
Central Valley Regional Water Quality Control Board

24 November 2021

Marshall Sherman
Ratto Brothers, Inc.
6312 Beckwith Rd.
Modesto, CA 95358

CERTIFIED MAIL
7020-1810-0002-0569-1286

**NOTICE OF APPLICABILITY
OF
WAIVER OF REPORTS OF WASTE DISCHARGE AND WASTE DISCHARGE
REQUIREMENTS FOR SPECIFIC TYPES OF DISCHARGE WITHIN THE CENTRAL
VALLEY REGION,
RATTO BROTHERS, INC., STANISLAUS COUNTY**

On 14 June 2021 Ratto Brothers, Inc. (Discharger) submitted a report of waste discharge (RWD) to obtain coverage under the *Waiver of Report of Waste Discharge and Waste Discharge Requirements for Specific Types of Discharge within the Central Valley Region*, Resolution R5-2018-0085 (Waiver) for discharge to land of drinking water treatment system backwash filtrate. Based on the information submitted, the discharge qualifies for coverage under Category 13 of the Waiver for discharges of system flushing and filter backwash for water treatment systems. The discharge is hereby covered under the Waiver, and you are assigned enrollee number R5-2018-0085-0061. Please include this number on all correspondence related to this discharge. A copy of the Waiver is enclosed and is also available at the [State Water Boards' Adopted Orders: Waivers webpage](https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/waivers/r5-2018-0085.pdf) (https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/waivers/r5-2018-0085.pdf).

PROJECT LOCATION

The Discharger's food processing facility (Facility), referred to as Ranch 3, is located at 6312 Beckwith Road, Modesto, in Stanislaus County, approximately 1.2 miles southwest of the city of Salida and approximately 3 miles southeast of the Stanislaus River, on assessor's parcel number 012-026-014-000. The Discharger owns ten other ranch properties in Modesto, all of which are proposed as wastewater discharge areas, where the wastewater will be used for dust suppression on ranchland roadways. These areas are shown in the Site Location Map (Attachment A), with additional ranch details shown in Attachment B. Addresses, assessor's parcel numbers (APNs), and geographic coordinates are listed in Table 1 below. The location of the Facility and the Discharger's proposed land application areas are all within the San Joaquin River Basin.

The operative *Water Quality Control Plan for the Sacramento River and the San Joaquin River Basins* (Basin Plan) designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve water quality objectives for all waters of the Basin.

Table 1. Land application areas

Name	Address	APN	Latitude, longitude
Ratto Ranch 1	4336 Toomes Rd.	135-017-002 135-017-001	-121.0987051, 37.70107059 -121.1016492, 37.69886874
Ranch 2	3554 Toomes Rd.	121-010-005	-121.0932404, 37.69036005
Ranch 3 Treatment Site	6312 Beckwith Rd.	012-026-014	-121.1115315, 37.67862753
Ranch 4 Field 1	5500 Beckwith Rd.	012-032-032	-121.0975988, 37.68076485
Ranch 5	8701 Bacon Rd.	012-003-006 012-003-005	-121.1529242, 37.69944444 -121.1574422, 37.69941083
Ranch 6	2443 Dunn Rd.	012-025-032	-121.1450774, 37.67301106
Ratto Ranch 7	99014 N. Gates Rd.	012-025-014 012-025-037 012-025-036 012-025-035	-121.1662261, 37.67233903 -121.1639528, 37.67525275 -121.1639885, 37.67764264 -121.1640401, 37.68008284
Ratto Ranch 8	10701 Beckwith Rd.	012-021-011 012-021-001	-121.1890701, 37.68553514 -121.1936806, 37.6872707
Ratto Ranch 9	99007 Dunn Rd.	012-025-008	-121.1464947, 37.67796291
Ranch 10	8361 Shoemake Ave.	012-025-033	-121.148102, 37.66987918

PROJECT DESCRIPTION

The Discharger treats groundwater from its domestic well for potable use in its administrative office building at Ranch 3. The treatment is required to remove elevated concentrations of arsenic from the raw well water. The water treatment system currently includes treatment to precipitate and coagulate the raw water's dissolved metals and metalloids. From the treatment tanks, the treated water is pumped through a filtration step, and the filtrate is distributed as potable water to the Facility users.

Periodically the filters will be backwashed using potable water from the potable water distribution system. After passing through the filter, the backwash water carrying displaced residual solids is held in a settling tank to allow the residual solids to settle out. After appropriate settling time, the supernatant is decanted and recycled to the start of the raw water treatment system at a 1:10 volume ratio with raw water.

