 051-053-005 | ALVAREZ JOSE ANTONIO & SANDRA G JT | | 610 YUCCA STREET | IMPERIAL | CA | 92251 |
| 051-054-001 | RAMIREZ JUAN & MARIA L JT | | 2615 PARK RD | IMPERIAL | CA | 92251 |
| 051-054-002 | BROOKS THOMAS L TR | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-054-003 | BROOKS THOMAS L TR | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-054-004 | PRIDDY E C | | P O BOX 964 | BRAWLEY | CA | 92227 |
| 051-054-005 | LUNING ASSOCIATES LP | C/O CHERYL CAGLIERO | 3300 S. LAKESHORE RD. | CHELAN | WA | 98816 |
| 051-061-005 | HERRERA RAYMOND | | PO BOX 469 | HEBER | CA | 92249 |
| 051-061-006 | MOODY TERRY W & MOODY RICK L JT & IID | | PO BOX 3295 | JOPLIN | MO | 64803 |
| 051-061-007 | LAND VALUE HOLDING, LLC | | 1107 WEST SIXTH AVENUE | CHEYENNE | WY | 82001 |
| 051-061-008 | MEALEY EDWIN C & MARY C JT | | 1805 BASS COVE RD | EL CENTRO | CA | 92243 |
| 051-061-010 | DANIELS VIRGINIA | | P O BOX 548 | SELIGMAN | AZ | 86337 |
| 051-061-020 | PRIDDY EDGAR C EST OF | C/O RANDY L PRIDDY | 8991 DEER HILL ROAD | BELEWS CREEK | NC | 27009 |
| 051-061-021 | PRIDDY EDGAR C EST OF | C/O RANDY L PRIDDY | 8991 DEER HILL ROAD | BELEWS CREEK | NC | 27009 |
| 051-061-022 | PRIDDY EDGAR C EST OF | C/O RANCY L PRIDDY | 8991 DEER HILL ROAD | BELEWS CREEK | NC | 27009 |
| 051-061-023 | MEALEY EDWIN C & MARY C JT | | 1805 BASS COVE RD | EL CENTRO | CA | 92243 |
| 051-061-024 | MEALEY EDWIN C & MARY C JT | | 1805 BASS COVE RD | EL CENTRO | CA | 92243 |
| 051-061-025 | MEALEY EDWIN C & MARY C JT | | 1805 BASS COVE RD | EL CENTRO | CA | 92243 |
| 051-061-026 | MEALEY EDWIN C & MARY C JT | | 1805 BASS COVE RD | EL CENTRO | CA | 92243 |
| 051-061-027 | NUCKLES JAMES D AND ODESSA J T | C/O TINA CARROLL | 1007 CALLE LUNA ST | BRAWLEY | CA | 92227 |
| 051-061-028 | BLASINGAME MARTHA WOODS & VADNEY JAN WOOD | C/O JAN WOODS VADNEY | 147 PINE HILLS LANE | OAKLAND | CA | 94611 |
| 051-061-031 | SALVATION ARMY, THE | | 2320 5TH AVE | SAN DIEGO | CA | 92101 |
| 051-061-032 | BROOKS THOMAS L TR | | 1593 S 22ND ST | EL CENTRO | CA | 92243 |
| 051-061-033 | BROOKS THOMAS L TRUSTEE U/T/D 6-23-94 | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-062-005 | SALAMON JOHN JT | | 2790 ALDER RD | CRESCENT CITY | CA | 95531 |
| 051-062-007 | FOSTER TERRANCE C | | 803 EAST J STREET | CHULA VISTA | CA | 91910 |
| 051-062-012 | KAUFMAN MICHAEL A C TRUSTEE | | 716 NO PALM DR | BEVERLY HILLS | CA | 90210 |
| 051-062-013 | TYYNISMAA ROBERT R & PATRICIA A JT | | 528 OAK LANE | JACKSONVILLE | NC | 28540 |
| 051-062-014 | MOORE NATHAN J & VIRGINIA F JT | | 1258 OPAL ST | SAN DIEGO | CA | 92109 |
| 051-062-015 | CRANE BEATRICE AND ALLEN | | 8115 EL PASEO GRANDE | LA JOLLA | CA | 92037 |
| 051-062-016 | DENOGEAN JOSE R & MONICA JT | | 2615 PARK RD | IMPERIAL | CA | 92251 |
| 051-062-017 | RODRIQUEZ TONY & NELLIE JT | | 955 N OAK ST | EL CENTRO | CA | 92243 |
| 051-062-018 | PATTON JOANNA MARIA | | 2861 EVAN HEWES | IMPERIAL | CA | 92251 |
| 051-062-020 | EGGERS KEITH | C/O M.L. SPORE, SEC-TREAS OF | P.O. BOX 71 | OCOTILLO | CA | 92259 |

| APN | Owner's Name | C/O | MAILING ADDRESS | MAILING CITY | MAILING STATE | MAILING ZIP |
|---|---|---|---|---|---|---|
| 051-062-021 | DENOGEAN JOSE R & MONICA JT | | 2615 PARK RD | IMPERIAL | CA | 92251 |
| 051-062-022 | SALAMON JOHN JT | | 2790 ALDER RD | CRESCENT CITY | CA | 95531 |
| 051-062-024 | SALAMON JOHN JT | | 2790 ALDER RD | CRESCENT CITY | CA | 95531 |
| 051-062-025 | PATTON JOANNA MARIA | | 2861 EVAN HEWES | IMPERIAL | CA | 92251 |
| 051-062-026 | CRANE ALLEN & BEATRICE JT | | 8115 EL PASEO GRANDE | LA JOLLA | CA | 90037 |
| 051-062-027 | FAMILY NURSERY CO INC | | P.O. BOX 57292 | SHERMAN OAKS | CA | 91413 |
| 051-062-028 | SALAMON JOHN JT | | 2790 ALDER RD | CRESCENT CITY | CA | 95531 |
| 051-062-029 | SALAMON JOHN JT | | 2790 ALDER RD | CRESCENT CITY | CA | 95531 |
| 051-063-002 | VALSASINA ENRICO TR & BROWN EUGENE | | 380 NORTH EASTERN AVENUE #D-6 | BRAWLEY | CA | 92227 |
| 051-063-003 | VALSASINA ENRICO TR & BROWN EUGENE | | 380 NORTH EASTERN AVENUE #D-6 | BRAWLEY | CA | 92227 |
| 051-063-005 | WISE THOMAS L & NANCY L TRUSTEES | | 4496 BRANDT ROAD | BRAWLEY, | CA | 92227 |
| 051-063-006 | SUTTON CHRIS | | 1423 CONNOLLY DR | ELKO | NV | 89801 |
| 051-063-009 | ESPINOZA JUAN MANUEL & SOCORRO JT | | 763 W HOLT | EL CENTRO | CA | 92243 |
| 051-063-012 | BROOKS THOMAS L | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-063-022 | BROOKS THOMAS L TRUSTEE | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-063-028 | BROOKS THOMAS S TR | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-063-029 | REYES CATARINO C & SALOME G JT | | 145 W 11TH STREET | SAN BERNARDINO | CA | 92410 |
| 051-063-030 | REYES CATARINO C & SALOME G JT | | 145 W 11TH STREET | SAN BERNARDINO | CA | 92410 |
| 051-063-031 | BROOKS THOMAS L TRUSTEE | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-063-034 | MANRIQUEZ JESUS EVERARDO | | P O BOX 1374 | NILAND | CA | 92257 |
| 051-063-035 | CARLSON CHARLES | | 5402 FACULTY AVE | LAKEWOOD | CA | 90712 |
| 051-063-040 | EGGERS KEITH | C/O M.L. SPORE, SEC-TREAS OF | P.O. BOX 71 | OCOTILLO | CA | 92259 |
| 051-063-041 | CARLSON CHARLES | | 5402 FACULTY AVE | LAKEWOOD | CA | 90712 |
| 051-063-042 | BROOKS THOMAS L TRUSTEE | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-063-043 | BROOKS THOMAS L TR | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-063-045 | BROOKS THOMAS L TRUSTEE | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-063-046 | CARLSON CHARLES | | 5402 FACULTY AVE | LAKEWOOD | CA | 90712 |
| 051-064-001 | REYES CATARINO C & SOLAME G JT | | 145 W 11TH ST | SAN BERNARDINO | CA | 92410 |
| 051-064-003 | GALLOWAY JAMES C 50 & HUNTSMAN SUSAN G 50 | C/O SUSAN HUNTSMAN | 4393 BEULAH DR | LA CANADA | CA | 91011 |
| 051-064-005 | RAMIREZ JUAN M & MARIA L JT | | 2615 PARK RD | IMPERIAL | CA | 92251 |
| 051-064-007 | LAHEY LAURI LEE | | 735 OLIVE ST | EL CENTRO | CA | 92243 |
| 051-064-008 | NORRIS G W | | 6310 ORCHARD RD | LINTHICUM HGTS | MD | 21090 |
| 051-064-009 | BROOKS THOMAS | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-064-010 | BROOKS THOMAS | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-064-011 | BROOKS THOMAS | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-064-012 | BROOKS THOMAS | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-064-013 | BROOKS THOMAS | | 10093 VISTA PARQUE | LAKESIDE | CA | 92040 |
| 051-064-014 | FOSTER TERRANCE C | | 803 EAST J STREET | CHULA VISTA | CA | 91910 |
| 051-064-015 | LOH INVESTMENT LIMITED PARTNERSHIP | | | | | |
| 051-064-018 | FAMILY NURSERY CO INC | | P.O. BOX 57292 | SHERMAN OAKS | CA | 91413 |
| 051-064-019 | FAMILY NURSERY CO INC | | P.O. BOX 57292 | SHERMAN OAKS | CA | 91413 |
| 051-064-020 | FAMILY NURSERY CO INC | | P.O. BOX 57292 | SHERMAN OAKS | CA | 91413 |
| 051-064-021 | FAMILY NURSERY CO INC | | P.O. BOX 57292 | SHERMAN OAKS | CA | 91413 |
| 051-064-022 | AHMED AFTAD TRUSTEE | | 9193 CHAPMAN AVE #D | GARDEN GROVE | CA | 92841 |
| 051-064-023 | AHMED AFTAD TRUSTEE | | 9193 CHAPMAN AVE #D | GARDEN GROVE | CA | 92841 |
| 051-064-024 | AHMED AFTAD TRUSTEE | | 9193 CHAPMAN AVE #D | GARDEN GROVE | CA | 92841 |
| 051-064-025 | AHMED TAJWAR BEGUM | | 8761 MOODY ST #B | CYPRESS | CA | 90630 |
| 051-064-026 | AHMED TAJWAR BEGUM | | 8761 MOODY ST #B | CYPRESS | CA | 90630 |
| 051-064-027 | AHMED FARHA BEGUM | C/O TAJWAR B AHMED | 8761 MOODY ST #B | CYPRESS | CA | 90630 |
| 051-064-028 | AHMED FARHA BEGUM | C/O FEROZE AHMED | 8761 MOODY ST #B | CYPRESS, | CA | 90630 |
| 051-064-029 | AHMED RIZWANA BEGUM | C/O TAJWAR B AHMED | 8761 MOODY ST #B | CYPRESS | CA | 90630 |
| 051-064-030 | AHMED RIZWANA BEGUM | C/O TAJWAR B AHMED | 8761 MOODY ST #B | CYPERESS | CA | 90630 |
| 051-064-031 | VELARDE GUADALUPE R | | 1166 N. BAKER AVE | HEBER | CA | 92249 |
| 051-064-032 | REDONDO MARTIN ADOLFO | | 2825-A W EVAN HEWES HWY | IMPERIAL | CA | 92251 |
| 051-071-003 | AVILA-BRADSHAW S & BRADSHAW R H 1/2 ETAL | C/O RALPH BRADSHAW | 6411 TRINETTE AVE | GARDEN GROVE | CA | 92845 |
| 051-071-004 | MEALEY EDWIN C & MARY C JT | | 1805 BASS COVE RD | EL CENTRO | CA | 92243 |
| 051-071-005 | BROWN DANIEL C | | BOX 149 | DAVENPORT | CA | 95017 |
| 051-071-011 | JOHNSON MARK C TRUSTEE | | 6225 MARINDUSTRY DR | SAN DIEGO | CA | 92121 |
| 051-071-012 | BAKRI NABEEL | | P O BOX 2553 | SALINAS | CA | 93902 |
| 051-071-013 | BAKRI NABEEL | | P O BOX 2553 | SALINAS | CA | 93902 |
| 051-071-014 | LEWIS WILLIAM B & P J CO-TR 1/2 & PALMA J 50 | | P O BOX 1605 | ALPINE | CA | 91903 |
| 051-071-016 | BARAJAS BENJAMIN ANGEL | | 2804 EVAN HEWES HWY | IMPERIAL | CA | 92251 |
| 051-071-019 | JOHNSON MARK C TRUSTEE | | 6225 MARINDUSTRY DR | SAN DIEGO | CA | 92121 |
| 051-071-021 | BARAJAS BENJAMIN ANGEL | | 2804 EVAN HEWES HWY | IMPERIAL | CA | 92251 |
| 051-071-022 | BARAJAS BENJAMIN ANGEL | | 2804 EVAN HEWES HWY | IMPERIAL | CA | 92251 |
| 051-071-023 | NOZOT JORGE & MARIA LOURDES JT | | 1125 RAINBOW AVE | CALEXICO | CA | 92231 |
| 051-071-024 | JOHNSON MARK C TRUSTEE | | 6225 MARINDUSTRY DR | SAN DIEGO | CA | 92121 |
| 051-071-026 | LOPEZ HORTENCIA | | P.O. BOX 4687 | CALEXICO | CA | 92231 |
| 051-072-001 | BUSS RONALD A | | 2232 SE 37TH AVE | PORTLAND | OR | 97214 |
| 051-072-002 | TYSZKIEWICZ JAN 1/2 INT ETAL | | | | | |
| 051-072-003 | KEATING BERTIE | C/O PATTI C REED | 3201 W VALLEY DR | VISALIA | CA | 93277 |
| 051-072-004 | FAMILY NURSERY CO INC | | P.O. BOX 57292 | SHERMAN OAKS | CA | 91413 |
| 051-072-005 | HERTZ RAYMOND & DONNA | | 4918 S 360TH ST | AUBURN | WA | 98001 |
| 051-072-006 | JONES JOHN C | | 2327 WOLLOWBROOK LANE | PERRIS | CA | 92571 |
| 051-072-007 | MEDINA GRISELDA ALEJANDRE | | 233 PAULIN AVE PMB 8025 | CALEXICO | CA | 92231 |
| 051-072-008 | MEDINA GRISELDA ALEJANDRE | | 233 PAULIN AVE PMB 8025 | CALEXICO | CA | 92231 |
| 051-072-009 | MEDINA GRISELDA ALEJANDRE | | 233 PAULIN AVE PMB 8025 | CALEXICO | CA | 92231 |
| 051-072-010 | HULBERT STEPHEN G | | 6852 COLORADO AVE | LA MESA | CA | 92037 |
| 051-072-011 | CRANE BEATRICE & ALLEN | | 8115 EL PASEO GRANDE | LA JOLLA | CA | 92037 |
| 051-072-013 | RAMIREZ JR. FAUSTINO | | 787 W WORTHINGTON ROAD | IMPERIAL | CA | 92251 |
| 051-072-014 | FOSTER ANN | C/O ANTHONY ROBERT | 545 PINE | HOLTVILLE | CA | 92250 |
| 051-072-015 | VALADEZ FRANCISCO & VALADEZ MARIA ELENA JT | | 2810 EVAN HEWES | IMPERIAL | CA | 92251 |
| 051-072-016 | TRIPLETT F | C/O WILSON FRANCES MRS | P O BOX 22603 | SACRAMENTO | CA | 95822 |
| 051-072-017 | MEALEY EDWIN C & MARY C JT | | 1805 BASS COVE RD | EL CENTRO | CA | 92243 |
| 051-072-018 | RODRIGUEZ TONY & NELLE JT | | 955 OAK ST | EL CENTRO | CA | 92243 |
| 051-072-019 | LLOYD CLAUDE JAMES | | 2751 WEST FIR | FRESNO | CA | 93711 |
| 051-072-020 | ZARA KRISTINE J & JASON | | 1622 AURORA DR | EL CENTRO | CA | 92243 |
| 051-072-022 | RODRIGUEZ SHARON YOLANDA | | 68204 FARRELL LANE | CATHEDERAL CITY | CA | 92234 |
| 051-072-023 | MERLUZA FIDEL M & FLORES C JT | | 28636 N HIGH RIDGE DR | SAUGUS | CA | 91350 |
| 051-072-024 | BOYDSTON ED & BOYDSTON ELVIA JT | | 824 MARIN STREET | VALLEJO | CA | 94590 |
| 051-081-001 | PEREZ CARLOS URIATE & LUZ ELBA TRUSTEES ETAL | | 17229 GARLEN COURT | SALINAS | CA | 93907 |
| 051-081-002 | SAN DIEGO & ARIZONA RR | | | | | 0 |
| 051-084-001 | REDONDO CARMEN SOLANO DE & MARTIN ADOLFO | | 2825A W EVAN HEWES HWY | IMPERIAL | CA | 92251 |
| 051-084-002 | SAN DIEGO & ARIZONA RR | | | | | 0 |
| 051-091-001 | I I D | | | | | 0 |
| 051-092-001 | ESTES SAM | | P.O. BOX 830 | SEELEY | CA | 92273 |
| 051-092-002 | ACUNA MARIA LOURDES | | 371 ROSS ROAD #201 | EL CENTRO | CA | 92243 |
| 051-092-003 | BEL-AIR FAMILY LIMITED PARTNERSHIP | C/O FRED T. FLEMING | 16255 VENTURA BLVD. STE. 420 | ENCINO | CA | 91436 |

# Appendix B
# Water Characteristics at the Seeley Waste Water Treatment Facility

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
REPORT! **CA0105023**
REPORTING FREQUENCY: **MONTHLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **January**
YEAR: **2007**

| TYPE OF SAMPLE | INFLUENT | | EFFLUENT DISCHARGED TO THE WILDCAT DRAIN | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr Composite (24- HC) | | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cal. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 65 | 65 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | | | 0.0861 | | | | | | | | |
| 2 | | | 0.1047 | | | | | | | | |
| 3 | 180.0 | 374.0 | 0.1123 | 9.4 | 8.8 | 39.7 | 37.2 | | | 95 | 98 |
| 4 | | | 0.1422 | | | | | | | | |
| 5 | | | 0.1325 | | | | | | | | |
| 6 | | | 0.1011 | | | | | | | | |
| 7 | | | 0.1193 | | | | | | | | |
| 8 | | | 0.1245 | | | | | | | | |
| 9 | 140.0 | 500.0 | 0.1251 | 8.8 | 9.2 | 57.3 | 59.8 | | | 94 | 98 |
| 10 | | | 0.1263 | | | | | | | | |
| 11 | | | 0.1164 | | | | | | | | |
| 12 | | | 0.0896 | | | | | | | | |
| 13 | | | 0.1128 | | | | | | | | |
| 14 | | | 0.1367 | | | | | | | | |
| 15 | | | 0.1364 | | | | | | | | |
| 16 | 240.0 | 220.0 | 0.1211 | 15.6 | 15.8 | 30.4 | 30.7 | | | 94 | 93 |
| 17 | | | 0.1034 | | | | | | | | |
| 18 | | | 0.0966 | | | | | | | | |
| 19 | | | 0.0953 | | | | | | | | |
| 20 | | | 0.0978 | | | | | | | | |
| 21 | | | 0.0923 | | | | | | | | |
| 22 | | | 0.0816 | | | | | | | | |
| 23 | | | 0.1023 | | | | | | | | |
| 24 | 540.0 | 659.0 | 0.0987 | 15.6 | 12.8 | 24.4 | 20.1 | | | 97 | 98 |
| 25 | | | 0.0936 | | | | | | | | |
| 26 | | | 0.0954 | | | | | | | | |
| 27 | | | 0.1023 | | | | | | | | |
| 28 | | | 0.1049 | | | | | | | | |
| 29 | 130.0 | 541.0 | 0.0899 | 28.8 | 21.6 | 203.0 | 152.2 | 0.010 | 0.0075 | 78 | 96 |
| 30 | | | 0.0871 | | | | | | | | |
| 31 | | | 0.0933 | | | | | | | | |
| **30-DAY MEAN** | **246.0** | **458.8** | **0.1071** | **15.6** | **13.6** | **71.0** | **60.0** | **0.010** | **0.0075** | **96** | **97** |
| **MAX 7-DAY MEAN** | | | | **28.8** | | **203.0** | | **0.010** | **0.0075** | | |
| **MAXIMUM** | | | **0.1422** | **28.8** | | **203.0** | | **0.010** | **0.0075** | | |
| **MINIMUM** | | | | | | | | | | **78** | **93** |

I declare under the penalty of the law that I personaly examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responisible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the posibility of fine and imprisonment for knowing violations.

SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **January**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | | | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | 4 | 4 | 1 | 7.6 | 962.0 | 8.0 | 60 |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | 2 | 2 | 1 | 7.4 | 1046.0 | 7.9 | 61 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | 23 | 23 | 1 | 7.1 | 1054.0 | 7.7 | 63 |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | 13 | 13 | | | | | |
| 23 | | | | | | | |
| 24 | | | 53 | 7.2 | 990.0 | 7.6 | 60 |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | 280 | 280 | 12 | 7.4 | 986.0 | 7.6 | 61 |
| 30 | | | | | | | |
| 31 | | | | | | | |
| 30-DAY MEAN | **15** | **15** | **3.7** | **7.3** | **1007.6** | **7.8** | **61** |
| MAX 7-DAY MEAN | | | | | | | |
| MAXIMUM | **280** | **280** | **53.0** | **7.6** | **970.0** | **8.0** | **63** |
| MINIMUM | | | | **71.0** | | **7.6** | **60** |



I declare under the penalty of the law that I personaly examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responisible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the posibility of fine and imprisonment for knowing violations.

SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Fourth**
MONTH: **December**
YEAR: **2007**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | otal Nitrogen as N | rthophosphate as P | Total Phosphate as P | Priority pollutans |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA | ANNUALY |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | See attached results |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | 0.84 | 21.84 | 3.00 | 0.26 | 26.9 | 2.0 | 2.19 | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | 0.05 | 25.20 | 404.00 | 7.40 | 35.10 | 2.65 | 2.80 | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| QUARTERLY MEAN | 0.45 | 23.52 | 203.50 | 0.26 | 26.86 | 2.03 | 2.19 | |
| MAXIMUM | 0.84 | 21.84 | | 0.26 | 26.86 | 2.03 | 2.19 | |
| MINIMUM | | | | | | | | |

I declare under the penalty of the law that I personaly examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responisible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the posibility of fine and imprisonment for knowing violations.

SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Fourth**
MONTH: **December**
YEAR: **2007**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
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| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | 7.19 | 7.34 | 6.37 | 5.41 | 33 | 36 | 918 | 838 |
| 20 | | | | | | | | |
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| 30 | | | | | | | | |
| 31 | | | | | | | | |
| 30-DAY MEAN | 7.19 | 7.34 | 6.37 | 5.41 | 33 | 36 | 918 | 838 |
| MAX 7-DAY MEAN | 7.19 | 7.34 | 6.37 | 5.41 | 33 | 36 | 918 | 838 |
| MAXIMUM | 7.19 | 7.34 | 6.37 | 5.41 | 33 | 36 | 918 | 838 |
| MINIMUM | 7.19 | 7.34 | 6.37 | 5.41 | 33 | 36 | 918 | 838 |

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **FOURTH**
MONTH: **December**
YEAR: **2007**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **December**
YEAR: **2007**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN | Attach Bioassay Results | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
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| 30 | | |
| 31 | | |
| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-049(REVIS** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** **MONTH: DECEMBER**
REPORTING FREQUENCY: **ANNUALY** **YEAR: 2007**

| TYPE OF SAMPLE | **EFFLUENT DISCHARGED TO THE NEW RIVER** | | |
|---|---|---|---|
| CONSTITUENTS | Oil & Grease | Volatile Organics (EPA Methods 624 & 625) | Priority Pollutans |
| FREQUENCY: | Annual (A) | Annual (A) | Annual (A) |
| DESCRIPTION: | 24 Hr Com posite | Grab | 24 Hr composite |
| UNITS: | m/gL | u/gL | u/gl |
| REQUIREMENTS: | | | |
| 30-DAY MEAN | | | |
| 7-DAY MEAN | | | |
| MAXIMUM | | | |
| DATE OF SAMPLE: | | | |
| 1 | | | |
| 2 | | See attached results | See attached results |
| 3 | | | |
| 4 | | | |
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| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | 1.0 | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
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| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| **ANNUAL MEAN** | 1.0 | | |
| **MAXIMUM** | 1.0 | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2007**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | Attach Results |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

### SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :** _____

**METHOD OF DISPOSAL :** _____

**LOCATION OF DISPOSAL :** _____

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

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**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2007**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| Feb- 13-2007 | Change belts and greace air compresor |
| *March -25-2007* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2007* | Replace new aerators fi floads |
| *April - 29-2007* | Adjust aerators support cables all five . |
| *April - 30-2007* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2007* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2007* | Instal a new chart recorder . |
| *May - 27-2007* | Spread base rock around waste water plant. |
| June - 27-2007 | Repair easte side of the facility. |
| june - 29-2007 | Paint around the facility . |
| Aug - 09-2007 | Draining of east & west t ponds. |
| Aug - 14-2007 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2007 | Paint and organized frond parking lot. |
| Sept - 18-2007 | Clean up monthly uv bank and chanel. |
| Oct - 11-2007 | Removal of areators. |
| Nov - 29-2007 | Set up 2" pvc line for the reculation station. |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
REPORT: **CA0105023**
REPORTING FREQUENCY: **MONTHLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **February**
YEAR: **2008**

| TYPE OF SAMPLE | **INFLUENT** | | **EFFLUENT DISCHARGED TO THE WILDCAT DRAIN** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr Composite (24- HC) | | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cal. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 65 | 65 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | | | 0.1123 | | | | | | | | |
| 2 | | | 0.1048 | | | | | | | | |
| 3 | | | 0.0965 | | | | | | | | |
| 4 | | | 0.0756 | | | | | | | | |
| 5 | | | 0.1083 | | | | | | | | |
| 6 | 180.0 | 209.0 | 0.1423 | 23.4 | 27.8 | 37.1 | 44.0 | | | 87 | 87 |
| 7 | | | 0.1078 | | | | | | | | |
| 8 | | | 0.1356 | | | | | | | | |
| 9 | | | 0.1193 | | | | | | | | |
| 10 | | | 0.1010 | | | | | | | | |
| 11 | | | 0.0931 | | | | | | | | |
| 12 | | | 0.1037 | | | | | | | | |
| 13 | 270.0 | 266.0 | 0.0869 | 6.8 | 4.9 | 7.8 | 5.7 | | | 97 | 98 |
| 14 | | | 0.0756 | | | | | | | | |
| 15 | | | 0.0931 | | | | | | | | |
| 16 | | | 0.0784 | | | | | | | | |
| 17 | | | 0.0891 | | | | | | | | |
| 18 | | | 0.0781 | | | | | | | | |
| 19 | | | 0.1093 | | | | | | | | |
| 20 | | | 0.1124 | | | | | | | | |
| 21 | 150.0 | 904.0 | 0.1059 | 12.6 | 11.1 | 17.2 | 15.2 | | | 92 | 99 |
| 22 | | | 0.1149 | | | | | 0.010 | 0.0096 | | |
| 23 | | | 0.1023 | | | | | | | | |
| 24 | | | 0.1024 | | | | | | | | |
| 25 | | | 0.1147 | | | | | | | | |
| 26 | | | 0.1136 | | | | | | | | |
| 27 | 220.0 | 356.0 | 0.1052 | 13.8 | 12.1 | 10.3 | 9.0 | | | 94 | 97 |
| 28 | | | 0.1087 | | | | | | | | |
| 29 | | | 0.1039 | | | | | | | | |
| **30-DAY MEAN** | **205.0** | **433.8** | **0.1033** | **14.2** | **14.0** | **18.1** | **18.5** | **0.010** | **0.0096** | **96** | **95** |
| **MAX 7-DAY MEAN** | | | | **23.4** | | **37.1** | | **0.010** | **0.0096** | | |
| **MAXIMUM** | | | **0.1423** | **23.4** | | **37.1** | | **0.010** | **0.0096** | **97** | **99** |
| **MINIMUM** | | | | | | | | | | **87** | **87** |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **February**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | | | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | 170 | 170 | 34.4 | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | 8 | 8 | 1.0 | 7.4 | 938.0 | 7.0 | 71 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | 2 | 2 | 1.0 | 7.5 | 974.0 | 7.1 | 70 |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | 23 | 23 | 200.5 | 7.4 | 1132.0 | 7.0 | 69 |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | 2 | 2 | 15.0 | 7.3 | 1106.0 | 7.5 | 69 |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30-DAY MEAN | **5** | **5** | **7.4** | **7.4** | **1037.5** | **7.2** | **69.8** |
| MAX 7-DAY MEAN | | | | | | | |
| MAXIMUM | **170** | **170** | **200.5** | **7.5** | **1132.0** | **7.5** | **71** |
| MINIMUM | | | | **7.3** | | **7.0** | **69** |



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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Fourth**
MONTH: **December**
YEAR: **2007**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | Total Nitrogen as N | Orthophosphate as P | Total Phosphate as P | Priority pollutans |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA | ANNUALY |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | See attached results |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | 0.84 | 21.84 | 3.00 | 0.26 | 26.9 | 2.0 | 2.19 | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
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| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | 0.05 | 25.20 | 404.00 | 7.40 | 35.10 | 2.65 | 2.80 | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
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| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| QUARTERLY MEAN | 0.45 | 23.52 | 203.50 | 0.26 | 26.86 | 2.03 | 2.19 | |
| MAXIMUM | 0.84 | 21.84 | | 0.26 | 26.86 | 2.03 | 2.19 | |
| MINIMUM | | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Fourth**
MONTH: **December**
YEAR: **2007**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
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| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | 7.19 | 7.34 | 6.37 | 5.41 | 33 | 36 | 918 | 838 |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
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| 30 | | | | | | | | |
| 31 | | | | | | | | |
| 30-DAY MEAN | 7.19 | 7.34 | 6.37 | 5.41 | 33 | 36 | 918 | 838 |
| MAX 7-DAY MEAN | 7.19 | 7.34 | 6.37 | 5.41 | 33 | 36 | 918 | 838 |
| MAXIMUM | 7.19 | 7.34 | 6.37 | 5.41 | 33 | 36 | 918 | 838 |
| MINIMUM | 7.19 | 7.34 | 6.37 | 5.41 | 33 | 36 | 918 | 838 |

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **FOURTH**
MONTH: **December**
YEAR: **2007**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **December**
YEAR: **2007**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN<br>7-DAY MEAN<br>MAXIMUM | Attach Bioassay Results | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
| 4 | | |
| 5 | | |
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| 29 | | |
| 30 | | |
| 31 | | |
| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-049(REVIS** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** **MONTH: DECEMBER**
REPORTING FREQUENCY: **ANNUALY** **YEAR: 2007**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | |
|---|---|---|---|
| CONSTITUENTS | Oil & Grease | Volatile Organics (EPA Methods 624 & 625) | Priority Pollutans |
| FREQUENCY: | Annual (A) | Annual (A) | Annual (A) |
| DESCRIPTION: | 24 Hr Com posite | Grab | 24 Hr composite |
| UNITS: | m/gL | u/gL | u/gl |
| REQUIREMENTS: | | | |
| 30-DAY MEAN | | | |
| 7-DAY MEAN | | | |
| MAXIMUM | | | |
| DATE OF SAMPLE: | | | |
| 1 | | | |
| 2 | | See attached results | See attached results |
| 3 | | | |
| 4 | | | |
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| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | 1.0 | | |
| 20 | | | |
| 21 | | | |
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| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| **ANNUAL MEAN** | 1.0 | | |
| **MAXIMUM** | 1.0 | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2007**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | Attach Results |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

### SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :** _____

**METHOD OF DISPOSAL :** _____

**LOCATION OF DISPOSAL :** _____

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

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**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2007**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| Feb- 13-2007 | Change belts and greace air compresor |
| *March -25-2007* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2007* | Replace new aerators fi floads |
| *April - 29-2007* | Adjust aerators support cables all five . |
| *April - 30-2007* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2007* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2007* | Instal a new chart recorder . |
| *May - 27-2007* | Spread base rock around waste water plant. |
| June - 27-2007 | Repair easte side of the facility. |
| june - 29-2007 | Paint around the facility . |
| Aug - 09-2007 | Draining of east & west 1 ponds. |
| Aug - 14-2007 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2007 | Paint and organized frond parking lot. |
| Sept - 18-2007 | Clean up monthly uv bank and chanel. |
| Oct - 11-2007 | Removal of areators. |
| Nov - 29-2007 | Set up 2" pvc line for the reculation station. |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
REPORT: **CA0105023**
REPORTING FREQUENCY: **MONTHLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE | INFLUENT | | EFFLUENT DISCHARGED TO THE WILDCAT DRAIN | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr Composite (24- HC) | | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cal. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 65 | 65 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | | | 0.1156 | | | | | | | | |
| 2 | | | 0.1023 | | | | | | | | |
| 3 | | | 0.1148 | | | | | | | | |
| 4 | 160.0 | 566.0 | 0.0935 | 11.7 | 9.1 | 17.4 | 13.6 | | | 93 | 98 |
| 5 | | | 0.0879 | | | | | | | | |
| 6 | | | 0.0764 | | | | | 0.010 | 0.0064 | | |
| 7 | | | 0.0958 | | | | | | | | |
| 8 | | | 0.0967 | | | | | | | | |
| 9 | | | 0.1239 | | | | | | | | |
| 10 | | | 0.1395 | | | | | | | | |
| 11 | 210.0 | 701.0 | 0.1266 | 13.2 | 13.9 | 24.7 | 26.1 | | | 94 | 98 |
| 12 | | | 0.0891 | | | | | | | | |
| 13 | | | 0.0784 | | | | | | | | |
| 14 | | | 0.0784 | | | | | | | | |
| 15 | | | 0.0914 | | | | | | | | |
| 16 | | | 0.0899 | | | | | | | | |
| 17 | | | 0.0733 | | | | | | | | |
| 18 | 200.0 | 109.0 | 0.1356 | 7.6 | 8.6 | 5.0 | 5.7 | | | 96 | 92 |
| 19 | | | 0.1187 | | | | | | | | |
| 20 | | | 0.1499 | | | | | | | | |
| 21 | | | 0.1271 | | | | | | | | |
| 22 | | | 0.1066 | | | | | | | | |
| 23 | | | 0.1133 | | | | | | | | |
| 24 | | | 0.1023 | | | | | | | | |
| 25 | 660.0 | 156.0 | 0.0847 | 7.6 | 5.4 | 16.5 | 11.7 | | | 99 | 97 |
| 26 | | | 0.0854 | | | | | | | | |
| 27 | | | 0.0793 | | | | | | | | |
| 28 | | | 0.0749 | | | | | | | | |
| 29 | | | 0.0954 | | | | | | | | |
| 30 | | | 0.0867 | | | | | | | | |
| 31 | | | 0.0796 | | | | | | | | |
| **30-DAY MEAN** | **307.5** | **383.0** | **0.1016** | **10.0** | **9.3** | **15.9** | **14.2** | **0.010** | **0.0064** | **96** | **96** |
| **MAX 7-DAY MEAN** | | | | **13.2** | | **24.7** | | **0.010** | **0.0064** | | |
| **MAXIMUM** | | | **0.1499** | **13.2** | | **24.7** | | **0.010** | **0.0064** | **99** | **98** |
| **MINIMUM** | | | | | | | | | | **93** | **92** |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **March**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | | | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | 2 | 2 | 1 | 7.3 | 702.0 | 7.3 | 75 |
| 5 | | | | | | | |
| 6 | 2 | 2 | 129.0 | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | 30 | 30 | 200.0 | 7.1 | 756.0 | 7.5 | 73 |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | 6.4 | 7.4 | 994.0 | 7.0 | 73 |
| 19 | 80 | 80 | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | 8 | 8 | | 7.5 | 676.0 | 7.0 | 73 |
| 26 | | | | | | | |
| 27 | | | 45.3 | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| 30-DAY MEAN | **9** | **9** | **23.7** | **7.3** | **782.0** | **7.2** | **73.5** |
| MAX 7-DAY MEAN | | | | | | | |
| MAXIMUM | **80** | **80** | **200.0** | **7.5** | **994.0** | **7.5** | **75** |
| MINIMUM | | | | **7.1** | | **7.0** | **73** |



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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Frist**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE: | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS: | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | otal Nitrogen as N | rthophosphate as P | Total Phosphate as P | Priority pollutans |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA | ANNUALY |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | See attached results |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
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| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.25 | 1.80 | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
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| 31 | | | | | | | | |
| QUARTERLY MEAN | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.30 | 1.80 | |
| MAXIMUM | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.30 | 1.80 | |
| MINIMUM | | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **First**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
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| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| 12 | | | | | | | | |
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| 30 | | | | | | | | |
| 31 | | | | | | | | |
| 30-DAY MEAN | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MAX 7-DAY MEAN | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MAXIMUM | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MINIMUM | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **First**
MONTH: **March**
YEAR: **2008**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN | Attach Bioassay Results | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
| 4 | | |
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| 28 | | |
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| 30 | | |
| 31 | | |
| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-049(REVIS** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** **MONTH: DECEMBER**
REPORTING FREQUENCY: **ANNUALY** **YEAR: 2007**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | |
|---|---|---|---|
| CONSTITUENTS | Oil & Grease | Volatile Organics (EPA Methods 624 & 625) | Priority Pollutans |
| FREQUENCY: | Annual (A) | Annual (A) | Annual (A) |
| DESCRIPTION: | 24 Hr Com posite | Grab | 24 Hr composite |
| UNITS: | m/gL | u/gL | u/gl |
| REQUIREMENTS: | | | |
| 30-DAY MEAN | | | |
| 7-DAY MEAN | | | |
| MAXIMUM | | | |
| DATE OF SAMPLE: | | | |
| 1 | | | |
| 2 | | See attached results | See attached results |
| 3 | | | |
| 4 | | | |
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| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | 1.0 | | |
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| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| **ANNUAL MEAN** | 1.0 | | |
| **MAXIMUM** | 1.0 | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2007**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | Attach Results |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

### SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :** _____

**METHOD OF DISPOSAL :** _____

**LOCATION OF DISPOSAL :** _____

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

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**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2007**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| Feb- 13-2007 | Change belts and greace air compresor |
| *March -25-2007* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2007* | Replace new aerators fi floads |
| *April - 29-2007* | Adjust aerators support cables all five . |
| *April - 30-2007* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2007* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2007* | Instal a new chart recorder . |
| *May - 27-2007* | Spread base rock around waste water plant. |
| June - 27-2007 | Repair easte side of the facility. |
| june - 29-2007 | Paint around the facility . |
| Aug - 09-2007 | Draining of east & west t ponds. |
| Aug - 14-2007 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2007 | Paint and organized frond parking lot. |
| Sept - 18-2007 | Clean up monthly uv bank and chanel. |
| Oct - 11-2007 | Removal of areators. |
| Nov - 29-2007 | Set up 2" pvc line for the reculation station. |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
REPORT **CA0105023**
REPORTING FREQUENCY: **MONTHLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **April**
YEAR: **2008**

| TYPE OF SAMPLE | INFLUENT | | EFFLUENT DISCHARGED TO THE WILDCAT DRAIN | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr (24- | Composite HC) | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cal. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 65 | 65 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | 330 | 423 | 0.1010 | 7.80 | 6.6 | 15.8 | 13.3 | | | 98 | 98 |
| 2 | | | 0.1215 | | | | | | | | |
| 3 | | | 0.1114 | | | | | | | | |
| 4 | | | 0.1145 | | | | | | | | |
| 5 | | | 0.1024 | | | | | | | | |
| 6 | | | 0.1087 | | | | | | | | |
| 7 | | | 0.0987 | | | | | | | | |
| 8 | 140.0 | 800.0 | 0.0765 | 7.20 | 4.6 | 12.7 | 8.1 | 0.010 | 0.0064 | 95 | 99 |
| 9 | | | 0.0963 | | | | | | | | |
| 10 | | | 0.0654 | | | | | | | | |
| 11 | | | 0.0763 | | | | | | | | |
| 12 | | | 0.0864 | | | | | | | | |
| 13 | | | 0.1022 | | | | | | | | |
| 14 | | | 0.0833 | | | | | | | | |
| 15 | 120.0 | 233.0 | 0.0962 | 9.90 | 7.9 | 33.5 | 26.9 | | | 92 | 97 |
| 16 | | | 0.1014 | | | | | | | | |
| 17 | | | 0.0766 | | | | | | | | |
| 18 | | | 0.0855 | | | | | | | | |
| 19 | | | 0.0966 | | | | | | | | |
| 20 | | | 0.0991 | | | | | | | | |
| 21 | | | 0.1066 | | | | | | | | |
| 22 | | | 0.1037 | | | | | | | | |
| 23 | 140.0 | 464.0 | 0.0852 | 5.4 | 3.8 | 7.9 | 5.6 | | | 96 | 99 |
| 24 | | | 0.0866 | | | | | | | | |
| 25 | | | 0.0734 | | | | | | | | |
| 26 | | | 0.0763 | | | | | | | | |
| 27 | | | 0.0922 | | | | | | | | |
| 28 | | | 0.1010 | | | | | | | | |
| 29 | | | 0.1087 | | | | | | | | |
| 30 | 120.0 | 515.0 | 0.1196 | 7.6 | 7.6 | 8.9 | 8.9 | | | 94 | 99 |
| **30-DAY MEAN** | **170.0** | **487.0** | **0.0951** | **7.6** | **6.1** | **15.8** | **12.6** | **0.0** | **0.0** | **95** | **98** |
| **MAX 7-DAY MEAN** | | | | **26.4** | | **22.3** | | **22.3** | | | |
| **MAXIMUM** | | | **0.1339** | **26.4** | | **22.3** | | **22.3** | | | |
| **MINIMUM** | | | | | | | | | | **90** | **97** |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **April**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE: | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | 400 | 200 | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | 2 | 2 | 34.4 | 7.1 | 776.0 | 7.2 | 71 |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | 2 | 2 | 19.2 | 7.6 | 834.0 | 7.0 | 73 |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | 50 | 50 | 25.4 | 7.5 | 782.0 | 6.8 | 73 |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | 16.4 | | | | |
| 22 | | | | | | | |
| 23 | 8 | 8 | | 7.3 | 790.0 | 6.7 | 72 |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | 8 | 8 | 3.1 | 7.3 | 718.0 | 6.9 | 74 |
| 30-DAY MEAN | **9** | **7** | **15.4** | **7.4** | **781.0** | **6.9** | **73** |
| MAX 7-DAY MEAN | | | | | **834.0** | **7.2** | |
| MAXIMUM | **50** | **50** | **34.4** | **7.6** | | | **74** |
| MINIMUM | | | | **7.1** | **718.0** | **6.7** | **71** |



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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Third**
MONTH: **September**
YEAR: **2006**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | Total Nitrogen as N | Orthophosphate as P | Total Phosphate as P |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | | | | | | | |
| MINIMUM | | | | | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | 0.84 | 21.84 | 3.00 | 0.26 | 26.9 | 2.0 | 2.19 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
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| 30 | | | | | | | |
| 31 | | | | | | | |
| QUARTERLY MEAN | 0.84 | 21.84 | 3.00 | 0.26 | 26.9 | 2.0 | 2.19 |
| MAXIMUM | 0.84 | 21.84 | | 0.26 | 26.9 | 2.0 | 2.19 |
| MINIMUM | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Third**
MONTH: **September**
YEAR: **2006**

| TYPE OF SAMPLE: | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | 7.15 | 7.31 | 5.75 | 4.50 | 88 | 88 | 854 | 2140 |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
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| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| 30-DAY MEAN | 7.15 | 7.31 | 5.75 | 4.50 | 88.00 | 88.00 | 854.00 | 2140.00 |
| MAX 7-DAY MEAN | 7.15 | 7.31 | 5.75 | 4.50 | 88.00 | 88.00 | 854.00 | 2140.00 |
| MAXIMUM | 7.15 | 7.31 | 5.75 | 4.50 | 88.00 | 88.00 | 854.00 | 2140.00 |
| MINIMUM | 7.15 | 7.31 | 5.75 | 4.50 | 88.00 | 88.00 | 854.00 | 2140.00 |

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Third**
MONTH: **September**
YEAR: **2006**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RiVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **September**
YEAR: **2006**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN | Attach Bioassay Results | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
| 4 | | |
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| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **ANNUALY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
**MONTH: DECEMBER**
**YEAR: 2005**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | |
|---|---|---|
| CONSTITUENTS | Oil & Grease | Volatile Organics (EPA Methods 624 & 625) |
| FREQUENCY: | Annual (A) | Annual (A) |
| DESCRIPTION: | 24 Hr Com posite | Grab |
| UNITS: | m/gL | u/gL |
| REQUIREMENTS: | | |
| 30-DAY MEAN | | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | | See attached results |
| 3 | | |
| 4 | | |
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| 6 | | |
| 7 | | |
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| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | 3.0 | |
| 22 | | |
| 23 | | |
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| 30 | | |
| 31 | | |
| **ANNUAL MEAN** | 3.0 | |
| **MAXIMUM** | 3.0 | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2003**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | Attach Results |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

### SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :** _____

**METHOD OF DISPOSAL :** _____

**LOCATION OF DISPOSAL :** _____

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

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**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2005**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| *March -25-2005* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2005* | Replace new aerators fr floads |
| *April - 29-2005* | Adjust aerators support cables all five . |
| *April - 30-2005* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2005* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2005* | Instal a new chart recorder . |
| *May - 27-2005* | Spread base rock around waste water plant. |
| June - 27-2005 | Repair easte side of the facility. |
| june - 29-2005 | Paint around the facility . |
| Aug - 09-2005 | Draining of east & west t ponds. |
| Aug - 14-2005 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2005 | Paint and organized frond parking lot. |
| Sept - 18-2005 | Clean up monthly uv bank and chanel. |
| Oct - 11-2005 | Removal of areators. |
| Nov - 29-2005 | Set up 2" pvc line for the reculation station. |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
REPORTI **CA0105023**
REPORTING FREQUENCY: **MONTHLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **June**
YEAR: **2008**

| TYPE OF SAMPLE | INFLUENT | | EFFLUENT DISCHARGED TO THE WILDCAT DRAIN | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr Composite (24- HC) | | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cal. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 65 | 65 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | | | 0.1154 | | | | | | | | |
| 2 | | | 0.1223 | | | | | | | | |
| 3 | | | 0.1287 | | | | | | | | |
| 4 | 180.0 | 544.0 | 0.1196 | 8.4 | 8.4 | 8.6 | 8.6 | 0.010 | 0.000008 | 95 | 98 |
| 5 | | | 0.1148 | | | | | | | | |
| 6 | | | 0.1169 | | | | | | | | |
| 7 | | | 0.1093 | | | | | | | | |
| 8 | | | 0.1081 | | | | | | | | |
| 9 | | | 0.1046 | | | | | | | | |
| 10 | | | 0.1068 | | | | | | | | |
| 11 | 780.0 | 1856.0 | 0.1054 | 7.8 | 6.9 | 8.7 | 7.6 | | | 99 | 100 |
| 12 | | | 0.0939 | | | | | | | | |
| 13 | | | 0.1024 | | | | | | | | |
| 14 | | | 0.1053 | | | | | | | | |
| 15 | | | 0.0965 | | | | | | | | |
| 16 | 190.0 | 496.0 | 0.1023 | 6.8 | 5.8 | 24.2 | 20.6 | | | 96 | 95 |
| 17 | | | 0.1325 | | | | | | | | |
| 18 | | | 0.1124 | | | | | | | | |
| 19 | | | 0.1024 | | | | | | | | |
| 20 | | | 0.1023 | | | | | | | | |
| 21 | | | 0.0954 | | | | | | | | |
| 22 | | | 0.0869 | | | | | | | | |
| 23 | | | 0.0968 | | | | | | | | |
| 24 | | | 0.0989 | | | | | | | | |
| 25 | 150.0 | 41.0 | 0.1189 | 7.6 | 7.5 | 8.7 | 8.6 | | | 95 | 79 |
| 26 | | | 0.0987 | | | | | | | | |
| 27 | | | 0.0897 | | | | | | | | |
| 28 | | | 0.0955 | | | | | | | | |
| 29 | | | 0.0984 | | | | | | | | |
| 30 | | | 0.1189 | | | | | | | | |
| **30-DAY MEAN** | **325.0** | **734.3** | **0.1067** | **7.7** | **7.1** | **12.6** | **11.4** | 0.010 | 0.000008 | **96** | **93** |
| **MAX 7-DAY MEAN** | | | | **8.4** | | **24.2** | | 0.010 | 0.000008 | | |
| **MAXIMUM** | | | **0.1339** | **8.4** | | **24.2** | | 0.010 | 0.000008 | | |
| **MINIMUM** | | | | | | | | | | **95** | **79** |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **JUNE**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | | | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | 2 | 2 | 200.5 | 7.3 | 1018.0 | 7.5 | 68 |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | 4 | 4 | 200.5 | | | | |
| 10 | | | | | | | |
| 11 | 13 | 13 | 36.4 | 7.4 | | 7.9 | 70 |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | 2 | 2 | 16.4 | 7.5 | | 7.7 | 70 |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | 8 | 8 | 1.0 | 7.5 | | 7.6 | 71 |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| 30-DAY MEAN | **4** | **4** | **29.9** | **7.4** | **1018.0** | **7.7** | **70** |
| MAX 7-DAY MEAN | | | | | **1018.0** | **7.9** | |
| MAXIMUM | **13** | **13** | **200.5** | **7.5** | | | **71** |
| MINIMUM | | | | **7.3** | **1018.0** | **7.5** | **68** |



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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **SECOND**
MONTH: **JUNE**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | Total Nitrogen as N | Orthophosphate as P | Total Phosphate as P |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | | | | | | | |
| MINIMUM | | | | | | | |
| DATE OF SAMPLE: | | | | | | | |
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| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | 0.05 | 21.28 | 564.0 | 4.10 | 23.2 | 1.3 | 1.8 |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| QUARTERLY MEAN | 0.05 | 21.28 | 564.0 | 4.10 | 23.2 | 1.3 | 1.8 |
| MAXIMUM | 0.05 | 21.28 | 564.0 | 4.10 | 23.2 | 1.3 | 1.8 |
| MINIMUM | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Second**
MONTH: **June**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
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| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | 7.25 | 7.20 | 5.77 | 6.06 | 33 | 33 | 1028 | 1106 |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 30-DAY MEAN | 7.25 | 7.20 | 5.77 | 6.06 | 33.00 | 33.00 | 1028.00 | 1106.00 |
| MAX 7-DAY MEAN | 7.25 | 7.20 | 5.77 | 6.06 | 33.00 | 33.00 | 1028.00 | 1106.00 |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Second**
MONTH: **June**
YEAR: **2008**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

I declare under the penalty of the law that I personaly examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responisible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the posibility of fine and imprisonment for knowing violations.

SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **April**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN | Attach Bioassay Results | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
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| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **ANNUALY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
**MONTH: DECEMBER**
**YEAR: 2005**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | |
|---|---|---|
| CONSTITUENTS | Oil & Grease | Volatile Organics (EPA Methods 624 & 625) |
| FREQUENCY: | Annual (A) | Annual (A) |
| DESCRIPTION: | 24 Hr Com posite | Grab |
| UNITS: | m/gL | u/gL |
| REQUIREMENTS: | | |
| 30-DAY MEAN | | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | | See attached results |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
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| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | 3.0 | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
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| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| **ANNUAL MEAN** | 3.0 | |
| **MAXIMUM** | 3.0 | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2003**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | Attach Results |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

### SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :** _____

**METHOD OF DISPOSAL :** _____

**LOCATION OF DISPOSAL :** _____

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

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**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2005**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| *March -25-2005* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2005* | Replace new aerators fr floads |
| *April - 29-2005* | Adjust aerators support cables all five . |
| *April - 30-2005* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2005* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2005* | Instal a new chart recorder . |
| *May - 27-2005* | Spread base rock around waste water plant. |
| June - 27-2005 | Repair easte side of the facility. |
| june - 29-2005 | Paint around the facility . |
| Aug - 09-2005 | Draining of east & west t ponds. |
| Aug - 14-2005 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2005 | Paint and organized frond parking lot. |
| Sept - 18-2005 | Clean up monthly uv bank and chanel. |
| Oct - 11-2005 | Removal of areators. |
| Nov - 29-2005 | Set up 2" pvc line for the reculation station. |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
REPORT **CA0105023**
REPORTING FREQUENCY: **MONTHLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **JULY**
YEAR: **2008**

| TYPE OF SAMPLE | INFLUENT | | EFFLUENT DISCHARGED TO THE WILDCAT DRAIN | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr Composite (24- HC) | | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cal. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 65 | 65 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | 108 | 117 | 0.1123 | 6.4 | 6.0 | 13.8 | 12.9 | | | 94 | 95 |
| 2 | | | 0.1154 | | | | | | | | |
| 3 | | | 0.1178 | | | | | | | | |
| 4 | | | 0.1184 | | | | | | | | |
| 5 | | | 0.1189 | | | | | | | | |
| 6 | | | 0.1125 | | | | | | | | |
| 7 | | | 0.1113 | | | | | | | | |
| 8 | | | 0.0965 | | | | | | | | |
| 9 | 210.0 | 116.0 | 0.0854 | 13.2 | 9.4 | 50.8 | 36.2 | | | 94 | 92 |
| 10 | | | 0.0844 | | | | | | | | |
| 11 | | | 0.0966 | | | | | | | | |
| 12 | | | 0.1024 | | | | | | | | |
| 13 | | | 0.1145 | | | | | | | | |
| 14 | | | 0.1169 | | | | | | | | |
| 15 | | | 0.1017 | | | | | | | | |
| 16 | 200.0 | 555.0 | 0.1048 | 7.6 | 6.6 | 37.9 | 33.1 | 0.010 | 0.000008 | 96 | 99 |
| 17 | | | 0.1147 | | | | | | | | |
| 18 | | | 0.1159 | | | | | | | | |
| 19 | | | 0.1235 | | | | | | | | |
| 20 | | | 0.1161 | | | | | | | | |
| 21 | | | 0.1178 | | | | | | | | |
| 22 | | | 0.1047 | | | | | | | | |
| 23 | 186.0 | 316.0 | 0.1066 | 11.1 | 9.9 | 38.0 | 33.8 | | | 94 | 97 |
| 24 | | | 0.1087 | | | | | | | | |
| 25 | | | 0.0896 | | | | | | | | |
| 26 | | | 0.0965 | | | | | | | | |
| 27 | | | 0.0988 | | | | | | | | |
| 28 | | | 0.0931 | | | | | | | | |
| 29 | | | 0.0987 | | | | | | | | |
| 30 | 200.0 | 265.0 | 0.0564 | 7.4 | 3.5 | 5.2 | 2.4 | | | 96 | 99 |
| 31 | | | 0.0963 | | | | | | | | |
| **30-DAY MEAN** | **180.8** | **273.8** | **0.1047** | **9.1** | **7.1** | **29.1** | **23.7** | **0.010** | **0.000008** | **95** | **96** |
| **MAX 7-DAY MEAN** | | | | | | | | | | | |
| **MAXIMUM** | | | **0.1235** | | | | | **0.010** | **0.000008** | | |
| **MINIMUM** | | | | | | | | | | **94** | **92** |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **july**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | 126 | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | 400.0 | 100.0 | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | 4 | 4 | 200.0 | 7.4 | 1108.0 | 7.8 | 89 |
| 2 | | | | | | | |
| 3 | | | | | | | |
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| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | 4 | 4 | 34.4 | 7.3 | | 7.3 | 90 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | 2 | 2 | 1.0 | 7.2 | | 7.4 | 90 |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | 500 | 500 | 9.9 | 7.3 | | 7.7 | 87 |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | 2 | 2 | 1.0 | 7.4 | | 7.6 | 89 |
| 31 | | | | | | | |
| 30-DAY MEAN | **9** | **9** | **4.3** | **7.3** | **1108.0** | **7.5** | **89** |
| MAX 7-DAY MEAN | | | | | | | |
| MAXIMUM | **500** | **500** | **200.0** | **7.4** | **1108.0** | **7.8** | **90** |
| MINIMUM | | | | **7.3** | | **7.3** | **87** |



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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Third**
MONTH: **September**
YEAR: **2006**

| TYPE OF SAMPLE: | RECEIVING WATER MONITORING (R-1) | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | Total Nitrogen as N | Orthophosphate as P | Total Phosphate as P |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | | | | | | | |
| MINIMUM | | | | | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | 0.84 | 21.84 | 3.00 | 0.26 | 26.9 | 2.0 | 2.19 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
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| 30 | | | | | | | |
| 31 | | | | | | | |
| QUARTERLY MEAN | 0.84 | 21.84 | 3.00 | 0.26 | 26.9 | 2.0 | 2.19 |
| MAXIMUM | 0.84 | 21.84 | | 0.26 | 26.9 | 2.0 | 2.19 |
| MINIMUM | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Third**
MONTH: **September**
YEAR: **2006**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | 7.15 | 7.31 | 5.75 | 4.50 | 88 | 88 | 854 | 2140 |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
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| 30 | | | | | | | | |
| 31 | | | | | | | | |
| 30-DAY MEAN | 7.15 | 7.31 | 5.75 | 4.50 | 88.00 | 88.00 | 854.00 | 2140.00 |
| MAX 7-DAY MEAN | 7.15 | 7.31 | 5.75 | 4.50 | 88.00 | 88.00 | 854.00 | 2140.00 |
| MAXIMUM | 7.15 | 7.31 | 5.75 | 4.50 | 88.00 | 88.00 | 854.00 | 2140.00 |
| MINIMUM | 7.15 | 7.31 | 5.75 | 4.50 | 88.00 | 88.00 | 854.00 | 2140.00 |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Third**
MONTH: **September**
YEAR: **2006**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **September**
YEAR: **2006**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN | Attach Bioassay Results | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
| 4 | | |
| 5 | | |
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| 29 | | |
| 30 | | |
| 31 | | |
| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **ANNUALY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
**MONTH: DECEMBER**
**YEAR: 2005**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | |
|---|---|---|
| CONSTITUENTS | Oil & Grease | Volatile Organics (EPA Methods 624 & 625) |
| FREQUENCY: | Annual (A) | Annual (A) |
| DESCRIPTION: | 24 Hr Com posite | Grab |
| UNITS: | m/gL | u/gL |
| REQUIREMENTS: | | |
| 30-DAY MEAN | | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | | See attached results |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
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| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | 3.0 | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| **ANNUAL MEAN** | 3.0 | |
| **MAXIMUM** | 3.0 | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2003**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | Attach Results |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

## SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :** _____

**METHOD OF DISPOSAL :** _____

**LOCATION OF DISPOSAL :** _____

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

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**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2005**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| *March -25-2005* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2005* | Replace new aerators fc floads |
| *April - 29-2005* | Adjust aerators support cables all five . |
| *April - 30-2005* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2005* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2005* | Instal a new chart recorder . |
| *May - 27-2005* | Spread base rock around waste water plant. |
| June - 27-2005 | Repair easte side of the facility. |
| june - 29-2005 | Paint around the facility . |
| Aug - 09-2005 | Draining of east & west t ponds. |
| Aug - 14-2005 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2005 | Paint and organized frond parking lot. |
| Sept - 18-2005 | Clean up monthly uv bank and chanel. |
| Oct - 11-2005 | Removal of areators. |
| Nov - 29-2005 | Set up 2" pvc line for the reculation station. |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
REPORTI **CA0105023**
REPORTING FREQUENCY: **MONITORING**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **August**
YEAR: **2008**

| TYPE OF SAMPLE | INFLUENT | | EFFLUENT DISCHARGED TO THE WILDCAT DRAIN | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr Composite (24- HC) | | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cat. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 65 | 65 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | | | 0.1254 | | | | | | | | |
| 2 | | | 0.1378 | | | | | | | | |
| 3 | | | 0.1498 | | | | | | | | |
| 4 | | | 0.1458 | | | | | | | | |
| 5 | | | 0.1295 | | | | | | | | |
| 6 | 180.0 | 184.0 | 0.1158 | 9.3 | 9.0 | 19.5 | 18.8 | 0.010 | 0.000008 | 95 | 95 |
| 7 | | | 0.1154 | | | | | | | | |
| 8 | | | 0.1128 | | | | | | | | |
| 9 | | | 0.1489 | | | | | | | | |
| 10 | | | 0.1221 | | | | | | | | |
| 11 | | | 0.1069 | | | | | | | | |
| 12 | | | 0.0987 | | | | | | | | |
| 13 | 470.0 | 1944.0 | 0.1564 | 7.8 | 10.2 | 13.1 | 17.1 | | | 98 | 99 |
| 14 | | | 0.1236 | | | | | | | | |
| 15 | | | 0.1236 | | | | | | | | |
| 16 | | | 0.1154 | | | | | | | | |
| 17 | | | 0.1368 | | | | | | | | |
| 18 | | | 0.1263 | | | | | | | | |
| 19 | 280.0 | 293.0 | 0.1254 | 4.8 | 5.0 | 11.9 | 12.4 | | | 98 | 98 |
| 20 | | | 0.1148 | | | | | | | | |
| 21 | | | 0.1315 | | | | | | | | |
| 22 | | | 0.1147 | | | | | | | | |
| 23 | | | 0.1036 | | | | | | | | |
| 24 | | | 0.1154 | | | | | | | | |
| 25 | | | 0.1054 | | | | | | | | |
| 26 | | | 0.1148 | | | | | | | | |
| 27 | 240.0 | 443.0 | 0.1236 | 5.4 | 5.6 | 11.3 | 11.6 | | | 98 | 99 |
| 28 | | | 0.1047 | | | | | | | | |
| 29 | | | 0.1147 | | | | | | | | |
| 30 | | | 0.1156 | | | | | | | | |
| 31 | | | 0.1156 | | | | | | | | |
| **30-DAY MEAN** | **292.5** | **716.0** | **0.1227** | **6.8** | **7.4** | **14.0** | **15.0** | **0.010** | **0.000008** | **96** | **98** |
| **MAX 7-DAY MEAN** | | | | **9.3** | | **19.5** | | 0.010 | 0.000008 | | |
| **MAXIMUM** | | | **0.1564** | **9.3** | | **19.5** | | 0.010 | 0.000008 | **98** | **98** |
| **MINIMUM** | | | | | | | | | | **95** | **92** |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **AUGUST**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | | | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | 2 | 2 | 1.0 | 7.4 | 1078.0 | 7.4 | 50 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | 1600 | 1600 | 7.5 | 7.3 | | 7.7 | 51 |
| 14 | | | | | | | |
| 15 | 1600 | 1600 | 11.1 | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | 240 | 240 | 32.4 | 7.4 | | 7.7 | 52 |
| 20 | | | | | | | |
| 21 | | | | | | | |
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| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | 8 | 8 | 3.1 | 75.0 | | 7.8 | 50 |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| 30-DAY MEAN | **100** | **100** | **6.1** | **24.3** | **1078.0** | **7.7** | **50.8** |
| MAX 7-DAY MEAN | | | | | | | |
| MAXIMUM | **1600** | **1600** | **32.4** | **7.5** | **1078.0** | **7.8** | |
| MINIMUM | | | | **7.4** | | **7.4** | |



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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Frist**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | Total Nitrogen as N | Orthophosphate as P | Total Phosphate as P | Priority pollutans |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA | ANNUALY |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | See attached results |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
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| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.25 | 1.80 | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
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| 31 | | | | | | | | |
| QUARTERLY MEAN | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.30 | 1.80 | |
| MAXIMUM | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.30 | 1.80 | |
| MINIMUM | | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **First**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE: | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | |
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| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| 12 | | | | | | | | |
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| 31 | | | | | | | | |
| 30-DAY MEAN | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MAX 7-DAY MEAN | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MAXIMUM | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MINIMUM | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **First**
MONTH: **March**
YEAR: **2008**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

I declare under the penalty of the law that I personaly examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responisible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the posibility of fine and imprisonment for knowing violations.

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN | Attach Bioassay Results | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
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| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-049(REVIS** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** **MONTH: DECEMBER**
REPORTING FREQUENCY: **ANNUALY** **YEAR: 2007**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | |
|---|---|---|---|
| CONSTITUENTS | Oil & Grease | Volatile Organics (EPA Methods 624 & 625) | Priority Pollutans |
| FREQUENCY: | Annual (A) | Annual (A) | Annual (A) |
| DESCRIPTION: | 24 Hr Com posite | Grab | 24 Hr composite |
| UNITS: | m/gL | u/gL | u/gl |
| REQUIREMENTS: | | | |
| 30-DAY MEAN | | | |
| 7-DAY MEAN | | | |
| MAXIMUM | | | |
| DATE OF SAMPLE: | | | |
| 1 | | | |
| 2 | | See attached results | See attached results |
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| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | 1.0 | | |
| 20 | | | |
| 21 | | | |
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| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| **ANNUAL MEAN** | 1.0 | | |
| **MAXIMUM** | 1.0 | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2007**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | Attach Results |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

### SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :** _____

**METHOD OF DISPOSAL :** _____

**LOCATION OF DISPOSAL :** _____

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

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**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2007**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| Feb- 13-2007 | Change belts and greace air compresor |
| *March -25-2007* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2007* | Replace new aerators fc floads |
| *April - 29-2007* | Adjust aerators support cables all five . |
| *April - 30-2007* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2007* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2007* | Instal a new chart recorder . |
| *May - 27-2007* | Spread base rock around waste water plant. |
| June - 27-2007 | Repair easte side of the facility. |
| june - 29-2007 | Paint around the facility . |
| Aug - 09-2007 | Draining of east & west t ponds. |
| Aug - 14-2007 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2007 | Paint and organized frond parking lot. |
| Sept - 18-2007 | Clean up monthly uv bank and chanel. |
| Oct - 11-2007 | Removal of areators. |
| Nov - 29-2007 | Set up 2" pvc line for the reculation station. |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
REPORT **CA0105023**
REPORTING FREQUENCY: **MONTHLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **September**
YEAR: **2008**

| TYPE OF SAMPLE | INFLUENT | | EFFLUENT DISCHARGED TO THE WILDCAT DRAIN | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr Composite (24- HC) | | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cal. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 65 | 65 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | | | 0.1025 | | | | | | | | |
| 2 | | | 0.1145 | | | | | | | | |
| 3 | 540.0 | 320.0 | 0.1236 | 9.4 | 9.7 | 13.5 | 13.9 | | | 98 | 97 |
| 4 | | | 0.0987 | | | | | | | | |
| 5 | | | 0.8963 | | | | | | | | |
| 6 | | | 0.1049 | | | | | | | | |
| 7 | | | 0.1184 | | | | | | | | |
| 8 | | | 0.1193 | | | | | | | | |
| 9 | | | 0.1154 | | | | | | | | |
| 10 | 630.0 | 421.0 | 0.1213 | 28.0 | 28.3 | 15.1 | 15.3 | 0.010 | 0.000008 | 96 | 93 |
| 11 | | | 0.1042 | | | | | | | | |
| 12 | | | 0.1564 | | | | | | | | |
| 13 | | | 0.1364 | | | | | | | | |
| 14 | | | 0.1047 | | | | | | | | |
| 15 | | | 0.1025 | | | | | | | | |
| 16 | | | 0.1054 | | | | | | | | |
| 17 | 240.0 | 527.0 | 0.1096 | 4.0 | 3.7 | 8.9 | 8.1 | | | 98 | 99 |
| 18 | | | 0.1047 | | | | | | | | |
| 19 | | | 0.1058 | | | | | | | | |
| 20 | | | 0.1286 | | | | | | | | |
| 21 | | | 0.1145 | | | | | | | | |
| 22 | | | 0.1036 | | | | | | | | |
| 23 | | | 0.0921 | | | | | | | | |
| 24 | 240.0 | 240.0 | 0.0854 | 5.6 | 4.0 | 17.0 | 12.1 | | | 98 | 98 |
| 25 | | | 0.1025 | | | | | | | | |
| 26 | | | 0.1047 | | | | | | | | |
| 27 | | | 0.1036 | | | | | | | | |
| 28 | | | 0.1295 | | | | | | | | |
| 29 | | | 0.1131 | | | | | | | | |
| 30 | | | 0.1025 | | | | | | | | |
| **30-DAY MEAN** | **412.5** | **377.0** | **0.1375** | **11.8** | **11.4** | **13.6** | **12.4** | **0.010** | **0.000008** | **97** | **97** |
| **MAX 7-DAY MEAN** | | | | **28.0** | **28.3** | **17.0** | **15.3** | **0.010** | **0.000008** | | |
| **MAXIMUM** | | | **0.1564** | **28.0** | **28.3** | **17.0** | **15.3** | **0.010** | **0.000008** | **98** | **93** |
| **MINIMUM** | | | | | | | | | | **96** | **99** |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **September**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | | | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | 23 | 23 | 200 | 7.0 | | 7.1 | 68 |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | 30 | 30 | 1 | 7.2 | | 6.8 | 67 |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | 4 | 4 | 1 | 7.2 | 1718.0 | 6.9 | 67 |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | 2 | 2 | 1 | 7.0 | | 7.1 | 68 |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 1 | | | | | | | |
| 2 | 13 | 13 | 1 | | | | |
| 30-DAY MEAN | **9** | **9** | **4** | **7.1** | **1718.0** | **7.0** | **68** |
| MAX 7-DAY MEAN | | | | | | | |
| MAXIMUM | **30** | **30** | **200** | **7.2** | **1718.0** | **7.1** | **68** |
| MINIMUM | | | | **7.0** | | **6.8** | **67** |

SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Third**
MONTH: **September**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | Total Nitrogen as N | Orthophosphate as P | Total Phosphate as P |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | | | | | | | |
| MINIMUM | | | | | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
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| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | 0.05 | 4.48 | 380.00 | 7.60 | 13.3 | 1.5 | 1.9 |
| 18 | | | | | | | |
| 19 | | | | | | | |
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| 30 | | | | | | | |
| 31 | | | | | | | |
| QUARTERLY MEAN | 0.05 | 4.48 | 380.00 | 7.60 | 13.3 | 1.5 | 1.9 |
| MAXIMUM | 0.05 | 4.48 | 380.00 | 7.60 | 13.3 | 1.5 | 1.9 |
| MINIMUM | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Third**
MONTH: **September**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | |
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| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | 7.30 | 7.26 | 6.24 | 6.14 | 50 | 50 | 1006 | 1046 |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
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| 31 | | | | | | | | |
| 30-DAY MEAN | 7.30 | 7.26 | 6.24 | 6.14 | 50 | 50 | 1006 | 1046 |
| MAX 7-DAY MEAN | 7.30 | 7.26 | 6.24 | 6.14 | 50 | 50 | 1006 | 1046 |
| MAXIMUM | 7.30 | 7.26 | 6.24 | 6.14 | 50 | 50 | 1006 | 1046 |
| MINIMUM | 7.30 | 7.26 | 6.24 | 6.14 | 50 | 50 | 1006 | 1046 |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Third**
MONTH: **September**
YEAR: **2008**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **September**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN | Attach Bioassay Results | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
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| 31 | | |
| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **ANNUALY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
**MONTH: DECEMBER**
**YEAR: 2005**

| TYPE OF SAMPLE | **EFFLUENT DISCHARGED TO THE NEW RIVER** | |
|---|---|---|
| CONSTITUENTS: | Oil & Grease | Volatile Organics (EPA Methods 624 & 625) |
| FREQUENCY: | Annual (A) | Annual (A) |
| DESCRIPTION: | 24 Hr Com posite | Grab |
| UNITS: | m/gL | u/gL |
| REQUIREMENTS: | | |
| 30-DAY MEAN | | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | | See attached results |
| 3 | | |
| 4 | | |
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| 20 | | |
| 21 | 3.0 | |
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| 28 | | |
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| 30 | | |
| 31 | | |
| **ANNUAL MEAN** | 3.0 | |
| **MAXIMUM** | 3.0 | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2003**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | Attach Results |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

### SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :** _____

**METHOD OF DISPOSAL :** _____

**LOCATION OF DISPOSAL :** _____

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

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**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2005**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| *March -25-2005* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2005* | Replace new aerators fi floads |
| *April - 29-2005* | Adjust aerators support cables all five . |
| *April - 30-2005* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2005* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2005* | Instal a new chart recorder . |
| *May - 27-2005* | Spread base rock around waste water plant. |
| June - 27-2005 | Repair easte side of the facility. |
| june - 29-2005 | Paint around the facility . |
| Aug - 09-2005 | Draining of east & west t ponds. |
| Aug - 14-2005 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2005 | Paint and organized frond parking lot. |
| Sept - 18-2005 | Clean up monthly uv bank and chanel. |
| Oct - 11-2005 | Removal of areators. |
| Nov - 29-2005 | Set up 2" pvc line for the reculation station. |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
REPORTI **CA0105023**
REPORTING FREQUENCY: **MONTHLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **October**
YEAR: **2008**

| TYPE OF SAMPLE | INFLUENT | | EFFLUENT DISCHARGED TO THE WILDCAT DRAIN | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr Composite (24- HC) | | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cal. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 65 | 65 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | | | 0.1223 | | | | | | | | |
| 2 | 210.0 | 2557 | 0.1054 | 7.4 | 6.5 | 10.2 | 9.0 | | | | |
| 3 | | | 0.1026 | | | | | | | | |
| 4 | | | 0.1125 | | | | | | | | |
| 5 | | | 0.1045 | | | | | | | | |
| 6 | | | 0.1036 | | | | | | | | |
| 7 | | | 0.1047 | | | | | | | | |
| 8 | 270.0 | 352.0 | 0.1096 | 5.0 | 4.6 | 11.6 | 10.6 | | | 98 | 99 |
| 9 | | | 0.1147 | | | | | | | | |
| 10 | | | 0.1166 | | | | | | | | |
| 11 | | | 0.1137 | | | | | | | | |
| 12 | | | 0.1129 | | | | | | | | |
| 13 | | | 0.1124 | | | | | | | | |
| 14 | | | 0.1145 | | | | | | | | |
| 15 | | | 0.1170 | | | | | | | | |
| 16 | 144.0 | 133.0 | 0.1154 | 6.2 | 6.0 | 26.7 | 25.7 | | | 96 | 96 |
| 17 | | | 0.1078 | | | | | | | | |
| 18 | | | 0.1096 | | | | | | | | |
| 19 | | | 0.1361 | | | | | | | | |
| 20 | | | 0.1274 | | | | | 0.010 | 0.000008 | | |
| 21 | 180.0 | 239.0 | 0.1089 | 11.7 | 10.6 | 28.9 | 26.2 | | | 94 | 96 |
| 22 | | | 0.1458 | | | | | | | | |
| 23 | | | 0.1400 | | | | | | | | |
| 24 | | | 0.1391 | | | | | | | | |
| 25 | | | 0.1263 | | | | | | | | |
| 26 | | | 0.1078 | | | | | | | | |
| 27 | | | 0.0987 | | | | | | | | |
| 28 | | | 0.1147 | | | | | | | | |
| 29 | 222.0 | 378.0 | 0.1194 | 11.7 | 11.7 | 23.4 | 23.3 | | | 95 | 97 |
| 30 | | | 0.1123 | | | | | | | | |
| 31 | | | 0.1012 | | | | | | | | |
| **30-DAY MEAN** | **205.2** | **731.8** | **0.1154** | **8.4** | **7.9** | **20.2** | **19.0** | **0.010** | **0.000008** | **96** | **97** |
| **MAX 7-DAY MEAN** | | | | **11.7** | | **28.9** | | 0.010 | 0.000008 | | |
| **MAXIMUM** | | | **0.1458** | **11.7** | | **28.9** | | 0.010 | 0.000008 | **98** | **99** |
| **MINIMUM** | | | | | | | | | | **94** | **96** |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **October**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | | | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | 7.1 | | 7.0 | 68 |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | 982.0 | | |
| 8 | 30 | 30 | 200.5 | 7.4 | | 6.8 | 67 |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | 110 | 110 | 200.5 | 7.3 | | 6.5 | 67 |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | 7.5 | | 6.9 | 66 |
| 22 | | | | | | | |
| 23 | 23 | 23 | 200.5 | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | 30 | 30 | 4.2 | 7.5 | | 7.3 | 68 |
| 30 | | | | | | | |
| 31 | 8 | 8 | 200.5 | | | | |
| 30-DAY MEAN | **39** | **39** | **76.3** | **7.4** | **982.0** | **6.9** | **67** |
| MAX 7-DAY MEAN | | | | | | | |
| MAXIMUM | **110** | **110** | **200.5** | **7.5** | **982.0** | **7.3** | **68** |
| MINIMUM | | | | **7.3** | | **6.5** | **66** |



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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Frist**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | Total Nitrogen as N | Orthophosphate as P | Total Phosphate as P | Priority pollutans |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA | ANNUALY |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | See attached results |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
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| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.25 | 1.80 | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
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| 31 | | | | | | | | |
| QUARTERLY MEAN | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.30 | 1.80 | |
| MAXIMUM | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.30 | 1.80 | |
| MINIMUM | | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **First**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | |
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| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| 12 | | | | | | | | |
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| 31 | | | | | | | | |
| 30-DAY MEAN | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MAX 7-DAY MEAN | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MAXIMUM | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MINIMUM | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **First**
MONTH: **March**
YEAR: **2008**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE: | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN | Attach Bioassay Results | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
| 4 | | |
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| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-049(REVIS** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** **MONTH: DECEMBER**
REPORTING FREQUENCY: **ANNUALY** **YEAR: 2007**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | |
|---|---|---|---|
| CONSTITUENTS | Oil & Grease | Volatile Organics (EPA Methods 624 & 625) | Priority Pollutans |
| FREQUENCY: | Annual (A) | Annual (A) | Annual (A) |
| DESCRIPTION: | 24 Hr Com posite | Grab | 24 Hr composite |
| UNITS: | m/gL | u/gL | u/gl |
| REQUIREMENTS: | | | |
| 30-DAY MEAN | | | |
| 7-DAY MEAN | | | |
| MAXIMUM | | | |
| DATE OF SAMPLE: | | | |
| 1 | | | |
| 2 | | See attached results | See attached results |
| 3 | | | |
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| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | 1.0 | | |
| 20 | | | |
| 21 | | | |
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| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| **ANNUAL MEAN** | 1.0 | | |
| **MAXIMUM** | 1.0 | | |

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2007**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | Attach Results |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

### SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :** _____

**METHOD OF DISPOSAL :** _____

**LOCATION OF DISPOSAL :** _____

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

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**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2007**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| Feb- 13-2007 | Change belts and greace air compresor |
| *March -25-2007* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2007* | Replace new aerators fc floads |
| *April - 29-2007* | Adjust aerators support cables all five . |
| *April - 30-2007* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2007* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2007* | Instal a new chart recorder . |
| *May - 27-2007* | Spread base rock around waste water plant. |
| June - 27-2007 | Repair easte side of the facility. |
| june - 29-2007 | Paint around the facility . |
| Aug - 09-2007 | Draining of east & west t ponds. |
| Aug - 14-2007 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2007 | Paint and organized frond parking lot. |
| Sept - 18-2007 | Clean up monthly uv bank and chanel. |
| Oct - 11-2007 | Removal of areators. |
| Nov - 29-2007 | Set up 2" pvc line for the reculation station. |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
REPORT! **CA0105023**
REPORTING FREQUENCY: **MONTHLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **November**
YEAR: **2008**

| TYPE OF SAMPLE | INFLUENT | | EFFLUENT DISCHARGED TO THE WILDCAT DRAIN | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr Composite (24- HC) | | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cal. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 65 | 65 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | | | 0.1156 | | | | | | | | |
| 2 | | | 0.1178 | | | | | | | | |
| 3 | | | 0.1145 | | | | | | | | |
| 4 | | | 0.1102 | | | | | | | | |
| 5 | 290.0 | 453.0 | 0.1025 | 7.20 | 6.2 | 20.0 | 17.1 | | | 98 | 99 |
| 6 | | | 0.1536 | | | | | | | | |
| 7 | | | 0.1294 | | | | | | | | |
| 8 | | | 0.1168 | | | | | | | | |
| 9 | | | 0.1046 | | | | | | | | |
| 10 | | | 0.1189 | | | | | | | | |
| 11 | | | 0.1248 | | | | | | | | |
| 12 | 198.0 | 167.0 | 0.1369 | 5.20 | 5.9 | 18.5 | 21.1 | 0.010 | 0.000008 | 97 | 96 |
| 13 | | | 0.1469 | | | | | | | | |
| 14 | | | 0.1457 | | | | | | | | |
| 15 | | | 0.1423 | | | | | | | | |
| 16 | | | 0.1258 | | | | | | | | |
| 17 | | | 0.1163 | | | | | | | | |
| 18 | 780.0 | 578.0 | 0.1093 | 11.40 | 10.4 | 16.1 | 14.7 | | | 99 | 98 |
| 19 | | | 0.1034 | | | | | | | | |
| 20 | | | 0.1039 | | | | | | | | |
| 21 | | | 0.1076 | | | | | | | | |
| 22 | | | 0.1046 | | | | | | | | |
| 23 | | | 0.1092 | | | | | | | | |
| 24 | 170.0 | 144.0 | 0.1071 | 9.60 | 8.6 | 11.7 | 10.5 | | | 94 | 94 |
| 25 | | | 0.1082 | | | | | | | | |
| 26 | | | 0.1067 | | | | | | | | |
| 27 | | | 0.1193 | | | | | | | | |
| 28 | | | 0.1193 | | | | | | | | |
| 29 | | | 0.1483 | | | | | | | | |
| 30 | | | 0.1233 | | | | | | | | |
| **30-DAY MEAN** | **359.5** | **335.5** | **0.1198** | **8.35** | **7.8** | **16.6** | **15.8** | **0.010** | **0.000008** | **96** | **97** |
| **MAX 7-DAY MEAN** | | | | **11.40** | | **20.0** | | 0.010 | 0.000008 | | |
| **MAXIMUM** | | | **0.1536** | **11.40** | | **20.0** | | 0.010 | 0.000008 | **99** | **99** |
| **MINIMUM** | | | | | | | | | | **94** | **94** |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **November**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | 126 | | 33 | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | 400.0 | 100.0 | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | 13 | 13 | | 7.4 | 1094.0 | 7.0 | 55 |
| 6 | | | | | | | |
| 7 | | | 3.1 | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | 2 | 2 | 5.2 | 7.3 | | 6.9 | 56 |
| 13 | | | | | | | |
| 14 | 2 | 2 | 63.4 | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | 2 | 2 | 27.8 | 7.4 | | 6.4 | 54 |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | 2 | 2 | 3.1 | 7.2 | | 6.7 | 54 |
| 25 | | | | | | | |
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| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 30-DAY MEAN | **3** | **3** | **9.7** | **7.3** | **1094.0** | **6.8** | **55** |
| MAX 7-DAY MEAN | | | | | | | |
| MAXIMUM | **13** | **13** | **63.4** | **7.4** | **1094.0** | **7.0** | **56** |
| MINIMUM | | | | **7.2** | | **6.4** | **54** |



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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Frist**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | otal Nitrogen as N | rthophosphate as P | Total Phosphate as P | Priority pollutans |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA | ANNUALY |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | See attached results |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
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| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.25 | 1.80 | |
| 12 | | | | | | | | |
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| 31 | | | | | | | | |
| QUARTERLY MEAN | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.30 | 1.80 | |
| MAXIMUM | 0.05 | 5.04 | 433.00 | 4.80 | 11.25 | 1.30 | 1.80 | |
| MINIMUM | | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **First**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | |
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| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| 12 | | | | | | | | |
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| 31 | | | | | | | | |
| 30-DAY MEAN | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MAX 7-DAY MEAN | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MAXIMUM | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |
| MINIMUM | 7.19 | 6.87 | 6.62 | 7.69 | 34 | 34 | 1230 | 1012 |

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I declare under the penalty of the law that I personaly examined and am familiar with the information submitted in this document, and that based on my
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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **First**
MONTH: **March**
YEAR: **2008**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **March**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN | Attach Bioassay Results | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
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| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-049(REVIS** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** **MONTH: DECEMBER**
REPORTING FREQUENCY: **ANNUALY** **YEAR: 2007**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | |
|---|---|---|---|
| CONSTITUENTS | Oil & Grease | Volatile Organics (EPA Methods 624 & 625) | Priority Pollutans |
| FREQUENCY: | Annual (A) | Annual (A) | Annual (A) |
| DESCRIPTION: | 24 Hr Com posite | Grab | 24 Hr composite |
| UNITS: | m/gL | u/gL | u/gl |
| REQUIREMENTS: | | | |
| 30-DAY MEAN | | | |
| 7-DAY MEAN | | | |
| MAXIMUM | | | |
| DATE OF SAMPLE: | | | |
| 1 | | | |
| 2 | | See attached results | See attached results |
| 3 | | | |
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| 18 | | | |
| 19 | 1.0 | | |
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| 30 | | | |
| 31 | | | |
| **ANNUAL MEAN** | 1.0 | | |
| **MAXIMUM** | 1.0 | | |

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2007**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | Attach Results |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

### SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :** _____

**METHOD OF DISPOSAL :** _____

**LOCATION OF DISPOSAL :** _____

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

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**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2007**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| Feb- 13-2007 | Change belts and greace air compresor |
| *March -25-2007* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2007* | Replace new aerators fc floads |
| *April - 29-2007* | Adjust aerators support cables all five . |
| *April - 30-2007* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2007* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2007* | Instal a new chart recorder . |
| *May - 27-2007* | Spread base rock around waste water plant. |
| June - 27-2007 | Repair easte side of the facility. |
| june - 29-2007 | Paint around the facility . |
| Aug - 09-2007 | Draining of east & west t ponds. |
| Aug - 14-2007 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2007 | Paint and organized frond parking lot. |
| Sept - 18-2007 | Clean up monthly uv bank and chanel. |
| Oct - 11-2007 | Removal of areators. |
| Nov - 29-2007 | Set up 2" pvc line for the reculation station. |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: 7A130111013
ORDER NO.: 97-2002-0126 (REVISION 1)
REPORT CA0105023
REPORTING FREQUENCY: MONTHLY

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: December
YEAR: 2008

| TYPE OF SAMPLE | INFLUENT | | EFFLUENT DISCHARGED TO THE WILDCAT DRAIN | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | BOD | TSS | Flow | BOD | | TSS | | Alpha BHC | | BOD Percent Removal | TSS Percent Removal |
| FREQUENCY: | Weekly (W) | | Daily (D) | Weekly (W) | | Weekly (W) | | Monthly (M) | | Weekly (W) | |
| DESCRIPTION: | 24-Hr Composite (24- HC) | | Flow Meter Reading | 8-HC | Calculated (Cal) | 8-HC | Cal. | | | Cal. | Cal. |
| UNITS: | mg/L | mg/L | MGD | mg/L | lbs/day | mg/L | lbs/day | µg/L | lbs/day | % | % |
| REQUIREMENTS: | | | | | | | | | | | |
| 30-DAY MEAN | | | | 45 | | 95 | | | | 85 | 85 |
| 7-DAY MEAN | | | 0.2 | 65 | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | | | | |
| 1 | | | 0.1154 | | | | | | | | |
| 2 | | | 0.1122 | | | | | | | | |
| 3 | 204.0 | 101.0 | 0.1146 | 7.0 | 6.7 | 16.1 | 15.4 | | | 97 | 93 |
| 4 | | | 0.1147 | | | | | | | | |
| 5 | | | 0.1110 | | | | | | | | |
| 6 | | | 0.1069 | | | | | | | | |
| 7 | | | 0.1056 | | | | | | | | |
| 8 | | | 0.1024 | | | | | | | | |
| 9 | | | 0.1011 | | | | | | | | |
| 10 | 204.0 | 249.0 | 0.0965 | 8.4 | 6.8 | 20.2 | 16.3 | | | 96 | 97 |
| 11 | | | 0.0963 | | | | | | | | |
| 12 | | | 0.1258 | | | | | | | | |
| 13 | | | 0.1369 | | | | | | | | |
| 14 | | | 0.1147 | | | | | | | | |
| 15 | 250.0 | 127.0 | 0.1035 | 9.2 | 7.9 | 26.3 | 22.7 | 0.010 | 0.000008 | 96 | 94 |
| 16 | | | 0.1133 | | | | | | | | |
| 17 | | | 0.1183 | | | | | | | | |
| 18 | | | 0.1141 | | | | | | | | |
| 19 | | | 0.1121 | | | | | | | | |
| 20 | | | 0.1048 | | | | | | | | |
| 21 | | | 0.1036 | | | | | | | | |
| 22 | 320.0 | 139.0 | 0.1048 | 8.0 | 7.0 | 18.2 | 15.9 | | | 98 | 95 |
| 23 | | | 0.1024 | | | | | | | | |
| 24 | | | 0.1145 | | | | | | | | |
| 25 | | | 0.1025 | | | | | | | | |
| 26 | | | 0.0965 | | | | | | | | |
| 27 | | | 0.0934 | | | | | | | | |
| 28 | | | 0.0855 | | | | | | | | |
| 29 | | | 0.0968 | | | | | | | | |
| 30 | 280.0 | 514.0 | 0.0941 | 6.2 | 4.9 | 20.6 | 16.2 | | | 98 | 99 |
| 31 | | | 0.1077 | | | | | | | | |
| **30-DAY MEAN** | **251.6** | **226.0** | **0.1072** | **7.8** | **6.7** | **20.3** | **17.3** | **0.010** | **0.000008** | **97** | **96** |
| **MAX 7-DAY MEAN** | | | | **9.2** | **7.9** | **26.3** | **22.7** | **0.010** | **0.000008** | | |
| **MAXIMUM** | | | **0.1564** | **9.2** | **7.9** | **26.3** | **22.7** | **0.010** | **0.000008** | **98** | **93** |
| **MINIMUM** | | | | | | | | | | **96** | **99** |

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SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013** **MONITORING AND REPORTING PROGRAM**
ORDER NO.: **97-2002-0126 (REV. 1)** **SEELEY COUNTY WATER DISTRICT**
NPDES NO.: **CA0105023** MONTH: **December**
MONITORING FREQUENCY: **MONTHLY** YEAR: **2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Escherichea coli (E. Coli) | Fecal Coliform | Enterococci | pH | Total Dissolved Solids TDS | Dissolved Oxygen (DO) | Temperature |
| FREQUENCY: | Five per Month | | | Weekly (W) | (W) | (W) | (W) |
| TYPE OF SAMPLE: | G | | | G | 24-Hr Composite | G | G |
| UNITS: | MPN/100 mL | MPN/100ml | MPN/100ml | | mg/L | mg/L | F |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | 400.0 | 400.0 | 100.0 | 9.00 | | | |
| MINIMUM | | | | 6.00 | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | 80 | 80 | 99 | 7.6 | 1010.0 | 6.3 | 69 |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | 2 | 2 | 23 | 7.4 | | 6.5 | 68 |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | 300 | 7.4 | | 6.3 | 68 |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | 0.4 | | | | |
| 19 | 8 | 8 | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | 4 | 4 | 0.4 | 7.5 | | 6.7 | 70 |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | 2 | 2 | | 7.5 | | 6.6 | 68 |
| 31 | | | | | | | |
| 30-DAY MEAN | **6** | **6** | **10** | **7.5** | **1010.0** | **6.5** | **69** |
| MAX 7-DAY MEAN | | | | | **1010.0** | | |
| MAXIMUM | **80** | **80** | **300** | **7.6** | **1010.0** | **6.7** | **70** |
| MINIMUM | | | | **7.4** | **1010.0** | **6.3** | **68** |

SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Fouth**
MONTH: **November**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | |
|---|---|---|---|---|---|---|---|
| CONSTITUENTS | Nitrites as N | Ammonia Nitrogen as N | Hardness | Nitrate as N | Total Nitrogen as N | Orthophosphate as P | Total Phosphate as P |
| LOCATION: | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 | R-1 |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | Quarterly (Q) | SA |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G |
| UNITS: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | |
| 30-DAY MEAN | | | | | | | |
| 7-DAY MEAN | | | | | | | |
| MAXIMUM | | | | | | | |
| MINIMUM | | | | | | | |
| DATE OF SAMPLE: | | | | | | | |
| 1 | | | | | | | |
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| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | 0.05 | 6.20 | 8.50 | 8.50 | 14.8 | 2.8 | 2.9 |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
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| 31 | | | | | | | |
| QUARTERLY MEAN | 0.05 | 6.20 | 8.50 | 8.50 | 14.80 | 2.82 | 2.91 |
| MAXIMUM | 0.05 | 6.20 | 8.50 | 8.50 | 14.80 | 2.82 | 2.91 |
| MINIMUM | | | | | | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
MONITORING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Fourth**
MONTH: **December**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING (R-1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CONSTITUENTS | p H | | Dissolved Oxygen (D O) | | Temperature | | Total Dissolved Solids (TDS) | |
| FREQUENCY: | Quarterly (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) | (Q) |
| LOCATION: | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| TYPE OF SAMPLE: | G | G | G | G | G | G | G | G |
| UNITS: | | | mg/L | mg/L | F | F | mg/L | mg/L |
| REQUIREMENTS: | | | | | | | | |
| 30-DAY MEAN | | | | | | | | |
| 7-DAY MEAN | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| DATE OF SAMPLE: | | | | | | | | |
| 1 | | | | | | | | |
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| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | 7.30 | 6.98 | 5.67 | 5.77 | | | 880 | 648 |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
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| 31 | | | | | | | | |
| 30-DAY MEAN | 7.30 | 6.98 | 5.67 | 5.77 | #DIV/0! | #DIV/0! | 880.00 | 648.00 |
| MAX 7-DAY MEAN | 7.30 | 6.98 | 5.67 | 5.77 | #DIV/0! | #DIV/0! | 880.00 | 648.00 |
| MAXIMUM | 7.30 | 6.98 | 5.67 | 5.77 | #DIV/0! | #DIV/0! | 880.00 | 648.00 |
| MINIMUM | 7.30 | 6.98 | 5.67 | 5.77 | #DIV/0! | #DIV/0! | 880.00 | 648.00 |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **Quarterly**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
QUARTER: **Fourth**
MONTH: **December**
YEAR: **2008**

RECEIVING WATER MONITORING (CONT.)

1 Is there receiving water at Station R-1 Yes No
If the answer is no proceed to Station R-2 Section, otherwise continue with the fallowing questions.
PLEASE CIRCLE THE APPROPRIATE ANSWER

Station R-1 Section (The fallowing questions refer to Station R-1)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Station R-2 Section (The following questions refer to Station R-2)

| | | | |
|---|---|---|---|
| 1 | Is there the presence of floating or suspended matter present? | Yes | No |
| 2 | Is there discoloration present? | Yes | No |
| 3 | Is there aquatic life present? | Yes | No |
| 4 | Is there visible film, sheen or coating present? | Yes | No |
| 5 | Is there fungi, slime or objectionable growths present? | Yes | No |
| 6 | Is there potential nuisance conditions present? | Yes | No |

Any additional comments.

**New River was murky, dark brown with high silt and foam concentrations. No aquatic life was visible, and nuisance odors were detected. Pictures of the New River have been included.**

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **QUARTERLY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **December**
YEAR: **2008**

| TYPE OF SAMPLE | RECEIVING WATER MONITORING | |
|---|---|---|
| CONSTITUENTS | Acute Bioassay | Chronic Bioassay |
| FREQUENCY: | Quarterly (Q) | Quarterly (Q) |
| DESCRIPTION: | 24 Hr. Composite | 24 Hr. Composite |
| UNITS: | % | TU |
| REQUIREMENTS: | % survival in 100% effluent in 96 hours | Chronic Toxicity Unit |
| 30-DAY MEAN | Attach Bioassay Results | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | **See attached results** | **See attached results** |
| 3 | | |
| 4 | | |
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| 29 | | |
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| 31 | | |
| 30-DAY MEAN | | |
| MAX 7-DAY MEAN | | |
| MAXIMUM | | |
| MINIMUM | | |

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CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-049(REVISION 1)**
NPDES NO.: **CA0105023**
REPORTING FREQUENCY: **ANNUALY**

**MONITORING AND REPORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
**MONTH: DECEMBER**
**YEAR: 2008**

| TYPE OF SAMPLE | EFFLUENT DISCHARGED TO THE NEW RIVER | |
|---|---|---|
| CONSTITUENTS | Oil & Grease | |
| FREQUENCY: | Annual (A) | |
| DESCRIPTION: | 24 Hr Com posite | |
| UNITS: | m/gL | |
| REQUIREMENTS: | | |
| 30-DAY MEAN | | |
| 7-DAY MEAN | | |
| MAXIMUM | | |
| DATE OF SAMPLE: | | |
| 1 | | |
| 2 | | See attached results |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
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| 18 | **1.4** | |
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| 30 | | |
| 31 | | |
| **ANNUAL MEAN** | **1.4** | |
| **MAXIMUM** | | |

I declare under the penalty of the law that I personaly examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responisible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE: _____

CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

WDID NO.: **7A130111013**
ORDER NO.: **97-2002-0126 (REVISION 1)**
NPDES NO.: **CA105023**
REPORTING FREQUENCY: **ANNUAL**

**MONITORING AND REORTING PROGRAM**
**SEELEY COUNTY WATER DISTRICT**
MONTH: **DECEMBER**
YEAR: **2008**

## ANNUAL SLUDGE MONITORING

Sludge shall be sampled and analyzed for the following costituents, all samples be grab:

| CONSTITUENTS | UNITS | RESULTS |
|---|---|---|
| Arsenic | mg/kg | |
| Cadmium | mg/kg | |
| Copper | mg/kg | |
| Lead | mg/kg | |
| Mercury | mg/kg | |
| Molybdenum | mg/kg | |
| Nickel | mg/kg | |
| Selenium | mg/kg | |
| Zinc | mg/kg | |
| Fecal Coliform | MPN/gram | |
| Organochlorine Pesticides | u g/L | |

The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide an annual summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agriculturally, composting, etc.), and the destination.

## SLUDGE QUALITY, METHOD AND LOCATION OF DISPOSAL

**QUALITY (TONS) :**

**METHOD OF DISPOSAL :** WE DO NOT PROCESS SLUDGE ...

**LOCATION OF DISPOSAL :**

**LIST ANY ATTACHMENTS FOR ADDITIONAL INFORMATION ON SLUDGE OR SIMILAR SOLIDS**

**No sludge was disposed of this year.**

I declare under the penalty of the law that I personaly examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responisible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the posibility of fine and imprisonment for knowing violations.

SIGNATURE:

**CALIFORNIA REGIONALWATER QUALITY CONTROL BOARD**
**COLORADO RIVER BASIN REGION**

WDID NO.: 7A130111013
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NPDES NO.: CA105023
REPORTING FREQUENCY: ANNUAL

MONITORING AND REPORTING PROGRAM
SEELEY COUNTY WATER DISTRICT
MONTH: **DECEMBER**
YEAR: **2008**

## OPERATIONS AND MAINTENANCE

The discharger shall inspect and document ant operations/maintenance problems by inspecting each unit process. The results of the operations and maintenance inspections shall be foward to this Regional Board annualy.

## PRETREATMENT REPORT

In the event that the discharger is required to implement a pretreatment program then the discharger shall submit reports as required in accordance with Section F. Pretreatment and Appendix - Requirements for Pretreatment Annual Report of the Waste Discharge Requirements.

