Hilary Armstrong Reinhard, P.E., QSD, QSP
P.O. Box 365
Madison, CA 95653

November 6, 2015

Wendy Wyles

Central Valley Regional Water Quality Control Board

11020 Sun Center Drive #200

Rancho Cordova, CA 95670-6114

Subject: The Morning Star Packing Company, LP Crop Nitrogen Demands

Dear Ms Wyles:

As requested in your email November 4, 2015, we are supplying the crop nitrogen demands for the crops grown on The Morning Star Packing Company's land application area (LAA). The 2014 annual nitrogen loading rates and crop nitrogen demands were provided in the 2014 annual report. However, you are correct; the box in Attachment E was not filled out during the processing season. The corrected field loading sheets for June, July, August, September and October of 2014 are provided as **Attachment A**. Monthly nitrogen loading summaries are included for May, June, July, August, September and October (the months where nitrogen was applied). The annual summary included at the end of Attachment A. For 2014, the annual total nitrogen applied was less than the crop demand for all fields. The corrected field loading sheets for March, June, July, August and September of 2015 are provided as **Attachment B**. The monthly nitrogen summaries for months June, July, August and September of 2015 are also included with Attachment B.

Crop nitrogen demand information was obtained from the Western Fertilizer Handbook. The majority of the LAA is double cropped. The crop nitrogen demands used for the crops grown are provided below:

- Oats – 115 lbs/acre
- Rice – 110 lbs/acre
- Sudan – 325 lbs/acre

- Alfalfa – 480 lbs/acre
- Pasture – 300 lbs/acre (150 lbs/acre for crop that was replaced mid-year)
- Wheat Grass – 175 lbs/acre
- Rye Grass – 480 lbs/acre (Rye grass was overplanted on existing alfalfa field)

For the fields that were double cropped the crop nitrogen demands for the two crops were added together to determine the annual crop nitrogen demand. For example, the annual crop nitrogen demand for a field planted in oats and Sudan is 440 lbs/acre (115 lbs/acre + 325 lbs/acre).

The evapotranspiration rates (ET) for the crops has also been added to the monthly field loading sheets. A hydraulic loading summary had been provided with the 2014 annual report. This summary provided the ET rates and the hydraulic loadings for each field; however, the monthly loading sheets did not provide the information. This information is now included in the 2014 and 2015 field loading sheets that are provided in Attachment A and Attachment B.

The field loading sheet crop ET information was obtained from the Irrigation Training and Research Center (ITRC) website. The facility is located in Zone 12. The ET rates provided for irrigation scheduling on surface irrigated fields was used for this information. A summary is provided as **Attachment C**.

Additionally, an updated September Residual Solids Monitoring sheet for 2015 has been corrected and included as **Attachment D**.

Please contact me if there are any questions or additional information is requested.

Respectfully,

Hilary A. Reinhard, P.E.

Attachment A

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	4-Jun
Actual Planting Date	6/4/14
Anticipated Harvest Date	August 13, October 17
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3	11:30 AM	7:00 PM	0.00	Checks 1-8	Supp. Irrig	825	7.5	2.26	
	7:00 PM			Checks 9-13	Supp. Irrig	825	5	2.41	
4		8:00 AM	0.00	Checks 1-13	Supp. Irrig	825	8	3.86	
	8:00 AM		0.00	Checks 1-13	Supp. Irrig	825	16	2.97	
5		6:30 AM	0.00	Checks 1-13	Supp. Irrig	353	6.5	0.52	
	6:30 AM			Checks 14-19	Supp. Irrig	353	17.5	3.01	
6		6:00 AM	0.00	Checks 14-19	Supp. Irrig	715	6	2.09	
	6:00 AM			Checks 20-29	Supp. Irrig	715	18	3.76	
7		6:00 AM	0.00	Checks 20-29	Supp. Irrig	1645	6	2.89	
	6:00 AM			Checks 30-37	Supp. Irrig	1645	18	10.82	
8		6:00 AM	0.00	Checks 30-37	Supp. Irrig	1645	6	3.61	
	6:00 AM			Checks 38-44	Supp. Irrig	1645	18	12.37	
9		6:00 AM	0.00	Checks 38-44	Supp. Irrig	1645	6	4.12	
	6:00 AM			Checks 45-52	Supp. Irrig	1645	18	10.82	
10		6:00 AM	0.00	Checks 45-52	Supp. Irrig	720	6	1.58	
	6:30 AM			Checks 53-59	Supp. Irrig	720	17.5	5.26	
11		6:30 AM	0.00	Checks 53-59	Supp. Irrig	720	6.5	1.95	
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25	4:00 PM		0.00	Checks 1-8	Supp. Irrig	669	8	1.96	
26		7:00 AM	0.00	Checks 1-8	Supp. Irrig	629	7	1.61	
	7:00 AM	5:30 PM		Checks 9-14	Supp. Irrig	629	10.5	3.22	
	5:30 PM			Checks 15-23	Supp. Irrig	629	6.5	1.33	
27		7:00 AM	0.00	Checks 15-23	Supp. Irrig	374	7	0.85	
	7:00 AM	8:00 PM		Checks 24-31	Supp. Irrig	374	13	1.78	
	8:00 PM			Checks 32-38	Supp. Irrig	374	4	0.62	
28		5:00 PM	0.00	Checks 32-38	Supp. Irrig	730	17	5.18	
	5:00 PM			Checks 39-45	Supp. Irrig	730	7	2.13	
29		8:00 AM	0.00	Checks 39-45	Supp. Irrig	730	8	2.44	
	8:00 AM			Checks 46-52	Supp. Irrig	730	16	4.88	
30		2:00 AM	0.00	Checks 46-52	Supp. Irrig	517	2	0.43	
	2:00 AM	2:30 PM		Checks 53-59	Supp. Irrig	517	12.5	2.70	
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5-Jun
Actual Planting Date	5-Jun
Anticipated Harvest Date	August 14, October 18
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3	10:00 AM	4:45 PM	0.00	Checks 1-6	Supp. Irrig	825	6.75	2.98	
	5:00 PM			Checks 7-19	Supp. Irrig	825	7	1.55	
4		8:30 AM	0.00		Supp. Irrig	825	8.5	1.88	
	8:30 AM	5:30 PM		Checks 1-6	Supp. Irrig	825	9	3.98	
	5:30 PM			Checks 1-18	Supp. Irrig	825	6.5	0.96	
5		6:30 AM	0.00	Checks 1-18	Supp. Irrig	353	6.5	0.41	
	6:30 AM			Checks 20-26	Supp. Irrig	353	17.5	2.48	
6		6:00 AM	0.00	Checks 20-26	Supp. Irrig	715	6	1.72	
	6:00 AM			Checks 27-30	Supp. Irrig	715	18	10.35	
7		6:00 AM	0.00	Checks 27-30	Supp. Irrig	1645	6	7.94	
	6:00 AM			Checks 31-35	Supp. Irrig	1645	18	19.05	
8		6:00 AM	0.00	Checks 31-35	Supp. Irrig	1645	6	6.35	
	6:00 AM			Checks 36-42	Supp. Irrig	1645	18	13.60	
9		6:00 AM	0.00	Checks 36-42	Supp. Irrig	1645	6	4.53	
	6:00 AM			Checks 43-49	Supp. Irrig	1645	18	13.60	
10		6:00 AM	0.00	Checks 43-49	Supp. Irrig	720	6	1.98	
	6:30 AM			Checks 50-54	Supp. Irrig	720	17.5	8.10	
11		6:30 AM	0.00	Checks 50-54	Supp. Irrig	720	6.5	3.01	
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25	4:00 PM		0.00	Checks 1-6	Supp. Irrig	669	8	2.87	
26		7:00 AM	0.00	Checks 1-6	Supp. Irrig	629	7	2.36	
	7:00 AM	7:00 PM		Checks 6-13	Supp. Irrig	629	12	3.03	
	7:00 PM			Checks 14-21	Supp. Irrig	629	5	1.26	
27		7:00 AM	0.00	Checks 14-21	Supp. Irrig	374	7	1.05	
	7:00 AM			Checks 22-29	Supp. Irrig	374	17	2.56	
28		4:00 AM	0.00	Checks 22-29	Supp. Irrig	730	4	1.17	
	4:00 AM	6:00 PM		Checks 30-37	Supp. Irrig	730	14	4.11	
	6:00 PM			Checks 38-45	Supp. Irrig	730	6	1.76	
29		9:00 AM	0.00	Checks 38-45	Supp. Irrig	517	9	1.87	
	9:00 AM			Checks 46-54	Supp. Irrig	517	15	2.77	
30		3:00 AM	0.00	Checks 46-54	Supp. Irrig	517	3	0.55	
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June	**DISCHARGER:**	**Morning Star Packing Company, LP and Fred Gobel**
		FACILITY:	**Morning Star Tomato Packing Plant**
YEAR	2014	**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)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	3-Jul
Actual Planting Date	N/A
Anticipated Harvest Date	Sept 11, November 15
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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	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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1	0.00						
2	0.00						
3	0.00						
4	0.00						
5	0.00						
6	0.00						
7	0.00						
8	0.00						
9	0.00						
10	0.00						
11	0.00						
12	0.00						
13	0.00						
14	0.00						
15	0.00						
16	0.00						
17	0.00						
18	0.00						
19	0.00						
20	0.00						
21	0.00						
22	0.00						
23	0.00						
24	0.00						
25	0.00						
26	0.00						
27	0.00						
28	0.00						
29	0.00						
30	0.00						
31	0.00						
Total	0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June	**DISCHARGER:**	**Morning Star Packing Company, LP and Fred Gobel**
		FACILITY:	**Morning Star Tomato Packing Plant**
YEAR	2014	**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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	3-Jul
Actual Planting Date	
Anticipated Harvest Date	Sept 11, November 15
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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	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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1	0.00						
2	0.00						
3	0.00						
4	0.00						
5	0.00						
6	0.00						
7	0.00						
8	0.00						
9	0.00						
10	0.00						
11	0.00						
12	0.00						
13	0.00						
14	0.00						
15	0.00						
16	0.00						
17	0.00						
18	0.00						
19	0.00						
20	0.00						
21	0.00						
22	0.00						
23	0.00						
24	0.00						
25	0.00						
26	0.00						
27	0.00						
28	0.00						
29	0.00						
30	0.00						
31	0.00						
Total	0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	24-Jun
Actual Planting Date	24-Jun
Anticipated Harvest Date	Sept 2, Nov 6
Actual Harvest Date	N/A
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23	8:00 AM		0.00	Checks 1-6	Suppl Irrig	943	16	5.39	
24		10:00 AM	0.00	Checks 1-6	Suppl Irrig	896	10	3.20	
	10:00 AM			Checks 7-13	Suppl Irrig	896	14	3.84	
25		1:00 PM	0.00	Checks 7-13	Suppl Irrig	1338	13	5.33	
	1:00 PM			Checks 14-20	Suppl Irrig	1338	11	4.51	
26		4:30 PM	0.00	Checks 14-20	Suppl Irrig	629	16.5	3.18	
	4:30 PM			Checks 21-32	Suppl Irrig	629	7.5	0.84	
27			0.00	Checks 21-32	Suppl Irrig	373.75	24	1.60	
28		10:30 AM	0.00	Checks 21-32	Suppl Irrig	730	10.5	1.37	
29			0.00						
30			0.00						
31			0.00						
Total			0.00						

