

Monitoring Report Submittal Transmittal Form

Attn: Guy Childs (916) 464-4648
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

Discharger: The Morning Star Packing Company, LP and Fred Gobel
Name of Facility: Williams Facility
WDRs Order Number: R5-2013-0144
WDID: 5A062005001
County: Colusa

I am hereby submitting to the Central Valley Water Board the following information:

Check all that apply:

Monthly Monitoring Report for the month of July 2015
1st / 2nd / 3rd / 4th (circle one) Quarterly Monitoring Report for the year of N/A
1st / 2nd (circle one) Semi-annual Monitoring Report for the year N/A
Annual Monitoring Report for the year N/A

Violation Notification

During the monitoring period, there were were not (circle one) any violations of the WDRs.

1. The violations were: (add extra pages as needed) N/A
2. Have the violations been corrected? Yes / No. If no, what will be done to correct the violations: (add extra pages as needed) N/A

Certification Statement

"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 those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Signature: [Signature] Phone: (530) 666-6600
Printed Name: ROSS OLIVEIRA Date: 8/31/15



THE MORNING STAR PACKING COMPANY

724 Main Street, Woodland CA 95695

31 August 2015

Mr. Guy Childs
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

Re: Monthly Report for The Morning Star Packing Company – Williams, according to Waste Discharge Requirements Order No. R5-2013-0144.

Dear Mr. Childs:

Please find herewith the July Report with items requested in the Monthly Monitoring Reports section of the Monitoring and Reporting Program No. R5-2013-0144.

1. Tabulated pond monitoring data.

The tabulated pond monitoring results for July is included as **Attachment A**.

2. Tabulated daily flow measurements from each wastewater source and supplemental irrigation water to each check in each LAA field.

The July flow measurement logsheet is included as **Attachment B**.

3. The cumulative annual wastewater (Station 1 and Station 2) flow discharged to the LAAs to date, the average daily flow for the month, and comparison to the average daily flow limit.

The cumulative annual washwater from Station 1 and Station 2 are provided below and included in **Attachment B**:

Source	Annual Flow	Flow Limit
Station 1: Settling Pond/Gutters	32,140,800	
Station 2: Cooling Pond	0	
Total Washwater Discharge	32,140,800	422,000,000

Williams
2211 Old HWY 99
Williams, California
95987

Santa Nella
12045 S Ingomar Grade Rd
Los Banos, California
93635

Los Banos
13448 Volta Rd
Los Banos, California
93635



4. *Tabulated wastewater monitoring data and calculation of the running average for each group of three consecutive sample results for BOD and total nitrogen.*

The July washwater monitoring data logsheet is included as **Attachment C**.

5. *A current site plan depicting the irrigation checks within each LAA field that will be used during the calendar year, including all water conveyance ditches and internal berms that divide each LAA (where applicable).*

An updated 2015 site plan for the facility's LAA and individual field maps are provided in **Attachment D**.

6. *Tabulated update cropping information for each LAA field that includes at least:*

- a. *The crop that will be grown in each field;*
- b. *Planned and actual planting dates;*
- c. *Planned and actual harvest dates;*
- d. *Planned and actual cattle grazing schedule, location of cattle grazing, including the number of head on each field;*
- e. *Typical maximum expected and actual yield at harvest in applicable crop units per acre;*
- f. *Crop total nitrogen demand; and*
- g. *Crop average evapotranspiration rate in inches*

The tabulated cropping information for each LAA is included as **Attachment E**.

7. *Tabulated land application area monitoring data for each LAA field, including; calculation of the hydraulic loading, irrigation cycle average BOD loading, and total nitrogen loading to date from all sources. The average of the three most recent monitoring results shall be used to determine irrigation cycle average BOD and total nitrogen loading. Loading rates for Settling Pond solids, residual solids, cattle manure and commercial fertilizers shall be calculated separately using actual load analytical results and application areas.*

The tabulated land application area monitoring data for each LAA field are also included as **Attachment E**.

8. *A summary of the daily pre-application inspection reports for the month.*

The pre-application inspection reports for July are included as **Attachment F**.

9. *Calculation of the flow-weighted average FDS concentration to date (representative of the Settling Pond and plant sanitation/clean-up water) as monitored at Station 1.*

The calculation of the flow-weighted average FDS concentration is presented at the bottom of **Attachment C**.

10. Residual solids monitoring data and monthly mass of residual solids generated and applied to each LAA field and/or disposed of off-site.

The July residual solids monitoring data is included as **Attachment G**.

11. A comparison of monitoring data to the flow limitations, effluent limitations; mass loading limitations (for each LAA field), and discharge specifications, and an explanation of any violation of those requirements.

The Morning Star Packing Company – Williams is in compliance with the flow limitations, effluent limitations, mass loading limitations and the discharge specifications.

12. If requested by staff, copies of laboratory analytical report(s).

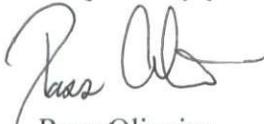
If requested, The Morning Star Packing Company – Williams will mail out the laboratory analytical reports.

13. Copies of current calibration logs for all field test instruments.

The calibration logs for July are included as **Attachment H**, which includes the 2015 flow meter calibration logs that were completed in July 2015.

"I certify under penalty of law that this document and all attachments have been prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted 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."

Respectfully yours,


Ross Oliveira

Attachment A

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

POND MONITORING RESULTS: No water in pond

Monitoring Location	Monitoring Week	Monitoring Date	Monitoring Time	Dissolved Oxygen ¹ (mg/L)	pH	Freeboard (0.1 feet)	Odors ³	Monthly Pond Berm/Leeve Condition ⁴	Technican's Initials
Settling Pond	Week 1								
	Week 2	7/9/15	9:35am	2.02	5.3	3.3	Slight	Good	JY
	Week 3	7/16/15	10:10am	1.45	5.09	2.7	Slight	Good	JY
	Week 4	7/23/15	10:42am	6.36	7.17	3.9	Slight	Good	JY
	Week 5	7/30/15	9:35am	1.07	5.11	3.4	Slight	Good	JY
Cooling Pond	Week 1								
	Week 2	7/9/15	8:45am	3.36	8.31	2.7	None	Good	JY
	Week 3	7/16/15	9:34am	1.21	6.69	3.6	None	Good	JY
	Week 4	7/23/15	11:40am	5.78	7.46	3.2	None	Good	JY
	Week 5	7/30/15	4:20pm	1.09	6.94	2.9	None	Good	JY

Sample frequency shall be weekly during the processing season and monthly during the non-processing season.

¹Samples shall be collected at a depth of one foot from each pond in use, opposite the inlet.

²Freeboard shall be measured to the nearest 0.1 foot from staff gauge.

³Odors shall be reported as (none, slight, moderate, strong)

⁴If a pond berm/leeve conditon is not reported as good, a description of the condition of the berm/leeve shall be provided, as well as the maintenance that was completed.

Attachment B

MONTHLY MONITORING REPORT

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

MONTH

July

YEAR

2015

FLOW MONITORING RESULTS :

Monitoring Date (Day of Month)	Flow Source					Names of LAAs Irrigated	Station 3 - Total Discharge to LAAs (inches)
	Supplemental GCID Irrigation Water (gallons; calculated)	Station 1 - Settling Pond Water (gallons; meter)	Station 2 - Cooling Pond Water (gallons; meter)	Station 3 - Total Discharge to LAAs (gallons; meter)			
1	0	0	0	0	-	0	
2	0	0	0	0	-	0	
3	0	0	0	0	-	0	
4	0	0	0	0	-	0	
5	0	0	0	0	-	0	
6	0	914,400	0	0	-	0	
7	0	1,347,840	0	0	-	0	
8	0	1,753,920	0	0	-	0	
9	0	1,771,200	0	0	-	0	
10	0	1,651,680	0	0	-	0	
11	0	1,415,520	0	0	-	0	
12	0	1,516,320	0	0	-	0	
13	0	1,383,840	0	0	-	0	
14	0	1,284,480	0	0	-	0	
15	0	1,069,920	0	0	-	0	
16	0	879,840	0	0	-	0	
17	0	1,602,720	0	0	-	0	
18	0	1,501,920	0	0	-	0	
19	0	1,375,200	0	0	-	0	
20	0	1,501,920	0	0	-	0	
21	0	741,600	0	0	-	0	
22	0	649,440	0	0	-	0	
23	0	774,720	0	0	-	0	
24	0	568,800	0	0	-	0	
25	0	783,360	0	0	-	0	
26	0	771,840	0	0	-	0	
27	0	1,321,920	0	0	-	0	
28	0	1,370,880	0	0	-	0	
29	0	1,418,400	0	0	-	0	
30	0	1,499,040	0	0	-	0	
31	0	1,270,080	0	0	-	0	
Total Monthly Flow (MG)	0	32,140,800	0	0		0	
Average Daily Flow (MGD)	0	1,036,800	0	0		0	
Cumulative Annual Flow to Date (MG)	36,360,000	32,140,800	0	0		0	

Attachment C

MONTHLY MONITORING REPORT

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel

MONTH

July

FACILITY: Morning Star Tomato Packing Plant

YEAR

2015

COUNTY: Colusa

WDRs Order: R5-2013-0144

WASTEWATER MONITORING RESULTS : No Washwater Monitoring

Samples Collected from Station 1

Monitoring Week	Monitoring Date	BOD (mg/L)	3-Sample Average BOD (mg/L) ¹	Total Nitrogen (mg/L)	3-Sample Average Total Nitrogen (mg/L) ¹	FDS (mg/L)
Second to Last Week of Previous Month			N/A		N/A	N/A
Last Week of Previous Month			N/A		N/A	N/A
Week 1 of Current Month						
Week 2 of Current Month	7/9/15	212	212	19	19	360
Week 3 of Current Month	7/16/15	1020	616	46	32.5	530
Week 4 of Current Month	7/23/15	73 ¹		8.1 ¹		400
Week 5 of Current Month	7/30/15	2300	1177	77	47	860

¹ BOD testing done outside of hold times. 7/23 result not used in calculations.

