

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

TIME SCHEDULE ORDER R5-2018-0900  
WESTLAKE FARMS, INC., SANDRIDGE PARTNERS LP, CITY OF LEMOORE,  
AND LEPRINO FOODS COMPANY,  
KINGS COUNTY

The California Regional Water Quality Control Board, Central Valley Region, (Central Valley Water Board or Board) finds that:

**The City of Lemoore's Discharge**

1. Waste Discharge Requirements (WDRs) Order 96-050 authorizes the discharge of disinfected effluent from the City of Lemoore's (City) wastewater treatment facility (WWTF) to the Westlake Canal. The City's WWTF was designed to treat both domestic and industrial wastes. Industrial wastes include wastewater from cheese processing plants, a textile plant, and a tomato processing plant. The domestic and industrial waste streams are commingled and discharged at the head of the Westlake Canal, which is about 6 miles from the WWTF.
2. The Leprino Foods Company (Leprino) historically relied on the WWTF to treat the wastewater generated at its Lemoore cheese processing plants. However, Leprino currently treats its process wastewater at its processing facility. After treatment, Leprino's wastewater is transported to the WWTF, where it is combined with the WWTF's domestic waste stream before the combined waste streams ("Combined Discharge") are disinfected and discharged to the Westlake Canal.
3. The discharge to the Westlake Canal was increased to approximately 4.5 million gallons per day (mgd) in accordance with the complete Report of Waste Discharge submitted by the City and Leprino in October 2001, following completion of Leprino's treatment system upgrade and construction of a new outfall pipeline to handle the increased flows.
4. Westlake Farms, Inc. (Westlake) receives the Combined Discharge under an agreement with the City dated 8 January 1996. Westlake recycles the wastewater, using the treated wastewater to irrigate crops grown on agricultural lands as shown in Attachment A, which is attached hereto and made a part of this Order by reference. This land is now owned as part of a tenancy in common consisting of Westlake Farms, Inc. and Sandridge Partners, LP.
5. As described in the findings below, the salinity in the Combined Discharge does not meet the limit set by WDRs Order 96-050.

**Compliance Issues**

6. WDRs Order 96-050 contains Discharge Specification B.8, which states, in relevant part:

The maximum electrical conductivity (EC) of the discharge shall not exceed the average EC of the source water plus 500 umhos/cm.

The average EC of the City's source water is about 700 umhos/cm, and therefore the Combined Discharge to the Westlake Canal is required to meet a limit of about 1,200 umhos/cm.

7. The effluent quality for the discharge from the City’s WWTF and the Leprino facility (prior to the comingling of the two waste streams) is summarized in Table 1, below. The results for biochemical oxygen demand (BOD), EC, and total suspended solids (TSS) were collected from January 2014 through December 2016. The EC results for the WWTF are from weekly sampling events, while the BOD and TSS results are from twice-weekly sampling events. Leprino’s EC and TSS results are from daily sampling events and the BOD results were collected twice a week. The upper number is the average and the range is shown below in parentheses.

**Table 1 - Lemoore WWTF & Leprino Effluent Water Quality**

| <u>Constituents</u>       | <u>Units</u> <sup>1</sup> | <u>WWTF Effluent</u>   | <u>Leprino Effluent</u>  |
|---------------------------|---------------------------|------------------------|--------------------------|
| Electrical Conductivity   | umhos/cm                  | 1,190<br>(994 – 1,616) | 2,691<br>(1,886 – 3,960) |
| Biochemical Oxygen Demand | mg/L                      | 28<br>(5.4 – 73)       | 11<br>(1 – 45)           |
| Total Suspended Solids    | mg/L                      | 42<br>(1 – 160)        | 15<br>(1 – 98)           |

<sup>1</sup> umhos/cm = micromhos per centimeter, mg/L = milligrams per liter.

8. The Combined Discharge quality is summarized in Table 2, below. The results are from January 2014 through December 2016, and the sampling frequency and the presentation of the data is the same as discussed in Finding 7.

**Table 2 – Combined Discharge Effluent Water Quality**

| <u>Constituents</u>       | <u>Units</u> <sup>1</sup> | <u>Effluent</u>          |
|---------------------------|---------------------------|--------------------------|
| Electrical Conductivity   | umhos/cm                  | 2,133<br>(1,140 – 2,702) |
| Biochemical Oxygen Demand | mg/L                      | 12<br>(1.3 – 38)         |
| Total Suspended Solids    | mg/L                      | 24<br>(6.6 – 120)        |

<sup>1</sup> umhos/cm = micromhos per centimeter, mg/L = milligrams per liter.

9. Comparing the results shown in Table 1 to those in Table 2 shows that the BOD and TSS results are lower when the City’s treated domestic wastewater is combined with Leprino’s treated wastewater. However, the commingled EC has increased to over 2,100 micromhos per centimeter (umhos/cm). This exceeds the limit set by Discharge Specification B.8 of WDRs Order 96-050 (see Finding No. 6).
10. WDRs Order 96-050 contains Discharge Prohibition A.1, which states, in relevant part:

Discharge of wastes to surface waters or surface water drainage courses other than the irrigation canal [Westlake Canal] specified in Finding No. 8 is prohibited.

Due to the excessive salinity in the Combined Discharge, Westlake has indicated that it will discontinue its use of the Combined Discharge for irrigation purposes. However, routing the Combined Discharge to alternate land application areas for disposal, as described below, may result in violations of WDRs Order 96-050 Discharge Prohibition A.1.