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

[2]**See 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

[3]**See MRP footnote 5**

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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)	7.53
Total Nitrogen Demand (lb/ac)	480
Anticipated Planting Date	June 19th
Actual Planting Date	2008
Anticipated Harvest Date	August 28, Nov 1
Actual Harvest Date	N/A
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						0
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00						
26			0.00						
27			0.00						
28			0.00						
29			0.00						
30			0.00						
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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 Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	30-Jun
Actual Planting Date	30-Jun
Anticipated Harvest Date	Sept 8, Nov 12
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00						
26			0.00						
27			0.00						
28			0.00						
29			0.00						
30	4:00 PM		0.00	Checks 1-7	Suppl. Irrig		8.00	0.00	
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	1-Jul
Actual Planting Date	
Anticipated Harvest Date	Sept 9, Nov 13
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00						
26			0.00						
27			0.00						
28			0.00						
29			0.00						
30	5:00 PM		0.00	Checks 1-5	Suppl. Irrig		7.00	0.00	
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	23-Jun
Actual Planting Date	23-Jun
Anticipated Harvest Date	Sept 1, Nov 5
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23	7:00 AM		0.00	Checks 1-7	Suppl. Irrig	943	17.00	5.66	
24		11:00 AM	0.00	Checks 1-7	Suppl. Irrig	896	11	3.48	
	11:00 AM			Checks 6-13	Suppl. Irrig	896	13	3.60	
25		9:00 AM	0.00	Checks 6-13	Suppl. Irrig	1338	9	3.72	
	9:00 AM			Checks 14-20	Suppl. Irrig	1338	15	7.09	
26		8:30 AM	0.00	Checks 14-20	Suppl. Irrig	629	8.5	1.89	
	8:30 AM			Checks 21-27	Suppl. Irrig	629	15.5	3.45	
27		3:00 AM	0.00	Checks 21-27	Suppl. Irrig	374	3	0.40	
	3:00 AM	7:00 PM		Checks 28-34	Suppl. Irrig	374	16	2.11	
	7:00 PM			Checks 34-42	Suppl. Irrig	374	5	0.51	
28		3:00 PM	0.00	Checks 34-42	Suppl. Irrig	730	15	3.01	
29			0.00						
30			0.00						
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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 MS18b

(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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	23-Jun
Actual Planting Date	23-Jun
Anticipated Harvest Date	Sept 1, Nov 5
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00						
26			0.00						
27	7:00 PM		0.00	Check 42	Suppl. Irrig			0.00	
28		3:00 PM	0.00	Check 42	Suppl. Irrig			0.00	
	3:00 PM			Checks 43-49	Suppl. Irrig			0.00	
29		2:00 PM	0.00	Checks 43-49	Suppl. Irrig			0.00	
	3:00 PM			Checks 50-57	Suppl. Irrig			0.00	
30		11:30am	0.00	Checks 50-57	Suppl. Irrig			0.00	
	11:30am			Checks 58-64	Suppl. Irrig			0.00	
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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 MS20a

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	34
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	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	10-Jun
Actual Planting Date	10-Jun
Anticipated Harvest Date	Aug 19, Oct 23
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8	1:00 PM		0.00	Checks 1-11	Supp. Irrig	1645	11	4.23	
9			0.00	Checks 1-11	Supp. Irrig	1645	24	9.23	
10		8:00 AM	0.00	Checks 1-11	Supp. Irrig	720	8	1.35	
	8:00 AM			Checks 12-19	Supp. Irrig	720	16	3.70	
11		8:00 AM	0.00	Checks 12-19	Supp. Irrig	720	8	1.85	
	8:00 AM			Checks 20-28	Supp. Irrig	720	16	3.29	
12		8:00 AM	0.00	Checks 20-28	Supp. Irrig	720	8	1.65	
	8:00 AM			Checks 29-34	Supp. Irrig	475	16	3.26	
13		7:00 AM	0.00	Checks 29-34	Supp. Irrig	475	7	1.43	
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00						
26	10:30 AM	15:00	0.00	Checks 1-5	Supp. Irrig	629	4.5	1.46	
27			0.00						
28			0.00						
29			0.00						
30			0.00						
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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 MS20b

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	35
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	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	10-Jun
Actual Planting Date	10-Jun
Anticipated Harvest Date	Aug 19, Oct 23
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12	8:00 AM			Checks 35-37	Supp. Irrig	238	16	3.26	
13		7:00 AM	0.00	Checks 35-37	Supp. Irrig	238	7	1.43	
	7:00 AM			Checks 38-46	Supp. Irrig	238	17	1.15	
14		6:00 AM	0.00	Checks 38-46	Supp. Irrig	790	6	1.36	
	6:00 AM			Checks 47-53	Supp. Irrig	790	18	5.23	
15		6:00 AM	0.00	Checks 47-53	Supp. Irrig	720	6	1.59	
	6:00 AM			Checks 54-60	Supp. Irrig	720	18	4.76	
16		3:00 AM	0.00	Checks 54-60	Supp. Irrig	900	3	0.99	
	3:00 AM	11:30 PM		Checks 61-70	Supp. Irrig	900	21.5	4.98	
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00						
26			0.00						
27			0.00						
28			0.00						
29			0.00						
30			0.00						
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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 MS21

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

Field Irrigation Information

Area (acres)	25.9
Number of Checks	50
Check Width (feet)	30
Check Length (feet)**	750
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 Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	28-Jun
Actual Planting Date	28-Jun
Anticipated Harvest Date	Sept 6, Nov 10
Actual Harvest Date	N/A
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00						
26			0.00						
27			0.00						
28	1:00 PM		0.00	Checks 1-8	Supp. Irrig		11	0.00	
29		7:00 AM	0.00	Checks 1-8	Supp. Irrig		7	0.00	
	7:00 AM	5:00 PM		Checks 9-16	Supp. Irrig		10	0.00	
	5:00 PM			Checks 17-24	Supp. Irrig		7	0.00	
30		8:00 AM	0.00	Checks 17-24	Supp. Irrig		8	0.00	
	8:00 AM			Checks 25-31	Supp. Irrig		16	0.00	
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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 MS24a

