

B EPA Form 1 General

|  |   |  |   |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |  |  |   |
|--|---|--|---|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|--|--|---|
| <b>FORM</b><br><span style="font-size: 2em; font-weight: bold;">1</span><br><b>GENERAL</b>                             | U.S. ENVIRONMENTAL PROTECTION AGENCY<br><span style="font-size: 1.5em; font-weight: bold;">EPA</span><br><b>GENERAL INFORMATION</b><br>Consolidated Permits Program<br>(Read the "General Instructions" before starting.) | <b>I. EPA I.D. NUMBER</b><br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">6</td> <td style="width:5%;">7</td> <td style="width:5%;">8</td> <td style="width:5%;">9</td> <td style="width:5%;">10</td> <td style="width:5%;">11</td> <td style="width:5%;">12</td> <td style="width:5%;">13</td> <td style="width:5%;">14</td> <td style="width:5%;">15</td> </tr> <tr> <td style="text-align: center;">F</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">D</td> </tr> </table>  | 6 | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | F |  |  |  |  |  |  |  |  | D |
| 6  | 7   | 8  | 9 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |   |  |  |  |  |  |  |  |  |   |
| F  |   |  |   |    |    |    |    |    | D  |    |    |    |   |  |  |  |  |  |  |  |  |   |
| <b>LABEL ITEMS</b><br>I. EPA I.D. NUMBER<br>III. FACILITY NAME<br>V. FACILITY MAILING ADDRESS<br>VI. FACILITY LOCATION |   | PLEASE PLACE LABEL IN THIS SPACE   |   |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |  |  |   |
|  |   | <b>GENERAL INSTRUCTIONS</b><br>If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected. |   |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |  |  |   |

| II. POLLUTANT CHARACTERISTICS   |          |    |               |  |          |    |               |  |  |
|---|----------|----|---------------|--|----------|----|---------------|--|--|
| INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms. |          |    |               |  |          |    |               |  |  |
| SPECIFIC QUESTIONS  | MARK 'X' |    |               | SPECIFIC QUESTIONS   | MARK 'X' |    |               |  |  |
|   | YES      | NO | FORM ATTACHED |  | YES      | NO | FORM ATTACHED |  |  |
| A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)  | X        |    |               | B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)  |          | X  |               |  |  |
| C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)   |          | X  |               | D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)  |          | X  |               |  |  |
| E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)  |          | X  |               | F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)   |          | X  |               |  |  |
| G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)  |          | X  |               | H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)  |          | X  |               |  |  |
| I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)  |          |    | X             | J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5) |          |    | X             |  |  |

| III. NAME OF FACILITY |   |      |                                       |  |  |  |  |  |  |
|-----------------------|---|------|---------------------------------------|--|--|--|--|--|--|
| C                     | 1 | SKIP | Southwest Groundwater Treatment Plant |  |  |  |  |  |  |

| IV. FACILITY CONTACT                   |   |  |  |  |                            |     |     |      |  |
|--|---|--|--|--|----------------------------|-----|-----|------|--|
| A. NAME & TITLE (last, first, & title) |   |  |  |  | B. PHONE (area code & no.) |     |     |      |  |
| E                                      | 2 | Terry, Shazelle, Treatment Dept. Manager |  |  |                            | 801 | 446 | 2000 |  |

| V. FACILITY MAILING ADDRESS |   |             |  |  |          |             |  |  |  |
|-----------------------------|---|-------------|--|--|----------|-------------|--|--|--|
| A. STREET OR P.O. BOX       |   |             |  |  |          |             |  |  |  |
| C                           | 3 | P.O. Box 70 |  |  |          |             |  |  |  |
| B. CITY OR TOWN             |   |             |  |  | C. STATE | D. ZIP CODE |  |  |  |
| E                           | 4 | West Jordan |  |  | UT       | 84088       |  |  |  |

| VI. FACILITY LOCATION                             |   |                      |  |  |          |             |                           |  |  |
|---|---|----------------------|--|--|----------|-------------|---------------------------|--|--|
| A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER |   |                      |  |  |          |             |                           |  |  |
| C   | 5 | 8215 South 1300 West |  |  |          |             |                           |  |  |
| B. COUNTY NAME                                    |   |                      |  |  |          |             |                           |  |  |
| E   | 6 | Salt Lake            |  |  |          |             |                           |  |  |
| C. CITY OR TOWN                                   |   |                      |  |  | D. STATE | E. ZIP CODE | F. COUNTY CODE (if known) |  |  |
| E   | 7 | West Jordan          |  |  | UT       | 84088       | 035                       |  |  |