Sampling is not required during periods when no wastewater is discharged to the LAAs.

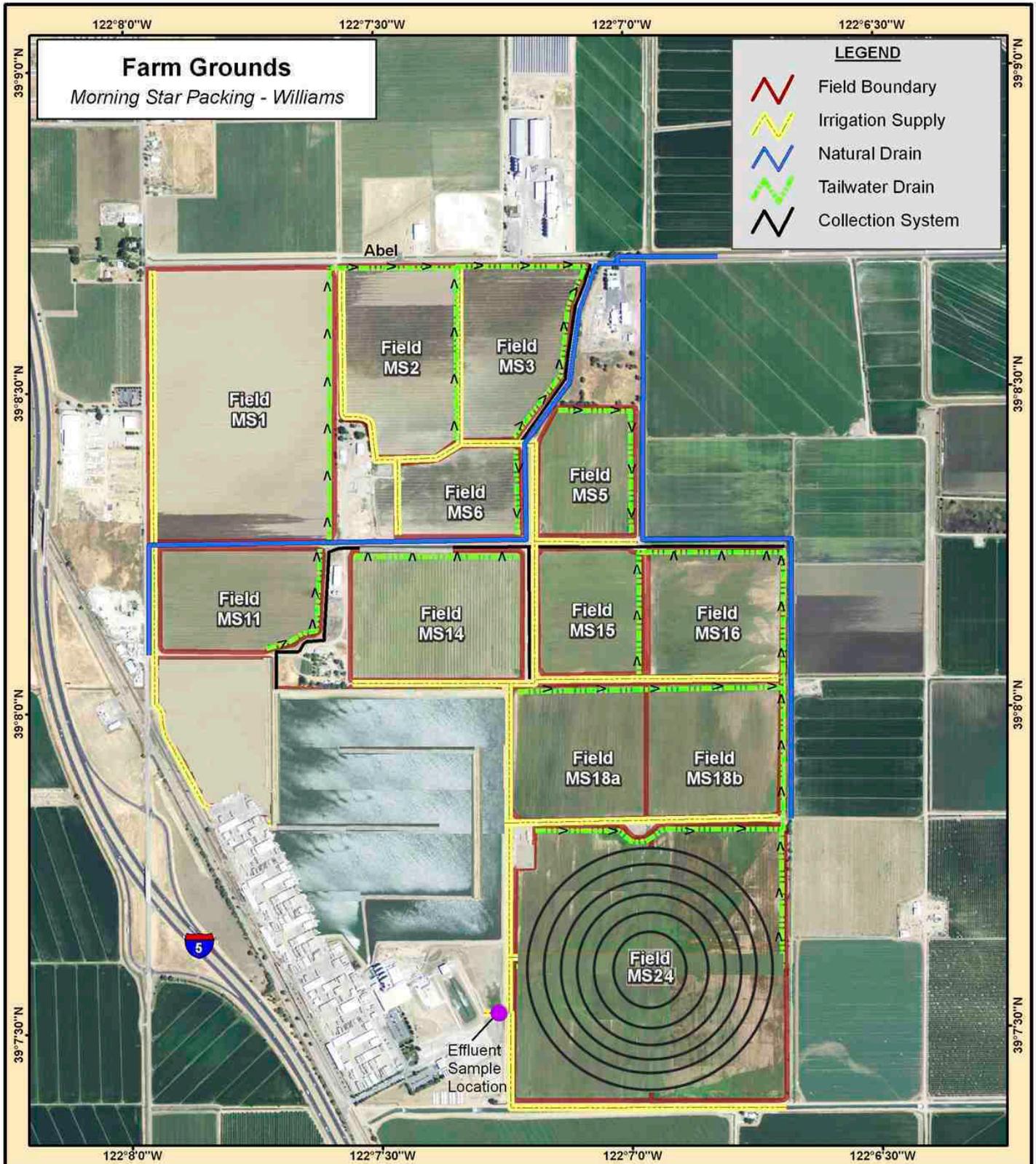
Average BOD Concentration (mg/L)¹	1177
Average Monthly Total Nitrogen Concentration (mg/L)²	47
Monthly Average FDS Concentration (mg/L)	538
Flow Weighted Average FDS Concentration to Date (mg/L)³	559

¹See MRP Reporting Section A.4.

²Value to be used in annual loading calculation (WDR Section C.2.a).

³Calculated per WDR Section C.1.a (Show Calculations).

Attachment D



Farm Grounds
Morning Star Packing - Williams

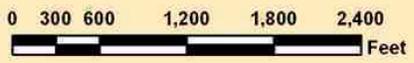
LEGEND

- Field Boundary
- Irrigation Supply
- Natural Drain
- Tailwater Drain
- Collection System



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Map Scale 1:14,400 1 Inch = 1,200 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: February 27, 2014
Map ID: CMS2014-038

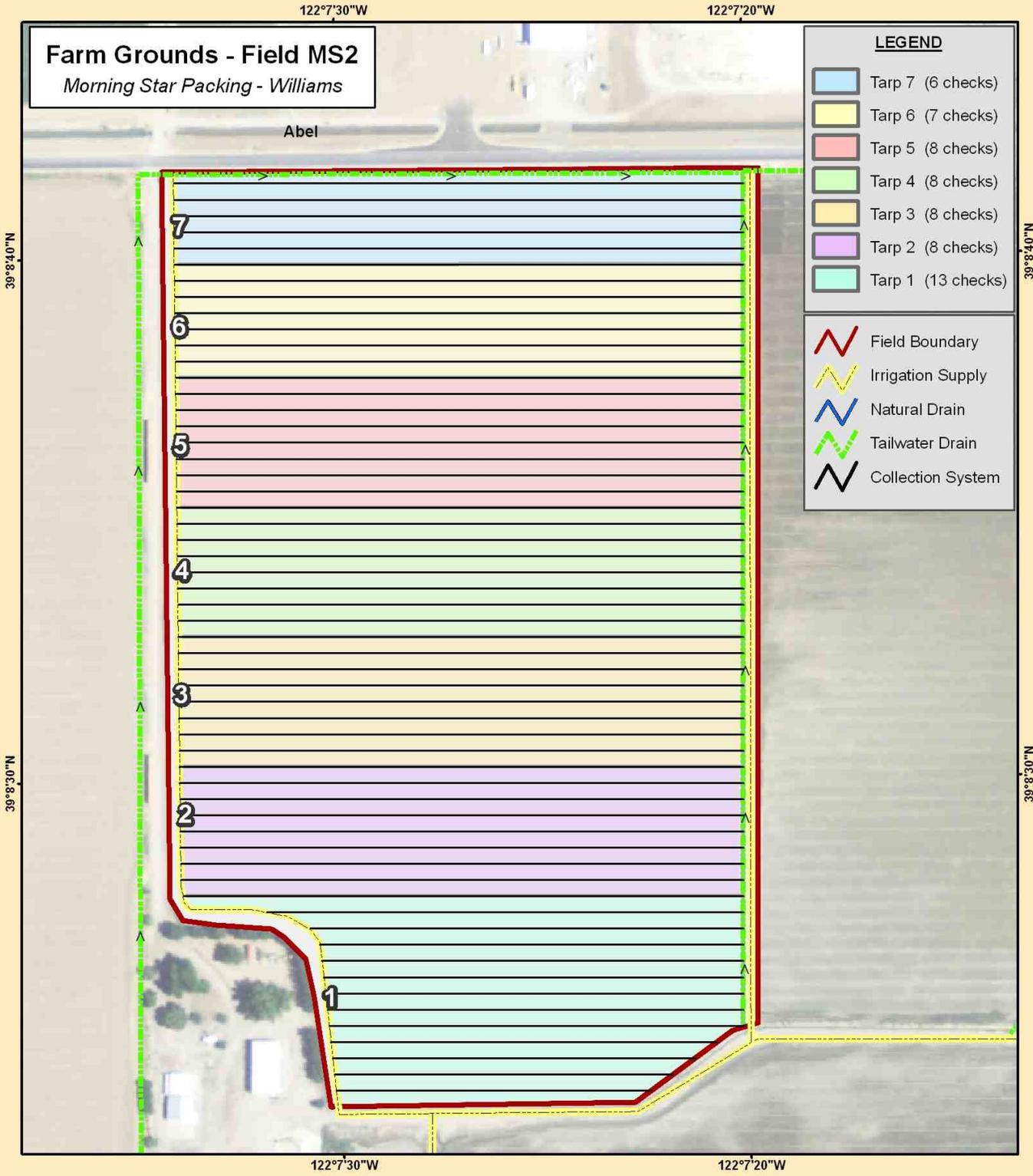
Farm Grounds - Field MS2
Morning Star Packing - Williams