(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)**	2,600
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 Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14	8:00 AM	4:00 PM	0.00	Checks 1-9	Suppl. Irrig	700	8	0.77	
	4:00 PM			Checks 1-11	Suppl. Irrig	700	8	0.63	
15		1:45 PM	0.00	Checks 1-11	Suppl. Irrig	700	13.8	1.09	
	1:45 PM			Checks 6-17	Suppl. Irrig	700	10.2	0.74	
16		2:00 AM	0.00	Checks 6-17	Suppl. Irrig	700	2	0.14	
	2:00 AM			Checks 10-21	Suppl. Irrig	700	22	1.59	
17		2:00 AM	0.00	Checks 10-21	Suppl. Irrig	700	2	0.14	
	2:00 AM	6:00 AM		Checks 19-25	Suppl. Irrig	700	4	0.49	
	6:00 AM	10:00 AM		Checks 22-28	Suppl. Irrig	700	4	0.49	
	10:00 AM			Checks 22-31	Suppl. Irrig	700	14	1.21	
18		6:00 AM	0.00	Checks 22-31	Suppl. Irrig	700	6	0.52	
	6:00 AM			Checks 32-41	Suppl. Irrig	700	18	1.56	
19		7:00 AM	0.00	Checks 32-41	Suppl. Irrig	700	7	0.61	
	7:00 AM			Checks 40-44	Suppl. Irrig	700	17	2.94	
20		6:00 AM	0.00	Checks 40-44	Suppl. Irrig	700	18	3.12	
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00						
26			0.00						
27			0.00						
28			0.00						
29			0.00						
30			0.00						
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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 MS24b

(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)**	2,600
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 Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19	9:00 AM		0.00	Checks 1-5	Suppl. Irrig	700	15	2.60	
20		7:00 AM	0.00	Checks 1-5	Suppl. Irrig	700	7	1.21	
	7:00 AM	10:00 PM		Checks 1-11	Suppl. Irrig	700	15	1.18	
	10:00 PM			Checks 1-12	Suppl. Irrig	700	2	0.14	
21		6:00 AM	0.00	Checks 1-12	Suppl. Irrig	700	6	0.43	
	6:00 AM	7:00 AM		Checks 10-12	Suppl. Irrig	700	1	0.29	
	7:00 AM			Checks 10-19	Suppl. Irrig	700	17	1.47	
22		2:00 AM	0.00	Checks 10-19	Suppl. Irrig	700	2	0.17	
	2:00 AM			Checks 20-26	Suppl. Irrig	700	22	2.72	
23		4:00 PM	0.00	Checks 20-26	Suppl. Irrig	700	16	1.98	
	4:00 PM			Checks 27-33	Suppl. Irrig	700	8	0.99	
24		5:00 PM	0.00	Checks 27-33	Suppl. Irrig	700	17	2.10	
	5:00 PM			Checks 34-41	Suppl. Irrig	700	7	0.76	
25			0.00	Checks 34-41	Suppl. Irrig			0.00	
26		6:00 AM	0.00	Checks 34-41	Suppl. Irrig			0.00	
27			0.00						
28			0.00						
29			0.00						
30			0.00						
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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 MS24c

(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)**	2,600
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 Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14	8:00 AM		0.00	Checks 1-10	Suppl. Irrig	700	16	1.39	
15		7:00 AM		Checks 1-10	Suppl. Irrig	700	7	0.61	
	7:00 AM	2:00 PM	0.00	Checks 1-17	Suppl. Irrig	700	7	0.36	
	2:00 PM			Checks 8-23	Suppl. Irrig	700	10	0.54	
16		6:00 AM	0.00	Checks 8-23	Suppl. Irrig	700	6	0.32	
	6:00 AM			Checks 17-30	Suppl. Irrig	700	18	1.11	
17		6:00 AM	0.00	Checks 17-30	Suppl. Irrig	700	6	0.37	
	6:00 AM			Checks 17-38	Suppl. Irrig	700	18	0.71	
18		2:00 AM	0.00	Checks 17-38	Suppl. Irrig	700	2	0.08	
	2:00 AM	7:00 AM		Checks 25-38	Suppl. Irrig	700	5	0.31	
	7:00 AM			Checks 32-38	Suppl. Irrig	700	17	2.10	
19		3:00 AM	0.00	Checks 32-38	Suppl. Irrig	700	3	0.37	
	3:00 AM			Checks 38-44	Suppl. Irrig	700	21	2.60	
20		3:00 AM	0.00	Checks 38-44	Suppl. Irrig	700	3	0.37	
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00						
26			0.00						
27			0.00						
28			0.00						
29			0.00						
30			0.00						
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

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 MS24d

(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)**	2,600
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 Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19	7:00 AM		0.00	Checks 1-5	Suppl. Irrig	700	17	2.94	
20		3:00 AM	0.00	Checks 1-5	Suppl. Irrig	700	3	0.52	
	3:00 AM			Checks 1-10	Suppl. Irrig	700	21	1.82	
21		3:00 AM	0.00	Checks 1-10	Suppl. Irrig	700	3	0.26	
	3:00 AM	6:00 AM		Checks 6-10	Suppl. Irrig	700	3	0.52	
	6:00 AM			Checks 11-17	Suppl. Irrig	700	18	2.23	
22		7:00 AM	0.00	Checks 11-17	Suppl. Irrig	700	7	0.87	
	7:00 AM	11:00 PM		Checks 18-25	Suppl. Irrig	700	16	1.73	
	11:00 PM			Checks 26-33	Suppl. Irrig	700	1	0.11	
23		5:00 PM	0.00	Checks 26-33	Suppl. Irrig	700	17	1.84	
	5:00 PM			Checks 34-41	Suppl. Irrig	700	7	0.76	
24			0.00	Checks 34-41	Suppl. Irrig	700	24	2.60	
25		6:30 AM	0.00	Checks 34-41	Suppl. Irrig	700	6.5	0.70	
26			0.00						
27			0.00						
28			0.00						
29			0.00						
30			0.00						
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	4-Jun
Actual Planting Date	6/4/14
Anticipated Harvest Date	August 13, October 17
Actual Harvest Date	7/24/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2 tons/acre

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00					0.00	
26			0.00					0.00	
27			0.00					0.00	
28			0.00					0.00	
29			0.00					0.00	
30			0.00					0.00	
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5-Jun
Actual Planting Date	5-Jun
Anticipated Harvest Date	August 14, October 18
Actual Harvest Date	7/24/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2 tons/acre

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	Total Volume of Water Applied to Each Check (inches)[1]	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day)[2]
1			0.00						
2			0.00						
3			0.00						
4			0.00						
5			0.00						
6			0.00						
7			0.00						
8			0.00						
9			0.00						
10			0.00						
11			0.00						
12			0.00						
13			0.00						
14			0.00						
15			0.00						
16			0.00						
17			0.00						
18			0.00						
19			0.00						
20			0.00						
21			0.00						
22			0.00						
23			0.00						
24			0.00						
25			0.00					0.00	
26			0.00					0.00	
27			0.00					0.00	
28			0.00					0.00	
29			0.00					0.00	
30			0.00					0.00	
31			0.00						
Total			0.00						

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	3-Jul
Actual Planting Date	N/A
Anticipated Harvest Date	Sept 11, November 15
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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 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			0.00							
2			0.00							
3	10:30		0.00	1-6	SI	483088	13.5	5.0	3.6	NA
4		6:00	0.00	1-6	SI	220746	6	5.0	1.6	NA
	6:00			7-13	SI	772609	18	5.8	4.9	NA
5		3:00	0.00	7-13	SI	71143	3	3.3	0.8	NA
	3:00	19:00		14-17	SI	233141	16	4.1	2.1	NA
	14:30			18-22	SI	173034	9.5	4.1	1.5	NA
6		14:00	0.00	18-22	SI	178785	14	4.1	1.6	NA
	14:00			23-27	SI	127703	10	4.1	1.1	NA
7		15:00	0.00	23-27	SI	190200	15	4.1	1.7	NA
	15:00			28-32	SI	114120	9	4.1	1.0	NA
8		11:00	0.00	28-32	SI	82239	11	4.1	0.7	NA
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20	11:00		0.00	1-6	WW	298,295	13	5.0	2.2	NA
21		7:00	0.00		WW	253,850	7	5.0	1.9	NA
22	8:00		0.00	7-10	WW	317,487	16	3.3	3.5	NA
23		6:00	0.00		WW	144,651	6	3.3	1.6	NA
24			0.00							
25			0.00							
26	8:00		0.00	11-15	WW	1,096,534	16	4.1	9.8	NA
27		12:00	0.00	11-15	WW	1,860,162	12	4.1	16.6	NA
28	21:00		0.00	21-24	WW	41,030	3	3.3	0.5	NA
29			0.00	21-24	WW	186,721	24	3.3	2.1	NA
30		7:00	0.00	21-24	WW	37,217	7	3.3	0.4	NA
	7:00			25-32	WW	180,767	17	6.6	1.0	NA
31		0:00	0.00	25-32	WW	285,729	24	6.6	1.6	NA
Total			0.00							