CONTINUED FROM THE FRONT

**VII. SIC CODES (4-digit, in order of priority)**

|                     |   |   |   |           |  |  |  |
|---------------------|---|---|---|-----------|--|--|--|
| A. FIRST            |   |   |   | B. SECOND |  |  |  |
| 4                   | 9 | 4 | 1 | 7         |  |  |  |
| Public Water Supply |   |   |   | (specify) |  |  |  |
| C. THIRD            |   |   |   | D. FOURTH |  |  |  |
| 7                   |   |   |   | 7         |  |  |  |
| (specify)           |   |   |   | (specify) |  |  |  |

**VIII. OPERATOR INFORMATION**

A. NAME: Jordan Valley Water Conservancy District

B. Is the name listed in Item VIII-A also the owner?  YES  NO

C. STATUS OF OPERATOR: M = PUBLIC (other than federal or state)

D. PHONE (area code & no.): 801 565 4300

E. STREET OR P.O. BOX: P.O. Box 70

F. CITY OR TOWN: West Jordan

G. STATE: UT

H. ZIP CODE: 84088

IX. INDIAN LAND: Is the facility located on Indian lands?  YES  NO

**X. EXISTING ENVIRONMENTAL PERMITS**

|  |   |  |           |  |   |  |  |
|--|---|--|-----------|--|---|--|--|
| A. NPDES (Discharges to Surface Water)   |   |  |           | D. PSD (Air Emissions from Proposed Sources) |   |  |  |
| 9  | N |  | UTG640026 | 9  | P |  |  |
| B. UIC (Underground Injection of Fluids) |   |  |           | E. OTHER (specify)                           |   |  |  |
| 9  | U |  | UTU500005 | 9  |   |  |  |
| C. RCRA (Hazardous Wastes)               |   |  |           | E. OTHER (specify)                           |   |  |  |
| R  |   |  |           | 9  |   |  |  |

**XI. MAP**

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

**XII. NATURE OF BUSINESS (provide a brief description)**

The project will extract underground waters high in sulfate via a series of deep aquifer wells and subsequently purify the extracted water using advanced treatment including reverse osmosis (RO) at the Southwest Groundwater Treatment Plant (SWGTP). Shallow groundwater will also be treated. The purified potable water will be distributed by the District to its member agencies. RO by-product (i.e. concentrate) containing the extracted salts from the treated water will be routed via a 21 mile long pipeline to Outfall #1 at the Great Salt Lake. Initial construction of the SWGTP will have a capacity of seven million gallons per day (7 MGD) of treated potable water. At build-out, the treatment plant capacity will increase to 14 MGD. RO by-product will be discharged via Outfall #1 to the Great Salt Lake. Untreated shallow groundwater will be discharged via Outfall #2 to the Jordan River. The plant will be located near the District's headquarters site adjacent to the Jordan River.

**XIII. CERTIFICATION (see instructions)**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, 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.

|   |                  |                             |
|---|------------------|-----------------------------|
| A. NAME & OFFICIAL TITLE (type or print)<br>Alan E. Packard<br>Assistant General Manager and Chief Engineer | B. SIGNATURE<br> | C. DATE SIGNED<br>8/16/2010 |
|---|------------------|-----------------------------|

**COMMENTS FOR OFFICIAL USE ONLY**

## C NPDES Form 2A Application Overview

FORM  
**2A**  
NPDES**NPDES FORM 2A APPLICATION OVERVIEW****APPLICATION OVERVIEW**

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

**BASIC APPLICATION INFORMATION:**

- A. **Basic Application Information for all Applicants.** All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. **Additional Application Information for Applicants with a Design Flow  $\geq$  0.1 mgd.** All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. **Certification.** All applicants must complete Part C (Certification).