The solids-rich water remaining in the settling tank once the supernatant has been decanted is transferred to a second settling tank. The supernatant from this tank may be recycled back to the initial settling tank. Sludge from the second settling tank is dewatered in a filter press. The solids from the filter press will be sampled and disposed of at a licensed facility as required based on its waste classification. The filtrate from the filter press is collected for disposal on the Discharger's land to help with dust suppression on ranch roads and service areas.

Filtrate water quality data was submitted with the RWD, based on bench testing for arsenic and estimated for other constituents based on media selectivity and theoretical treatment results. Data are presented in Table 2 along with analytical results from samples of untreated well water and the applicable water quality objectives (WQOs) for constituents of concern, based on Basin Plan requirements. ND indicates not detected. Notes are listed below the table.

Table 2. Wastewater quality

Constituent	Units	Raw Water (average)	Wastewater (backwash filtrate)	WQO
Arsenic	µg/L	10 – 12 (11) note 1a	2.3 (note 2)	10
Nitrate as Nitrogen	mg/L	3.5 – 6.3 (4.8) note 1a	< 4.37 (note 3)	10
Electrical Conductivity (EC)	µS/cm	300 – 330 (318) note 1b	318	700
Total Dissolved Solids (TDS)	mg/L	250 note 1c	250	450
Sodium	mg/L	42 note 1c	42	69
Chloride	mg/L	13 note 1c	13	106
Iron, dissolved	µg/L	0.04 note 2	0.04	300
Manganese, dissolved	µg/L	ND	ND	50

Table 1 notes:

- 1) SDWIS, California Drinking Water Watch
 - a. based on 13 samples taken from 23 October 2018 through 05 October 2021
 - b. based on 9 samples taken from 23 October 2018 through 22 September 2020
 - c. based on a single sample taken on 23 October 2018
- 2) AEDGE Water Technologies, bench test
- 3) Estimate based on treatment and media selectivity

Based on the analytical results the discharge of backwash water is of similar quality to raw well water (groundwater) and will not cause exceedances of water quality objectives. Therefore, the discharge of backwash filtrate water complies with the terms and conditions in the Waiver.

FACILITY-SPECIFIC REQUIREMENTS

1. Discharge of backwash filtrate shall be conducted as described in this NOA and in accordance with the requirements contained in the Waiver.
2. Discharge of backwash filtrate at a location or in a manner different from that described in this NOA is prohibited.
3. Discharge of backwash filtrate shall be contained and disposed of onsite.
4. The Discharger shall notify the Central Valley Water Board of any change in agreement or proposed use of the discharge of backwash filtrate as described in the RWD and this NOA.
5. Failure to abide by the conditions of this NOA could result in enforcement actions, as authorized by provisions of the California Water Code.

DOCUMENT SUBMITTALS

All monitoring reports and other correspondence should be converted to searchable portable document format (PDF) and submitted electronically. Documents that are less than 50 MB should be emailed to: centralvalleysacramento@waterboards.ca.gov.

To ensure that your submittal is routed to the appropriate staff person, the following information should be included in the body of the email or any documentation submitted to the mailing address for this office:

Program: Non-15 Compliance
Facility Name: Ratto Brothers, Inc.
Place ID: 876792
Order: R5-2018-0085-0061

Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to:

Central Valley Regional Water Quality Control Board
ECM Mailroom
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