**Operations and Maintenance Summary-**

| | |
|---|---|
| *March -25-2008* | Set up tow 1/4 inch . Cables on aerator # 2 . |
| *March -29-2008* | Replace new aerators fc floads |
| *April - 29-2008* | Adjust aerators support cables all five . |
| *April - 30-2008* | Instal new 4 inch. Pvc backwash discharge line . |
| *April - 30-2008* | Set up 8 inch. Pvc pipe in drain effluent well. |
| *May - 25-2008* | Instal a new chart recorder . |
| *May - 27-2008* | Spread base rock around waste water plant. |
| June - 27-2008 | Repair easte side of the facility. |
| june - 29-2008 | Paint around the facility . |
| Aug - 09-2008 | Draining of east & west t ponds. |
| Aug - 14-2008 | Replace new filters packings on # 1,# 2. |
| Sept - 13-2008 | Paint and organized frond parking lot. |
| Sept - 18-2008 | Clean up monthly uv bank and chanel. |
| Oct - 11-2008 | Removal of areators. |
| Nov - 29-200 | Set up 2" pvc line for the reculation station. |

I declare under the penalty of the law that I personaly examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responisible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the posibility of fine and imprisonment for knowing violations.

SIGNATURE: _____

# Appendix C
# Biological Resources Report

URS

June 11, 2009

Mr. Kevin Harper
Stirling Energy Systems, Inc.
4800 N. Scottsdale Road, Suite 550
Scottsdale, AZ 85251

Subject: Biological Assessment
SES Solar Two, LLC Proposed Waterline
URS Project No. 27657104.00801

Dear Mr. Harper:

Tessera Solar has proposed a new alignment for an approximately 12-mile waterline to extend from the SES Solar Two, LLC (SES) site along Evan Hewes Highway to the Seeley water treatment plan located at New River Boulevard in El Centro, California (Figures 1-1, 1-2). On April 30 and May 1, 2009, URS Corporation (URS) biologists Cheryl Rustin and Dallas Pugh conducted a site visit to map current vegetation communities and to determine the presence of potential jurisdictional waters along the proposed waterline route between the IID Westside Main Canal and New River Boulevard. Areas within a 150-foot buffer on each side of the proposed waterline route (300 feet total) were surveyed to account for potential changes in the pipeline alignment. As background, the new alignment follows the previous alignment of approximately 7.2 miles (as shown in AFC Figure 1-2) and extends from the eastern endpoint at the IID Westside Main Canal for an additional 4.6 miles east (see Figure 1-2). For the purposes of this document, the proposed waterline route beyond the route that was surveyed for the Application for Certification (AFC) and the associated 300-foot wide assessment buffer are herein referred to as the "study area." No focused special-status[1] species surveys were conducted within the study area during the site visits. Vegetation communities within the study area are illustrated in Figures 2A-2E and described in the results section below.

## METHODS

URS biologists conducted biological surveys in the spring of 2009. The surveys were conducted to document the current existing biological conditions of the study area east of the previous survey effort done for the AFC (URS 2008) and included vegetation mapping, jurisdictional waters determination, and an inventory of existing flora and fauna. The western end of this survey area starts at the Main Canal and ends at the Seeley water treatment plant. The study area was surveyed on foot, and most areas were visible from the survey route. Portions of the alignment corridor were not directly accessible due to landowner access restrictions, but vegetation was assessed from the highway ROW. All habitats represented were visited, and observed plants and animals were identified and recorded. Animals were identified by scat, tracks, burrows, vocalizations, or direct

[1] "Special-status" refers to those species which have been afforded status designations by United States Fish and Wildlife Service (USFWS), California Department of Fish and Game (CDFG), California Native Plant Society (CNPS) and/or Bureau of Land Management (BLM) such as endangered, threatened, or species of special concern.

URS Corporation
1615 Murray Canyon Road, Suite 1000
San Diego, CA 92108
Tel: 619.294.9400
Fax: 619.293.7920

observation, and with binoculars when necessary[2]. Vegetation community data were collected to record and map vegetation community characteristics (*e.g.,* vegetation community distribution, dominant species, and relative population abundance) and a list of observed plant species was developed. A complete list of special-status species that have potential to occur within the study area is included in Appendix C (CDFG 2009, CNPS 2009). Plants were identified to a taxonomic level sufficient to determine if the species observed were classified as invasive, non-native, or special-status[3]. Plant nomenclature follows *The Jepson Manual, Higher Plants of California* (Hickman 1993) while the vegetation classification of plant communities in the study area was taken mainly from Holland (1986). Wildlife nomenclature, common names, and habitat information follow Jameson and Peeters (2004), Knopf (1980), Lemm (2006), and Sibley (2003). Lists of plant and wildlife species observed during the surveys are presented in Appendix A. Biological resources were mapped in the field on a 1 inch = 500 feet scaled 2005 aerial photograph (NAIP 2005). Representative photographs of the study area can be found in Appendix B. Photograph locations are indicated on Figures 2A to 2E.

## RESULTS

### VEGETATION

A total of eight (8) vegetation communities were identified within the study area. Estimated acreages of these vegetation communities are included in Table 1 and each is described below. A list of plant species detected within the study area is provided in Appendix A. No special-status plant species were detected within the study area during this field effort.

#### *ARROWWEED SCRUB (HOLLAND CODE 63820)*

Arrowweed scrub is a moderate to dense streamside thicket dominated by arrowweed (*Pluchea sericea*). It is a disturbance-maintained community that typically occurs along streambanks, ditches and washes with gravelly or sandy channels. Arrowweed scrub occurs in small stands throughout the study area, mainly associated with the agricultural canals. This vegetation type was characterized based on the complete dominance of arrowweed. Few other shrub species were observed within this habitat with the exception of the occasional *Tamarix* trees.

#### *DESERT SALTBUSH SCRUB (HOLLAND CODE 36110)*

Desert saltbush scrub is a low, sparse mixture of micophyllous shrubs and occasional succulent species. Stands of shrubs are usually widely spaced and are dominated by *Atriplex polycarpa*. Other species include mesquite (*Prosopis glandulosa*.) and (*Suaeda moquini*). This habitat usually forms on fine-textured, poorly draining soils with high alkalinity and salinity, usually surrounding playas on elevated ground (Holland 1986). Shrub density ranged from moderate to low density (shrub spacing from several feet to tens of feet). Disturbed desert saltbush scrub also occurs within the study area. This habitat type contains many of the same species of plants, with the addition of several non-native plants, bare ground, and trash.

[2] Wildlife surveys were not intended to substitute for focused presence/absence surveys, which were not conducted.

[3] The surveys did not coincide with all known flowering periods of local special-status plant species (CNPS 2008) and additional local areas were not evaluated for variation in flowering phenology of known special-status plant populations prior to initiating surveys.

### *TAMARISK SCRUB (HOLLAND CODE 63810)*

Tamarisk scrub is a weedy, moderate to dense scrub habitat dominated by one or more tamarisk species (*Tamarix* spp.). This habitat typically occurs in sandy or gravelly braided washes or intermittent streams where high evaporation has increased the stream's salt content and often succeeds some type of disturbance (Holland 1986). Tamarisk is highly invasive and frequently out-competes native scrub species such as willows and mule fat. Other species typically associated with tamarisk scrub include salt grass (*Distichlis spicata*), arrowweed, and quailbush (*Atriplex lentiformis*). Tamarisk scrub occurs near several of the canals, ditches, and drainages and along the New River within the study area.

### *OPEN WATER CHANNEL (HOLLAND CODE 13200)*

Drainage channels dominated by open water are generally considered "waters of the U.S./State" by the U.S. Army Corps of Engineers (ACOE) and California Department of Fish and Game (CDFG), which have jurisdiction under federal and state wetlands permitting laws. All of the channels found within the study area are associated with either irrigation canals, or the New River, and were characterized as such based on the presence of constant flowing water. Vegetation was scarce along the banks of the irrigation canals and included cattail (*Typha* sp.), annual beard grass (*Polypogon monspeliensis*), nutsedge (*Cyperus squarrosus*), and giant reed (*Arundo donax*). Tamarisk scrub lined most of the New River within the study area.

### *AGRICULTURAL LANDS (HOLLAND CODE 18320)*

Agricultural lands include actively cultivated lands and row crops. The level of soil disturbance is such that only the species under cultivation and the most ruderal plant species would be expected to occur in this vegetative community. Portions of the study area are, or have been, actively cultivated in the recent past, and include recently fallowed agricultural fields and actively disked and plowed fields of row crops.

### *ORNAMENTAL (HOLLAND CODE 11000)*

Ornamental vegetation consists of landscape plantings typically associated with development such as buildings and roads. Canary Island date palm (*Phoenix canariensis*), oleander (*Nerium oleander*), eucalyptus trees (*Eucalyptus* spp.), and small-leaved Palo Verde (*Cercidium microphyllum*) are common ornamental species found associated with this vegetation type.

### *DISTURBED VEGETATION (HOLLAND CODE 11300)*

A disturbed vegetation community typically develops on sites with heavily compacted soils following intense disturbance such as grading. This habitat type is typically dominated by non-native, broad-leaf herbaceous species including common sow thistle (*Sonchus oleraceus*), mustards (*Brassica* spp.), and horehound (*Marrubium vulgare*) and occasionally with a subdominant percent cover of non-native, annual grasses. Within the study area, this vegetation type occurs in several undeveloped lots, sparsely vegetated dirt roads associated with development or agricultural fields, and along both sides of Evan Hewes Highway in the form of a maintained shoulder.

### *DEVELOPED (HOLLAND CODE 12000)*

Developed areas include roads, built structures, and associated infrastructure. Areas generally considered developed include buildings, dirt and paved roads, transmission lines, and any other permanent structures. Examples of this habitat type are found throughout the study area.

**Table 1**
**Vegetation Acreage within Study Area**

| Vegetation Community | Existing Acres |
|---|---|
| Arrowweed Scrub | 5.5 |
| Desert Saltbush Scrub | 1.3 |
| Disturbed Desert Saltbush Scrub | 15.8 |
| Tamarisk Scrub | 6.2 |
| Open Water Channel | 1.6 |
| Agricultural Lands | 12.8 |
| Ornamental | 0.1 |
| Disturbed Vegetation | 49.6 |
| Developed | 72.3 |
| **Total Acreage** | **165.2** |

## WILDLIFE

Spanning over approximately 12 miles, the proposed alignment crosses a variety of habitats that collectively support a wide variety of wildlife species. Common species detected within the study area include common sideblotch lizard (*Uta stansburiana*), whiptail lizard (*Cnemidophorus* sp.), killdeer (*Charadrius vociferus*), common raven (*Corvus corax*), mourning dove (*Zenaida macroura*), song sparrow (*Melospiza melodia*), cliff swallow (*Petrochelidon pyrrhonota*), house finch (*Carpodacus mexicanus*), desert cottontail (*Sylvilagus audubonii*), and California ground squirrel (*Spermophilus beecheyi*). A complete list of detected wildlife species can be found in Appendix A. No special-status wildlife species were detected within the study area during this field effort.

## JURISDICTIONAL WATERS DETERMINATION

Non-wetland waters of the U.S. that would be under the jurisdiction of the ACOE are delineated based on the presence of an ordinary high water mark (OHWM) as defined at 33 CFR 328.3(e). The OHWM is defined therein as:

> *The term "ordinary high water mark" means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.*

California Fish & Game Code Section 1601(a) describes areas subject to State jurisdiction within the following text:

> *Except as provided in this section, general plans sufficient to indicate the nature of a project for construction by, or on behalf of, any state or local governmental agency or any public utility shall be submitted to the department if the project will (1) divert, obstruct, or change the natural flow or the bed, channel, or bank of any river, stream, or lake designated by the department in which there is at any time an existing fish or wildlife resource or from which these resources derive benefit, (2) use material from the streambeds designated by the department, or (3) result in the disposal or deposition of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can pass into any river, stream, or lake designated by the department. ...*

Section 1601(a) is based on Title 14 CCR 720, which designates waters of the State to be:

> *For the purpose of implementing Sections 1601 and 1603 of the Fish and Game Code which requires submission to the department of general plans sufficient to indicate the nature of a project for construction by or on behalf of any person, governmental agency, state or local, and any public utility, of any project which will divert, obstruct or change the natural flow or bed of any river, stream or lake designated by the department, or will use material from the streambeds designated by the department, all rivers, streams, lakes, and streambeds in the State of California, including all rivers, streams and streambeds which may have intermittent flows of water, are hereby designated for such purpose.*

URS understands that these State regulations define the jurisdiction of CDFG, for the purpose of administering Section 1600 of the Fish and Game Code, as within the bed, bank, and channel of a stream, including intermittent streams, which are equivalent to the areas within the OHWM of a stream. URS also understands that the CDFG routinely asserts jurisdiction on areas demonstrating a minimum of one of three parameters: 1) a dominance of hydrophytic vegetation, 2) hydric soils, or 3) wetland hydrology.

### METHODOLOGY

Major drainages, ditches and canals within the study area were evaluated to determine whether or not they would be considered under State or Federal jurisdiction. Any drainages, ditches or canals that displayed an OHWM were mapped and their widths were measured. Representative photographs of these drainage features can be found in Appendix B.

### JURISDICTIONAL WATERS DETERMINATION RESULTS

Eight (8) well-defined drainage features cross the study area (Figure 1-2), including seven (7) irrigation canals and the New River, which all occur in a south-north direction. Culvert crossings of the highway are shown on Figures 2A to 2E. The seven canals were created for agricultural irrigation and are directed by culverts under Evan Hewes Highway. Several of the canals did not appear to be concrete-lined and seepage from these canals has created large stands of tamarisk scrub and arrowweed scrub in adjacent areas (see Figures 2A-2E). These areas of tamarisk scrub and arrowweed scrub may be subject to CDFG jurisdiction under Section 1600. The canals themselves all displayed an OHWM and all contained large amounts of flowing water. All of the canals are also connected to the Salton Sea, which is an ACOE defined navigable water. Therefore, the seven irrigation canals that cross the proposed waterline would be considered under federal jurisdiction. The canals are considered man-made drainages in uplands and are not apart of a natural drainage or river; therefore, they can not be considered Waters of the State under Section 1600 of the California Fish and Game Code. The large stands of tamarisk scrub and arrowweed scrub associated with seepage from these canals would also not be subject to CDFG jurisdiction due to the lack of jurisdiction of the man-made drainage channels that these riparian habitats are associated with. The previous survey effort conducted for the AFC document did not document any jurisdictional waters features along that segment of the proposed waterline (URS 2008, 2009)

The proposed pipeline alignment crosses the New River at the eastern end of the study area (Figure 2E). This feature connects to the Salton Sea, which is an ACOE defined navigable water. Therefore, the New River would be considered under federal jurisdiction. The New River also displays well defined bed and banks and is considered Waters of the State under Section 1600 of the California Fish and Game Code. The banks of the New River support adjacent tamarisk scrub that CDFG may also assert jurisdiction over (see Figure 2E).

## IMPACT ASSESSMENT

The proposed approximately 12-mile waterline alignment should be sited within or directly adjacent the highway ROW in order to avoid/minimize impacts native vegetation communities and jurisdictional waters, where practicable. Assuming a 30-foot construction ROW directly adjacent to the state Highway, the waterline has the potential to temporally impact jurisdictional Waters of the US/State and limited amounts of native vegetation (likely less than 4 acres of temporary impact to native vegetation). Development of the proposed waterline may incur certain permitting requirements if the New River and the irrigation canals that flow into the Salton Sea are impacted. Should construction activities extend into these resource areas, implementation of the proposed project may be subject to the following permitting requirements:

- CWA Sections 401 and 404 permitting for impacts to federal jurisdictional waters/wetlands

- CDFG Section 1600 Stream Bed Alteration Agreement for state jurisdictional waters/wetlands
- RWQCB Porter-Cologne Act water quality certification for impacts to Waters of the State.

No special-status wildlife or plant species were detected during this survey effort, therefore no impacts to special-status species are anticipated as a result of construction activities within the study area. Most of the study area occurs in an area that has been previously disturbed or developed and is unlikely to support sensitive species (e.g., flat-tailed horned lizard) in potentially suitable habitats directly adjacent to the state highway. Burrowing owl, a state species of concern, has moderate potential to occur in the adjacent agricultural fields and along the banks of the canals. No owls or potential burrows were detected during this field effort.

Vegetation clearing for the waterline should occur during the bird non-breeding season (August to January) in order to comply with seasonal restrictions required by the Migratory Bird Treaty Act and Fish & Game Code. Pre-construction surveys within suitable habitats for flat-tailed horned lizard and burrowing owl are recommended.

Thank you for the opportunity to be of assistance. Please contact Dr. Mock or Cheryl Rustin at (619) 294-9400 if you have any questions or require further assistance.

Sincerely,

**URS CORPORATION**

Patrick J. Mock, PhD
Senior Project Manager
Principal Scientist

Cheryl Rustin
Biologist

CR:kl

Attachments: Figures
Appendix A – List of Flora and Fauna Observed Onsite
Appendix B – Site Photographs
Appendix C – CNDDB Query: Sensitive Species with the Potential to Occur in the Vicinity

## REFERENCES:

(CDFG) California Department of Fish and Game, 2009. *California Natural Diversity Database*. Plaster City and Seely, California 7.5-Minute Topographic Quadrangles. April 2009.

(CNPS) California Native Plant Society, 2009. *Inventory of Rare and Endangered Plants of California*. Plaster City and Seely, California 7.5-Minute Topographic Quadrangles. April 2009.

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Holland, R.F. 1986. Preliminary Descriptions of the Terrestrial Natural Communities of California, California Resources Agency.

Jameson, E.W. and H.J. Peeters, 2004. *Mammals of California*. University of California Press, Berkeley and Los Angeles, California.

Knopf, A.A. 1980. *National Audubon Society Field Guide to Insects & Spiders*. Chanticleer Press, Inc.

Lemm, J.M. 2006. *Field Guide to Amphibians and Reptiles of the San Diego Region*. University of California Press, Berkeley, California.

Sibley, D.A. 2003. *National Audubon Society - The Sibley Guide to Birds*. Alfred A. Knopf, New York. 544 p.

URS Corporation. 2008. SES Solar Two Application for Certification. June.

URS Corporation. 2009. Review of federal and state surface waters for the Sterling Energy Systems Solar Two Project. February.


Proposed Waterline (approximately 12 miles)

Survey Starts at Main Canal

Union Pacific Railroad (UPRR)

Proposed Main Access Road

Main Services Complex (24.27 acres)

Proposed Main Access Road

Plaster City

Seeley

El Centro

Imperial

Waterline Extension Survey Area (Fig 1-2)

N.A.P.

N.A.P.

Laydown Area (11.04 acres)

IID Westside Main Canal

Coyote Wells

Ocotillo

Proposed 750-MW
Substation (6.00 acres)

100-Acre Laydown Yard

25-Acre Staging Area

Existing SDG&E Southwest Powerlink Transmission Line

Heber

Existing SDG&E Imperial Valley Substation

Proposed 750-MW/230-kV
Transmission Line (10.30 miles)

Calexico

Mexico

## LEGEND

- Project Boundary (6,176.65 acres)
- Proposed Main Access Road
- N.A.P. Not A Part (Owned by Others)
- Proposed Substation and Main Services Complex
- Existing Transmission Line
- Proposed 750-MW/230-kV Transmission Line (10.30 miles)
- Proposed Waterline (approximately 12 miles)
- Anza-Borrego Desert State Park

**Bureau of Land Management**

- Off-Highway Vehicle (OHV) Area - closed
- Off-Highway Vehicle (OHV) Area - open

SOURCES: SDG&E (existing t-line 2006); Stantec (proposed project features 2008), SES (Waterline 2009); CERES - California Environmental Resources Evaluation System (Anza-Borrego 1999 ); USGS TOPO! (100K topo, various dates).