**SUPPLEMENTAL APPLICATION INFORMATION:**

- D. **Expanded Effluent Testing Data.** A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  1. Has a design flow rate greater than or equal to 1 mgd,
  2. Is required to have a pretreatment program (or has one in place), or
  3. Is otherwise required by the permitting authority to provide the information.
- E. **Toxicity Testing Data.** A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  1. Has a design flow rate greater than or equal to 1 mgd,
  2. Is required to have a pretreatment program (or has one in place), or
  3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. **Industrial User Discharges and RCRA/CERCLA Wastes.** A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  2. Any other industrial user that:
    - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
    - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designated as an SIU by the control authority.
- G. **Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

**ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)**

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99  
OMB Number 2040-0086

### BASIC APPLICATION INFORMATION

#### PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:

All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.

##### A.1. Facility Information.

Facility name Southwest Groundwater Treatment Plant

Mailing Address P.O. Box 70  
West Jordan, UT 84088

Contact person Shazelle Terry

Title Treatment Department Manager

Telephone number 801-565-4300

Facility Address 8215 South 1300 West  
(not P.O. Box) West Jordan, UT 84088

##### A.2. Applicant Information. If the applicant is different from the above, provide the following:

Applicant name Jordan Valley Water Conservancy District

Mailing Address P.O. Box 70  
West Jordan, UT 84088

Contact person Mark G Atencio

Title Engineering Department Manager

Telephone number 801-565-4300

Is the applicant the owner or operator (or both) of the treatment works?

owner       operator

Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.

facility       applicant

##### A.3. Existing Environmental Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits).

NPDES \_\_\_\_\_ PSD \_\_\_\_\_

UIC \_\_\_\_\_ Other \_\_\_\_\_

RCRA \_\_\_\_\_ Other \_\_\_\_\_

##### A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).

| Name                           | Population Served          | Type of Collection System | Ownership |
|--------------------------------|----------------------------|---------------------------|-----------|
| <u>JVWCD service area</u>      | <u>600,000 (Year 2009)</u> | _____                     | _____     |
| _____                          | _____                      | _____                     | _____     |
| _____                          | _____                      | _____                     | _____     |
| <b>Total population served</b> | <u>600,000</u>             |                           |           |

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**A.5. Indian Country.**

a. Is the treatment works located in Indian Country?

\_\_\_\_\_ Yes       X  No

b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?

\_\_\_\_\_ Yes       X  No

**A.6. Flow.** Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

a. Design flow rate  14.0  mgd Treated water to Member Agencies

|                                   | <u>Two Years Ago</u> | <u>Last Year</u> | <u>This Year</u> |     |
|-----------------------------------|----------------------|------------------|------------------|-----|
| b. Annual average daily flow rate | <u> 0 </u>           | <u> 0 </u>       | <u> 0 </u>       | mgd |
| c. Maximum daily flow rate        | <u> 0 </u>           | <u> 0 </u>       | <u> 0 </u>       | mgd |

**A.7. Collection System.** Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each.

n/a  Separate sanitary sewer \_\_\_\_\_ %  
\_\_\_\_\_ Combined storm and sanitary sewer \_\_\_\_\_ %

**A.8. Discharges and Other Disposal Methods.**

a. Does the treatment works discharge effluent to waters of the U.S.?  X  Yes      \_\_\_\_\_ No

If yes, list how many of each of the following types of discharge points the treatment works uses:

- i. Discharges of treated effluent \_\_\_\_\_
- ii. Discharges of untreated or partially treated effluent \_\_\_\_\_
- iii. Combined sewer overflow points \_\_\_\_\_
- iv. Constructed emergency overflows (prior to the headworks) \_\_\_\_\_
- v. Other  Reverse osmosis by-product - Great Salt Lake   1   
 Shallow groundwater - Jordan River   1

b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? \_\_\_\_\_ Yes       X  No