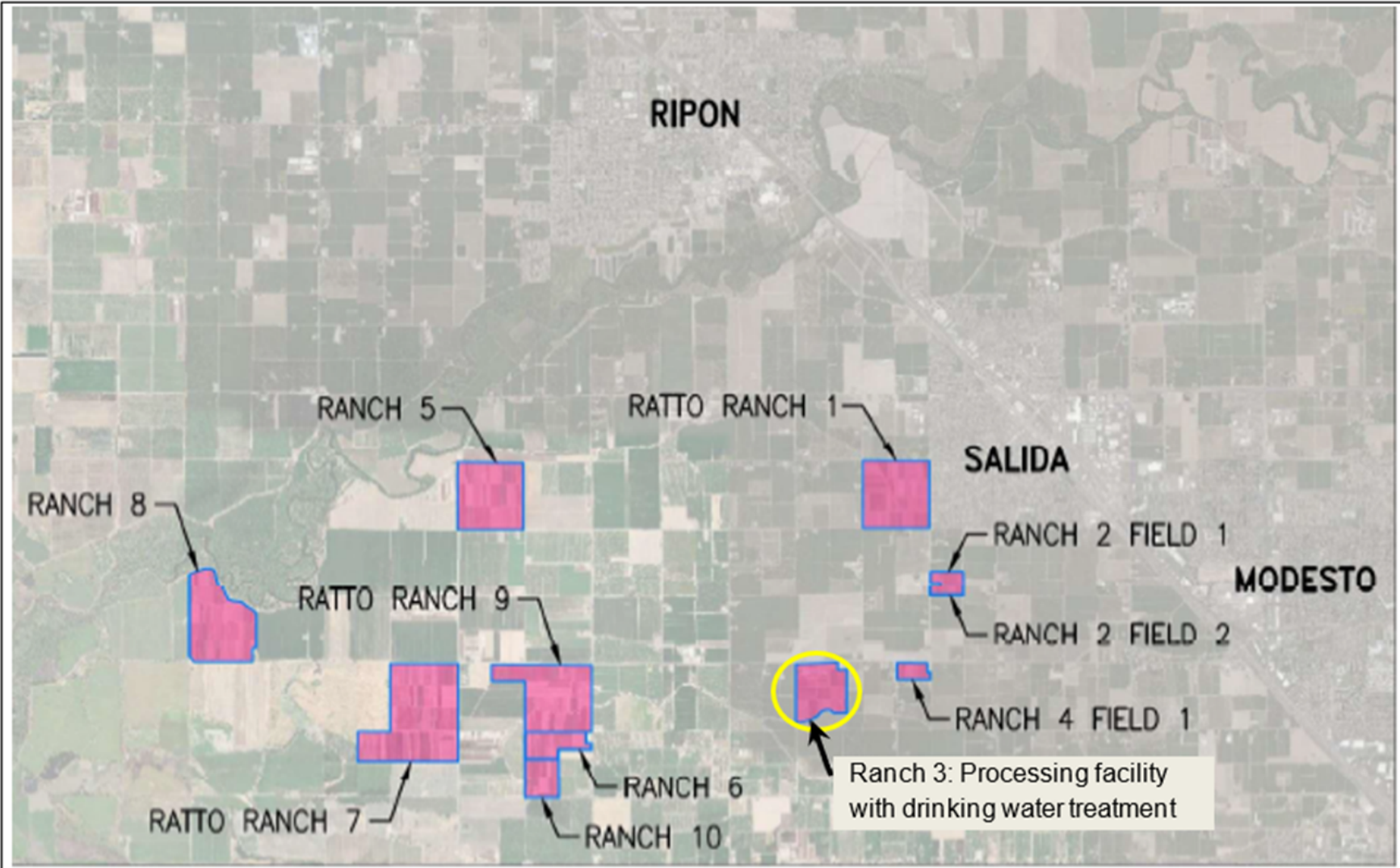
Now that the NOA has been issued, the Board's Compliance and Enforcement section will take over management of your case. Guy Childs is your point of contact for any questions about compliance with the Waiver. If you find it necessary to make a change to your permitted operations, he will direct you to the appropriate permitting staff. You may contact Guy at (916) 464-4648 or at guy.childs@waterboards.ca.gov.