### **Interim Solution**

11. This Order describes steps that the Dischargers will take in order to correct potential violations of Discharge Prohibition A.1 and Discharge Specification B.8. This Order is being issued to provide regulatory coverage for an interim solution to wastewater disposal issues while a long-term permitting solution is being developed.
12. As an interim solution, until the salinity issues are resolved, Sandridge Partners, LP (Sandridge), Leprino and the City propose to isolate and route the Combined Discharge to a new discharge point through Westlake's canal network to an area (the "Interim Application Area") just outside of the existing land application area identified in WDRs 96-050.
13. The proposed Interim Application Area is owned by Sandridge, and comprises approximately 2,900 net acres of farmland legally described as all of that real property, situated in the County of Kings, State of California, described as follows: all of Sections 30 and 31, and the south half of Section 32, in Township 22 South, Range 20 East Mount Diablo Baseline and Meridian (MDB&M), together with all of Sections 5, 6, and 8, in Township 23 South, Range 20 East MDB&M, lying northerly of the Blakeley Canal; excepting therefrom the east half of the east half of the east half of the east half of said Section 32; also excepting therefrom that portion of the north half of said Section 6 lying southwesterly of the Meander Line of Tulare Lake surveyed by W.H. Norway, according to the U.S. Government Plat dated 14 October 1884 as shown in Attachment B and made a part of this Order by reference.
14. To reach the Interim Application Area, the Combined Discharge will be isolated and routed from the current discharge point south along the path as shown on Attachment C [i.e., generally, via the existing drainage canal/ditch that runs down the eastern edge of Sections 13, 24, 25, and 36 of Township 21 South, Range 19 East MDB&M, and the eastern edge of Sections 1, 12, 13, 24, 25, and 36 of Township 22 South, Range 19 East MDB&M (the "Westlake Main Drain")]. Portions of this route are owned or controlled by others including the Tulare Lake Reclamation District 761 and County Sanitation Districts No. 2 of Los Angeles County (Sanitation District). The TSO requires the Dischargers to provide copies of all leases, agreements, or easements needed to cross lands not owned or controlled by the Dischargers prior to routing the Combined Discharge to the Interim Application Area. A portion of this path (i.e., the portion that crosses Section 13, Township 22 South, Range 19 East MDB&M) is owned by the Sanitation District. A License Agreement will be obtained from the Sanitation District for that portion of the path. As part of this License Agreement, Sandridge will construct necessary improvements to handle tile drainage water from Sanitation District's lands to keep it separate and ensure that it can reach the South Evaporation Basins regulated by WDRs 97-263 without comingling with the Combined Discharge.
15. The proposed Interim Application Area is currently fallow, but has been farmed in the past. Leprino, in conjunction with Sandridge, proposes to apply the Combined Discharge to the Interim Application Area at agronomic rates to irrigate salt-tolerant fodder crops (e.g., Jose

tall grass, barley/oats, or similar crops) and to either harvest the crop or use it for grazing of non-milking cattle.

16. Water Code section 13300, states:

Whenever a regional board finds that a discharge of waste is taking place or threatening to take place that violates or will violate requirements prescribed by the regional board, or the state board ... the board may require the discharger to submit for approval of the board, with such modifications as it may deem necessary, a detailed time schedule of specific actions the discharger shall take in order to correct or prevent a violation of requirements.

17. Westlake Farms, Inc., Sandridge Partners, LP, the City of Lemoore, and Leprino Foods Company are named in this order because the named entities are either regulated under WDRs Order 96-050 or own or will lease land where the wastewater regulated by WDRs Order 96-050 will be discharged.
18. At 4.5 million gallons per day, the City and Leprino generate roughly 14 acre-feet of wastewater per day or about 5,110 acre-feet per year. With approximately 2,900 acres, the hydraulic load from the wastewater would be about 21 inches per acre per year. Based on the water balance and Nutrient Management Plan signed by Michael J. Ransom (RCE C77157), a California registered civil engineer and Louis Oliveira a certified crop advisor (#17275) with JM Lord, Inc., it appears that the Interim Application Area will have sufficient acreage to handle wastewater flows from the City and Leprino at reasonable agronomic rates.
19. The proposed interim discharge will be temporary (i.e., two years) and is consistent with the discharge allowed by WDRs 96-050 on land adjacent to and of similar quality.
20. The proposed Interim Application Area is in an area of poor quality groundwater within the historic Tulare Lake Bed. A Basin Plan amendment to remove the Municipal and Domestic supply (MUN) and Agricultural (AGR) beneficial uses for groundwater within this portion of the historic Tulare Lake Bed was approved by the Central Valley Water Board on 6 April 2017 and by the State Water Resources Control Board on 6 September 2017, and received final approval from the Office of Administrative Law (OAL) on 26 December 2017.
21. The Tulare Lake Bed may flood during very wet years. However, there are levees and flood control features to minimize flooding in the area. Historical aerial photographs of the area show that during the last historical floods in 1969 and 1983 no flood waters were reported in the area of the proposed Interim Application Area west of the South Central Levee. This Order prohibits discharge to surface waters and requires the Dischargers to prevent runoff from leaving the Interim Application Area.
22. This Order provides for an interim disposal option that is protective of public health and water quality and establishes a time schedule to bring the Combined Discharge into compliance with applicable effluent limitations that is as short as practicable, taking into account the technological, operational, and economic factors that affect the design, development, and implementation of the control measures that are necessary to comply with the effluent limitations.

23. This Order is accompanied by a Monitoring and Reporting Program, **R5-2018-0900** which contains specific monitoring and reporting requirements for the City, Leprino, and Sandridge.
24. Water Code section 13267, states, in part, that:

In conducting an investigation ... the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region ... shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.

The technical reports required by this Order are necessary to ensure compliance with this Time Schedule Order, and to assure protection of the public health and safety. The persons named in this Order own and/or operate the facilities that discharge the wastes subject to this Order.

25. In accordance with California Business and Professions Code sections 6735, 7835, and 7835.1, engineering and geologic evaluations and judgments shall be performed by or under the direction of registered professionals competent and proficient in the fields pertinent to the required activities. All technical reports specified herein that contain work plans for investigations and studies, that describe the conduct of investigations and studies, or that contain technical conclusions and recommendations concerning engineering and geology shall be prepared by or under the direction of appropriately qualified professional(s), even if not explicitly stated. Each technical report submitted by the Dischargers shall bear the professional's signature and stamp.
26. The issuance of this Order is an enforcement action by a regulatory agency, and therefore, is exempt from the provisions of the California Environmental Quality Act, pursuant to California Code of Regulations, title 14, section 15321(a) (2).