Abel

LEGEND

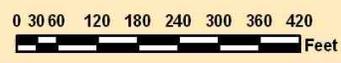
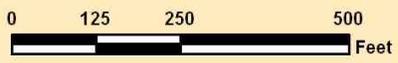
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-  Tarp 6 (7 checks)
-  Tarp 5 (8 checks)
-  Tarp 4 (8 checks)
-  Tarp 3 (8 checks)
-  Tarp 2 (8 checks)
-  Tarp 1 (13 checks)

-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:3,000 1 Inch = 250 Feet



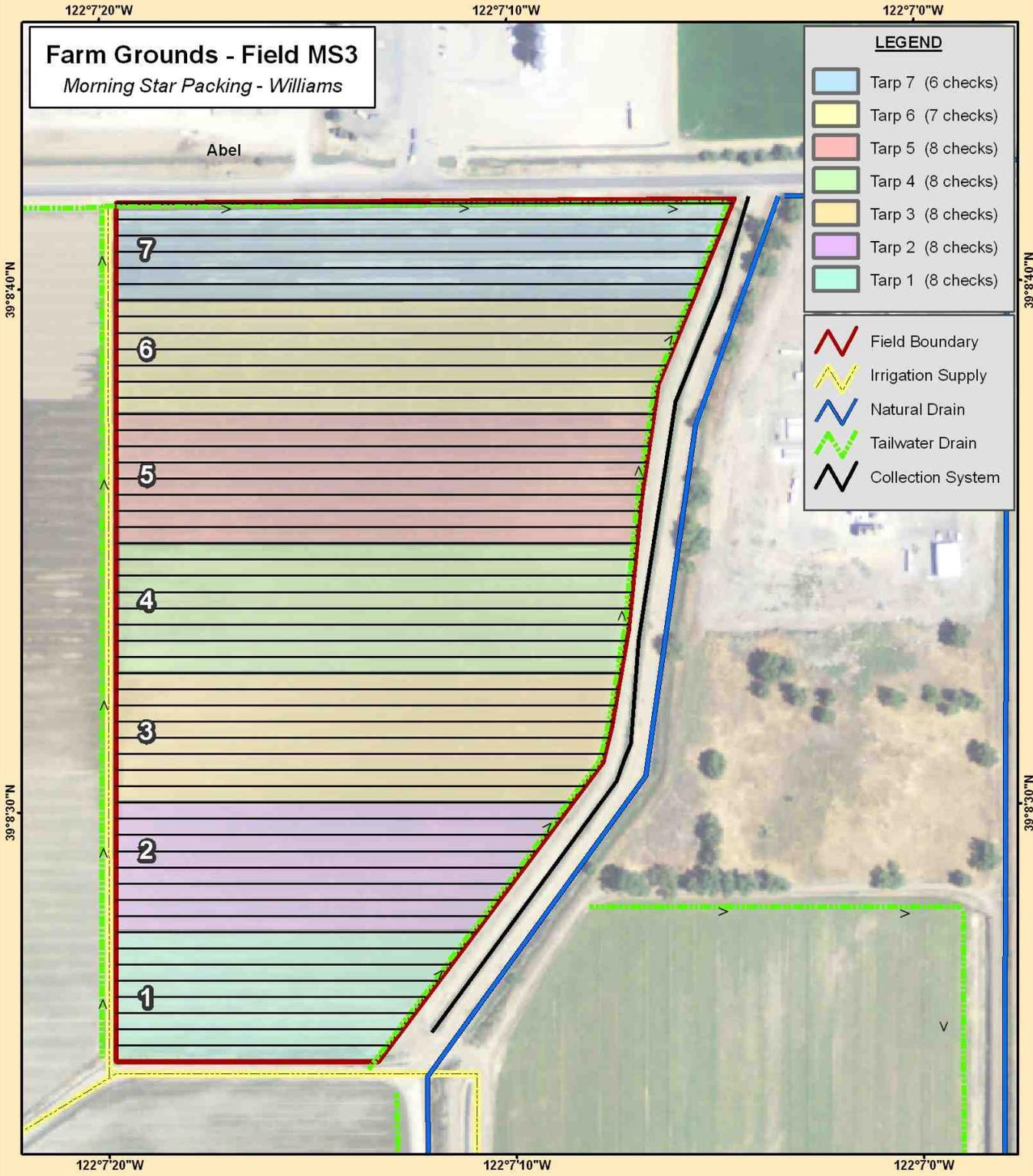
Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 18, 2014
Map ID: CMS2014-043

Farm Grounds - Field MS3
Morning Star Packing - Williams

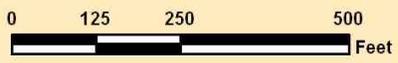
LEGEND

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 -  Tarp 6 (7 checks)
 -  Tarp 5 (8 checks)
 -  Tarp 4 (8 checks)
 -  Tarp 3 (8 checks)
 -  Tarp 2 (8 checks)
 -  Tarp 1 (8 checks)
-
-  Field Boundary
 -  Irrigation Supply
 -  Natural Drain
 -  Tailwater Drain
 -  Collection System



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Map Scale 1:3,000 1 Inch = 250 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-044

Farm Grounds - Field MS5
Morning Star Packing - Williams

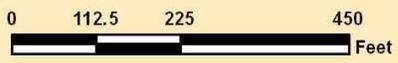
LEGEND

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-  Tarp 3 (8 checks)
-  Tarp 2 (7 checks)
-  Tarp 1 (7 checks)
-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:2,700 1 Inch = 225 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
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Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-049

Farm Grounds - Field MS6
Morning Star Packing - Williams

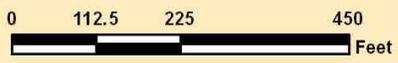
LEGEND

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-  Tarp 1 (8 checks)
-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:2,700 1 Inch = 225 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

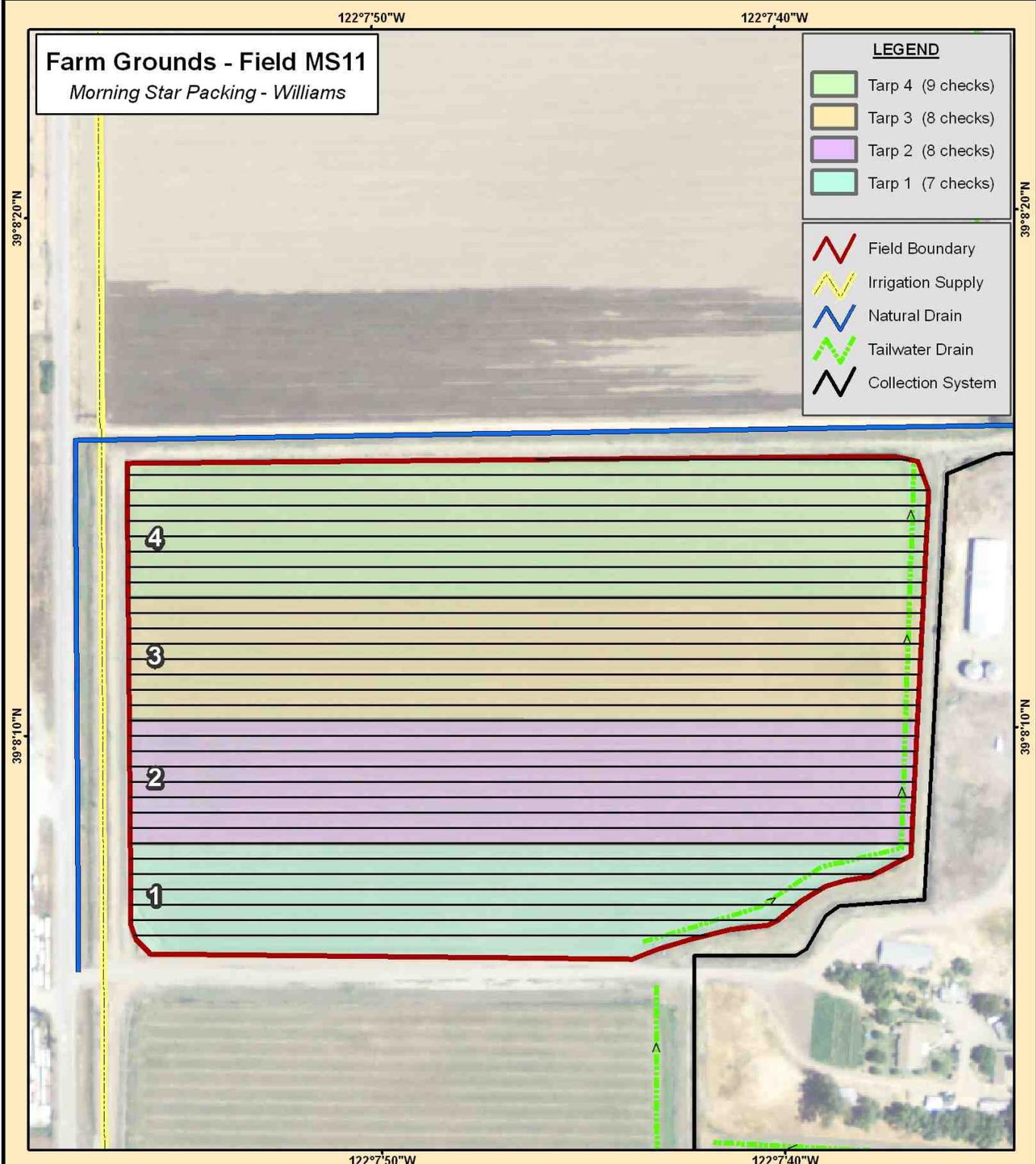
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Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-047