If yes, provide the following for each surface impoundment:

Location: \_\_\_\_\_  
Annual average daily volume discharged to surface impoundment(s) \_\_\_\_\_ mgd  
Is discharge \_\_\_\_\_ continuous or \_\_\_\_\_ intermittent?

c. Does the treatment works land-apply treated wastewater? \_\_\_\_\_ Yes       X  No

If yes, provide the following for each land application site:

Location: \_\_\_\_\_  
Number of acres: \_\_\_\_\_  
Annual average daily volume applied to site: \_\_\_\_\_ Mgd  
Is land application \_\_\_\_\_ continuous or \_\_\_\_\_ intermittent?

d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works? \_\_\_\_\_ Yes       X  No

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If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe).

If transport is by a party other than the applicant, provide:

Transporter name: Not applicable

Mailing Address:

Contact person:

Title:

Telephone number:

For each treatment works that receives this discharge, provide the following:

Name: Not applicable

Mailing Address:

Contact person:

Title:

Telephone number:

If known, provide the NPDES permit number of the treatment works that receives this discharge.

Provide the average daily flow rate from the treatment works into the receiving facility.

\_\_\_\_\_ mgd

- e. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)?

\_\_\_\_\_ Yes

X No

If yes, provide the following for each disposal method:

Description of method (including location and size of site(s) if applicable):

Annual daily volume disposed of by this method:

Is disposal through this method

\_\_\_\_\_ continuous or

\_\_\_\_\_ intermittent?



FACILITY NAME AND PERMIT NUMBER:

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**WASTEWATER DISCHARGES:**

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

**A.9. Description of Outfall.**

- a. Outfall number 1 (Great Salt Lake)
- b. Location Unnamed drainage  
(City or town, if applicable) Salt Lake County (Zip Code) Utah  
(County) 40 45 37.59"N (State) 112 10' 13.32"W  
(Latitude) (Longitude)
- c. Distance from shore (if applicable) \_\_\_\_\_ ft.
- d. Depth below surface (if applicable) \_\_\_\_\_ ft.
- e. Average daily flow rate 3.0 mgd
- f. Does this outfall have either an intermittent or a periodic discharge?  
\_\_\_\_\_ Yes X No (go to A.9.g.)
- If yes, provide the following information:
- Number of times per year discharge occurs: \_\_\_\_\_
- Average duration of each discharge: \_\_\_\_\_
- Average flow per discharge: \_\_\_\_\_ mgd
- Months in which discharge occurs: \_\_\_\_\_
- g. Is outfall equipped with a diffuser? \_\_\_\_\_ Yes X No

**A.10. Description of Receiving Waters.**

- a. Name of receiving water Gilbert Bay
- b. Name of watershed (if known) Great Salt Lake
- United States Soil Conservation Service 14-digit watershed code (if known): \_\_\_\_\_
- c. Name of State Management/River Basin (if known): \_\_\_\_\_
- United States Geological Survey 8-digit hydrologic cataloging unit code (if known): \_\_\_\_\_
- d. Critical low flow of receiving stream (if applicable):  
acute N/A cfs chronic N/A cfs
- e. Total hardness of receiving stream at critical low flow (if applicable): \_\_\_\_\_ mg/l of CaCO<sub>3</sub>

FACILITY NAME AND PERMIT NUMBER:

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**WASTEWATER DISCHARGES:**

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

**A.9. Description of Outfall.**

- a. Outfall number 2 (Jordan River)
- b. Location West Jordan, UT 84088  
(City or town, if applicable) (Zip Code)  
Salt Lake Utah  
(County) (State)  
40 36' 5.58"N 111 55' 13.37"W  
(Latitude) (Longitude)
- c. Distance from shore (if applicable) 0 ft. (discharge on the west bank)
- d. Depth below surface (if applicable) 0 ft.
- e. Average daily flow rate see attached mgd  
flow scenarios
- f. Does this outfall have either an intermittent or a periodic discharge?  
 Yes  No (go to A.9.g.)  
 If yes, provide the following information:  
 Number of times per year discharge occurs: \_\_\_\_\_  
 Average duration of each discharge: \_\_\_\_\_  
 Average flow per discharge: \_\_\_\_\_ mgd  
 Months in which discharge occurs: \_\_\_\_\_
- g. Is outfall equipped with a diffuser?  Yes  No