**IT IS HEREBY ORDERED** that, pursuant to sections 13300 and 13267 of the California Water Code, Westlake Farms, Inc., Sandridge Partners LP, the City of Lemoore, and Leprino Foods Company, their agents, successors, and assigns, shall:

1. The City and Leprino shall comply with WDRs Order 96-050, including Discharge Prohibition A.1 and Discharge Specification B.8, **by 26 March 2020 in accordance with the following compliance schedule.**

| <u>Task</u> | <u>Task Description</u>  |
|-------------|--|
| a.          | <b>By 26 March 2019:</b> the City and Leprino shall provide an update on the status of the Project.  |
| b.          | <p><b>By 26 March 2020:</b></p> <ol style="list-style-type: none"> <li>1. The City and Leprino shall ensure the Combined Discharge complies with the EC limits prescribed in WDRs Order 96-050, Discharge Specification B.8 (source water plus 500 umhos/cm) and begin discharging in compliance with WDRs Order 96-050 or any revision authorized by changes to the Water Quality Control Plan for the Tulare Lake Basin that were effectuated by the CV-SALTS process; or</li> <li>2. The City and Leprino together or separately shall submit a complete Report(s) of Waste Discharge (RWD) with supporting technical information to discharge to an alternate discharge location at least <b>140 days</b> prior to the end of this Time Schedule Order or receive Waste Discharge Requirements authorizing such a discharge. The RWD needs to address compliance with the Basin Plan limit for EC of 500 umhos/cm over source water or demonstrate that it meets an exemption to the limit.</li> </ol> |

2. **Prior to initiating the discharge** to the Interim Application Area the City shall submit an addendum to its Title 22 Engineering Report for use of the proposed lands and receive approval from the State Water Resources Control Board's Division of Drinking Water (or DDW).
3. **Prior to initiating the discharge**, the Dischargers shall submit copies of the signed agreements and certification of the completion of all necessary improvements allowing the discharge and movement of the Combined Discharge to the Interim Application Area to the Central Valley Water Board. This includes all agreements, leases, or easements to cross any land not owned or controlled by the Dischargers (i.e., Tulare Lake Reclamation District 761 and LA County Sanitation District No. 2).
4. For the life of this Time Schedule Order, the Dischargers (i.e., Sandridge, Leprino, and the City) shall manage the discharge of secondary disinfected wastewater from the City and Leprino (i.e., Combined Discharge or recycled water) to the Interim Application Area in accordance with the following prohibitions and specifications:
  - a. The discharge of recycled water to surface waters other than the open canals/ditches described in Finding 14 used to route the discharge to the Interim Application Area is prohibited.
  - b. The monthly average discharge shall not exceed 4.5 mgd.
  - c. The discharge of recycled water to lands other than the Interim Application Area as defined in this Time Schedule Order or the land identified in WDRs 96-050 is prohibited.
  - d. The comingling of tile drainage water and the Combined Discharge is prohibited.

- e. The comingling of the Combined Discharge with water not intended for use in the Interim Application Area is prohibited.
  - f. The use of recycled water shall be limited to flood irrigation of fodder, fiber, and seed crops for non-human consumption, or for grazing of non-milking cattle. Alternate methods of irrigation may be allowed upon the written approval of the Executive Officer. Requests for authorization of alternative irrigation practices must be accompanied by a workplan demonstrating that such methods are consistent with the applicable requirements of Title 22 of the California Code of Regulations.
  - g. Recycled water shall be applied at reasonable agronomic rates to preclude the creation of nuisance or odor conditions considering the crop, soil, climate, and method of irrigation.
  - h. Cattle within the land application area shall be provided with fresh drinking water and will not be allowed to graze on land being actively irrigated with recycled water.
  - i. All recycled water and supplemental irrigation water shall be controlled and managed (i.e., tail water ponds, berms, etc.) to prevent runoff from leaving the land application areas.
5. The Dischargers (i.e., Sandridge, Leprino, and the City) shall ensure public contact with recycled water is controlled using signs and/or other appropriate means. Signs of a size no less than four inches high by eight inches wide with proper wording (shown below) shall be placed at all areas of public access and around the perimeter of all areas used for effluent disposal or conveyance to alert the public of the use of recycled water.

**“RECYCLED WATER – DO NOT DRINK”**

**“AGUA DE DESPERDICIO RECLAMADA – POR FAVOR NO TOME”**

6. The Dischargers (i.e., Sandridge, Leprino, and the City) shall maintain the following setback distances from areas irrigated with recycled water:

| <u>Setback Distance (feet)</u> | <u>To</u>        |
|--------------------------------|------------------|
| 50                             | Property Line    |
| 50                             | Public Roads     |
| 50                             | Drainage courses |
| 100                            | Irrigation wells |
| 100                            | Domestic wells   |

If, for any reason, any Discharger is unable to perform any activity or submit any document in compliance with the time schedule set forth herein, or in compliance with any work schedule submitted pursuant to this Order and approved by the Executive Officer, that Discharger may request, in writing, an extension of the time specified not to exceed one year. The extension request shall include justification for the delay. An extension may be granted by revision of this Order or by letter from the Executive Officer.

If, in the opinion of the Executive Officer, the Dischargers violate this Order, the Executive Officer may refer the matter to the Attorney General for judicial enforcement or alternately issue a formal complaint for Administrative Civil Liability.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The petition must be received by the State Water Board Office of the Chief Counsel, P.O. Box 100, Sacramento, California 95812-0100, within 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

[http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality/](http://www.waterboards.ca.gov/public_notices/petitions/water_quality/)

or will be provided upon request.

This Order is issued under authority delegated to the Executive Officer and her deputies by the Central Valley Water Board pursuant to Resolution R5-2009-0027 and is effective upon signature.

*Original Signed by*

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PAMELA C. CREEDON, Executive Officer

27 March 2018

\_\_\_\_\_  
(Date)

Attachments

Attachment A: Site Vicinity Map

Attachment B: Interim Application Area Map

Attachment C: Route of Combined Discharge to Interim Application Area  
Information Sheet

Monitoring and Reporting Program R5-2018-0900



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2018-0900  
FOR  
WESTLAKE FARMS, INC., SANDRIDGE PARTNERS, LP, CITY OF LEMOORE  
AND LEPRINO FOODS COMPANY  
KINGS COUNTY

This Monitoring and Reporting Program (MRP) is being issued pursuant to Water Code section 13267.