# REGIONAL SETTING
# SOLAR TWO PROJECT

URS

1.25 0 1.25 2.5 Miles

SCALE: 1" = 2.5 Miles (1:158,400)
SCALE CORRECT WHEN PRINTED AT 11X17

| CREATED BY: CL | DATE: 06-10-09 | FIG. NO: 1-1 |
|---|---|---|
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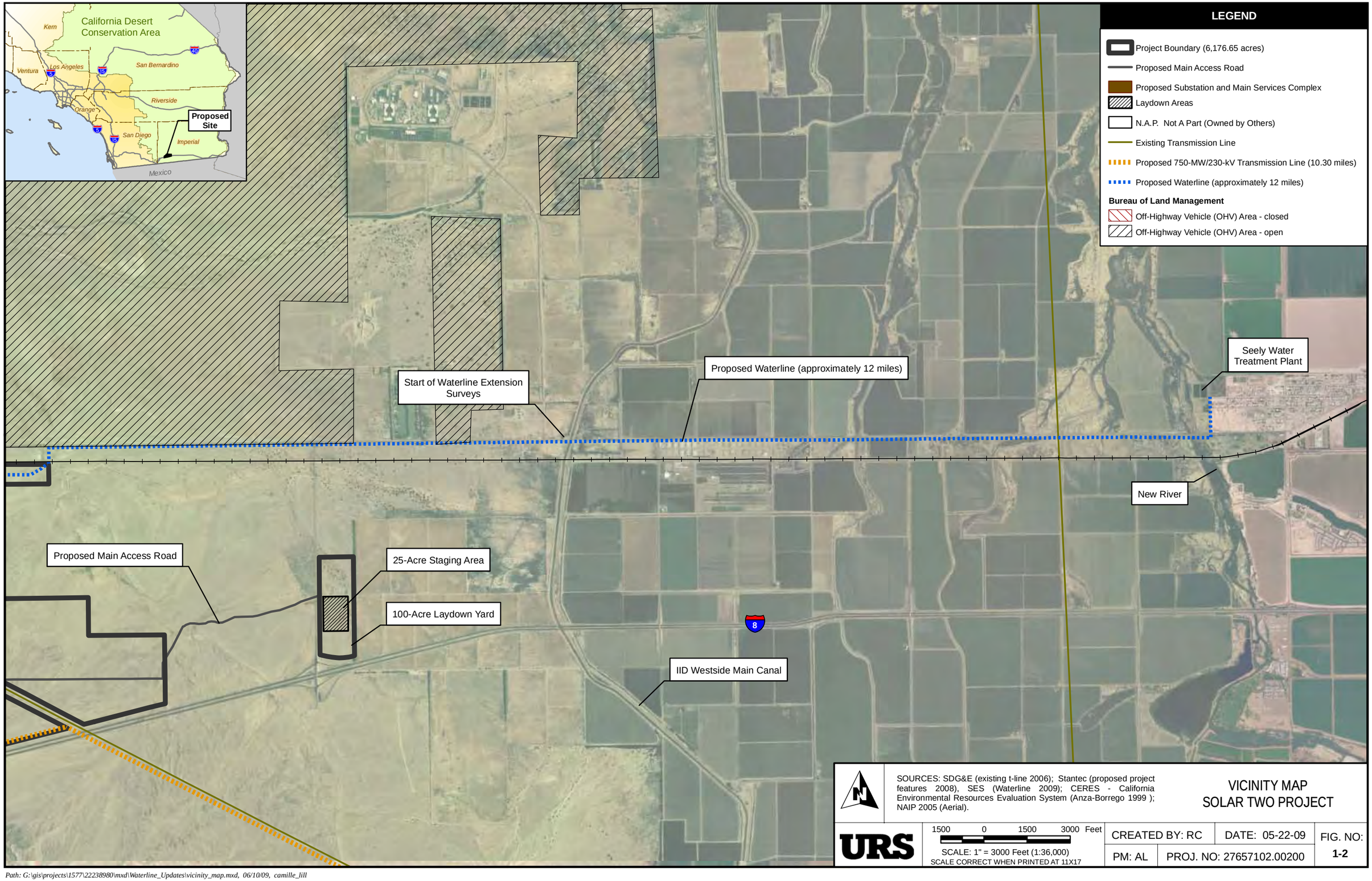


SOURCES: SDG&E (existing t-line 2006); Stantec (proposed project features 2008), SES (Waterline 2009); CERES - California Environmental Resources Evaluation System (Anza-Borrego 1999 ); NAIP 2005 (Aerial).

# VICINITY MAP
# SOLAR TWO PROJECT

URS

1500 0 1500 3000 Feet

SCALE: 1" = 3000 Feet (1:36,000)
SCALE CORRECT WHEN PRINTED AT 11X17

| CREATED BY: RC | DATE: 05-22-09 | FIG. NO: 1-2 |
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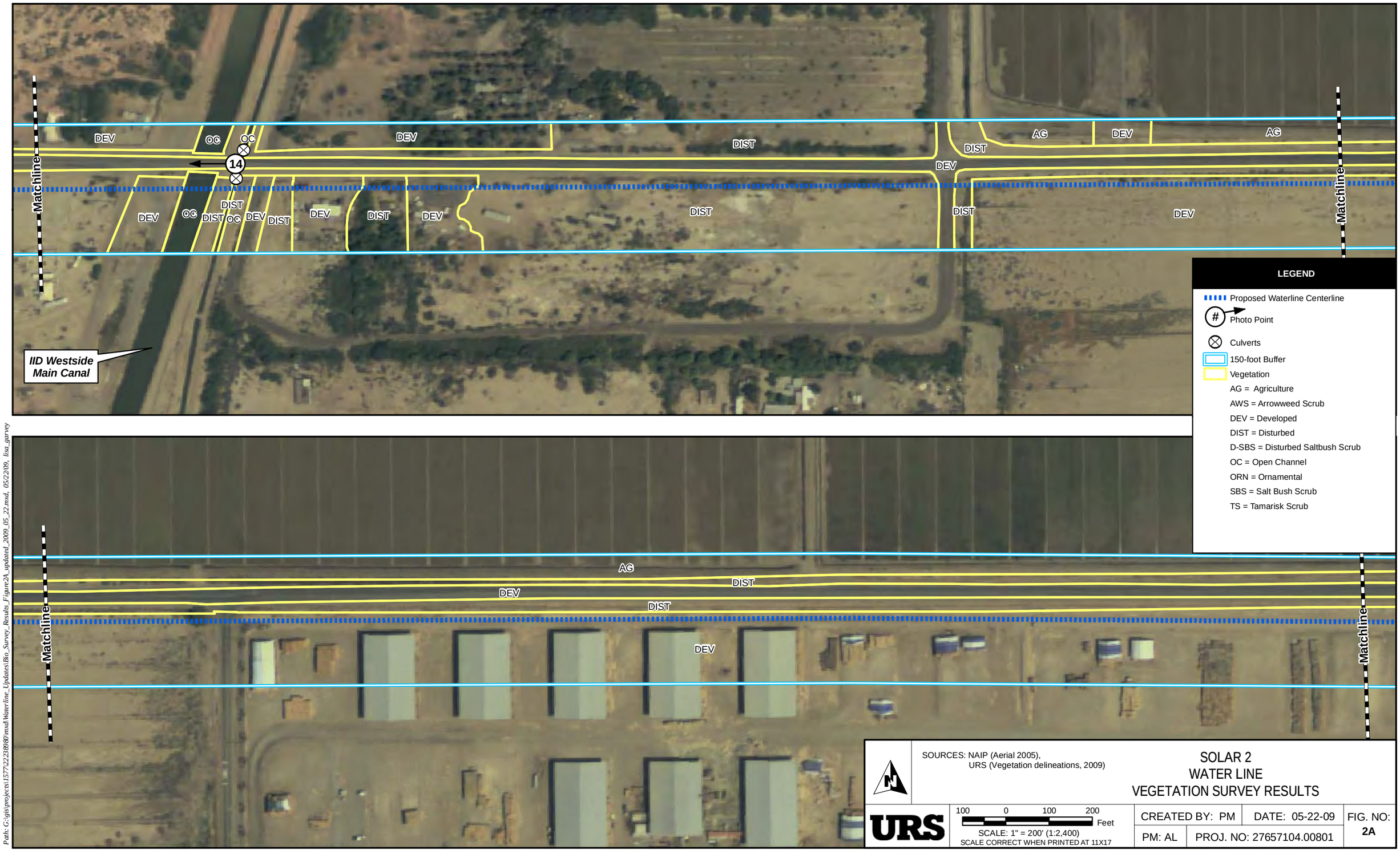


SOURCES: NAIP (Aerial 2005),
URS (Vegetation delineations, 2009)

# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

100 0 100 200 Feet
SCALE: 1" = 200' (1:2,400)
SCALE CORRECT WHEN PRINTED AT 11X17

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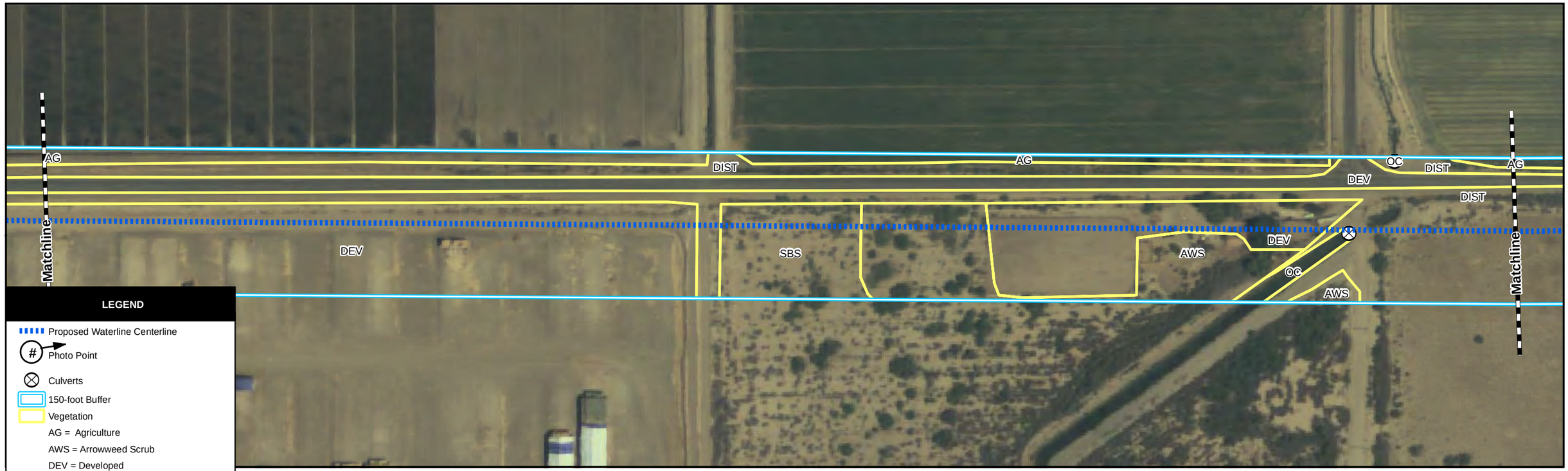


**LEGEND**

- Proposed Waterline Centerline
- # Photo Point
- Culverts
- 150-foot Buffer
- Vegetation
  - AG = Agriculture
  - AWS = Arrowweed Scrub
  - DEV = Developed
  - DIST = Disturbed
  - D-SBS = Disturbed Saltbush Scrub
  - OC = Open Channel
  - ORN = Ornamental
  - SBS = Salt Bush Scrub
  - TS = Tamarisk Scrub

SOURCES: NAIP (Aerial 2005),
URS (Vegetation delineations, 2009)

# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

100 0 100 200 Feet

SCALE: 1" = 200' (1:2,400)
SCALE CORRECT WHEN PRINTED AT 11X17

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|---|---|---|
| PM: AL | PROJ. NO: 27657104.00801 | |

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Matchline

DIST

DEV

OC

ORN

DIST

DEV

DIST

12

AG

D-SBS

OC

DEV

Matchline

**LEGEND**

- Proposed Waterline Centerline
- # Photo Point
- Culverts
- 150-foot Buffer
- Vegetation
  - AG = Agriculture
  - AWS = Arrowweed Scrub
  - DEV = Developed
  - DIST = Disturbed
  - D-SBS = Disturbed Saltbush Scrub
  - OC = Open Channel
  - ORN = Ornamental
  - SBS = Salt Bush Scrub
  - TS = Tamarisk Scrub

DIST

9

10

DEV

11

DIST

DIST

7

Matchline

DEV

TS

OC

OC

DEV

D-SBS

SOURCES: NAIP (Aerial 2005),
URS (Vegetation delineations, 2009)

# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

100 0 100 200 Feet

SCALE: 1" = 200' (1:2,400)
SCALE CORRECT WHEN PRINTED AT 11X17

| CREATED BY: PM | DATE: 05-22-09 | FIG. NO: 2C |
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| PM: AL | PROJ. NO: 27657104.00801 | |

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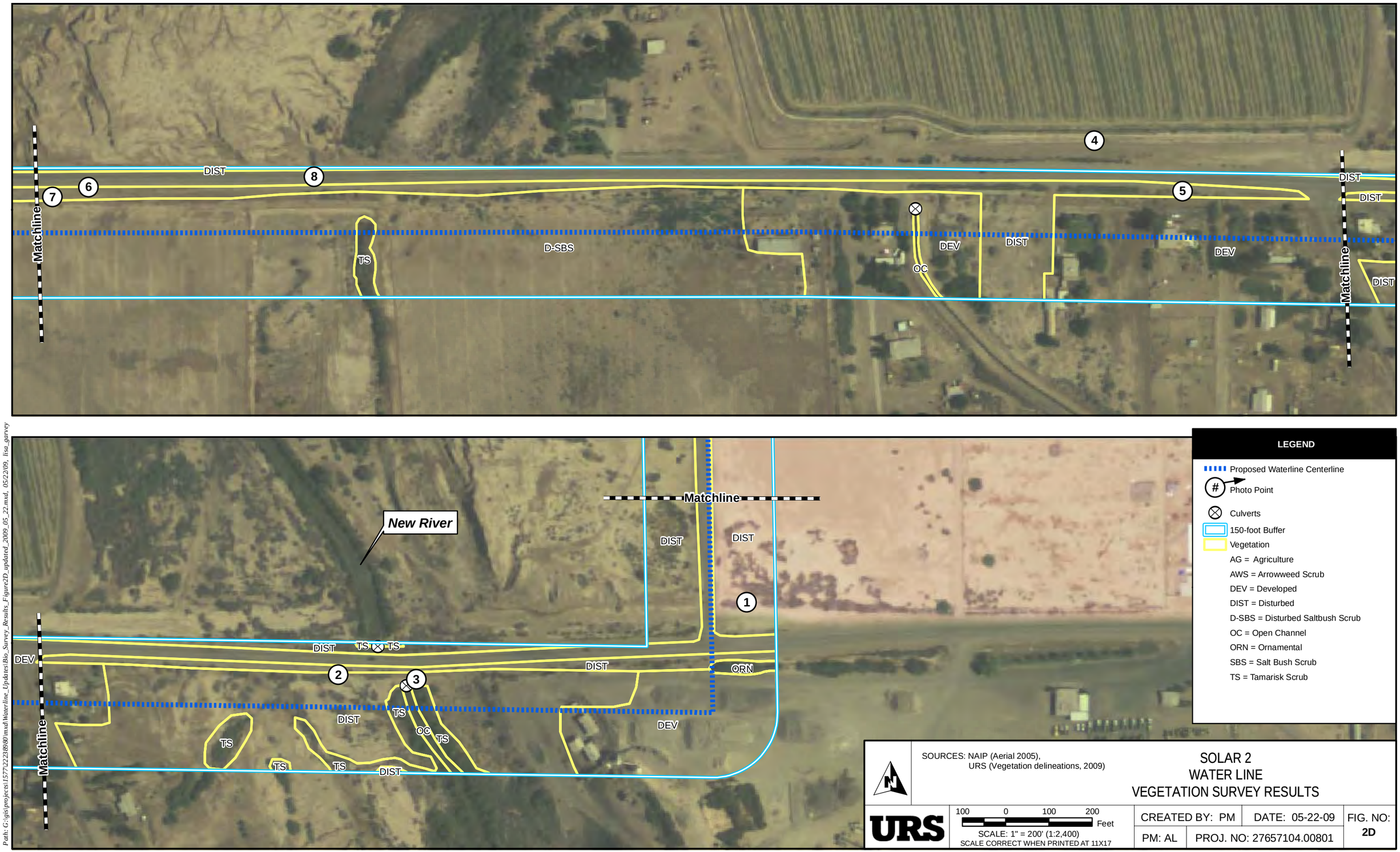


LEGEND

- Proposed Waterline Centerline
- # Photo Point
- Culverts
- 150-foot Buffer
- Vegetation
  - AG = Agriculture
  - AWS = Arrowweed Scrub
  - DEV = Developed
  - DIST = Disturbed
  - D-SBS = Disturbed Saltbush Scrub
  - OC = Open Channel
  - ORN = Ornamental
  - SBS = Salt Bush Scrub
  - TS = Tamarisk Scrub

SOURCES: NAIP (Aerial 2005),
URS (Vegetation delineations, 2009)

# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

100 0 100 200 Feet
SCALE: 1" = 200' (1:2,400)
SCALE CORRECT WHEN PRINTED AT 11X17

| CREATED BY: PM | DATE: 05-22-09 | FIG. NO: 2D |
|---|---|---|
| PM: AL | PROJ. NO: 27657104.00801 | |

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**LEGEND**

- Proposed Waterline Centerline
- # Photo Point
- Culverts
- 150-foot Buffer
- Vegetation
  - AG = Agriculture
  - AWS = Arrowweed Scrub
  - DEV = Developed
  - DIST = Disturbed
  - D-SBS = Disturbed Saltbush Scrub
  - OC = Open Channel
  - ORN = Ornamental
  - SBS = Salt Bush Scrub
  - TS = Tamarisk Scrub

*Seeley Wastewater Treatment Plant*

*New River*

New River Blvd

Matchline

Matchline

DEV

DIST

TS

OC

ORN

1

2

3

SOURCES: NAIP (Aerial 2005),
URS (Vegetation delineations, 2009)

# SOLAR 2
# WATER LINE
# VEGETATION SURVEY RESULTS

URS

100 0 100 200 Feet

SCALE: 1" = 200' (1:2,400)
SCALE CORRECT WHEN PRINTED AT 11X17

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| PM: AL | PROJ. NO: 27657104.00801 | |

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**Plant Species Observed Along the Study Area Alignment in 2009**

| Scientific Name | Common Name |
|---|---|
| **ANGIOSPERMS (DICOTYLEDONS)** | |
| **AIZOACEAE** | **FIG-MARIGOLD FAMILY** |
| *Sesuvium verrucosum* | western sea-purslane |
| **APOCYNACEAE** | **DOGBANE FAMILY** |
| *Nerium oleander** | oleander |
| **ASTERACEAE** | **SUNFLOWER FAMILY** |
| *Ambrosia dumosa* | burro bush |
| *Bebbia juncea* | sweetbush |
| *Encelia frutescens* | button brittlebush |
| *Isocoma acradenia* | alkali goldenbush |
| *Palafoxia arida* | Spanish needles |
| *Pluchea sericea* | arrowweed |
| *Sonchus oleraceus** | common sow thistle |
| **BORAGINACEAE** | **BORAGE FAMILY** |
| *Cryptantha* sp. | cryptantha |
| *Tiquilia plicata* | plicate tiquilia |
| **BRASSICACEAE** | **MUSTARD FAMILY** |
| *Brassica* sp. | mustard |
| *Brassica tournefortii* | wild turnip |
| **CHENOPODIACEAE** | **GOOSEFOOT FAMILY** |
| *Atriplex polycarpa* | desert saltbush |
| *Chenopodium murale* | nettleleaf goosefoot |
| *Salicornia virginica* | pickleweed |
| *Suaeda moquinii (S. nigra)* | seepweed |
| **EUPHORBIACEAE** | **SPURGE FAMILY** |
| *Chamaesyce setiloba* | Yuma spurge |
| **FABACEAE** | **LEGUME FAMILY** |
| *Cercidium microphyllum* | small-leaved palo verde |
| *Dalea mollissima* | silky dalia |
| *Prosopis glandulosa* | honey mesquite |
| *Psorothamnus emoryi* | dye plant |
| **LAMIACEAE** | **MINT FAMILY** |
| *Marrubium vulgare** | horehound |