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

[2]See 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]	120

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	3-Jul
Actual Planting Date	
Anticipated Harvest Date	Sept 11, November 15
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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			0.00							
2			0.00							
3	10:30		0.00	1-6	SI	523,346	13.5	5.4	3.6	NA
4		2:00	0.00	1-6	SI	79,714	2	5.4	0.5	NA
	2:00			7-12	SI	876,850	22	5.4	6.0	NA
5		12:00	0.00	7-12	SI	264,245	12	5.4	1.8	NA
	12:00	17:00		13-18	SI	44,041	2	5.4	0.3	NA
	17:00			19-24	SI	154,143	7	5.4	1.1	NA
6		13:00	0.00	19-24	SI	215,819	13	5.4	1.5	NA
	13:00			25-30	SI	182,616	11	5.4	1.3	NA
7		12:30	0.00	25-30	SI	206,050	12.5	5.4	1.4	NA
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28	14:00		0.00	1-7	WW	259,286	10	6.3	1.5	NA
29			0.00	1-7	WW	353,992	24	6.3	2.1	NA
30		5:00	0.00	1-7	WW	50,398	5	6.3	0.3	NA
	5:00	19:00		8-12	WW	136,794	14	4.5	1.1	NA
31			0.00							
Total			0.00							

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

[2]See 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]	23

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	24-Jun
Actual Planting Date	24-Jun
Anticipated Harvest Date	Sept 2, Nov 6
Actual Harvest Date	N/A
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	N/A

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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16	10:00		0.00	1-7	WW	591,347	14	7.2	3.0	NA
17		11:00	0.00	1-7	WW	678,266	11	7.2	3.5	NA
	11:00			8-13	WW	572,563	15	5.2	4.1	NA
18		3:00	0.00	8-13	WW	102,575	3	5.2	0.7	NA
	3:00	19:00		14-18	WW	547,065	16	5.2	3.9	NA
	19:00			19-25	WW	239,341	5	7.2	1.2	NA
19		22:00	0.00	19-25	WW	1,067,053	22	7.2	5.4	NA
	22:00			26-33	WW	166,450	2	8.3	0.7	NA
20			0.00	26-33	WW	917,831	24	8.3	4.1	NA
21		6:00	0.00	26-33	WW	362,643	6	8.3	1.6	NA
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28	6:00		0.00	1-7	WW	538,516	18	7.2	2.7	51
29		7:00	0.00	1-7	WW	119,132	7	7.2	0.6	51
	7:00			7-21	WW	619,972	17	15.5	1.5	35
30			0.00	7-21	WW	598,127	24	15.5	1.4	35
31		11:00	0.00	7-21	WW	366,201	11	15.5	0.9	35
	11:00	0:00		18-33	WW	546,247	13	16.5	1.2	58
Total			0.00							

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

[2]See 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]	141

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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)	7.87
Total Nitrogen Demand (lb/ac)	480
Anticipated Planting Date	June 19th
Actual Planting Date	2008
Anticipated Harvest Date	August 28, Nov 1
Actual Harvest Date	10-Jul
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	1.2 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20	14:00		0.00	1-4		159,346	10	3.4	1.7	NA
21		13:30	0.00	1-4		339,978	13.5	3.4	3.6	NA
	13:30			5-8		264,427	10.5	3.4	2.8	NA
22		7:00	0.00	5-8		144,688	7	3.4	1.5	NA
	7:00	23:00		9-12		330,715	16	3.4	3.5	NA
	23:00			13-16		20,670	1	3.4	0.2	NA
23		15:00	0.00	13-16		376,696	15	3.4	4.0	NA
23	15:00		0.00	17-20		226,017	9	3.4	2.4	NA
24		9:00	0.00	17-20		273,997	9	3.4	2.9	NA
	9:00			21-24		456,661	15	3.4	4.9	NA
25		2:00	0.00	24-24		177,423	2	3.4	1.9	NA
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31	19:00	0:00	0.00	4-6		32,827	5	2.6	0.5	36
Total			0.00							
								15.5		

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

[2]**See 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]	39

[3]**See MRP footnote 5**

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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 Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	30-Jun
Actual Planting Date	30-Jun
Anticipated Harvest Date	Sept 8, Nov 12
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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 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	8:00		0.00	8-14	SI	889,718	16	4.82	6.8	NA
2		1:00	0.00	8-14	SI	54,755	1	4.82	0.4	NA
	1:00	15:45		15-21	SI	807,632	14.75	4.82	6.2	NA
	15:45			22-28	SI	387,194	8.25	4.13	3.5	NA
3		14:00	0.00	22-28	SI	417,484	14	4.13	3.7	NA
	14:00			29-35	SI	347,903	10	4.82	2.7	NA
4		10:00	0.00	29-35	SI	357,690	10	4.82	2.7	NA
	10:00	18:30		36-41	SI	260,602	8.5	4.13	2.3	NA
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19	16:00		0.00	1-7	WW	258,680	8	4.8	2.0	NA
20		7:00	0.00	1-7	WW	156,159	7	4.8	1.2	NA
	7:00	20:00		8-14	WW	290,009	13	4.8	2.2	NA
21			0.00							
22	10:00		0.00	15-21	WW	405,126	14	4.8	3.1	NA
23		5:00	0.00	15-21	WW	175,791	5	4.8	1.3	NA
24			0.00							
25	17:00		0.00	22-25	WW	496,783	7	2.8	6.6	NA
26		6:00	0.00	22-25	WW	274,134	6	2.8	3.7	NA
	6:00			26-28	WW	616,801	18	2.1	11.0	NA
27		8:00	0.00	26-28	WW	620,054	8	2.1	11.1	NA
28	10:00		0.00	40-41	WW	79,780	14	1.4	2.1	NA
29		11:00	0.00	40-41	WW	35,659	11	1.4	1.0	NA
30			0.00							
31	20:00	0:00	0.00	1-10	WW	70,032	4	6.9	0.4	21
Total			0.00							

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

[2]See 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]	82	

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	1-Jul
Actual Planting Date	
Anticipated Harvest Date	Sept 9, Nov 13
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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 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	13:00		0.00	10-16	SI	541,775	11	4.3	4.7	NA
2		17:00	0.00	10-16	SI	824,449	17	4.3	7.1	NA
	17:00			11-15	SI	339,479	7	4.3	2.9	NA
3			0.00	11-15	SI	739,543	24	4.3	6.4	NA
4		15:00	0.00	11-15	SI	475,216	15	4.3	4.1	NA
	15:00			16-20	SI	285,130	9	4.3	2.5	NA
5		16:00	0.00	16-20	SI	280,055	16	4.3	2.4	NA
	16:00			21-25	SI	140,027	8	4.3	1.2	NA
6		15:00	0.00	21-25	SI	197,940	15	4.3	1.7	NA
	15:00			26-29	SI	95,011	9	3.4	1.0	NA
7		14:00	0.00	26-29	SI	146,750	14	3.4	1.6	NA
	14:00			30-34	SI	131,026	10	4.3	1.1	NA
8		13:30	0.00	30-34	SI	104,294	13.5	4.3	0.9	NA
	13:30			35-39	SI	81,118	10.5	4.3	0.7	NA
9		8:00	0.00	35-39	SI	4,978	8	4.3	0.0	NA
	8:00	22:00		40-43	SI	6,969	14	3.4	0.1	NA
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20	6:00	19:00	0.00	1-8	WW	410,984	13	6.8	2.2	NA
21			0.00							
22	9:00	22:00	0.00	9-14	WW	399,835	13	5.1	2.9	NA
	22:00			15-18	WW	41,009	2	3.4	0.4	NA
23		13:00	0.00	15-18	WW	323,858	13	3.4	3.5	NA
24			0.00							
25	20:00		0.00	19-22	WW	352,006	4	3.4	3.8	NA
26		8:00	0.00	19-22	WW	453,234	8	3.4	4.9	NA
27			0.00							
28	11:00		0.00	23-27	WW	229,653	13	4.3	2.0	NA
29		8:00	0.00	23-27	WW	80,394	8	4.3	0.7	NA
	8:00			28-38	WW	353,733	16	9.4	1.4	NA
30			0.00	28-38	WW	362,598	24	9.4	1.4	NA
31		13:00	0.00	28-38	WW	262,363	13	9.4	1.0	NA
Total			0.00							