for Patrick Pulupa
Executive Officer



Enclosure: Resolution No. R5-2018-0085

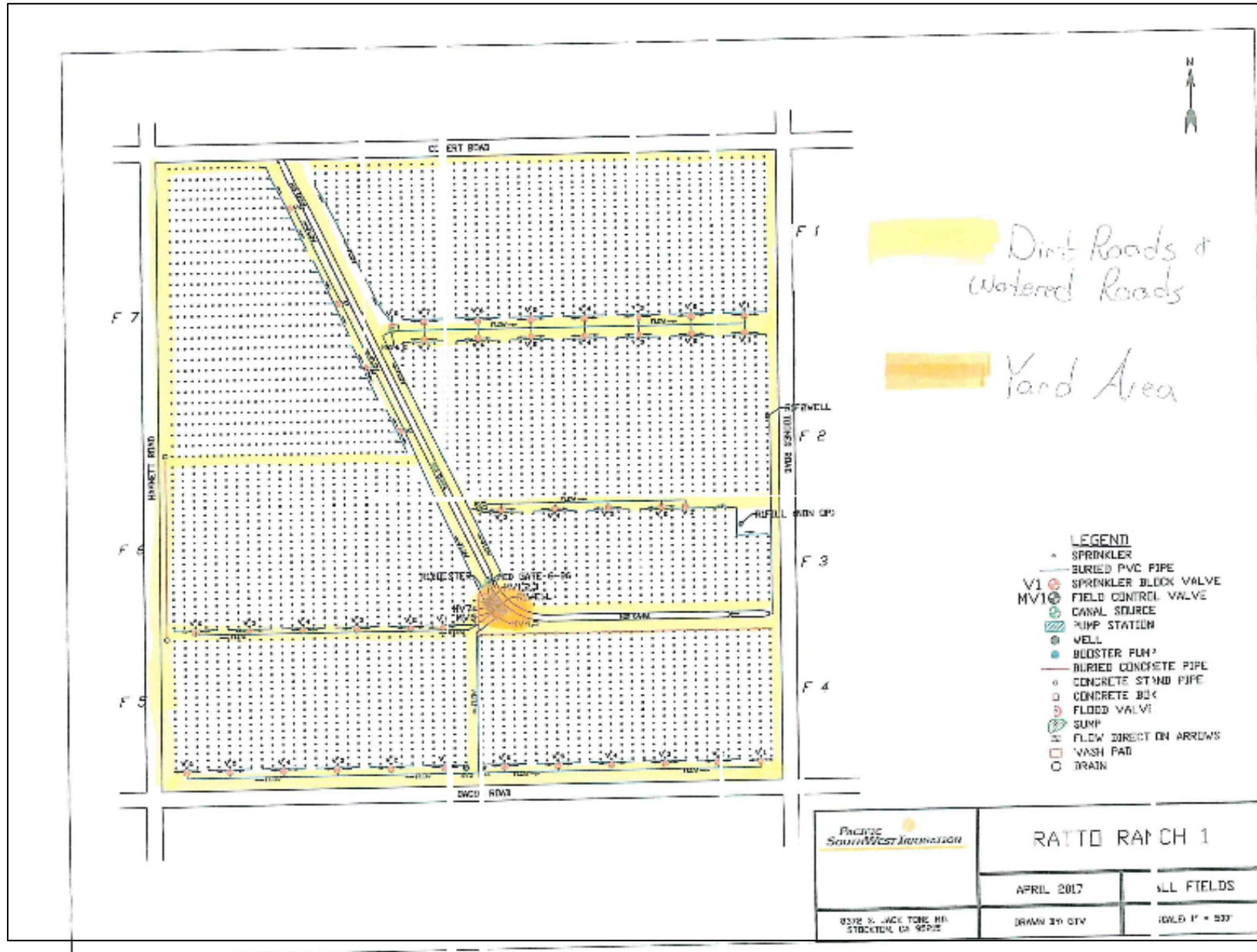
cc w/o enc: Robert Kostlivy, Stanislaus County Dept. of Environmental Resources,
Modesto (via email)
Guy Childs, Central Valley Water Board, Rancho Cordova (via email)