**A.10. Description of Receiving Waters.**

- a. Name of receiving water Jordan River
- b. Name of watershed (if known) Jordan River  
 United States Soil Conservation Service 14-digit watershed code (if known): \_\_\_\_\_
- c. Name of State Management/River Basin (if known): \_\_\_\_\_  
 United States Geological Survey 8-digit hydrologic cataloging unit code (if known): \_\_\_\_\_
- d. Critical low flow of receiving stream (if applicable):  
 acute \_\_\_\_\_ cfs chronic \_\_\_\_\_ cfs
- e. Total hardness of receiving stream at critical low flow (if applicable): \_\_\_\_\_ mg/l of CaCO<sub>3</sub>

FACILITY NAME AND PERMIT NUMBER:

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**A.11. Description of Treatment.**

a. What levels of treatment are provided? Check all that apply.

Primary                       Secondary  
 Advanced                       Other. Describe: Reverse Osmosis (see attached)

b. Indicate the following removal rates (as applicable):

Design BOD<sub>5</sub> removal or Design CBOD<sub>5</sub> removal                      N/A %  
 Design SS removal                      N/A %  
 Design P removal                      N/A %  
 Design N removal                      N/A %  
 Other \_\_\_\_\_ %

c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

Not applicable

If disinfection is by chlorination, is dechlorination used for this outfall?    Not applicable    Yes     No

d. Does the treatment plant have post aeration?                       Yes                       No

**A.12. Effluent Testing Information.** All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: #1 Effluent testing was previously provided in 2003.

| PARAMETER            | MAXIMUM DAILY VALUE |       | AVERAGE DAILY VALUE |       |                   |
|----------------------|---------------------|-------|---------------------|-------|-------------------|
|                      | Value               | Units | Value               | Units | Number of Samples |
| pH (Minimum)         | 6                   | s.u.  |                     |       |                   |
| pH (Maximum)         | 8                   | s.u.  |                     |       |                   |
| Flow Rate            | 4.9                 | MGD   | 3.0                 | MGD   |                   |
| Temperature (Winter) | 16                  | C     |                     |       |                   |
| Temperature (Summer) | 16                  | C     |                     |       |                   |

\* For pH please report a minimum and a maximum daily value

| POLLUTANT | MAXIMUM DAILY DISCHARGE |       | AVERAGE DAILY DISCHARGE |       |                   | ANALYTICAL METHOD | ML / MDL |
|-----------|-------------------------|-------|-------------------------|-------|-------------------|-------------------|----------|
|           | Conc.                   | Units | Conc.                   | Units | Number of Samples |                   |          |

**CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.**

|  |        |     |  |  |  |  |  |
|--|--------|-----|--|--|--|--|--|
| BIOCHEMICAL OXYGEN DEMAND (Report one) | BOD-5  | N/A |  |  |  |  |  |
|  | CBOD-5 | N/A |  |  |  |  |  |
| FECAL COLIFORM                         |        | N/A |  |  |  |  |  |
| TOTAL SUSPENDED SOLIDS (TSS)           |        | N/A |  |  |  |  |  |

**END OF PART A.  
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

FACILITY NAME AND PERMIT NUMBER:

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**A.11. Description of Treatment.**

a. What levels of treatment are provided? Check all that apply.