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

[2]See 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]	56

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	23-Jun
Actual Planting Date	23-Jun
Anticipated Harvest Date	Sept 1, Nov 5
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18	6:00	17:00	0.00	1-5	WW	325,960	11	4.5	2.7	NA
	17:00			6-10	WW	207,429	7	4.5	1.7	NA
19		7:00	0.00	6-10	WW	210,177	7	4.5	1.7	NA
	7:00	18:00		11-15	WW	420,354	11	4.5	3.4	NA
20			0.00							
21			0.00							
22	12:00		0.00	16-21	WW	386,937	12	5.4	2.7	NA
		3:00		16-21	WW	117,529	3	5.4	0.8	NA
23	3:00		0.00	22-26	WW	685,586	21	4.5	5.6	NA
24		8:00	0.00	22-26	WW	316,618	8	4.5	2.6	NA
	8:00	22:00		27-37	WW	1,218,981	14	9.8	4.6	NA
	22:00			38-42	WW	79,155	2	4.5	0.7	NA
25		13:00	0.00	38-42	WW	1,499,220	13	4.5	12.3	NA
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30	15:00		0.00	1-42	WW	544,296	9	37.6	0.5	81
31		8:00	0.00	1-42	WW	764,746	8	37.6	0.7	81
Total			0.00							

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

[2]See 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]	108

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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 MS18b

(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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	23-Jun
Actual Planting Date	23-Jun
Anticipated Harvest Date	Sept 1, Nov 5
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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 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	11:00		0.00	23-31	SI	1,691,577	13	11.3	5.5	NA
2		11:30	0.00	23-31	SI	1,473,449	11.5	11.3	4.8	NA
	11:30			32-37	SI	1,067,717	12.5	7.5	5.2	NA
3		12:00	0.00	32-37	SI	651,275	12	7.5	3.2	NA
	12:00			38-42	SI	542,729	12	6.3	3.2	NA
4		12:00	0.00	38-42	SI	557,996	12	6.3	3.3	NA
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28	8:00	20:00	0.00	15-28	WW	871,200	12	17.5	1.8	NA
	20:00			29-37	WW	186,686	4	11.3	0.6	NA
29		10:00	0.00	29-37	WW	265,494	10	11.3	0.9	NA
	10:00			38-42	WW	206,495	14	6.3	1.2	NA
30		15:00	0.00	38-42	WW	151,193	15	6.3	0.9	NA
	15:00			1-19	WW	344,721	9	23.8	0.5	NA
31		8:00	0.00	1-19	WW	484,339	8	23.8	0.7	NA
Total			0.00							

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

[2]See 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]	40

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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 MS20a

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	34
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	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	10-Jun
Actual Planting Date	10-Jun
Anticipated Harvest Date	Aug 19, Oct 23
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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 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	9:00	18:00	0.00	1-5	SI	297,897	9	4.3	2.5	
	18:00			6-11	SI	357,476	6	5.2	2.5	
2		18:00	0.00	6-11	SI	1,055,983	18	5.2	7.5	
	18:00			12-18	SI	410,660	6	6.0	2.5	
3		13:00	0.00	12-18	SI	565,343	13	6.0	3.5	
	13:00			19-25	SI	478,367	11	6.0	2.9	
4		9:00	0.00	19-25	SI	402,401	9	6.0	2.5	
	9:00	22:00		26-32	SI	581,246	13	6.0	3.6	
	22:00			33-35	SI	38,324	2	2.6	0.5	
5		16:30	0.00	33-35	SI	174,681	16.5	2.6	2.5	
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.00							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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 MS20b

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	35
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	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	10-Jun
Actual Planting Date	10-Jun
Anticipated Harvest Date	Aug 19, Oct 23
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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 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			0.00							
2			0.00							
3			0.00							
4	22:00		0.00	1-4	SI	51,099	2	3.4	0.5	
5		16:30	0.00	1-4	SI	232,909	16.5	3.4	2.5	
	16:30			5-11	SI	185,268	7.5	6.0	1.1	
6		5:00	0.00	5-11	SI	93,117	5	6.0	0.6	
	5:00	16:00		12-18	SI	204,858	11	6.0	1.3	
	16:00			19-25	SI	148,987	8	6.0	0.9	
7		7:00	0.00	19-25	SI	129,441	7	6.0	0.8	
	7:00	21:00		26-31	SI	221,900	14	5.2	1.6	
	21:00			32-35	SI	31,700	3	3.4	0.3	
8		18:00	0.00	32-35	SI	112,144	18	3.4	1.2	
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.00							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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 MS21

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

Field Irrigation Information

Area (acres)	25.9
Number of Checks	50
Check Width (feet)	30
Check Length (feet)**	750
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 Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	28-Jun
Actual Planting Date	28-Jun
Anticipated Harvest Date	Sept 6, Nov 10
Actual Harvest Date	N/A
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	N/A

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 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	7:00	23:00	0.00	32-38	SI	762,616	16	4.1	6.8	NA
	23:00			39-45	SI	41,706	1	3.6	0.4	NA
2		19:00	0.00	39-45	SI	780,254	19	3.6	7.9	NA
	19:00			46-50	SI	146,664	5	2.6	2.1	NA
3		7:00	0.00	46-50	SI	130,464	7	2.6	1.9	NA
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17	6:00	16:30	0.00	1-5	WW	231,227	10.5	2.6	3.3	NA
	16:30			6-10	WW	165,162	13.5	2.6	2.4	NA
18		4:00	0.00	6-10	WW	68,383	4	2.6	1.0	NA
	4:00	15:00		11-15	WW	188,054	11	2.6	2.7	NA
	15:00			16-19	WW	123,090	9	2.1	2.2	NA
19		6:00	0.00	16-19	WW	83,147	6	2.1	1.5	NA
	6:00			20-24	WW	311,801	18	2.6	4.4	NA
20		9:00	0.00	20-24	WW	107,558	9	2.6	1.5	NA
	9:00			25-33	WW	286,822	15	4.1	2.6	NA
21		15:00	0.00	25-33	WW	453,304	15	4.1	4.0	NA
	15:00			34-40	WW	237,985	9	3.6	2.4	NA
22		8:00	0.00	34-40	WW	173,625	8	3.6	1.8	NA
23	8:00	23:00	0.00	41-46	WW	395,530	15	3.6	4.0	NA
	23:00			47-50	WW	15,068	1	2.1	0.3	NA
24		7:00	0.00	47-50	WW	127,865	7	2.1	2.3	NA
25			0.00							
26			0.00							
27			0.00							
28	7:00	21:30	0.00	1-9	WW	278,875	14.5	4.6	2.2	41
	21:30			10-18	WW	48,082	3.5	4.6	0.4	41
29			0.00	10-18	WW	262,576	24	4.6	2.1	41
30		3:00	0.00	10-18	WW	22,430	3	4.6	0.2	41
	3:00			19-28	WW	174,454	21	5.2	1.2	63
31		0:00	0.00	19-28	WW	315,142	24	5.2	2.2	63
Total			0.00							

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

[2]See 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]	98

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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 MS24a

(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)**	2,600
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 Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.2 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5	6:00	19:00	0.00	1-7	SI	667,953	13	12.5	2.0	NA
	19:00			8-14	SI	256,905	5	12.5	0.8	NA
6		9:00	0.00	8-14	SI	348,630	9	12.5	1.0	NA
	9:00			15-21	SI	581,051	15	12.5	1.7	NA
7		11:00	0.00	15-21	SI	423,089	11	12.5	1.2	NA
	11:00			22-28	SI	500,014	13	12.5	1.5	NA
8		0:30	0.00	22-28	SI	11,339	0.5	12.5	0.0	NA
	0:30	15:30		29-35	SI	340,172	15	12.5	1.0	NA
	15:30			36-42	SI	192,764	8.5	12.5	0.6	NA
9		9:00	0.00	36-42	SI	16,438	9	12.5	0.0	NA
	9:00	23:00		43-44	SI	7,306	14	3.6	0.1	NA
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.00							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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 MS24b