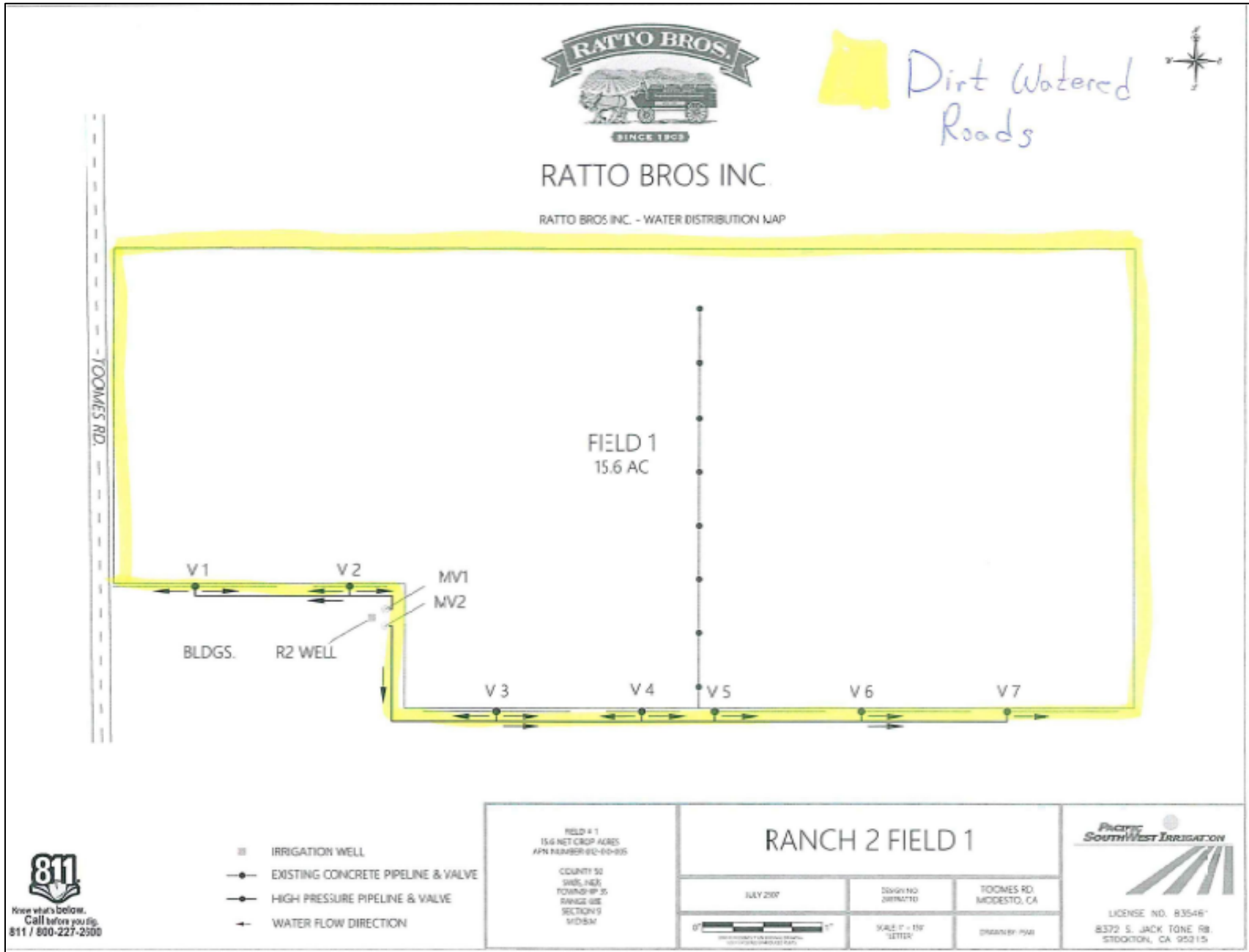


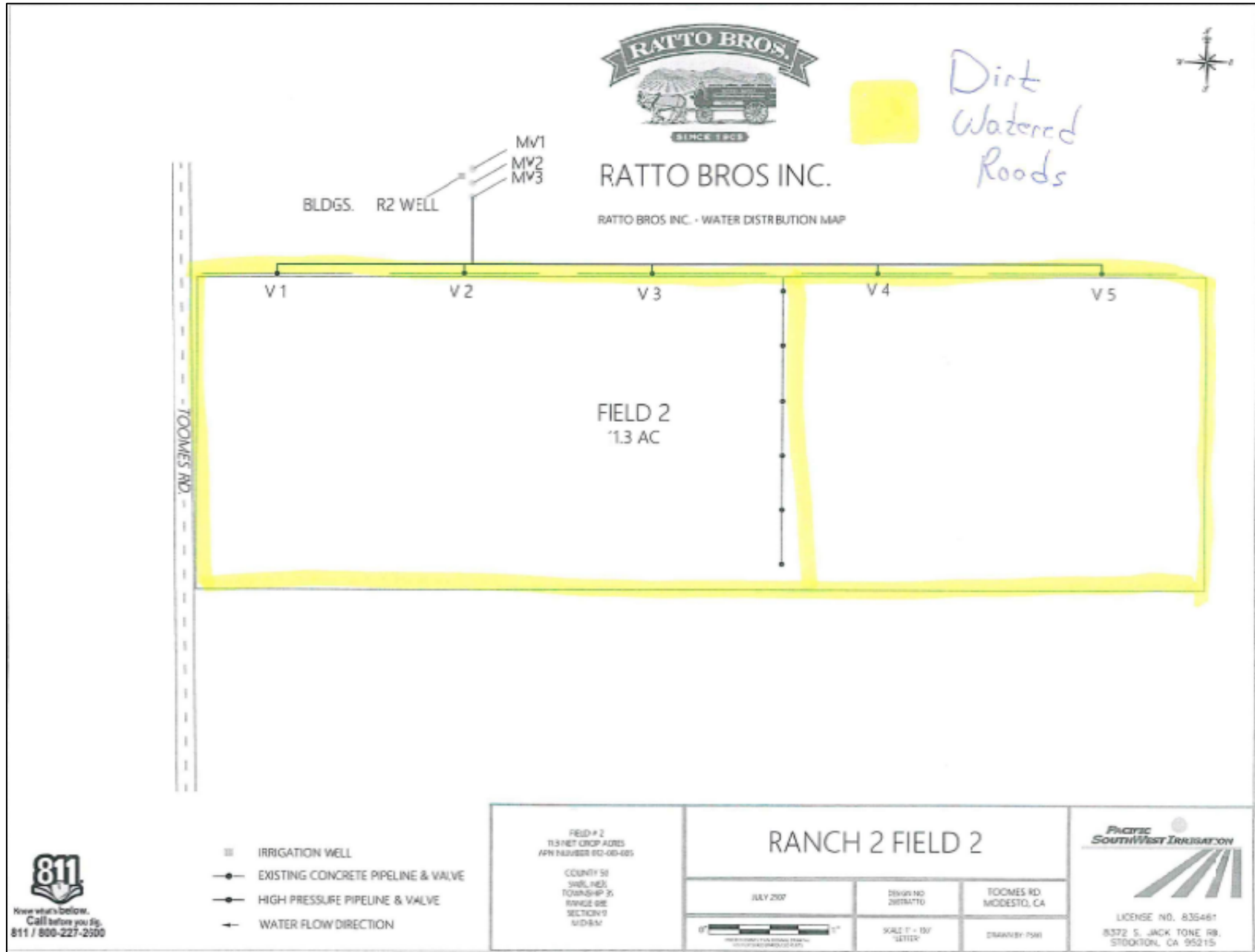
Source
Report of Waste Discharge by
Blackwater Consulting Engineers