Farm Grounds - Field MS11
Morning Star Packing - Williams

LEGEND

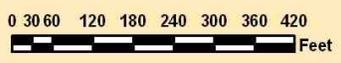
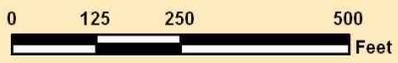
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-  Tarp 3 (8 checks)
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-  Tarp 1 (7 checks)

-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:3,000 1 Inch = 250 Feet



Data Source:
 Aerial Photography: Summer 2012
 Projection: UTM Zone 10N, NAD 83
 State of California: Colusa County

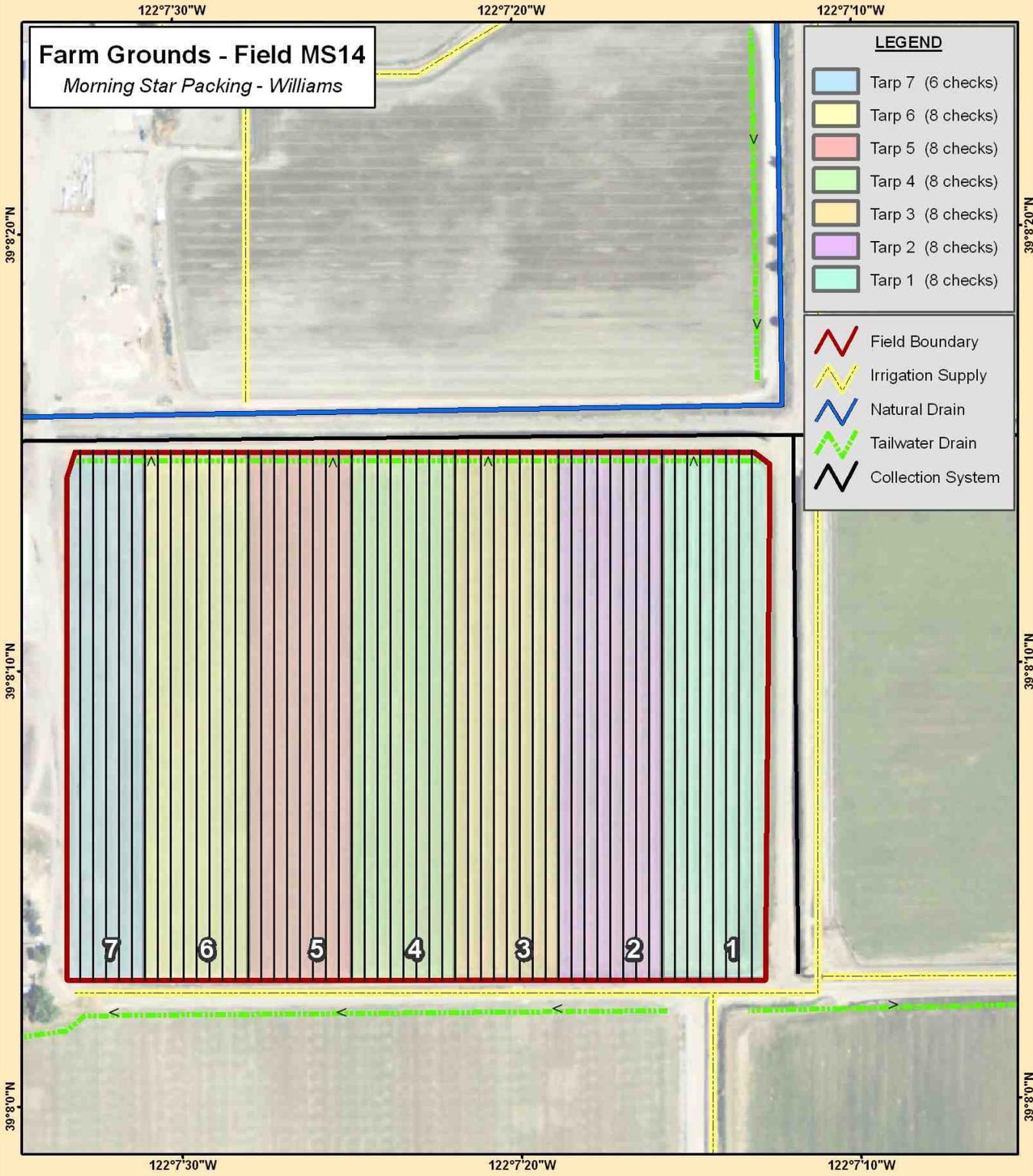
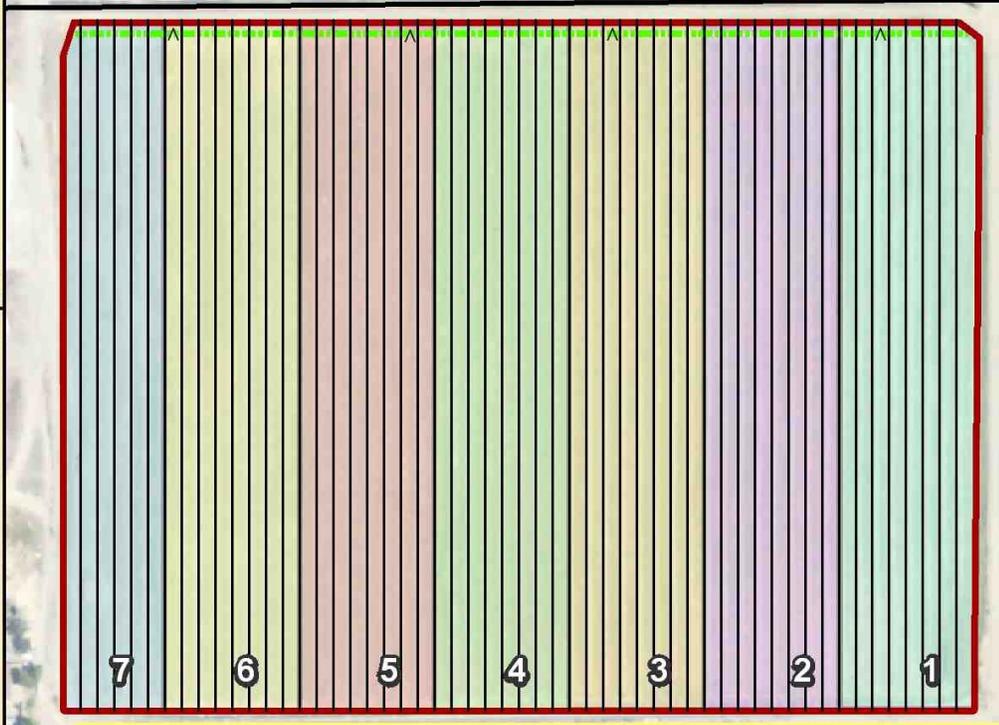
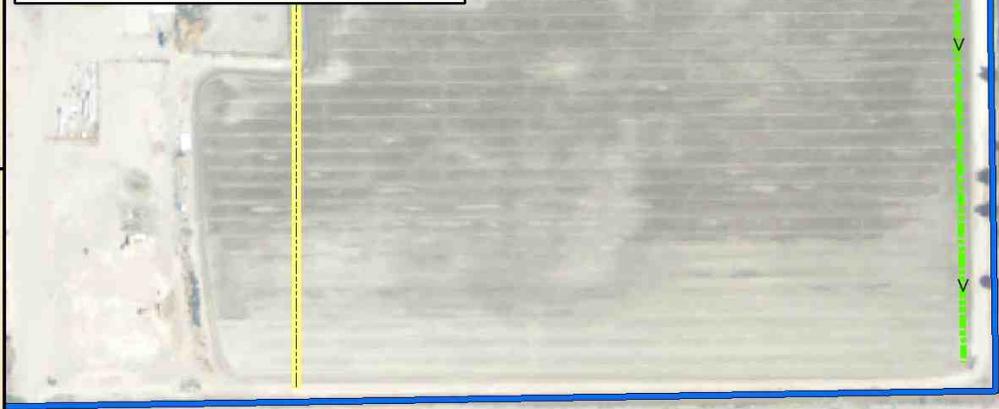
Map Source:
 Custom Mapping Services, L.L.C.
 Prairieville, LA (225) 677-7207
 Map Date: March 24, 2014
 Map ID: CMS2014-048