Water Code section 13267 states, in part:

“In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region ... shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.”

Westlake Farms, Inc., Sandridge Partners, LP, the City of Lemoore, and Leprino Foods Company (collectively referred to as “Dischargers”) are named in this monitoring and reporting program because this MRP is intended to provide information to the Board regarding compliance with Waste Discharge Requirements (WDRs) Order 96-050<sup>1</sup>, and the named entities are either regulated under WDRs Order 96-050 or own land where the wastewater regulated by WDRs Order 96-050 will be discharged. The Dischargers shall not implement any changes to this MRP unless and until the Central Valley Water Board adopts, or the Executive Officer issues, a revised MRP. Changes to sample location(s) shall be established with concurrence of Central Valley Water Board staff, and a description of the revised stations shall be submitted for approval by the Executive Officer.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Regional Water Board staff. All analyses shall be performed in accordance with Standard Provisions and Reporting Requirements for Waste Discharge Requirements dated 1 March 1991 (Standard Provisions).

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Resources Control Board (State Water Board) Environmental Laboratory Accreditation Program certified laboratory, or:

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<sup>1</sup> The Central Valley Water Board understands that the point at which the wastewater will be disposed of is anticipated to change from lands owned or operated by Westlake Farms, Inc. and Sandridge Partners, LP as part of a tenancy in common to lands owned solely by Sandridge Partners, LP.

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are maintained and available for at least three years.

If monitoring consistently shows no significant variation in magnitude of a constituent concentration or parameter after at least 12 months of monitoring, the Discharger may request this MRP be revised to reduce monitoring frequency. The proposal must include adequate technical justification for reduction in monitoring frequency.

A glossary of terms used within this MRP is included on page 7.

The Discharger shall monitor the following locations to demonstrate compliance with the requirements of this Order:

| Monitoring Point Name              | Monitoring Location Description  |
|------------------------------------|--|
| <b>Combined Discharge (CBD-01)</b> | Location where a representative sample of the "Combined Discharge" from the City of Lemoore and Leprino Foods Company can be obtained prior to discharge to the land application area. |
| <b>LAA-001</b>                     | Land Application Area.   |

### DISCHARGE MONITORING

The Dischargers shall monitor the quality of the "Combined Discharge" at CBD-01 after being combined but prior to discharge at the land application area. The wastewater samples shall be representative of the volume and nature of the discharges. Time of collection of the samples shall be recorded. Discharge monitoring shall include at least the following:

| <u>Frequency</u> | <u>Constituent/Parameter</u> | <u>Units</u> | <u>Sample Type</u> |
|------------------|------------------------------|--------------|--------------------|
| Monthly          | Total Dissolved Solids       | mg/L         | Grab               |
| Monthly          | Fixed Dissolved Solids       | mg/L         | Grab               |
| Monthly          | Nitrate as Nitrogen          | mg/L         | Grab               |
| Monthly          | Nitrite as Nitrogen          | mg/L         | Grab               |
| Monthly          | Ammonia as Nitrogen          | mg/L         | Grab               |
| Monthly          | Total Kjeldahl Nitrogen      | mg/L         | Grab               |
| Monthly          | Total Nitrogen               | mg/L         | Grab               |
| Monthly          | Sodium                       | mg/L         | Grab               |
| Monthly          | Chloride                     | mg/L         | Grab               |

### LAND APPLICATION AREA MONITORING

The Dischargers shall perform the following monitoring and loading calculations for each field within the land application area at LAA-01. The data shall be collected and presented in both a graphical (map) and tabular format and submitted in quarterly monitoring reports that shall include at least the following:

| <u>Frequency</u>                           | <u>Constituent/Parameter</u>         | <u>Units</u>      | <u>Sample Type</u>     |
|--|--------------------------------------|-------------------|------------------------|
| Daily                                      | Application area (i.e., Field #)     | Acres             | n/a                    |
| Daily                                      | Wastewater flow                      | Gallons           | Metered                |
| Daily                                      | Wastewater loading                   | Inches/day        | Metered                |
| Daily                                      | Fresh water                          | Inches/day        | Metered                |
| Daily                                      | Precipitation                        | Inches            | Rain gage <sup>1</sup> |
| Month                                      | Total Hydraulic loading <sup>2</sup> | Inches/acre-month | Calculated             |
| <u>BOD<sub>5</sub> loading<sup>3</sup></u> |                                      |                   |                        |
| Monthly                                    | From wastewater                      | lbs/ac/month      | Calculated             |
| <u>Nitrogen loading<sup>4</sup></u>        |                                      |                   |                        |
| Monthly                                    | From wastewater                      | lbs/ac/month      | Calculated             |
| Monthly                                    | From fertilizers                     | lbs/ac/month      | Calculated             |
| <u>Salt loading<sup>4</sup></u>            |                                      |                   |                        |
| Monthly                                    | From wastewater                      | lbs/ac/month      | Calculated             |

1. National Weather Service or CIMIS data from the nearest weather station is acceptable.
2. Combined loading from wastewater, fresh water, and precipitation for the month.
3. BOD<sub>5</sub> loading shall be calculated monthly using the applied volume of wastewater, applied acreage, and monthly average effluent BOD<sub>5</sub> concentrations for the Combined Discharge taken as part of the monitoring and reporting requirements for Order 96-050.
4. Nitrogen, and salt loading shall be calculated monthly using the applied volume of wastewater, applied acreage, and monthly effluent concentrations for total nitrogen, and FDS, respectively, for the month.

The quarterly monitoring reports shall also identify the type of crops grown on each parcel and when the fields are planted and the crops harvested. In addition, the Discharger shall inspect the land application areas weekly for evidence of erosion, field saturation, runoff, or the presence of nuisance conditions (i.e., flies, ponding, etc.). The results shall be noted in field logs and included as part of the quarterly monitoring reports.