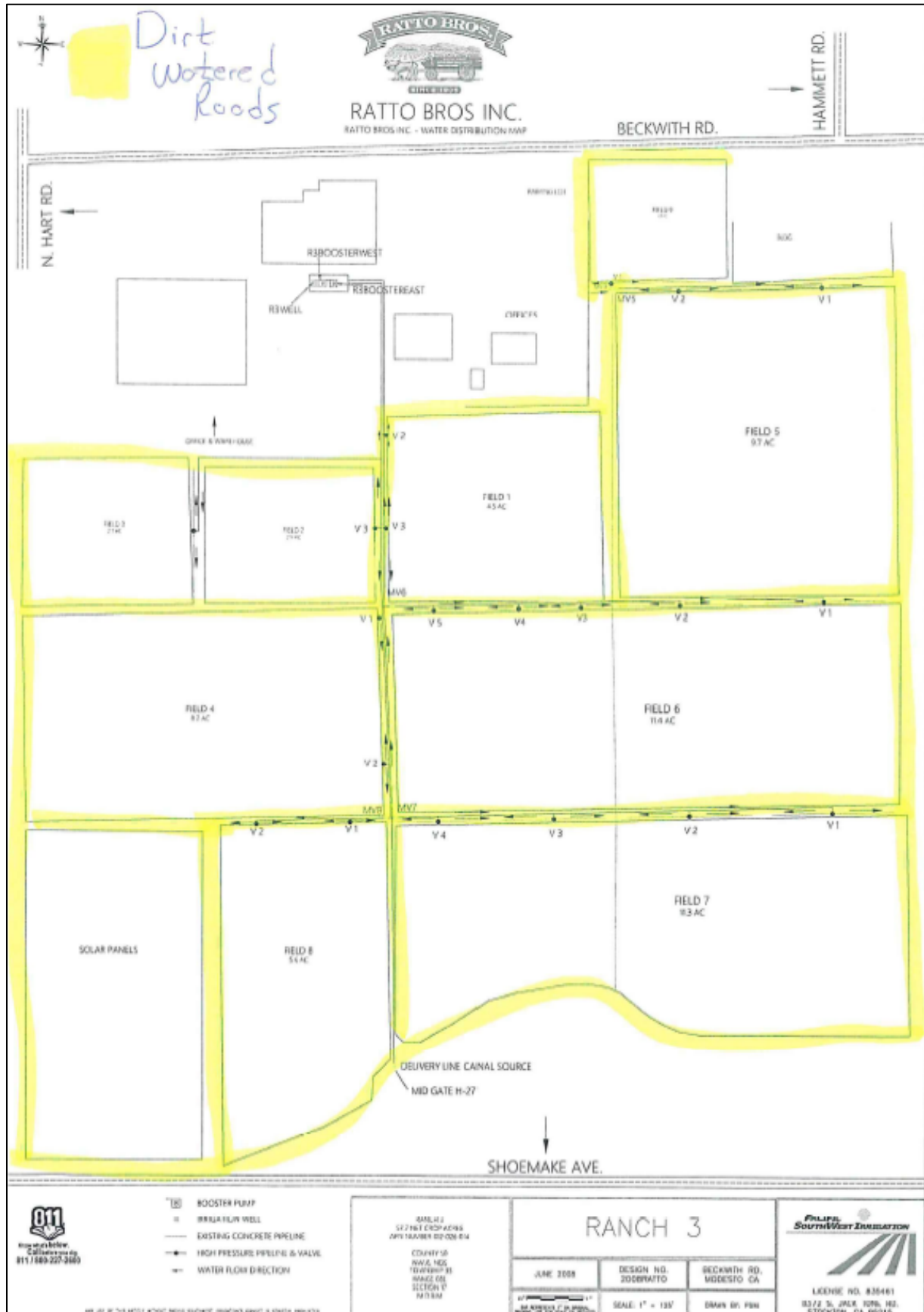
SITE LOCATION MAP
Ratto Brothers, Inc.
Stanislaus County

N
↑
Scale (approximate):
← 1 mile →











RATTO BROS INC.

RATTO BROS INC. - WATER DISTRIBUTION MAP

Dirt Watered Roads



TOOMES RD.



BECKWITH RD.

ADAIR RD.