(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)**	2,600
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 Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.2 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9	9:00	23:00	0.00	1-5	SI	18,264	14	9.0	0.1	NA
	23:00			6-12	SI	1,826	1	12.5	0.0	NA
10		16:00	0.00	6-12	SI	67,614	16	12.5	0.2	NA
	16:00			13-18	SI	28,977	8	10.7	0.1	NA
11		4:00	0.00	13-18	SI	57,236	4	10.7	0.2	NA
	4:00	16:00		19-26	SI	228,943	12	14.3	0.6	NA
	16:00			27-33	SI	133,550	8	12.5	0.4	NA
12		5:00	0.00	27-33	SI	172,624	5	12.5	0.5	NA
	5:00	19:00		34-42	SI	552,396	14	14.3	1.4	NA
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.00							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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 MS24c

(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)**	2,600
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 Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.2 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5	6:00	19:00	0.00	1-7	SI	667,953	13	12.5	2.0	NA
	19:00			8-14	SI	256,905	5	12.5	0.8	NA
6		9:00	0.00	8-14	SI	348,630	9	12.5	1.0	NA
	9:00			15-21	SI	581,051	15	12.5	1.7	NA
7		8:00	0.00	15-21	SI	307,701	8	12.5	0.9	NA
	8:00			22-28	SI	615,402	16	12.5	1.8	NA
8		5:00	0.00	22-28	SI	113,391	5	12.5	0.3	NA
	5:00	19:00		29-35	SI	317,493	14	12.5	0.9	NA
	19:00			36-42	SI	113,391	5	12.5	0.3	NA
9		13:00	0.00	36-42	SI	23,744	13	12.5	0.1	NA
	13:00			43-44	SI	5,740	11	3.6	0.1	NA
10		3:00	0.00	43-44	SI	3,622	3	3.6	0.0	NA
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.00							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

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 MS24d

(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)**	2,600
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 Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.2 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9	13:00		0.00	1-5	SI	14,351	11	9.0	0.1	NA
10		3:00	0.00	1-5	SI	9,055	3	9.0	0.0	NA
	3:00	18:00		6-12	SI	67,614	16	12.5	0.2	NA
	18:00			13-18	SI	21,733	6	10.7	0.1	NA
11		6:00	0.00	13-18	SI	85,853	6	10.7	0.3	NA
	6:00	18:00		19-26	SI	228,943	12	14.3	0.6	NA
	18:00			27-33	SI	100,162	6	12.5	0.3	NA
12		7:00	0.00	27-33	SI	241,673	7	12.5	0.7	NA
	7:00	21:00		34-42	SI	552,396	14	14.3	1.4	NA
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.00							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	4-Jun
Actual Planting Date	6/4/14
Anticipated Harvest Date	August 13, October 17
Actual Harvest Date	24-Jul
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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	1500		0.00	1-11	WW	588,171	9	8	2.6	NA
2			0.00	1-11	WW	409,315	24	8	1.8	NA
3		1100	0.00	1-11	WW	200,652	11	8	0.9	NA
	1100			14-21	WW	172,461	13	6	1.0	NA
4		1500	0.00	14-21	WW	277,058	15	6	1.7	NA
	1500			22-31	WW	207,794	9	8	1.0	NA
5		1200	0.09	22-31	WW	339,296	12	8	1.6	NA
	1200			32-46	WW	475,014	12	11	1.6	NA
6		1500	0.00	32-46	WW	543,695	15	11	1.9	NA
	1500			47-59	WW	302,916	9	10	1.1	NA
7			0.00	47-59	WW	502,056	24	10	1.9	NA
8			0.00	47-59	WW	319,391	24	10	1.2	NA
9		0800	0.00	47-59	WW	128,301	8	10	0.5	NA
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25	0800		0.00	1-28	WW	800,339	16	21	1.4	34
26		1200	0.00	1-28	WW	530,982	12	21	0.9	34
	1200			29-45	WW	322,382	12	13	0.9	19
27		0600	0.00	29-45	WW	277,514	6	13	0.8	19
28	0800		0.00	46-59	WW	291,831	16	11	1.0	33
29			0.00	46-59	WW	466,715	24	11	1.6	33
30		0200	0.00	46-59	WW	187,218	2	11	0.7	33
31			0.00							
Total			0.09							

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

[2]See 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]	55

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5-Jun
Actual Planting Date	5-Jun
Anticipated Harvest Date	August 14, October 18
Actual Harvest Date	24-Jul
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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			0.00							
2			0.00							
3	1500		0.00	1-14	WW	189,949	9	9.6	0.7	NA
4			0.00	1-14	WW	705,240	24	9.6	2.7	NA
5		0700	0.09	1-14	WW	251,902	7	9.6	1.0	NA
	0700			15-22	WW	349,578	17	5.5	2.3	NA
6		0900	0.00	15-22	WW	169,463	9	5.5	1.1	NA
	0900			23-33	WW	388,354	15	7.6	1.9	NA
7			0.00	23-33	WW	386,197	24	7.6	1.9	NA
8			0.00	23-33	WW	245,685	24	7.6	1.2	NA
9		0700	0.00	23-33	WW	86,356	7	7.6	0.4	NA
	0700			34-54	WW	400,380	17	14.5	1.0	NA
10		1800	0.00	34-54	WW	578,021	18	14.5	1.5	NA
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25	0900		0.00	1-27	WW	657,746	15	18.6	1.3	31
26		1300	0.00	1-27	WW	504,261	13	18.6	1.0	35
	1300			28-42	WW	237,046	11	10.3	0.8	42
27		0600	0.00	28-42	WW	222,604	6	10.3	0.8	42
28	0900		0.00	43-54	WW	213,189	15	8.3	0.9	19
29			0.00	43-54	WW	363,674	24	8.3	1.6	19
30		0300	0.00	43-54	WW	218,827	3	8.3	1.0	19
31			0.00							
Total			0.09							

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

[2]See 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]	50

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	3-Jul
Actual Planting Date	N/A
Anticipated Harvest Date	Sept 11, November 15
Actual Harvest Date	N/A
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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 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	1900		0.00	1-6	WW	194,437	5	5.0	1.4	35
2		1900	0.00	1-6	WW	192,818	19	5.0	1.4	35
3	1800		0.00	10-17	WW	86,834	6	6.6	0.5	280
4		2000	0.00	10-17	WW	402,994	20	6.6	2.2	280
	2000			18-24	WW	70,524	4	5.8	0.4	35
5		1300	0.09	18-24	WW	280,690	13	5.8	1.8	35
	1300			25-32	WW	271,437	11	6.6	1.5	50
6		1700	0.00	25-32	WW	384,117	17	6.6	2.1	50
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13	0900		0.00	1-5	WW	131,802	15	4.1	1.2	34
14		1800	0.00	1-5	WW	95,391	18	4.1	0.9	34
	1800			6-24	WW	120,828	6	15.7	0.3	38
15		1500	0.00	6-24	WW	217,541	15	15.7	0.5	38
	1500			25-32	WW	54,958	9	6.6	0.3	62
16		1400	0.00	25-32	WW	146,892	14	6.6	0.8	62
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.09							

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

[2]See 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]	36

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	3-Jul
Actual Planting Date	
Anticipated Harvest Date	Sept 11, November 15
Actual Harvest Date	23-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.9 tons/acre

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	1100		0.00	13-21	WW	821,495	13	8.1	3.8	NA
2		1800	0.00	13-21	WW	296,838	18	8.1	1.4	NA
	1800			22-30	WW	98,946	6	8.1	0.5	NA
3		1200	0.00	22-30	WW	211,657	12	8.1	1.0	NA
4			0.00							
5			0.09							
6			0.00							
7	1600		0.00	1-19	WW	289,062	8	17.0	0.6	30
8			0.00	1-19	WW	551,675	24	17.0	1.2	30
9		1100	0.00	1-19	WW	304,715	11	17.0	0.7	30
	1100			20-25	WW	113,721	13	5.4	0.8	99
10			0.00	20-25	WW	286,258	24	5.4	2.0	99
11		0600	0.00	20-25	WW	107,713	6	5.4	0.7	99
	1100			26-30	WW	194,482	13	4.5	1.6	30
12		1300	0.00	26-30	WW	392,807	13	4.5	3.2	30
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.09							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	24-Jun
Actual Planting Date	24-Jun
Anticipated Harvest Date	Sept 2, Nov 6
Actual Harvest Date	25-Aug
Expected Harvest Yield	4 tons/acre
Actual Harvest Yield	4.3 tons/acre