### REPORTING

All monitoring results shall be reported in **Quarterly Monitoring Reports**, which are due by the first day of the second month after the calendar quarter. Therefore, monitoring reports are due as follows:

- First Quarter Monitoring Report: **1 May**
- Second Quarter Monitoring Report: **1 August**
- Third Quarter Monitoring Report: **1 November**
- Fourth Quarter Monitoring Report: **1 February.**

The Central Valley Water Board has gone to a Paperless Office System. All regulatory documents, submissions, materials, data, monitoring reports, and correspondence shall be

converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be mailed to: [centralvalleyfresno@waterboards.ca.gov](mailto:centralvalleyfresno@waterboards.ca.gov). Documents that are 50MB or larger should be transferred to a disc and mailed to the appropriate regional water board office, in this case 1685 E Street, Fresno, CA, 93706.

To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office:

Program: Non-15, WDID: 5D160104001, Facility Name: Interim Application Area,  
Time Schedule Order: R5-2018-0900.

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. In addition to the details specified in Standard Provision C.3, monitoring information shall include the method detection limit (MDL) and the Reporting limit (RL) or practical quantitation limit (PQL). If the regulatory limit for a given constituent is less than the RL (or PQL), then any analytical results for that constituent that are below the RL (or PQL) but above the MDL shall be reported and flagged as estimated.

Laboratory analysis reports do not need to be included in the monitoring reports; however, the laboratory reports must be retained for a minimum of three years in accordance with Standard Provision C.3.

All monitoring reports shall comply with the signatory requirements in Standard Provision B.3. For a Discharger conducting any of its own analyses, reports must also be signed and certified by the chief of the laboratory.

All monitoring reports that involve planning, investigation, evaluation, or design, or other work requiring interpretation and proper application of engineering or geologic sciences, shall be prepared by or under the direction of persons registered to practice in California pursuant to California Business and Professions Code sections 6735, 7835, and 7835.1.

**A. All Quarterly Monitoring Reports** shall include the following:

**Discharge Monitoring Reporting:**

1. Tabulated results of sampling required of the "Combined Discharge" specified on page 2.

**Land Application Area Monitoring Reporting:**

1. The results of monitoring and loading calculations specified on page 3.
2. Calculation of the hydraulic load for wastewater and fresh irrigation water to the land application area in gallons and/or acre-inches.
3. A summary of the notations made in the log book during each quarter. The entire contents of the log do not need to be submitted.

4. A map identifying the fields receiving wastewater and what crops are being grown for each month in the quarter.

**B. Fourth Quarter Monitoring Reports**, in addition to the above, shall include the following:

**Facility Information:**

1. The names and telephone numbers of persons to contact regarding the discharge for emergency and routine situations.
2. A statement certifying when the flow meter and other monitoring instruments and devices were last calibrated, including identification of who performed the calibrations (Standard Provision C.4).
3. A summary of any changes in processing that might affect waste characterization and/or discharge flow rates.

**Discharge Monitoring Reporting:**

1. A summary of tabulated results of effluent monitoring specified on page 2.

**Land Application Area Reporting:**

1. The type of crop(s) grown growing within the land application area by field including planting and harvest dates, and the quantified nitrogen and fixed dissolved solids uptakes including potassium (as estimated by technical references or, preferably, determined by representative plant tissue analysis).
2. The monthly and annual discharge volumes by field during the reporting year expressed as million gallons and inches.
3. The total pounds of biochemical oxygen demand (BOD<sub>5</sub>) applied to the land application areas as wastewater in lbs/acre/day for each field, as calculated from the sum of the monthly mass loadings.
4. The total pounds of nitrogen applied to the land application area as wastewater and fertilizer in lbs/acre-year for each field, as calculated from the sum of the monthly mass loadings.
5. The total pounds of fixed dissolved solids (FDS) that have been applied to the land application areas in lbs/acre-year for each field, as calculated from the sum of the monthly mass loadings.

A letter shall accompany each monitoring report. The letter shall report violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Discharger or the Discharger's authorized agent:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the those individuals immediately responsible for obtaining the information, I believe that the

MONITORING AND REPORTING PROGRAM R5-2018-0900  
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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.”

The Dischargers shall implement the above monitoring program as of the date of this MRP.

Ordered by: Original Signed by

\_\_\_\_\_  
PAMELA C. CREEDON, Executive Officer

27 March 2018  
\_\_\_\_\_

(Date)

### GLOSSARY

|                   |  |
|-------------------|--|
| BOD <sub>5</sub>  | Five-day biochemical oxygen demand   |
| CBOD              | Carbonaceous BOD   |
| DO                | Dissolved oxygen   |
| EC                | Electrical conductivity at 25° C   |
| FDS               | Fixed dissolved solids   |
| NTU               | Nephelometric turbidity unit   |
| TKN               | Total Kjeldahl nitrogen  |
| TDS               | Total dissolved solids   |
| TSS               | Total suspended solids   |
| Continuous        | The specified parameter shall be measured by a meter continuously.   |
| 24-Hour Composite | Unless otherwise specified or approved, samples shall be a flow-proportioned composite consisting of at least eight aliquots.  |
| Daily             | Samples shall be collected every day.  |
| Twice Weekly      | Samples shall be collected at least twice per week on non-consecutive days.  |
| Weekly            | Samples shall be collected at least once per week.   |
| Twice Monthly     | Samples shall be collected at least twice per month during non-consecutive weeks.  |
| Monthly           | Samples shall be collected at least once per month.  |
| Bimonthly         | Samples shall be collected at least once every two months (i.e., six times per year) during non-consecutive months   |
| Quarterly         | Samples shall be collected at least once per calendar quarter. Unless otherwise specified or approved, samples shall be collected in January, April, July, and October.        |
| Semiannually      | Samples shall be collected at least once every six months (i.e., two times per year). Unless otherwise specified or approved, samples shall be collected in April and October. |
| Annually          | Samples shall be collected at least once per year. Unless otherwise specified or approved, samples shall be collected in October.  |
| mg/L              | Milligrams per liter   |
| mL/L              | Milliliters [of solids] per liter  |
| µg/L              | Micrograms per liter   |
| µmhos/cm          | Micromhos per centimeter   |
| mgd               | Million gallons per day  |
| MPN/100 mL        | Most probable number [of organisms] per 100 milliliters  |
| General Minerals  | Analysis for General Minerals shall include at least the following:  |
|                   | Alkalinity                      Chloride                      Sodium   |
|                   | Bicarbonate                      Hardness                      Sulfate   |
|                   | Calcium                      Magnesium                      TDS  |
|                   | Carbonate                      Potassium   |
|                   | General Minerals analyses shall be accompanied by documentation of cation/anion balance.   |