FIELD 1
17.8 AC

HOUSE

RANCH 4 WELL

FINNEY RD.

V 4

V 3

V 2

V 1

SHOEMAKE AVE.

- IRRIGATION WELL
- EXISTING CONCRETE PIPELINE
- HIGH PRESSURE PIPELINE & VALVE
- WATER FLOW DIRECTION

FIELD # 1
17.8 NET CROP ACRES
APN NUMBER 012-082-32

COUNTY 50
NE ¼, NW¼
TOWNSHIP 35
RANGE 08E
SECTION 16
M.D.B.M

RANCH 4 FIELD 1

SEPTEMBER 2002

DESIGN NO
2818RATTO

BECKWITH RD.
MODESTO, CA



SCALE 1" = 100'
LETTER

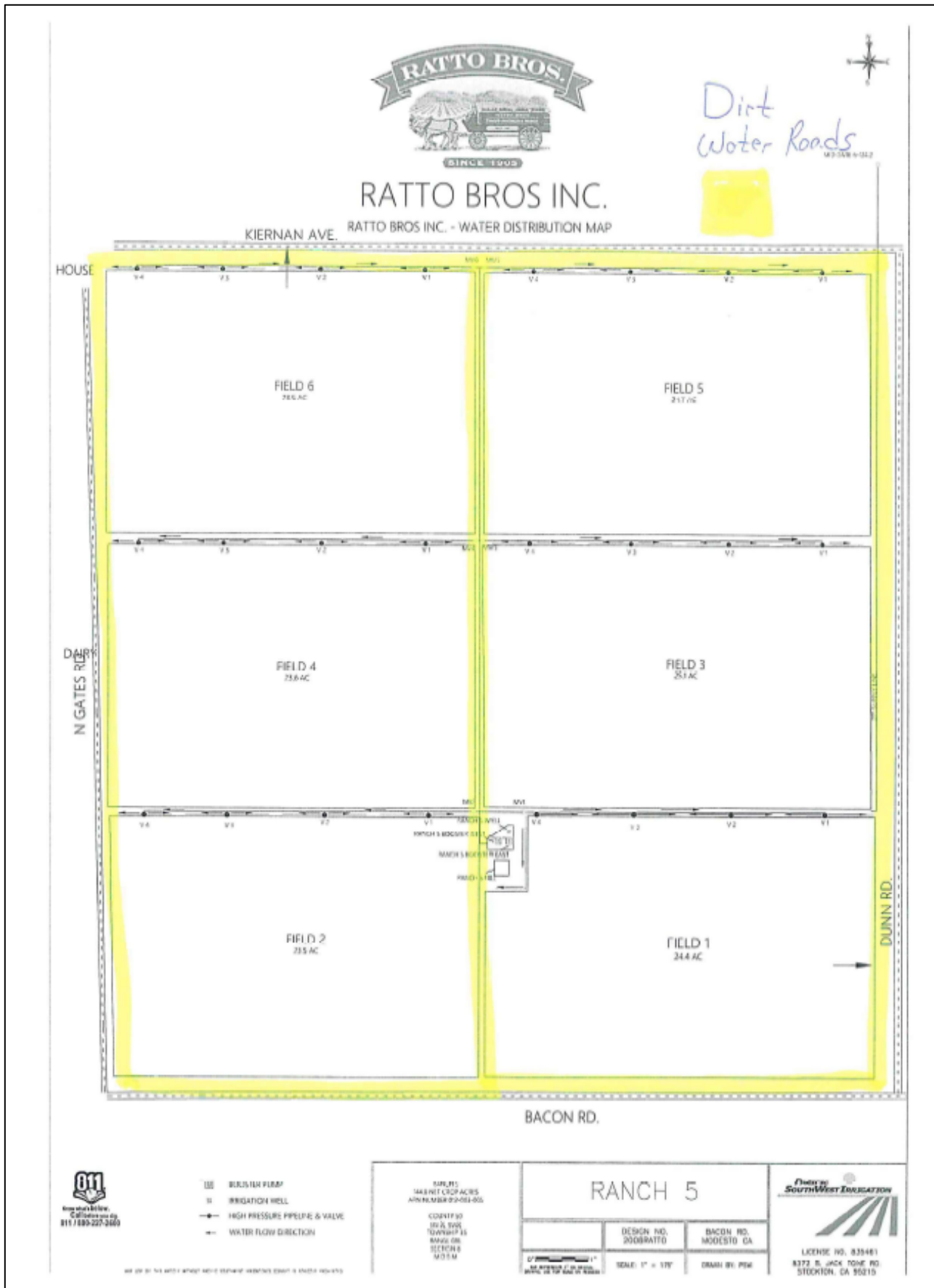
DRAWN BY PSM



LICENSE NO. 835461
8372 S. JACK TCNE RD.
STANFORD, CA 95358



one who's below.
Call before you dig.
1 / 800-227-2600