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			0.00							
2	0800	1500	0.00	8-24	WW	251,594	7	17.6	0.5	58
	1500			25-33	WW	171,253	9	9.3	0.7	43
3		0200	0.00	25-33	WW	40,703	2	9.3	0.2	43
4			0.00							
5			0.09							
6	2200		0.00	1-14	WW	98,854	2	14.5	0.3	58
7		1800	0.00	1-14	WW	552,963	18	14.5	1.4	58
	1800			15-23	WW	105,326	6	8.3	0.5	14
8		1000	0.00	15-23	WW	111,675	10	8.3	0.5	14
	1000			24-33	WW	195,431	14	10.3	0.7	19
9			0.00	24-33	WW	403,745	24	10.3	1.4	19
10			0.00	24-33	WW	550,496	24	10.3	2.0	19
11		1100	0.00	24-33	WW	379,757	11	10.3	1.4	19
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.09							

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

[2]See 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]	27

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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)	6.67
Total Nitrogen Demand (lb/ac)	480
Anticipated Planting Date	June 19th
Actual Planting Date	2008
Anticipated Harvest Date	August 28, Nov 1
Actual Harvest Date	10-Jul
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	N/A

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 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			0.00							
2			0.00							
3			0.00							
4	1900		0.00	4-6	WW	39,355	5	2.6	0.6	36
5		1100	0.09	4-6	WW	106,030	11	2.6	1.5	36
	1100			7-9	WW	125,308	13	2.6	1.8	28
6		1300	0.00	7-9	WW	114,741	13	2.6	1.6	28
	1300			10-12	WW	97,088	11	2.6	1.4	21
7		1200	0.00	10-12	WW	65,829	12	2.6	0.9	21
	1200			13-24	WW	219,430	12	8.6	0.9	33
8		1400	0.00	13-24	WW	162,860	14	8.6	0.7	33
9			0.00							
10	1100		0.00	1-6	WW	149,093	13	5.17	1.1	66
11		1100	0.00	1-6	WW	189,879	11	5.17	1.4	66
	1100			7-12	WW	224,402	13	5.17	1.6	81
12		1400	0.00	7-12	WW	488,104	14	5.17	3.5	81
	1400			13-16	WW	232,430	10	3.44	2.5	55
13		1800	0.00	13-16	WW	131,802	18	3.44	1.4	55
	1800			17-24	WW	87,868	6	6.89	0.5	55
14			0.00	17-24	WW	211,979	24	6.89	1.1	55
15		2200	0.00	17-24	WW	139,939	22	6.89	0.7	55
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
23	1000		0.00	1-8	WW	683,542	14	6.9	3.7	31
24		2200	0.00	1-8	WW	858,863	22	6.9	4.6	31
	2200			9-16	WW	78,078	2	6.9	0.4	61
25			0.00	9-16	WW	389,775	24	6.9	2.1	61
26			0.00	9-16	WW	344,794	24	6.9	1.8	61
27		0700	0.00	9-16	WW	173,137	7	6.9	0.9	61
	0700			17-24	WW	420,475	17	6.9	2.2	29
28		0800	0.00	17-24	WW	94,750	8	6.9	0.5	29
29			0.00							
30			0.00							
31			0.00							
Total			0.09							

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

[2]See 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]	43

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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 Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	30-Jun
Actual Planting Date	30-Jun
Anticipated Harvest Date	Sept 8, Nov 12
Actual Harvest Date	26-Aug
Expected Harvest Yield	N/A
Actual Harvest Yield	3.4 tons/acre

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 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			0.00	11-21	WW	169,139	12	6.9	0.9	29
2	1200		0.00	11-21	WW	135,678	9	6.9	0.7	29
3		0900	0.00	22-41	WW	452,259	15	13.8	1.2	147
	0900			22-41	WW	41,979	1	13.8	0.1	147
4		0100	0.00							
5			0.09							
6			0.00							
7			0.00							
8	2000		0.00	1-16	WW	59,560	4	11.0	0.2	7
9		2000	0.00	1-16	WW	358,884	20	11.0	1.2	7
	2000			17-24	WW	35,888	4	5.5	0.2	32
10		1600	0.00	17-24	WW	195,732	16	5.5	1.3	32
	1600			25-35	WW	134,566	8	7.6	0.7	29
11		2000	0.00	25-35	WW	506,343	20	7.6	2.5	29
	2000			36-41	WW	55,237	4	4.1	0.5	29
12		1000	0.00	36-41	WW	278,916	10	4.1	2.5	29
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.09							

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

[2]See 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]	30

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	1-Jul
Actual Planting Date	
Anticipated Harvest Date	Sept 9, Nov 13
Actual Harvest Date	N/A
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	N/A

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 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			0.00							
2	1000		0.00	23-38	WW	391,500	14	13.7	1.1	NA
3		0800	0.00	23-38	WW	239,275	8	13.7	0.6	NA
	0800			39-43	WW	149,547	16	4.3	1.3	NA
4		1400	0.00	39-43	WW	182,187	14	4.3	1.6	NA
5			0.09							
6			0.00							
7			0.00							
8	0200		0.00	1-23	WW	583,912	22	19.6	1.1	32
9		0100	0.00	1-23	WW	31,986	1	19.6	0.1	32
	0100			24-30	WW	223,899	23	6.0	1.4	15
10			0.00	24-30	WW	318,554	24	6.0	2.0	15
11			0.00	24-30	WW	479,461	24	6.0	3.0	15
12		1000	0.00	24-30	WW	403,499	10	6.0	2.5	15
	1000			31-35	WW	403,499	14	4.3	3.5	15
13			0.00	31-35	WW	217,913	24	4.3	1.9	15
14		0900	0.00	31-35	WW	49,285	9	4.3	0.4	15
	0900			36-43	WW	131,427	15	6.8	0.7	27
15			0.00	36-43	WW	151,439	24	6.8	0.8	27
16		0900	0.00	36-43	WW	97,578	9	6.8	0.5	27
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.09							

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

[2]**See 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]	37

[3]**See MRP footnote 5**

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	23-Jun
Actual Planting Date	23-Jun
Anticipated Harvest Date	Sept 1, Nov 5
Actual Harvest Date	13-Aug
Expected Harvest Yield	N/A
Actual Harvest Yield	2.8 tons / acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.09							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30	1500		0.00	1-12	WW	853,424	9	10.7	2.9	4
31		1100	0.00	1-12	WW	409,829	11	10.7	1.4	4
	1100	2400		13-26	WW	565,067	13	12.5	1.7	4
Total			0.09							

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

[2]See 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]	16

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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 MS18b

(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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	23-Jun
Actual Planting Date	23-Jun
Anticipated Harvest Date	Sept 1, Nov 5
Actual Harvest Date	18-Aug
Expected Harvest Yield	N/A
Actual Harvest Yield	2.7 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.09							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.09							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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 MS20a

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	34
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	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	10-Jun
Actual Planting Date	10-Jun
Anticipated Harvest Date	Aug 19, Oct 23
Actual Harvest Date	5-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	3 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.09							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16	1700		0.00	1-18	WW	172,139	7	15.5	0.4	NA
17			0.00	1-18	WW	147,312	24	15.5	0.4	NA
18		0700	0.00	1-18	WW	245,895	7	15.5	0.6	NA
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23	0630		0.00	19-32	WW	1,495,249	17.5	12.1	4.6	NA
24			0.00	19-32	WW	1,639,647	24	12.1	5.0	NA
25		0700	0.00	19-32	WW	198,948	7	12.1	0.6	NA
	0700									
26		1100	0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31	2200	2400	0.00	1-18	WW	107,473	2	15.5	0.3	15
Total			0.09							

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

[2]See 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]	41

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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 MS20b

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	35
Check Width (feet)	30
Check Length (feet)**	1,250
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	10-Jun
Actual Planting Date	10-Jun
Anticipated Harvest Date	Aug 19, Oct 23
Actual Harvest Date	5-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	3 tons/acre

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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.09							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25	0700		0.00	1-11	WW	379,625	17	9.5	1.5	NA
26		1100	0.00	1-11	WW	217,292	11	9.5	0.8	NA
	1100			12-25	WW	326,836	13	12.1	1.0	NA
27		1700	0.00	12-25	WW	735,831	17	12.1	2.2	NA
	1700			26-35	WW	216,421	7	8.6	0.9	NA
28			0.00	26-35	WW	355,314	24	8.6	1.5	NA
29		1800	0.00	26-35	WW	284,120	18	8.6	1.2	NA
30			0.00							
31			0.00							
Total			0.09							

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

[2]See 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]	26

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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 MS21