## INFORMATION SHEET

TIME SCHEDULE ORDER R5-2018-0900  
WESTLAKE FARMS, INC., SANDRIDGE PARTNERS LP,  
CITY OF LEMOORE, AND LEPRINO FOODS COMPANY  
KINGS COUNTY

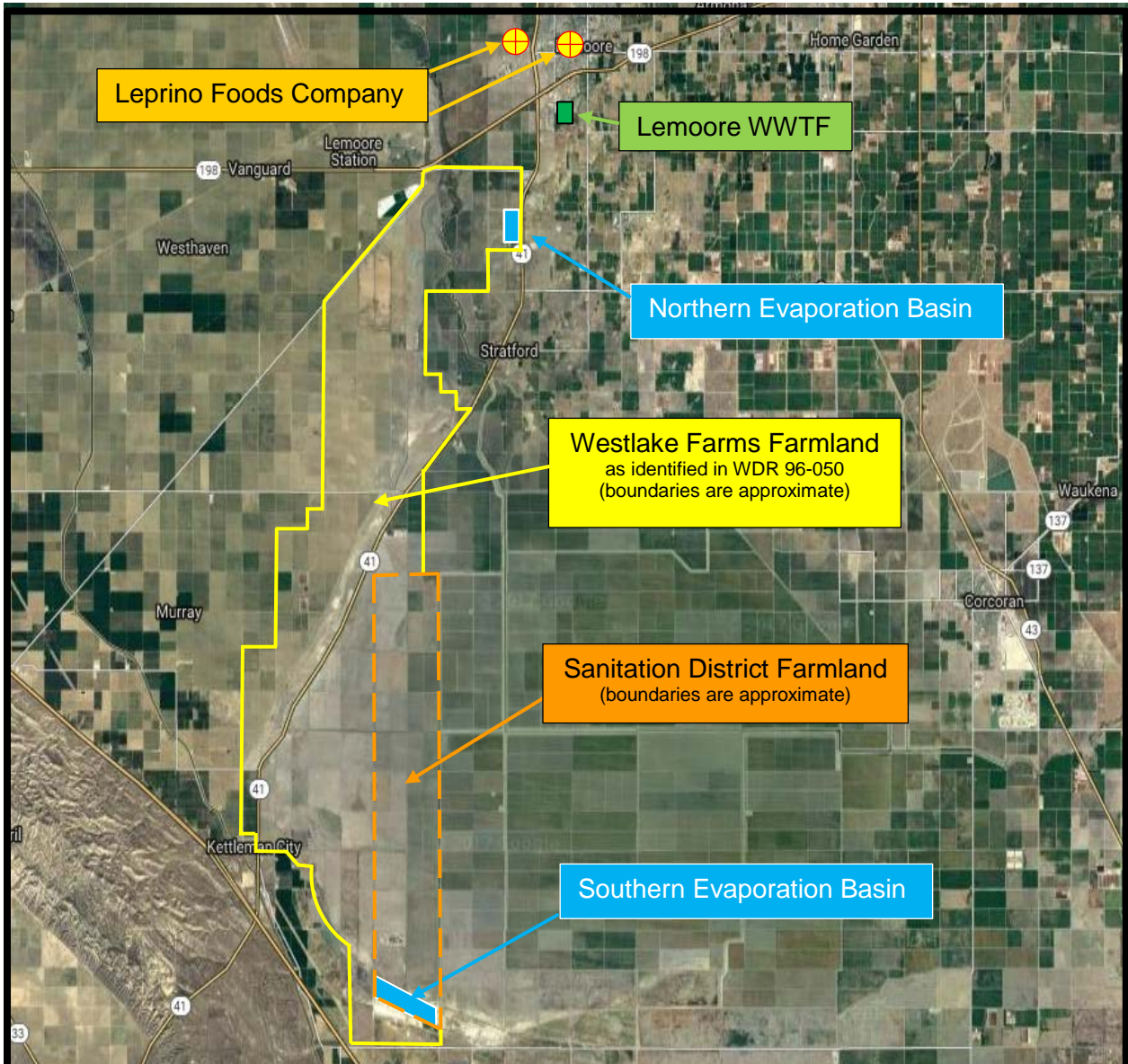
Waste Discharge Requirements (WDRs) Order 96-050 authorizes the Combined Discharge of disinfected effluent from the City of Lemoore's (City) wastewater treatment facility (WWTF) and Leprino Food Company's (Leprino) industrial process wastewater to the Westlake Canal for irrigation of fiber and grain crops not intended for human consumption on property owned by Westlake Farms, Inc. (Westlake). Westlake has indicated that it will discontinue its use of the effluent for irrigation due to the increased salinity of the Combined Discharge, which exceeds the limit for electrical conductivity (EC) specified in WDRs 96-050, and could damage salt sensitive crops. Westlake has proposed to route the Combined Discharge separately and apply it to approximately 3,800 acres outside of those areas specified in WDRs 96-050 owned by Sandridge Partners LP (Sandridge) for irrigation of salt tolerant fodder crops (e.g., Jose tall grass, barley/oats, or similar crops). The proposed Interim Application Area is in an area underlain by poor quality groundwater within the historic Tulare Lake Bed. A Basin Plan amendment to remove the Municipal and Domestic supply (MUN) and Agricultural (AGR) beneficial uses for groundwater within this portion of the Tulare Lake Bed has been adopted and approved.

This Time Schedule Order would provide for the proposed interim disposal option and sets a two-year time schedule for the City and Leprino to bring the Combined Discharge into compliance with applicable effluent limits in WDRs 96-050 or to arrange for an alternative disposal option.

One issue with the interim disposal is obtaining the necessary approvals to route the Combined Discharge through lands not owned or controlled by the Dischargers including those owned by the County Sanitation District No. 2 of Los Angeles County (Sanitation District) and Tulare Lake Reclamation District 761, and ensure that the use of the canals for transport of wastewater is separate from water including tile drainage water not being sent to the Interim Application Area. The Parties are currently working on Agreements to ensure this. The Combined Discharge would not be routed through the Sanitation District's land or others until these agreements are finalized.