This ranch contiguous with Ranch #9

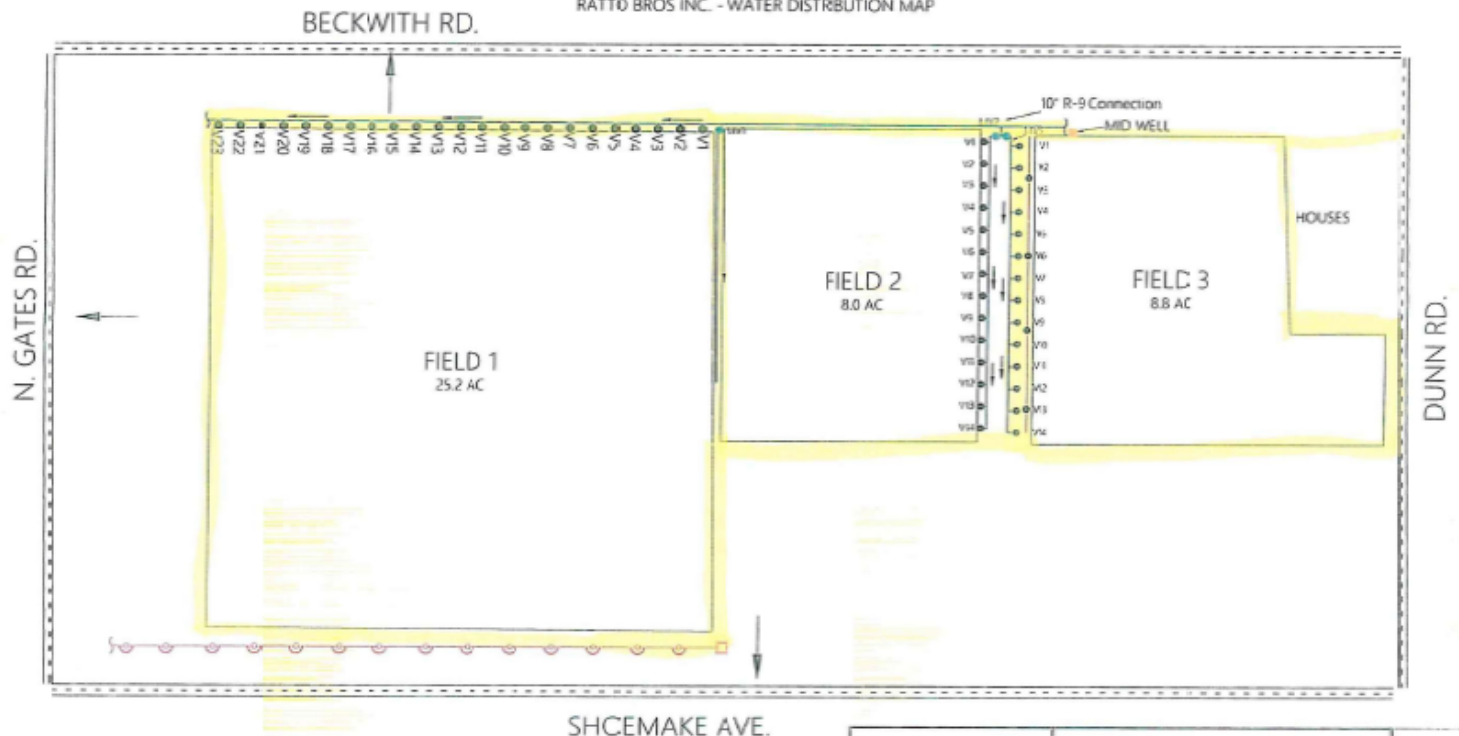


Dirt Roads & Watered Roads



RATTO BROS INC.

RATTO BROS INC. - WATER DISTRIBUTION MAP



- WELL
- EXISTING CONCRETE PIPELINE
- HIGH PRESSURE PIPELINE & VALVE
- WATERFLOW DIRECTION

IF ANY OF THE LINES SHOWN HAVE EXISTED PROJECTS, THESE ARE NOT SHOWN

RATTO BROS.
4710 E. 10TH AVE.
MORNINGSTAR, CA 95232

CONTRACT NO.
2008RATTO

<h2>RANCH 6</h2>	
DESIGN NO. 2008RATTO	SHOWNAME AVE. MORNINGSTAR, CA
SCALE: 1" = 150'	DRAWN BY: PSH

PACIFIC
SOUTHWEST IRRIGATION

LICENSE NO. 832461
8372 S. JACK ONE RD.
STOCKTON, CA 95215