Primary                       Secondary  
 Advanced                       Other. Describe: Reverse Osmosis (see attached)

b. Indicate the following removal rates (as applicable):

Design BOD<sub>5</sub> removal or Design CBOD<sub>5</sub> removal                      N/A %  
 Design SS removal                      N/A %  
 Design P removal                      N/A %  
 Design N removal                      N/A %  
 Other \_\_\_\_\_ %

c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

Not applicable

If disinfection is by chlorination, is dechlorination used for this outfall?    Not applicable    Yes     No

d. Does the treatment plant have post aeration?                       Yes                       No

**A.12. Effluent Testing Information.** All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: #2 Effluent testing was previously provided in 2003.

| PARAMETER            | MAXIMUM DAILY VALUE |       | AVERAGE DAILY VALUE |       |                   |
|----------------------|---------------------|-------|---------------------|-------|-------------------|
|                      | Value               | Units | Value               | Units | Number of Samples |
| pH (Minimum)         | 6                   | s.u.  |                     |       |                   |
| pH (Maximum)         | 8                   | s.u.  |                     |       |                   |
| Flow Rate            | 4.6                 | MGD   | 1.0                 | MGD   |                   |
| Temperature (Winter) | 16                  | C     |                     |       |                   |
| Temperature (Summer) | 16                  | C     |                     |       |                   |

\* For pH please report a minimum and a maximum daily value

| POLLUTANT | MAXIMUM DAILY DISCHARGE |       | AVERAGE DAILY DISCHARGE |       |                   | ANALYTICAL METHOD | ML / MDL |
|-----------|-------------------------|-------|-------------------------|-------|-------------------|-------------------|----------|
|           | Conc.                   | Units | Conc.                   | Units | Number of Samples |                   |          |
|           |                         |       |                         |       |                   |                   |          |

**CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.**

|  |        |     |  |  |  |  |  |
|--|--------|-----|--|--|--|--|--|
| BIOCHEMICAL OXYGEN DEMAND (Report one) | BOD-5  | N/A |  |  |  |  |  |
|  | CBOD-5 | N/A |  |  |  |  |  |
| FECAL COLIFORM                         |        | N/A |  |  |  |  |  |
| TOTAL SUSPENDED SOLIDS (TSS)           |        | N/A |  |  |  |  |  |

**END OF PART A.  
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

FACILITY NAME AND PERMIT NUMBER:

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## BASIC APPLICATION INFORMATION

### PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).

All applicants with a design flow rate  $\geq$  0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification):

**B.1. Inflow and Infiltration.** Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.

N/A gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

\_\_\_\_\_

\_\_\_\_\_

**B.2. Topographic Map.** Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)

- The area surrounding the treatment plant, including all unit processes.
- The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
- Each well where wastewater from the treatment plant is injected underground.
- Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
- Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
- If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.

**B.3. Process Flow Diagram or Schematic.** Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g. chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.

**B.4. Operation/Maintenance Performed by Contractor(s).**

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?  Yes  No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Responsibilities of Contractor: \_\_\_\_\_

**B.5. Scheduled Improvements and Schedules of Implementation.** Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)

- List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.  
Plant expansion planned for 2025. No changes planned for either Outfall.
- Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.  
 Yes  No

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c. If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).

d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

| Implementation Stage       | Schedule   | Actual Completion |
|----------------------------|------------|-------------------|
|                            | MM/DD/YYYY | MM/DD/YYYY        |
| - Begin construction       | __/__/__   | __/__/__          |
| - End construction         | __/__/__   | __/__/__          |
| - Begin discharge          | __/__/__   | __/__/__          |
| - Attain operational level | __/__/__   | __/__/__          |

e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained?  Yes  No

Describe briefly: Easement-Great Salt Lake; Utah Forestry, Fire and State Lands  
Stream Alteration-Great Salt Lake; Utah Water Rights