Concerns were expressed by an adjacent property owner (J.G. Boswell) that the proposed Interim Application Area is prone to flooding and use of these lands for application of wastewater during flood events could impact adjacent crops used for human consumption (e.g., tomatoes). The Tulare Lake bottom including the Interim Application Area may flood during major flood events. However, major flood events are rare and there are levees and flood control features in place to minimize flooding in the area. This Time Schedule Order requires that all wastewater be kept within the Interim Application Area at all times. In addition, the agreement between Leprino and Sandridge includes a provision requiring Sandridge to arrange for an alternate disposal area for the Combined Discharge in the event of a major flood event within the lands regulated by WDRs 96-050 that are owned by Sandridge. J.G. Boswell also expressed concerns, that poor farming practices on the adjacent lands have caused problems to their operations in the past and that the proposed farming of the interim land application area so close to their property may make things worse. This Time Schedule Order requires that the wastewater be applied at agronomic rates to preclude the creation of nuisance or odor conditions. Failure to comply with the conditions in the Time Schedule Order could result in further enforcement and/or fines.





## SITE VICINITY MAP

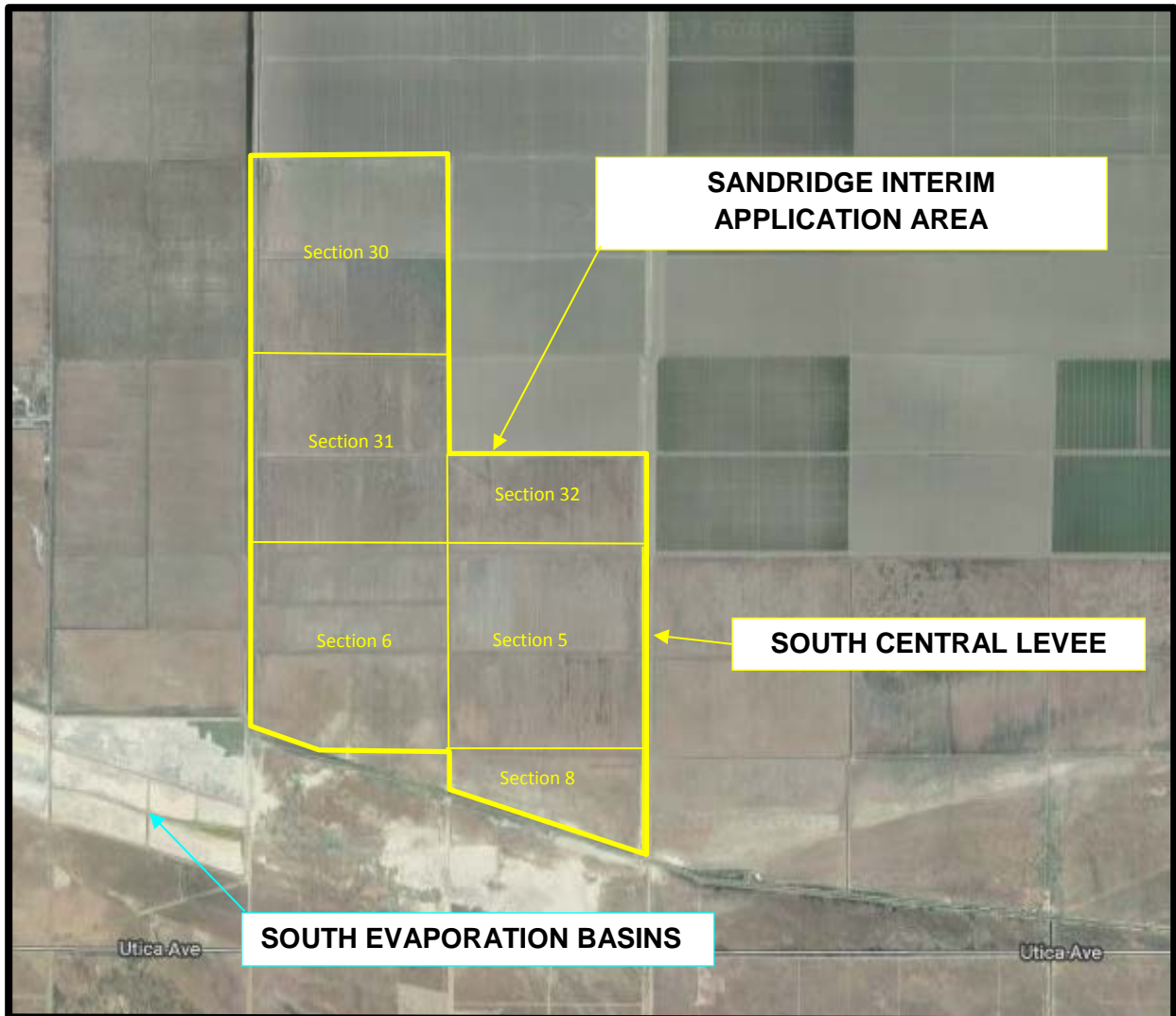
TIME SCHEDULE ORDER R5-2018-0900  
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 WESTLAKE FARMS, INC., SANDRIDGE PARTNERS, LP, CITY OF LEMOORE,  
 AND  
 LEPRINO FOODS COMPANY  
 KINGS COUNTY