Farm Grounds - Field MS14
Morning Star Packing - Williams

LEGEND

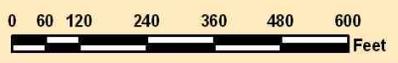
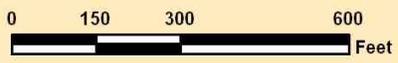
-  Tarp 7 (6 checks)
-  Tarp 6 (8 checks)
-  Tarp 5 (8 checks)
-  Tarp 4 (8 checks)
-  Tarp 3 (8 checks)
-  Tarp 2 (8 checks)
-  Tarp 1 (8 checks)

-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:3,600 1 Inch = 300 Feet



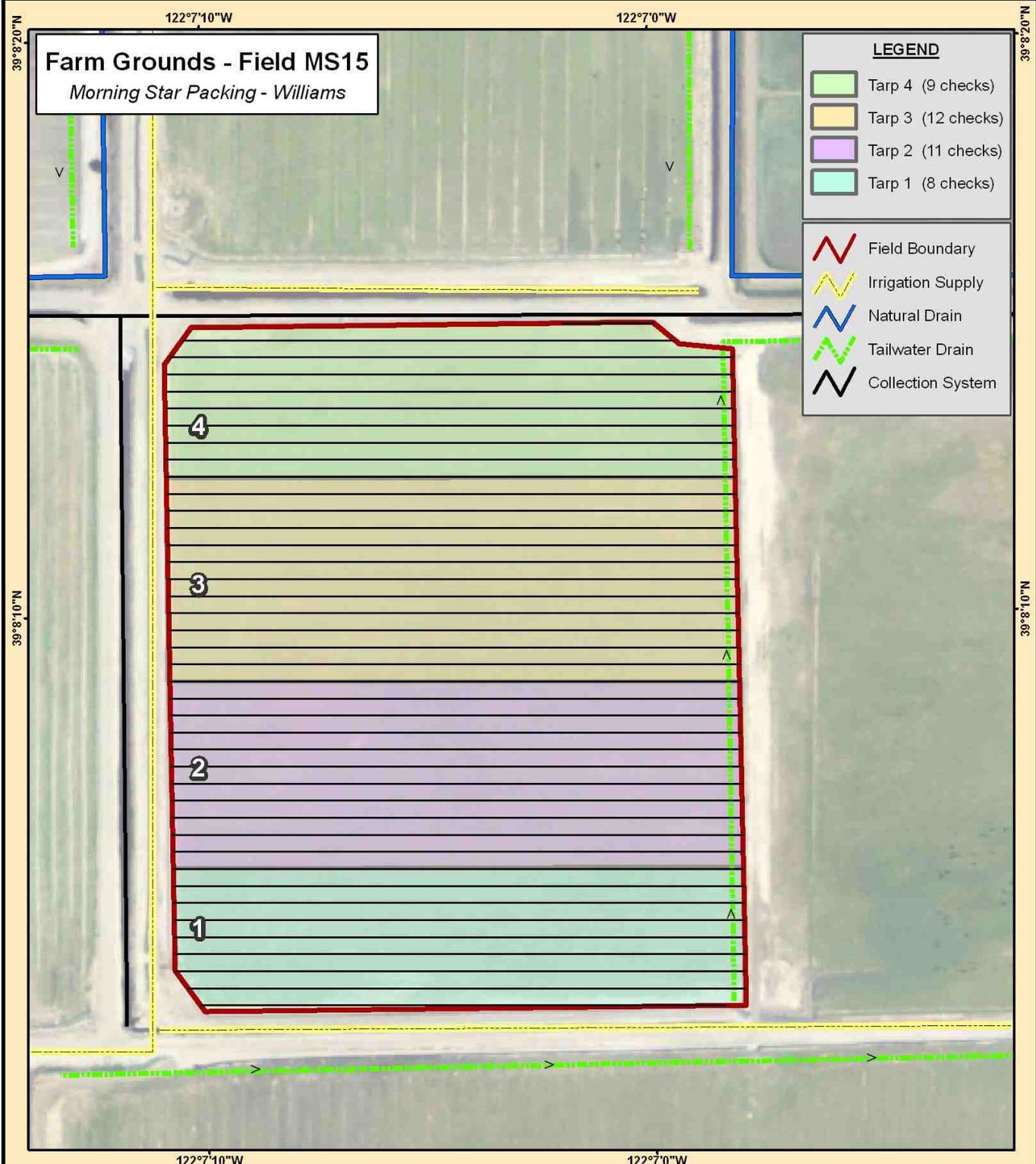
Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-050

Farm Grounds - Field MS15
Morning Star Packing - Williams

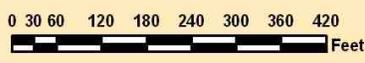
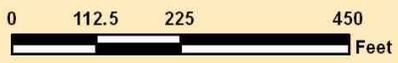
LEGEND

-  Tarp 4 (9 checks)
-  Tarp 3 (12 checks)
-  Tarp 2 (11 checks)
-  Tarp 1 (8 checks)
-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:2,700 1 Inch = 225 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-045

Attachment E

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS2

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	41.05
Number of Checks	58
Check Width (feet)	30
Check Length (feet)**	1,100
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	5/15/15
Actual Planting Date	5/20/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

**Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Total Volume to Each Check (gal)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (Inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6	11:00		0	1-21	Washwater	118,431	13	11.7	0.03	
7		12:00	0	1-21	Washwater	95,314	12	11.7	0.02	
8	12:00	13:00	0	22-45	Washwater	142,971	12	17.6	0.02	
9	13:00	14:00	0	22-45	Washwater	207,254	13	17.6	0.04	
10			0	46-58	Washwater	116,912	11	11.7	0.03	
11			0	46-58	Washwater	147,869	14	11.7	0.0	
12			0							
13			0							
14	15:00		0	1-29	Washwater	101,848	9	17.58	0.02	4
15			0	1-29	Washwater	181,248	24	17.58	0.03	4
16			0	1-29	Washwater	143,922	24	17.58	0.03	4
17			0	1-29	Washwater	310,218	24	17.58	0.05	4
18		19:00	0	1-29	Washwater	184,464	19	17.58	0.03	4
19	19:00		0	30-58	Washwater	64,724	5	23.44	0.01	3
20		22:00	0	30-58	Washwater	280,641	24	23.44	0.04	3
21	22:00		0	30-58	Washwater	267,702	22	23.44	0.04	3
22			0	1-58	Washwater	42,672	2	41.1	0.00	13
23			0	1-58	Washwater	291,672	24	41.1	0.02	13
24		2:00	0	1-58	Washwater	219,732	24	41.1	0.02	13
25	2:00		0	1-58	Washwater	235,510	24	41.1	0.02	13
26			0	1-58	Washwater	22,185	2	41.1	0.00	13
27			0	30-58	Washwater	139,180	22	23.44	0.02	13
28			0	30-58	Washwater	198,404	24	23.44	0.03	13
29			0	30-58	Washwater	189,754	24	23.44	0.02	13
30			0	30-58	Washwater	296,118	24	23.44	0.04	13
31			0	30-58	Washwater	105,324	6	23	0.0	13
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³	63
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS3

(Submit one sheet for each field irrigated during the month)
 Field Irrigation Information

Area (acres)	41.05
Number of Checks	53
Check Width (feet)	30
Check Length (feet)**	1,000
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	5/15/15
Actual Planting Date	5/20/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

**Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6	11:00		0	1-24	Washwater	181,891	13	18	0.03	
7		12:00	0	1-24	Washwater	146,386	12	18	0.02	
8	12:00		0	25-53	Washwater	187,863	12	23.1	0.02	
9		14:00	0	25-53	Washwater	502,763	24	23.1	0.07	
10			0	25-53	Washwater	291,448	14	23.1	0.04	
11			0							
12			0							
13			0							
14	15:00		0	1-24	Washwater	104,282	9	18.0	0.02	4
15			0	1-24	Washwater	185,578	24	18.0	0.03	4
16			0	1-24	Washwater	147,361	24	18.0	0.03	4
17			0	1-24	Washwater	317,629	24	18.0	0.05	4
18		20:00	0	1-24	Washwater	198,811	20	18.0	0.03	4
19	20:00		0	25-53	Washwater	51,028	4	23.1	0.01	7
20		22:00	0	25-53	Washwater	276,571	24	23.1	0.0	7
21	22:00		0	1-53	Washwater	263,819	22	23.1	0.04	7
22			0	1-53	Washwater	42,672	2	41.1	0.00	39
23			0	1-53	Washwater	291,672	24	41.1	0.02	39
24		2:00	0	1-53	Washwater	219,732	24	41.1	0.02	39
25	2:00		0	1-53	Washwater	235,510	24	41.1	0.02	39
26			0	1-53	Washwater	22,185	2	41.1	0.00	39
27			0	25-53	Washwater	137,161	22	23.1	0.02	39
28		6:00	0	25-53	Washwater	195,526	24	23.1	0.03	39
29			0	25-53	Washwater	187,002	24	23.1	0.02	39
30			0	25-53	Washwater	291,823	24	23.1	0.04	39
31			0	25-53	Washwater	103,797	6	23.1	0.0	39
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac) ³	70
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS5

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	24.6
Number of Checks	34
Check Width (feet)	30
Check Length (feet)**	1,200
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	5/16/15
Actual Planting Date	5/21/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

**Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6	12:00		0	1-14	Washwater	114,731	12	12.3	0.0	
7			0	1-14	Washwater	200,062	24	12.3	0.0	
8		14:00	0	1-14	Washwater	156,161	14	12.3	0.0	
	14:00			15-34	Washwater	111,544	10	12.3	0.0	
9			0	15-34	Washwater	266,034	24	12.3	0.1	
10		16:00	0	15-34	Washwater	221,666	16	12.3	0.1	
11			0							
12			0							
13	15:00		0	1-14	Washwater	166,331	9	12.3	0.04	10
14			0	1-14	Washwater	190,024	24	12.3	0.05	10
15			0	1-14	Washwater	126,812	24	12.3	0.03	10
16		18:00	0	1-14	Washwater	100,697	24	12.3	0.03	10
	0.75			15-34	Washwater	75,522	18	12.3	0.02	11
17			0	15-34	Washwater	54,262	6	12.3	0.01	11
18			0	15-34	Washwater	163,025	24	12.3	0.04	11
19		0.875	0	15-34	Washwater	128,857	21.0	12.3	0.0	11
20			0							
21			0							
22			0							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac) ³	53
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS6

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	21.4
Number of Checks	29
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Rice
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	7/1/15
Actual Planting Date	7/14/15
Anticipated Harvest Date	15-Oct
Actual Harvest Date	
Expected Harvest Yield	4 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0							
23			0							
24			0							
25	13:00		0	1-29	Washwater	83,021	11	21.4	0.0	
26			0	1-29	Washwater	173,240	24	21.4	0.0	
27			0	1-29	Washwater	270,347	24	21.4	0.0	
28			0	1-29	Washwater	384,632	24	21.4	0.1	
29			0	1-29	Washwater	602,656	24	21.4	0.1	
30			0	1-29	Washwater	517,619	24	21.4	0.1	
31		0:00	0	1-29	Washwater	361,673	24	21.4	0.1	
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³ 70

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS11

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	35.6
Number of Checks	32
Check Width (feet)	30
Check Length (feet)**	1,500
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	5/17/15
Actual Planting Date	5/22/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

**Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22	3:00		0	1-15	Washwater	83,268	21	17.8	0.01	
23			0	1-15	Washwater	101,997	24	17.8	0.02	
24		5:00	0	1-15	Washwater	24,021	5	17.8	0.00	
	5:00			16-32	Washwater	91,279	19	17.8	0.02	
25			0	16-32	Washwater	150,665	24	17.8	0.03	
26		7:00	0	16-32	Washwater	42,028	7	17.8	0.01	
27	9:00		0	1-15	Washwater	199,955	15	17.8	0.03	12
28			0	1-15	Washwater	501,274	24	17.8	0.1	12
29		11:00	0	1-15	Washwater	197,332	11	17.8	0.0	12
30	11:00		0	16-32	Washwater	233,211	13	17.8	0.0	16
		0:00		16-32	Washwater	300,831	24	17.8	0.1	16
31			0							
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³ 34

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS14

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	44.5
Number of Checks	54
Check Width (feet)	30
Check Length (feet)**	1,250
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Grass Hay
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	2-2.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6			0							
7			0							
8			0							
9	9:00		0	1-55	Washwater	601,551	15	44.5	0.04	
10			0	1-55	Washwater	1,202,942	24	44.5	0.08	
11			0	1-55	Washwater	1,415,520	24	44.5	0.10	
12		13:00	0	1-55	Washwater	926,774	13	44.5	0.06	
13			0							
14			0							
15			0							
16			0							
17	17:00		0	1-55	Washwater	163,594	5	44.5	0.01	24
18			0	1-55	Washwater	589,807	24	44.5	0.04	24
19			0	1-55	Washwater	532,787	24	44.5	0.04	24
20		21:00	0	1-55	Washwater	485,122	21	44.5	0.03	24
21			0							
22			0							
23			0							
24			0							
25			0							
26			0							
27			0							
27			0							
28			0							
28			0							
29			0							
30	6:00		0	1-32	Washwater	469,848	18	25.9	0.06	15
31		0:00	0.03	1-32	Washwater	437,726	24	26	0.1	15
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³	96
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH July
 YEAR 2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS15

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	26.7
Number of Checks	40
Check Width (feet)	30
Check Length (feet)**	1,000
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Sudan
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	5/15/15
Actual Planting Date	5/23/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29	4:00		0	1-19	Washwater	314,470	20	13	0.1	
30		6:00	0	1-19	Washwater	81,029	6	13	0.0	
31	6:00		0	20-40	Washwater	169,851	18	13	0.0	
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac) ³	13
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS16

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	36.7
Number of Checks	*42
Check Width (feet)	30
Check Length (feet)**	1,240
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	5/18/15
Actual Planting Date	5/23/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

*Estimated & Calculated based on Google Earth with 30' checks
 **Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12	4:00		0	1-21	Washwater	589,546	20	18.4	0.10	
13			0	1-21	Washwater	663,522	24	18.4	0.11	
14			0	1-21	Washwater	284,264	24	18.4	0.05	
15		7:00	0	1-21	Washwater	55,330	7	18.4	0.01	
	7:00			22-42	Washwater	134,373	17	18.4	0.02	
16			0	22-42	Washwater	150,636	24	18.4	0.03	
17			0	22-42	Washwater	324,688	24	18.4	0.05	
18		10:00	0	22-42	Washwater	101,615	10	18.4	0.02	
19			0							
20			0							
21			0							
22	15:00		0	1-21	Washwater	36,889	9	18.4	0.01	15
23			0	1-21	Washwater	105,435	24	18.4	0.02	15
24		17:00	0	1-21	Washwater	84,423	17	18.4	0.01	15
	17:00			22-42	Washwater	34,763	7	18.4	0.01	22
25			0	22-42	Washwater	155,744	24	18.4	0.03	22
26		19:00	0	22-42	Washwater	117,922	19	18.4	0.02	22
	19:00			1-42	Washwater	61,895	5	36.7	0.01	13
27			0	1-42	Washwater	463,632	24	36.7	0.04	13
28		21:00	0	1-42	Washwater	577,172	21	36.7	0.05	13
29			0							
30			0							
31			0							
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³	67
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS18a

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	39.1
Number of Checks*	42
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	5/18/15
Actual Planting Date	5/25/15
Anticipated Harvest Date	7/20, 9/20
Actual Harvest Date	
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