**B.6. EFFLUENT TESTING DATA (GREATER THAN 0.1 MGD ONLY).**

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall Number: #1

| POLLUTANT  | MAXIMUM DAILY DISCHARGE |       | AVERAGE DAILY DISCHARGE |       |                   | ANALYTICAL METHOD | ML / MDL |
|--|-------------------------|-------|-------------------------|-------|-------------------|-------------------|----------|
|  | Conc.                   | Units | Conc.                   | Units | Number of Samples |                   |          |
| <b>CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.</b> |                         |       |                         |       |                   |                   |          |
| AMMONIA (as N)                                     | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| CHLORINE (TOTAL RESIDUAL, TRC)                     | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| DISSOLVED OXYGEN                                   | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| TOTAL KJELDAHL NITROGEN (TKN)                      | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| NITRATE PLUS NITRITE NITROGEN                      | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| OIL and GREASE                                     | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| PHOSPHORUS (Total)                                 | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| TOTAL DISSOLVED SOLIDS (TDS)                       | 11,000                  | mg/L  | 8,000                   | mg/L  |                   |                   |          |
| OTHER Selenium                                     | 55.0                    | ug/L  | 44.7                    | ug/L  |                   |                   |          |

**END OF PART B.**

**REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

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c. If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).

d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

| Implementation Stage       | Schedule<br>MM / DD / YYYY | Actual Completion<br>MM / DD / YYYY |
|----------------------------|----------------------------|-------------------------------------|
| - Begin construction       | __ / __ / ____             | __ / __ / ____                      |
| - End construction         | __ / __ / ____             | __ / __ / ____                      |
| - Begin discharge          | __ / __ / ____             | __ / __ / ____                      |
| - Attain operational level | __ / __ / ____             | __ / __ / ____                      |

e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained?  Yes  No

Describe briefly: Easement-Jordan River; Utah Forestry, Fire and State Lands  
Stream Alteration-Jordan River; Utah Water Rights

**B.6. EFFLUENT TESTING DATA (GREATER THAN 0.1 MGD ONLY).**

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall Number: #2

| POLLUTANT  | MAXIMUM DAILY DISCHARGE |       | AVERAGE DAILY DISCHARGE |       |                   | ANALYTICAL METHOD | ML / MDL |
|--|-------------------------|-------|-------------------------|-------|-------------------|-------------------|----------|
|  | Conc.                   | Units | Conc.                   | Units | Number of Samples |                   |          |
| <b>CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.</b> |                         |       |                         |       |                   |                   |          |
| AMMONIA (as N)                                     | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| CHLORINE (TOTAL RESIDUAL, TRC)                     | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| DISSOLVED OXYGEN                                   | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| TOTAL KJELDAHL NITROGEN (TKN)                      | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| NITRATE PLUS NITRITE NITROGEN                      | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| OIL and GREASE                                     | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| PHOSPHORUS (Total)                                 | ND                      | mg/L  | ND                      | mg/L  |                   |                   |          |
| TOTAL DISSOLVED SOLIDS (TDS)                       | 1,100                   | mg/L  | 1,100                   | mg/L  |                   |                   |          |
| OTHER Selenium                                     | 7.9                     | ug/L  | 7.9                     | ug/L  |                   |                   |          |

**END OF PART B.**  
**REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

FACILITY NAME AND PERMIT NUMBER:

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**BASIC APPLICATION INFORMATION**

**PART C. CERTIFICATION**

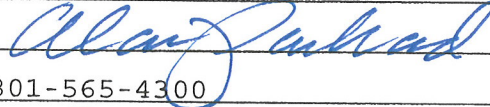
All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.

**Indicate which parts of Form 2A you have completed and are submitting:**

- |   |   |
|---|---|
| <input type="checkbox"/> Basic Application Information packet | <input type="checkbox"/> Supplemental Application Information packet:               |
|   | <input type="checkbox"/> Part D (Expanded Effluent Testing Data)                    |
|   | <input type="checkbox"/> Part E (Toxicity Testing: Biomonitoring Data)              |
|   | <input type="checkbox"/> Part F (Industrial User Discharges and RCRA/CERCLA Wastes) |
|   | <input type="checkbox"/> Part G (Combined Sewer Systems)                            |

**ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, 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.

Name and official title Alan E. Packard, Asst. General Mgr. and Chief Engineer  
Signature   
Telephone number 801-565-4300  
Date signed 8-16-2000

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

**SEND COMPLETED FORMS TO:**