**Plant Species Observed Along the Study Area Alignment in 2009 (Continued)**

| Scientific Name | Common Name |
|---|---|
| **MALVACEAE** | **MALLOW FAMILY** |
| *Sphaeralcea ambigua* | desert mallow |
| **MYRTACEAE** | **MYRTLE FAMILY** |
| *Eucalyptus* sp.* | gum tree |
| **NYCTAGINACEAE** | **FOUR O'CLOCK FAMILY** |
| *Abronia villosa* | sand verbena |
| **ONAGRACEAE** | **EVENING PRIMROSE FAMILY** |
| *Camissonia claviformis* | brown-eyed evening primrose |
| **PLANTAGINACEAE** | **PLANTAIN FAMILY** |
| *Plantago ovata* | woolly plantain |
| **RESDACEAE** | **MIGNONETTE FAMILY** |
| *Oligomeris linifolia* | narrow-leaved oligomeris |
| **TAMARICACEAE** | **TAMARISK FAMILY** |
| *Tamarix* sp. | tamarisk |
| **ZYGOPHYLLACEAE** | **CALTROP FAMILY** |
| *Larrea tridentata* | creosote bush |
| **ANGIOSPERMS (MONOCOTYLEDONS)** | |
| **ARECACEAE** | **PALM FAMILY** |
| *Washingtonia filifera* | California fan palm |
| *Phoenix canariensis** | Canary Island date palm |
| **CYPERACEAE** | **SEDGE FAMILY** |
| *Cyperus squarrosus* | nutsedge |
| **POACEAE** | **GRASS FAMILY** |
| *Arundo donax** | giant reed |
| *Bromus madritensis* ssp. *rubens** | foxtail chess |
| *Polypogon monspeliensis** | annual beard grass |
| *Schismus barbatus** | Mediterranean schismus |
| **TYPHACEAE** | **CATTAIL FAMILY** |
| *Typha domingensis* | southern cattail |

* - non-native species

**Wildlife Species Observed Along the Study Area Alignment in 2009**

| Scientific Name | Common Name |
|---|---|
| **CLASS INSECTA** | **INSECTS** |
| **PIERIDAE** | **WHITES & SULPHURS** |
| *Pontia protodice* | common white |
| **LYCAENIDAE** | **GOSSAMER WINGS** |
| *Brephidium exilis* | pygmy blue |
| **CLASS AMPHIBIA** | **AMPHIBIANS** |
| **RANIDAE** | **TRUE FROGS** |
| *Rana catesbeiana* | bullfrog |
| **CLASS REPTILIA** | **REPTILES** |
| **IGUANIDAE** | **IGUANID LIZARDS** |
| *Uta stansburiana* | common side-blotched lizard |
| **TEIIDAE** | **WHIPTAIL LIZARDS** |
| *Cnemidophorus* sp. | whiptail |
| **CLASS AVES** | **BIRDS** |
| **ARDEIDAE** | **HERONS, BITTERNS** |
| *Ardea herodias* | great blue heron |
| *Butorides virescens* | green heron |
| *Ardea alba* | great egret |
| *Egretta thula* | snowy egret |
| **CATHARTIDAE** | **NEW WORLD VULTURES** |
| *Cathartes aura* | turkey vulture |
| **CHARADRIIDAE** | **PLOVERS** |
| *Charadrius vociferus* | killdeer |
| **COLUMBIDAE** | **PIGEONS & DOVES** |
| *Zenaida macroura* | mourning dove |
| **CORVIDAE** | **JAYS & CROWS** |
| *Corvus corax* | common raven |
| **CUCULIDAE** | **CUCKOOS & ROADRUNNERS** |
| *Geococcyx californianus* | greater roadrunner |
| **EMBERIZIDAE** | **EMBERIZIDS** |
| *Melospiza melodia* | song sparrow |
| *Pipilo crissalis* | California towhee |

**Wildlife Species Observed Along the Study Area Alignment in 2009 (Continued)**

| Scientific Name | Common Name |
|---|---|
| **FALCONIDAE** | **FALCONS** |
| *Falco sparverius* | American kestrel |
| **FRINGILLIDAE** | **FINCHES** |
| *Carduelis psaltria* | lesser goldfinch |
| *Carpodacus mexicanus* | house finch |
| **HIRUNDINIDAE** | **SWALLOWS** |
| *Petrochelidon pyrrhonota* | cliff swallow |
| **ICTERIDAE** | **BLACKBIRDS** |
| *Agelaius phoeniceus* | red-winged blackbird |
| *Sturnella neglecta* | western meadowlark |
| *Quiscalus mexicanus* | great-tailed grackle |
| *Molothrus ater* | brown-headed cowbird |
| **LARIDAE** | **SKUAS, GULLS, TERNS, SKIMMERS** |
| *Larus philadelphia* | Bonaparte's gull |
| **MIMIDAE** | **MOCKINGBIRDS, THRASHERS** |
| *Mimus polyglottos* | northern mockingbird |
| **ODONTOPHORIDAE** | **NEW WORLD QUAIL** |
| *Callipepla gambelii* | Gambel's quail |
| **PARULIDAE** | **WOOD WARBLERS** |
| *Wilsonia pusilla* | Wilson's warbler |
| *Geothlypis trichas* | common yellowthroat |
| **RECURVIROSTRIDAE** | **STILTS & AVOCETS** |
| *Himantopus mexicanus* | black-necked stilt |
| **STURNIDAE** | **STARLINGS** |
| *Sturnus vulgaris* | European starling |
| **THRAUPIDAE** | **TANAGERS** |
| *Piranga ludoviciana* | western tanager |
| **TROCHILIDAE** | **HUMMINGBIRDS** |
| *Calypte anna* | Anna's hummingbird |
| **TYRANNIDAE** | **TYRANT FLYCATCHERS** |
| *Myiarchus cinerascens* | ash-throated flycatcher |
| *Sayornis nigricans* | black phoebe |

**Wildlife Species Observed Along the Study Area Alignment in 2009 (Continued)**

| Scientific Name | Common Name |
|---|---|
| **CLASS MAMMALIA** | **MAMMALS** |
| **CANIDAE** | **WOLVES & FOXES** |
| *Canis latrans* | coyote |
| **LEPORIDAE** | **HARES & RABBITS** |
| *Lepus californicus* | black-tailed jackrabbit |
| *Sylvilagus audubonii* | desert cottontail |
| **SCIURIDAE** | **SQUIRRELS** |
| *Spermophilus beecheyi*. | California ground squirrel |

**Photograph #1**
**Date:** 4/30/2009

**Comments:**
Typical disturbed and developed areas along the northeastern portion of the proposed waterline, east of the New River.

**Photograph #2**
**Date:** 4/30/2009

**Comments:**
View of the New River at Evan Hewes Highway.

**Photograph #3**
**Date:** 4/30/2009

**Comments:**
New River and Tamarisk Scrub associated with the banks of the river.

**Photograph #4**
**Date:** 4/30/2009

**Comments:**
Disturbed shoulder and an example of an irrigation canal that parallels a significant portion of the agricultural fields that abut Evan Hewes Highway

**Photograph #5**
**Date:** 4/30/2009

**Comments:**
Disturbed highway shoulder and an example of ornamental vegetation associated with scattered developed parcels along the proposed waterline alignment.


**Photograph #6**
**Date:** 4/30/2009

**Comments:**
Location of the high pressure gas pipeline along the southern shoulder of Evan Hewes Highway

**Photograph #7**
**Date:** 4/30/2009

**Comments:**
Example of disturbed Desert Saltbush Scrub found along the proposed alignment

**Photograph #8**
**Date:** 4/30/2009

**Comments:**
View of the eastern-most drainage feature along the north side of Evan Hewes Highway. This drainage does not pass under Evan Hewes Highway.

**Photograph #9**
**Date:** 4/30/2009

**Comments:**
Large irrigation drainage channel flowing from south to north under Evan Hewes Highway. Note the culvert outfall in the foreground of the photo.

**Photograph #10**
**Date:** 4/30/2009

**Comments:**
Upstream (southern) section of irrigation drainage channel shown in Photograph # 9.

**Photograph #11**
**Date:** 4/30/2009

**Comments:**
Large irrigation drainage flowing south to north under Evan Hewes Highway. This photo was taken on the south side of Evan Hewes. Note the Tamarisk Scrub growing in the background due to seepage from this drainage.

**Photograph #12**
**Date:** 4/30/2009

**Comments:**
Example of the several irrigation canals that cross under Evan Hewes Highway. Note the above-ground configuration of the yellow gas pipeline to avoid the canal.

**Photograph #13**
**Date:** 4/30/2009

**Comments:**
Large area of Tamarisk Scrub within a large irrigation drainage channel that crosses under Evan Hewes Highway.

**Photograph #14**
**Date:** 4/30/2009

**Comments:**
Large irrigation canal flowing under Evan Hewes Highway. Note the configuration of the yellow gas pipeline across the canal.

| Species | Sensitivity Status | Potential to Occur | Habitat | On-Site Status |
|---|---|---|---|---|
| **Plants** | | | | |
| *Astragalus insularis* var. *harwoodii* Harwood's milk-vetch | Federal – None<br>State – None<br>BLM – None<br>CNPS List – 2.2 | Low -Moderate | Occurs in sand and gravelly desert dune areas. Annual herb that blooms January through May. | Suitable habitat occurs along the alignment; nearest documented location of this species is within the adjacent Kane Spring Northeast quad. Species not observed along the alignment during the 2009 surveys. |
| *Castela emoryi* Crucifixion thorn | Federal – None<br>State – None<br>BLM – None<br>CNPS List – 2.3 | Low | Occurs in Sonoran desert scrub, playas, and on gravelly soils; 90-670 meters. Deciduous shrub that blooms April through July. | Suitable habitat occurs on-site; nearest documented location occurs in the adjacent Coyote Wells and Yuha Basin quads. Species not observed along the alignment during the 2009 surveys. |
| *Chamaesyce platysperma* flat-seeded spurge | Federal – None<br>State – None<br>BLM – Sensitive<br>CNPS List – 1B.2 | Low -Moderate | Occurs in desert dunes and Sonoran Desert scrub with sandy soil. Annual herb that blooms February through September. | Suitable habitat does occur along the alignment; nearest documented location of this species is within the adjacent Superstition Mountain quad in the 1980s. Not observed along the alignment during the 2009 surveys. |
| *Eucnide rupestris* annual rock nettle | Federal – None<br>State – None<br>BLM - None<br>CNPS List – 2.2 | Low | Occurs in Sonoran desert scrub on rock or talus substrate; 500-600 meters. Annual herb that blooms December through April. | Suitable substrate does not occur along the alignment; this species generally occurs at higher elevations than found along the alignment. Previously documented in the adjacent Coyote Wells, Mount Signal, and Painted Gorge quads. |
| *Ipomopsis effusa* Baja California ipomopsis | Federal – None<br>State – None<br>BLM – None<br>CNPS List – 2.1 | Moderate | Occurs in chaparral, Sonoran desert scrub (alluvial fan) in sandy substrate between 0 to 100 meters. Annual herb that blooms April through June. | Suitable habitat occurs on-site; species documented in the adjacent Yuha Basin quad. Not observed along the alignment during the 2009 surveys. |

| Species | Sensitivity Status | Potential to Occur | Habitat | On-Site Status |
|---|---|---|---|---|
| *Ipomopsis tenuifolia*<br>slender-leaved ipomopsis | Federal – None<br>State – None<br>BLM – None<br>CNPS List – 2.3 | Low | Occurs in chaparral, pinyon and juniper woodlands, and Sonoran desert scrub on rocky or gravelly soil between 100 and 1,200 meters. Perennial herb that blooms March through May. | Suitable habitat occurs along the alignment, but this species is normally found at a higher elevation. Species documented on the adjacent In-ko-pah Gorge quad. Not observed during the 2009 surveys. |
| *Lupinus excubitus* var. *medius*<br>Mountain Springs bush lupine | Federal – None<br>State – None<br>BLM – Sensitive<br>CNPS – 1B.3 | Low | Occurs in pinyon and juniper woodland and Sonoran desert scrub between 425 and 1,370 meters. Shrub that blooms March through May | Suitable habitat occurs along the alignment, but this species is normally found at a higher elevation. Species documented on the adjacent Carrizo Mountain and In-ko-pah Gorge quads. Not observed during the 2009 surveys. |
| *Malperia tenuis*<br>brown turbans | Federal – None<br>State – None<br>BLM – None<br>CNPS List – 2.3 | Moderate | Occurs in Sonoran Desert scrub with sandy soil. Annual herb that blooms March and April. | Suitable habitat does occur along the alignment; nearest documented locations of this species are within the Harper's Well and Plaster City Northwest quads. Not observed during the 2009 surveys. |
| *Mentzelia hirsutissima*<br>hairy stickleaf | Federal – None<br>State – None<br>BLM – None<br>CNPS List – 2.3 | Moderate | Occurs in rocky Sonoran Desert scrub between 0 and 700 meters. Annual herb that blooms March through May. | Suitable habitat occurs along the alignment; species documented in adjacent Mount Signal quad. Not observed along the alignment during the 2009 surveys. |
| *Nemacaulis denudata* var. *gracilis*<br>slender woolly-heads | Federal – None<br>State – None<br>BLM – None<br>CNPS List – 2.2 | Moderate | Occurs in coastal dunes, desert dunes, Sonoran Desert scrub between 50 and 400 meters. Annual herb that blooms March through May. | Suitable habitat occurs along the alignment; species documented in adjacent Coyote Wells and Painted Gorge quads. Not observed along the alignment during the 2009 surveys. |
| *Xylorhiza orcuttii*<br>Orcutt's woody-aster | Federal – None<br>State – None<br>BLM – Sensitive<br>CNPS List – 1B.3 | Moderate | Occurs in Sonoran Desert scrub between 20 and 365 meters. Perennial herb that blooms March through May. | Suitable habitat occurs along the alignment; species documented in the adjacent Carrizo Mountain quad. Not observed along the alignment during the 2009 surveys. |

| Species | Sensitivity Status | Potential to Occur | Habitat | On-Site Status |
|---|---|---|---|---|
| **Reptiles** | | | | |
| *Coleonyx switaki*<br><br>barefoot banded gecko | Federal – None<br>State – Threatened<br>BLM – None | Low | Inhabits rocky, boulder-strewn desert foothills, where it spends most of its life deep in rock crevices and subterranean chambers. | No suitable habitat occurs along the alignment. Species has been documented in the adjacent Coyote Wells and Painted Gorge quads. |
| *Phrynosoma mcallii*<br><br>flat-tailed horned lizard | Federal – None<br>State – SSC<br>BLM – Sensitive | Low -Moderate | Inhabits sparsely vegetated desert scrub areas with fine, wind-blown (aeolian) sand deposits and shifting sand substrate. | Suitable habitat and food source occurs along the alignment. Historically, species has been observed in adjacent areas. None were detected during the 2009 surveys. |
| **Birds** | | | | |
| *Athene cunicularia*<br><br>burrowing owl | Federal – None<br>State – SSC<br>BLM – Sensitive | Moderate | Found in open grasslands and agricultural areas with suitable fossorial mammal burrows for nesting. | No suitable burrows were detected along the alignment. Owls have historically been observed in adjacent areas. None were detected during the 2009 surveys. |
| *Falco mexicanus*<br><br>prairie falcon | Federal – None<br>State – SSC<br>BLM – None | Low | Generally occurs in barren mountains, dry plains, and prairies. | No suitable nesting habitat occurs along the alignment; species documented in the adjacent Painted Gorge quad. Potential foraging habitat present along the alignment. |
| *Toxostoma lecontei*<br><br>Le Conte's thrasher | Federal – None<br>State – SSC<br>BLM – None | Moderate | Desert flats with sparse bushes; preferred nest sites are in large shrubs along washes. | This species was observed on the proposed Solar Two site in 2007. It has also been documented in adjacent Coyote Wells and Painted Gorge quads. |

| Species | Sensitivity Status | Potential to Occur | Habitat | On-Site Status |
|---|---|---|---|---|
| **Mammals** | | | | |
| *Antrozous pallidus*<br><br>pallid bat | Federal – None<br>State – SSC<br>BLM – Sensitive | Low -Moderate | Most common in open, dry habitats with rocky areas for roosting. A year-long resident in most of the range. | Species documented in adjacent Carrizo Mountain quad. Suitable roosting sites observed on-site in the ornamental trees and buildings that line Evan Hewes Highway. The alignment may also be used for foraging. |
| *Nyctinomops femorosaccus*<br><br>pocketed free-tailed bat | Federal – None<br>State – SSC<br>BLM – None | Low -Moderate | Habitats used include pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oasis. Prefers rock crevices in cliffs as roosting sites. | Species documented in the adjacent Carrizo Mountain quad. Suitable roosting sites observed on-site in the ornamental trees and buildings that line Evan Hewes Highway. The alignment may also be used for foraging. |
| *Ovis canadensis nelsoni*<br><br>desert bighorn sheep | Federal – Endangered<br>State – Threatened<br>BLM – Sensitive | Low | Habitats used include alpine dwarf-shrub, low sage, sagebrush, bitterbrush, pinyon-juniper, palm oasis, desert riparian, desert succulent shrub, desert scrub, sub-alpine conifer, perennial grassland, montane chaparral, and montane riparian. | Species documented in the adjacent In-ko-pah Gorge quad. Usually prefers higher elevations with rocky substrates. Species detected in the western half of the Solar II site. Not likely to associated with habitats directly adjacent to the state highway. |
| *Pyrocephalus rubinus*<br><br>vermillion flycatcher | Federal – None<br>State – SSC<br>BLM – None | Moderate | Found in arid scrub, farmlands, savanna, agricultural areas, and riparian woodland during the breeding season. Avoid dense riparian habitat and are often associated with surface water. | Species documented at the New River. However, vermillion flycatcher has declined in the Imperial Valley, and is considered a “rare” breeder (Shuford et al. 2008). |

| Species | Sensitivity Status | Potential to Occur | Habitat | On-Site Status |
|---|---|---|---|---|
| *Rallus longirostris yumamensis*<br>Yuma clapper rail | Federal – Endangered<br>State – Endangered<br>BLM - | Low | Fresh-water marshes dominated by cattail or bulrush. Habitat a mosaic of vegetated areas interspersed with shallow (less than 12") open water areas. | Species documented approximately 2 miles downstream of the proposed Seely waterline. Cattails are present in one of the irrigation channels along the waterline; however, the water flow is likely too rapid in this location to support Yuma clapper rail. |
| *Taxidea taxus*<br>American badger | Federal – None<br>State – SSC<br>BLM – None | Low - Moderate | Grasslands, savannas, and mountain meadows near timberline are preferred, but also occur in desert scrub areas. | Species has been documented in the adjacent Coyote Wells, Mount Signal, Painted Gorge, and Seeley quads. No individuals or sign were observed during 2009 surveys. |

Source: CNDDB (2009), CNPS (2009)

Notes:

BLM = Bureau of Land Management
CNPS = California Native Plant Society
SSC = Species of Special Concern

Reference:

Shuford, W. D., and Gardali, T., editors. 2008. California Bird Species of Special Concern: A ranked assessment of species, subspecies, and distinct populations of birds of immediate conservation concern in California. Studies of Western Birds 1. Western Field Ornithologists, Camarillo, California, and California Department of Fish and Game, Sacramento.

# Appendix D
# Cultural Resources Technical Report
# (CONFIDENTIAL)

Note: Appendix D, Cultural Resources Technical Report, Is Being Submitted Under A CONFIDENTIAL Filing And Is Not For Public Disclosure. As Such, This Report Does Not Appear Here.

**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA**
**1516 NINTH STREET, SACRAMENTO, CA 95814**
**1-800-822-6228 – WWW.ENERGY.CA.GOV**

**APPLICATION FOR CERTIFICATION**
***For the SES SOLAR TWO PROJECT***

**Docket No. 08-AFC-5**

**PROOF OF SERVICE**
**(Revised 5/26/09)**

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## DECLARATION OF SERVICE

I, Angela Leiba, declare that on June 5, 2009, I served and filed copies of the attached Supplement to Application for Certification. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:
**[www.energy.ca.gov/sitingcases/solartwo]**. The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

**(*Check all that Apply*)**

### FOR SERVICE TO ALL OTHER PARTIES:

_X___ sent electronically to all email addresses on the Proof of Service list;

**_X___**by personal delivery or by depositing in the United States mail at Sacramento, California with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

***AND***

### FOR FILING WITH THE ENERGY COMMISSION:

**__X__** sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (***preferred method***);

***OR***

_____depositing in the mail an original and 12 paper copies, as follows:

**CALIFORNIA ENERGY COMMISSION**
Attn: Docket No. 08-AFC-5
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512

docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.

*Original Signed By:*
Angela Leiba