*Estimated & Calculated based on Google Earth with 30' checks
 **Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6	7:00		0	1-18	Washwater	222,001	17	16.8	0.04	
7		8:00	0	1-18	Washwater	91,085	8	16.8	0.02	
	8:00		0	19-30	Washwater	121,447	16	11.2	0.03	
8		9:00	0	19-30	Washwater	91,411	9	11.2	0.03	
	9:00		0	31-42	Washwater	152,352	15	11.2	0.04	
9		10:00	0	31-42	Washwater	100,934	10	11.2	0.03	
10			0							
11			0							
12			0							
13	14:00		0	1-18	Washwater	252,427	10	16.8	0.05	4
14			0	1-18	Washwater	259,546	24	16.8	0.05	4
15			0	1-18	Washwater	173,207	24	16.8	0.03	4
16		17:00	0	1-18	Washwater	97,422	17	16.8	0.02	4
	17:00		0	19-30	Washwater	26,743	7	11.2	0.01	3
17			0	19-30	Washwater	197,636	24	11.2	0.05	3
			0	19-30	Washwater	117,520	19	11.2	0.03	3
18		19:00	0	31-42	Washwater	30,926	5	11.2	0.01	4
	19:00		0	31-42	Washwater	134,095	24.0	11.2	0.0	4
19			0	31-42	Washwater	122,098	21	11.2	0.03	4
20		21:00	0	31-42	Washwater					
21			0							
22			0							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³	35
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	39.1
Number of Checks*	43
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

*Estimated & Calculated based on Google Earth with 30' checks

**Est based on Google Earth

MS18b

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	5/18/15
Actual Planting Date	5/25/15
Anticipated Harvest Date	7/20, 9/20
Actual Harvest Date	
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6	8:00		0	1-24	Washwater	277,345	16	22.3	0.04	
7			0	1-24	Washwater	362,713	24	22.3	0.05	
8		10:00	0	1-24	Washwater	202,230	10	22.3	0.03	
	10:00			25-43	Washwater	213,293	14	16.8	0.04	
9			0	25-43	Washwater	363,364	24	16.8	0.07	
10		12:00	0	25-43	Washwater	227,072	12	16.8	0.04	
11			0							
12			0							
13	15:00		0	1-24	Washwater	301,560	9	22.3	0.04	10
14			0	1-24	Washwater	344,516	24	22.3	0.05	10
15		17:00	0	1-24	Washwater	162,854	17	22.3	0.02	10
	17:00			25-43	Washwater	50,519	7	16.8	0.01	12
16			0	25-43	Washwater	137,537	24	16.8	0.03	12
17		19:00	0	25-43	Washwater	234,693	19	16.8	0.04	12
18			0							
19	22:00		0	1-24	Washwater	22,249	2	22.3	0.00	31
20			0	1-24	Washwater	277,835	24	22.3	0.04	31
21		0:00	0	1-24	Washwater	158,255	24	22.3	0.02	31
	0:00			25-43	Washwater	-	0	16.8	0.00	22
22			0	25-43	Washwater	89,818	24	16.8	0.02	22
23			0	25-43	Washwater	96,267	24	16.8	0.02	22
24		3:00	0	25-43	Washwater	13,603	3	16.8	0.00	22
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³	57
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS24

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	39.95
Number of Checks*	44
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

*Estimated & Calculated based on Google Earth with 30' checks
 **Est based on Google Earth

Crop Information

Crop Name	Sudan
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	8/1/15
Actual Planting Date	
Anticipated Harvest Date	
Actual Harvest Date	
Expected Harvest Yield	
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0							
2			0							
3			0.03							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.03							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac) ³	0
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

July

 YEAR

2015

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order R5-2013-0144

LAND APPLICATION AREA MONITORING TOTAL NITROGEN LOADING RESULTS

LAA Field	Gebel	MS 1	MS 2	MS 3	MS 5	MS 6	MS 11	MS 14	MS 15	MS 16	MS 18a	MS 18b	MS 24
Acres of LAA Irrigated													
Total Nitrogen Loading from Wastewater (lbs/ac/month)			63	70	53	70	34	96	13	67	35	57	
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)													9
Total Nitrogen Loading Rate from Cooling Pond Solids (lbs/ac/month)													
Total Nitrogen Loading Rate from Residual Solids (lbs/ac/month)													
Total Nitrogen Loading Rate from Cattle/ Manure (lbs/ac/month)													
Total Nitrogen Loading Rate from Commercial Fertilizers (lbs/ac/month)													
Cumulative Annual Total Nitrogen Value (lbs/ac/year)													
Annual Crop Demand (lbs/ac/year)													

Attachment F

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

MONTHLY MONITORING REPORT

MONTH July
YEAR 2015

LAND APPLICATION AREA WASTEWATER INSPECTION MONITORING

Field No. M5 Technician J. Young
Date 7/9/15 Weather Mostly Cloudy

1. Any evidence of erosion: yes/no no
2. Berm Condition: good
3. Standpipe and flow control valve condition N/A
4. Are the valves being used properly: yes/no Yes
5. Is there any soil saturation: yes/no no
6. Is there any ponding: yes/no no
7. Is there any potential runoff to offsite areas: yes/no no
8. Is there any potential and actual discharge to surface water: yes/no no
9. Are there any accumulation of organic solids at soil surface: yes/no no
10. Is there any soil clogging: yes/no no
11. Are there any odors that have the potential to be objectionable at or beyond the property boundary: yes/no no
12. Are there any insects: yes/no no
13. Temperature and wind direction/strength 68° wind SE @ 8 mph
14. Other observations Crops are growing good.

At least once per week when wastewater is being applied to the land application areas, the application areas in use shall be inspected to identify any equipment malfunction or other circumstance that might allow wastewater or irrigation runoff to leave each LAA and/or create conditions that violate the Waste Discharge Requirements. A log of these inspections shall be kept at the facility and summarized for submittal with the monthly monitoring reports.

In accordance with Section A.5 of the Monitoring Report, please attach a current site plan depicting the irrigation checks within each LAA field that will be used during the calendar year, including all water conveyance ditches and internal berms that divide each LAA (where applicable).

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R6-2013-0144

MONTHLY MONITORING REPORT

MONTH July
YEAR 2015

LAND APPLICATION AREA WASTEWATER INSPECTION MONITORING

Field No. MS
Date 7/16/15

Technician J. Young
Weather Sunny

- 1. Any evidence of erosion: yes/no no
- 2. Berm Condition: good
- 3. Standpipe and flow control valve condition N/A
- 4. Are the valves being used properly: yes/no Yes
- 5. Is there any soil saturation: yes/no no
- 6. Is there any ponding: yes/no no
- 7. Is there any potential runoff to offsite areas: yes/no no
- 8. Is there any potential and actual discharge to surface water: yes/no no
- 9. Are there any accumulation of organic solids at soil surface: yes/no no
- 10. Is there any soil clogging: yes/no no
- 11. Are there any odors that have the potential to be objectionable at or beyond the property boundary: yes/no no
- 12. Are there any insects: yes/no no
- 13. Temperature and wind direction/strength 78° winds NE @ 5mph
- 14. Other observations Crops growing good

At least once per week when wastewater is being applied to the land application areas, the application areas in use shall be inspected to identify any equipment malfunction or other circumstance that might allow wastewater or irrigation runoff to leave each LAA and/or create conditions that violate the Waste Discharge Requirements. A log of these inspections shall be kept at the facility and summarized for submittal with the monthly monitoring reports.

In accordance with Section A.5 of the Monitoring Report, please attach a current site plan depicting the irrigation checks within each LAA field that will be used during the calendar year, including all water conveyance ditches and internal berms that divide each LAA (where applicable).

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

MONTHLY MONITORING REPORT

MONTH 2-23 July
YEAR 2015

LAND APPLICATION AREA WASTEWATER INSPECTION MONITORING

Field No. MS Technician J. Young
Date 7-23-15 Weather Sunny

1. Any evidence of erosion: yes/no no
2. Berm Condition: Good
3. Standpipe and flow control valve condition N/A
4. Are the valves being used properly: yes/no ~~no~~ YES
5. Is there any soil saturation: yes/no no
6. Is there any ponding: yes/no no
7. Is there any potential runoff to offsite areas: yes/no no
8. Is there any potential and actual discharge to surface water: yes/no no
9. Are there any accumulation of organic solids at soil surface: yes/no no
10. Is there any soil clogging: yes/no no
11. Are there any odors that have the potential to be objectionable at or beyond the property boundary:
yes/no no
12. Are there any insects: yes/no no
13. Temperature and wind direction/strength 70° wind ESE @ 2 mph
14. Other observations Crops growing good.

At least once per week when wastewater is being applied to the land application areas, the application areas in use shall be inspected to identify any equipment malfunction or other circumstance that might allow wastewater or irrigation runoff to leave each LAA and/or create conditions that violate the Waste Discharge Requirements. A log of these inspections shall be kept at the facility and summarized for submittal with the monthly monitoring reports.

In accordance with Section A.6 of the Monitoring Report, please attach a current site plan depicting the irrigation checks within each LAA field that will be used during the calendar year, including all water conveyance ditches and internal berms that divide each LAA (where applicable).