Approximate Scale in Miles

0 2 4 6 8 10



**ATTACHMENT A**



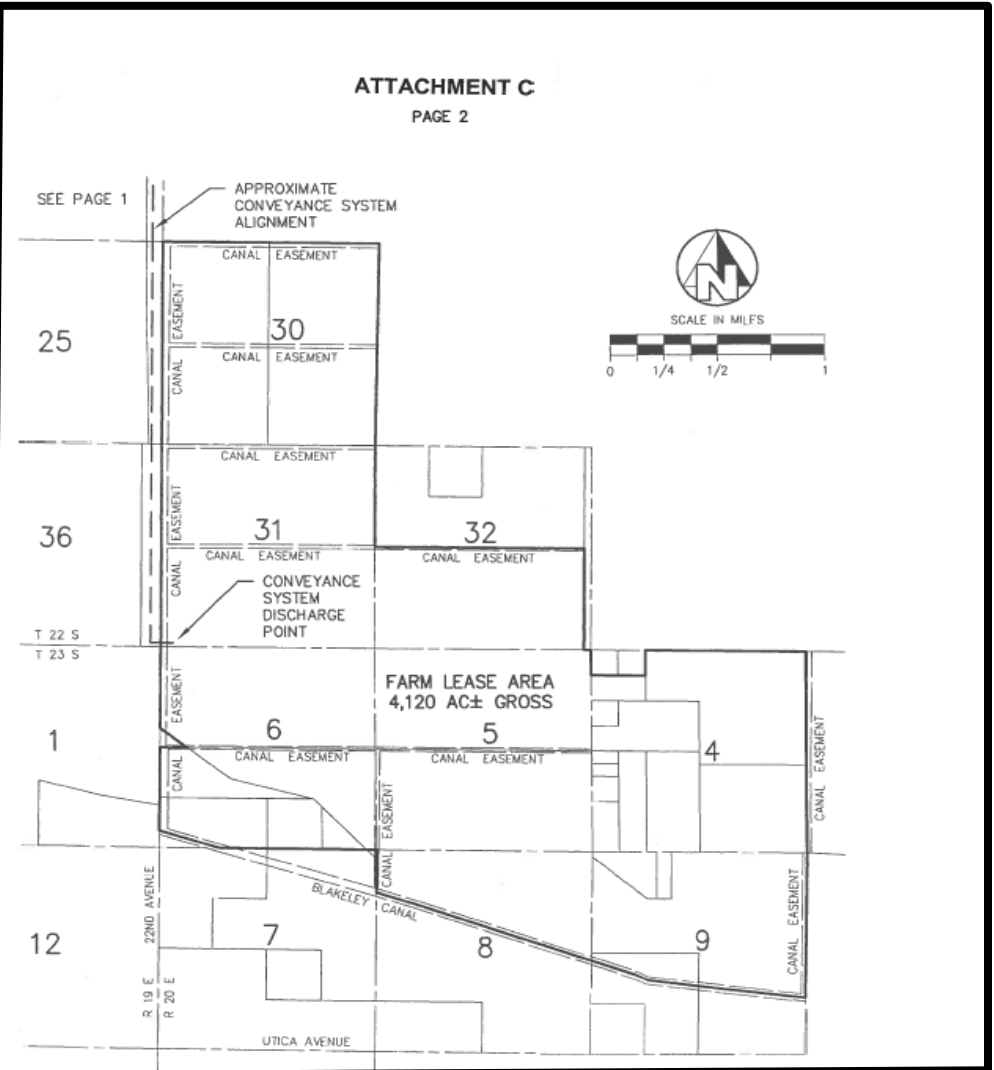
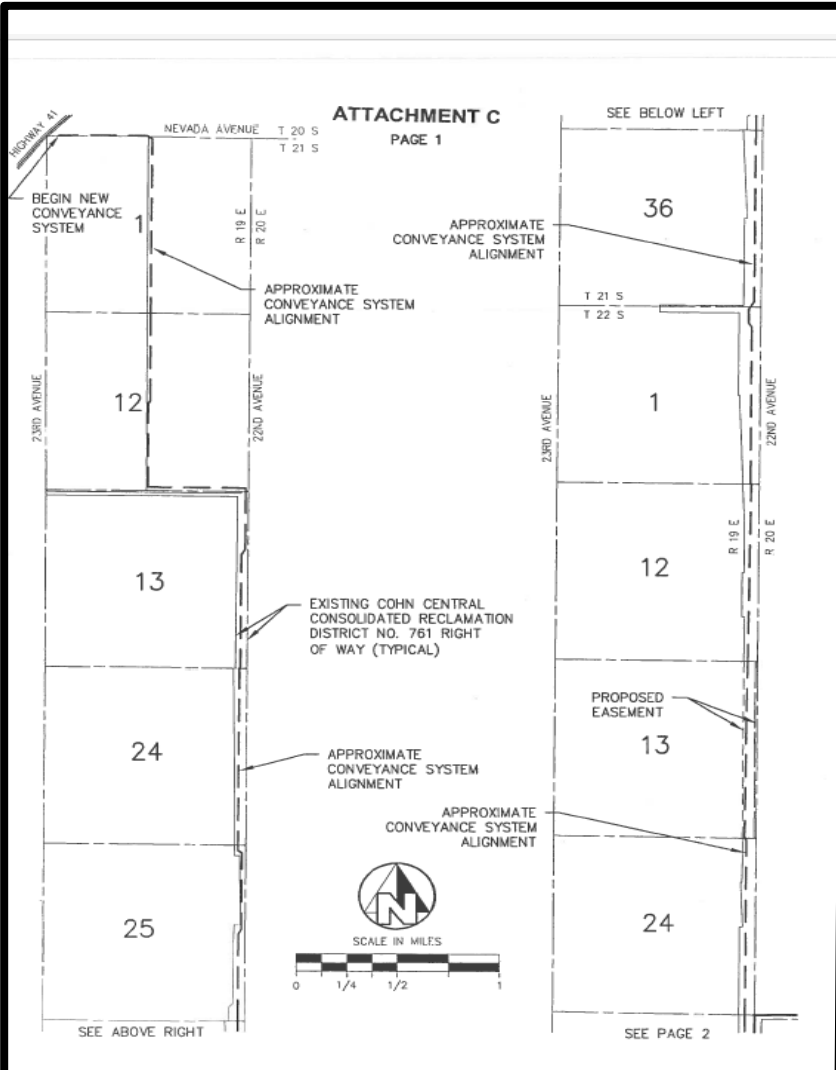
## INTERIM APPLICATION AREA MAP

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Approximate Scale in Miles



**ATTACHMENT B**



**ROUTE OF COMBINED DISCHARGE TO INTERIM APPLICATION AREA**

TIME SCHEDULE ORDER R5-2018-0900

FOR

WESTLAKE FARMS, INC, SANDRIDGE PARTNERS LP, CITY OF LEMOORE,  
AND LEPRINO FOODS COMPANY  
KINGS COUNTY

**ATTACHMENT C**