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

MONTHLY MONITORING REPORT

MONTH July
YEAR 2015

LAND APPLICATION AREA WASTEWATER INSPECTION MONITORING

Field No. M5 Technician J. Young
Date 7/30/15 Weather Partly Cloudy

- 1. Any evidence of erosion: yes/no no
- 2. Berm Condition: good
- 3. Standpipe and flow control valve condition N/A
- 4. Are the valves being used properly: yes/no Yes
- 5. Is there any soil saturation: yes/no no
- 6. Is there any ponding: yes/no no
- 7. Is there any potential runoff to offsite areas: yes/no no
- 8. Is there any potential and actual discharge to surface water: yes/no no
- 9. Are there any accumulation of organic solids at soil surface: yes/no no
- 10. Is there any soil clogging: yes/no no
- 11. Are there any odors that have the potential to be objectionable at or beyond the property boundary: yes/no no
- 12. Are there any insects: yes/no no
- 13. Temperature and wind direction/strength 79° Wind NE/5mph
- 14. Other observations CROPS growing good

At least once per week when wastewater is being applied to the land application areas, the application areas in use shall be inspected to identify any equipment malfunction or other circumstance that might allow wastewater or irrigation runoff to leave each LAA and/or create conditions that violate the Waste Discharge Requirements. A log of these inspections shall be kept at the facility and summarized for submittal with the monthly monitoring reports.

In accordance with Section A.5 of the Monitoring Report, please attach a current site plan depicting the Irrigation checks within each LAA field that will be used during the calendar year, including all water conveyance ditches and internal berms that divide each LAA (where applicable).

Attachment G

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order R5-2013-0144

MONTHLY MONITORING REPORT

MONTH

July

YEAR

2015

RESIDUAL SOLIDS MONITORING :

Date	Type of Solids Generated	Volume of Solids Generated (tons) ¹	Volume of Solids Disposed of Offsite (tons)	Offsite Solids Disposal Location ²	Volume of Solids Disposed of Onsite (tons)	Onsite Solids Disposal Location ³
July	Pomace	11,967,780				
July	Wet Waste	8,975,820				

¹Volume of Solids Generated. Solids may include pomace, seeds, stems, diatomaceous earth, screenings, pond solids, and sump solids, or other material.

²Volume Disposed of Off-site. Describe the disposal method (e.g. animal feed, land application, off-site composting, landfill, etc.) and the name of the hauling company.

³Volume Disposed of On-site; location of on-site disposal (e.g. land application area field); method of application, spreading, and incorporation; application rate (tons/acre), and results from weekly grab sample analysis for total nitrogen.

Solids used in onsite animal feed process. Will be sold.

Attachment H

DISCHARGE Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order R5-2013-0144

MONTHLY MONITORING REPORT : No water in pond

MONTH

July

 YEAR

2015

FIELD INSTRUMENT CALIBRATION LOG

Monitoring Week	Date	Time	Lower Standard pH Buffer	Lower Standard Stabilized pH	Lower pH Standard Calibrated pH	Upper Standard pH Buffer	Upper Standard Stabilized pH	Upper Standard Calibrated pH	DO Initial Reading	Electrolyte Solution Added	DO Reading after Calibration	Technican's Initials
Week 1												
Week 2	7/9/15	7:45	4.0	3.9	N/A	10.0	9.8	N/A	2.0	N/A	N/A	Jl
Week 3												
Week 4												
Week 5												

If either calibrated pH value is more than 0.2 higher or lower than its corresponding pH buffer value, recalibrate the meter before using it in the field.



INSTRUMENT CALIBRATION REPORT

Aqua Sierra Controls, Inc.
 1650 Industrial Drive
 Auburn, CA 95603
 Phone (800) 649-4287
 Fax (530) 823-3475
 service@aquasierra.com

Attn: JAMES BRISCOE
MORNING STAR PACKING COMPANY
 2211 OLD HIGHWAY 99
 WILLIAMS, CA 95987

Instrument ID 01
Description FLOW METER

Serial Number AU022588
Model Number U SONIC R

Calibrated 5/29/2015
Scheduled 5/29/2016
Calibration ID 23780
Certificate # 01
Equipment ID

Department
Manufacturer DREXEL BROOK
Calibration Type SCHEDULED
Location SETTLING POND
Building OUTSIDE

Calibration Specifications

Stated Accy		Pct of Reading					
<u>In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Error %</u>	<u>Lft As</u>	<u>Error %</u>
0.00	FEET H2O	0.00	GPM	0.00	0.00%	0.00	0.00%
0.20	FEET H2O	334.20	GPM	338.40	1.26%	338.40	1.26%
0.54	FEET H2O	1483.00	GPM	1,471.00	-0.81%	1,471.00	-0.81%
0.71	FEET H2O	2235.00	GPM	2,268.00	1.48%	2,268.00	1.48%
0.87	FEET H2O	3032.00	GPM	3,047.00	0.49%	3,047.00	0.49%

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>
135	Ultrasonic Calibration Stand	ASC	1076-10	ASC-03-JOHN

Notes about this calibration

3' RECTANGULAR WEIR
 ZERO DISTANCE = 33.3", ZERO DISTANCE MAY CHANGE, CUSTOMER SETS WHEN FLOW AVERAGES.
 VERIFIED LEVEL READING AT WEIR.
 NO TOTALIZER, RATE ONLY.

Calibration Result Calibration Successful

Who Calibrated JOHN TURNER



INSTRUMENT CALIBRATION REPORT

Aqua Sierra Controls, Inc.
 1650 Industrial Drive
 Auburn, CA 95603
 Phone (800) 649-4287
 Fax (530) 823-3475
 service@aquasierra.com

Attn: JAMES BRISCOE
MORNING STAR PACKING COMPANY
 2211 OLD HIGHWAY 99
 WILLIAMS, CA 95987

Instrument ID 02
Description FLOW METER

Serial Number A1J000210
Model Number U SONIC R

Calibrated 5/29/2015
Scheduled 5/29/2016
Calibration ID 23781
Certificate # 02
Equipment ID

Department
Manufacturer DREXEL BROOK
Calibration Type SCHEDULED
Location COOLING POND
Building OUTSIDE

Calibration Specifications

Stated Accy		Pct of Reading					
<u>In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Error %</u>	<u>Lft As</u>	<u>Error %</u>
0.00	FEET H2O	0.00	GPM	0.00	0.00%	0.00	0.00%
0.22	FEET H2O	301.70	GPM	298.00	-1.23%	298.00	-1.23%
0.41	FEET H2O	752.80	GPM	749.00	-0.50%	749.00	-0.50%
0.55	FEET H2O	1153.00	GPM	1,169.00	1.39%	1,169.00	1.39%
0.67	FEET H2O	1530.00	GPM	1,524.00	-0.39%	1,524.00	-0.39%

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>
135	Ultrasonic Calibration Stand	ASC	1076-10	ASC-03-JOHN

Notes about this calibration

2' RECTANGULAR WEIR WITH END CONTRACTIONS
 ZERO DISTANCE = 32.6" OR 2.72'
 ZERO DISTANCE SET BY CUSTOMER
 NEW TRANSDUCER
 CHANNEL #2

Calibration Result Calibration Successful

Who Calibrated JOHN TURNER



INSTRUMENT CALIBRATION REPORT

Aqua Sierra Controls, Inc.
 1650 Industrial Drive
 Auburn, CA 95603
 Phone (800) 649-4287
 Fax (530) 823-3475
 service@aquasierra.com

Attn: JAMES BRISCOE
MORNING STAR PACKING COMPANY
 2211 OLD HIGHWAY 99
 WILLIAMS, CA 95987

Instrument ID 03
Description FLOW METER

Serial Number A1J000210
Model Number U SONIC R

Calibrated 5/29/2015
Scheduled 5/29/2016
Calibration ID 23782
Certificate # 03
Equipment ID

Department
Manufacturer DREXEL BROOK
Calibration Type SCHEDULED
Location MAIN DITCH
Building OUTSIDE

<u>Calibration Specifications</u>							
Stated Accy		Pct of Reading					
<u>In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Error %</u>	<u>Lft As</u>	<u>Error %</u>
0.00	FEET H2O	0.00	GPM	0.00	0.00%	0.00	0.00%
0.20	FEET H2O	334.20	GPM	339.00	1.44%	339.00	1.44%
0.54	FEET H2O	1483.00	GPM	1,476.00	-0.47%	1,476.00	-0.47%
0.71	FEET H2O	2235.00	GPM	2,229.00	-0.27%	2,229.00	-0.27%
0.87	FEET H2O	3032.00	GPM	3,045.00	0.43%	3,045.00	0.43%

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>
135	Ultrasonic Calibration Stand	ASC	1076-10	ASC-03-JOHN

Notes about this calibration

2.5' RECTANGULAR WEIR
 CHANNEL #1
 VERIFIED LEVEL READING AT WEIR
 ZERO DISTANCE MEASURED AT 3.13'
 ZERO DISTANCE IS SET BY CUSTOMER.
 NO TOTALIZER

Calibration Result Calibration Successful

Who Calibrated JOHN TURNER