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

Field Irrigation Information

Area (acres)	25.9
Number of Checks	50
Check Width (feet)	30
Check Length (feet)**	750
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 Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	28-Jun
Actual Planting Date	28-Jun
Anticipated Harvest Date	Sept 6, Nov 10
Actual Harvest Date	21-Aug
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	3.4 tons/acre

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 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	0700		0.00	29-41	WW	895,219	17	6.7	4.9	47
2			0.00	29-41	WW	329,820	24	6.7	1.8	47
		1000		34-42	WW	95,140	10	4.6	0.8	47
3		2000	0.00	29-41	WW	293,968	20	6.7	1.6	47
	2000			42-50	WW	40,703	4	4.6	0.3	30
4		2100	0.00	42-50	WW	297,523	21	4.6	2.4	30
5			0.09							
6	2100		0.00	1-9	WW	47,662	3	4.6	0.4	24
7			0.00	1-9	WW	236,984	24	4.6	1.9	24
8		1100	0.00	1-9	WW	69,099	11	4.6	0.5	24
	1100			10-21	WW	108,883	13	6.2	0.6	23
9		2100	0.00	10-21	WW	211,966	21	6.2	1.3	23
	2100			22-33	WW	30,281	3	6.2	0.2	49
10			0.00	22-33	WW	330,298	24	6.2	2.0	49
11		0900	0.00	22-33	WW	186,426	9	6.2	1.1	49
	0900			34-42	WW	233,033	15	4.6	1.8	37
12	2000		0.00	43-50	WW	111,567	4	4.1	1.0	50
13		1000	0.00	43-50	WW	87,868	10	4.1	0.8	50
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			0.09							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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 MS24a

(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 Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	28-Jul
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.09							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12	1500		0.00	1-13	WW	168,580	9	11.6	0.5	NA
13			0.00	1-13	WW	970,875	24	11.6	3.1	NA
14		0200	0.00	1-13	WW	36,760	2	11.6	0.1	NA
	0200			14-42	WW	902,036	22	26.0	1.3	NA
15		1800	0.00	14-42	WW	805,689	18	26.0	1.1	NA
	1800			43-44	WW	18,522	6	1.8	0.4	NA
16		1800	0.00	43-44	WW	102,595	18	1.8	2.1	NA
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22	0600		0.00	1-13	WW	698,311	18.0	11.6	2.2	63
23		0930	0.00	1-13	WW	206,470	9.5	11.6	0.7	63
24			0.00							
25			0.00							
26			0.00							
27	1800		0.00	1-14	WW	195,964	6.0	12.5	0.6	87
28		1800	0.00	1-14	WW	464,132	18.0	12.5	1.4	87
	1800			15-28	WW	154,711	6.0	12.5	0.5	82
29		1700	0.00	15-28	WW	361,744	17.0	12.5	1.1	82
	1700			29-44	WW	170,233	7.0	14.3	0.4	82
30		1700	0.00	29-44	WW	306,724	17.0	14.3	0.8	82
31			0.00							
Total			0.09							

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

[2]See 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]	46

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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 MS24b

(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 Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	28-Jul
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.09							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15	1800		0.00	1-10	WW	92,608	6	9.0	0.4	NA
16		1800	0.00	1-10	WW	512,975	18	9.0	2.1	NA
	1800			11-21	WW	188,091	6	9.8	0.7	NA
		1100		11-21	WW	344,833	11	9.8	1.3	NA
17	1100		0.00	22-28	WW	522,366	13	6.3	3.1	NA
18		1630	0.00	22-28	WW	838,258	16.5	6.3	4.9	NA
	1630			29-35	WW	381,027	7.5	6.3	2.2	NA
19		1830	0.00	29-35	WW	759,870	18.5	6.3	4.5	NA
	1830			36-41	WW	193,635	5.5	5.4	1.3	NA
20			0.00	36-41	WW	961,253	24	5.4	6.6	NA
21			0.00	36-41	WW	932,097	24	5.4	6.4	NA
22		0600	0.00	36-41	WW	107,432	6	5.4	0.7	NA
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29	1700		0.00	1-12	WW	127,674	7	10.7	0.4	42
30		1700	0.00	1-12	WW	230,043	17	10.7	0.8	42
	1700			13-19	WW	55,255	7	6.3	0.3	34
31		1800	0.00	13-19	WW	506,201	18	6.3	3.0	34
	1800	2400		20-26	WW	168,734	6	6.3	1.0	99
Total			0.09							

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

[2]See 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]	58

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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 MS24c

(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 Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	28-Jul
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.09							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12	1500		0.00	1-13	WW	168,580	9	11.6	0.5	NA
13			0.00	1-13	WW	970,875	24	11.6	3.1	NA
14		0200	0.00	1-13	WW	36,760	2	11.6	0.1	NA
	0200			14-42	WW	902,036	22	26.0	1.3	NA
15		1800	0.00	14-42	WW	805,689	18	26.0	1.1	NA
	1800			43-44	WW	18,522	6	1.8	0.4	NA
16		1800	0.00	43-44	WW	102,595	18	1.8	2.1	NA
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22	0600		0.00	1-13	WW	698,311	18	11.6	2.2	63
23		0930	0.00	1-13	WW	206,470	9.5	11.6	0.7	63
24			0.00							
25			0.00							
26			0.00							
27	1900		0.00	1-14	WW	163,303	5	12.5	0.5	87
28		1900	0.00	1-14	WW	489,917	19	12.5	1.4	87
	1900			15-28	WW	128,926	5	12.5	0.4	29
29		1800	0.00	15-28	WW	383,023	18	12.5	1.1	29
	1800			29-44	WW	145,914	6	14.3	0.4	30
30		1800	0.00	29-44	WW	324,767	18	14.3	0.8	30
31			0.00							
Total			0.09							

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

[2]See 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]	46

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

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 MS24d

(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 Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	28-Jul
Expected Harvest Yield	N/A
Actual Harvest Yield	N/A

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.09							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15	1800		0.00	1-10	WW	92,608	6	9.0	0.4	NA
16		1800	0.00	1-10	WW	512,975	18	9.0	2.1	NA
	1800			11-21	WW	188,091	6	9.8	0.7	NA
17		1100	0.00	11-21	WW	694,574	11	9.8	2.6	NA
	1100			22-28	WW	522,366	13	6.3	3.1	NA
18		1630	0.00	22-28	WW	838,258	16.5	6.3	4.9	NA
	1630			29-35	WW	279,419	5.5	6.3	1.6	NA
19		1830	0.00	29-35	WW	759,870	18.5	6.3	4.5	NA
	1830			36-41	WW	193,635	5.5	5.4	1.3	NA
20			0.00	36-41	WW	961,253	24	5.4	6.6	NA
21			0.00	36-41	WW	932,097	24	5.4	6.4	NA
22		0600	0.00	36-41	WW	107,432	6	5.4	0.7	NA
23			0.00							
24			0.00							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29	1800		0.00	1-12	WW	109,435	6	10.7	0.4	30
30		1800	0.00	1-12	WW	243,575	18	10.7	0.8	30
	1800			13-19	WW	47,362	6	6.3	0.3	40
31		1900	0.00	13-19	WW	534,323	19	6.3	3.1	40
	1900	2400		20-26	WW	140,611	5	6.3	0.8	99
Total			0.09							

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

[2]See 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]	60

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	4-Jun
Actual Planting Date	6/4/14
Anticipated Harvest Date	August 13, October 17
Actual Harvest Date	7/24/2014, 9/16/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.2 tons/acre

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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19	1000		0.00	1-11	WW	359,144	14.0	8.3	1.6	12
20		1100	0.00	1-11	WW	301,448	11.0	8.3	1.3	12
	1100			12-21	WW	323,869	13.0	7.6	1.6	12
21		1200	0.00	12-21	WW	372,767	12.0	7.6	1.8	12
	1200			22-31	WW	372,767	12.0	7.6	1.8	9
22		1300	0.00	22-31	WW	522,181	13.0	7.6	2.5	9
23	1400		0.00	47-59	WW	563,368	10.0	9.8	2.1	17
24		1600	0.00	47-59	WW	710,460	16.0	9.8	2.7	17
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29			0.01							
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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]	19

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5-Jun
Actual Planting Date	5-Jun
Anticipated Harvest Date	August 14, October 18
Actual Harvest Date	7/24/2014, 9/16/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.2 tons/acre

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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19	1100		0.00	1-14	WW	385,857	13	9.6	1.5	13
20		1200	0.00	1-14	WW	380,490	12	9.6	1.5	13
	1200			15-22	WW	217,423	12	5.5	1.5	13
21		1300	0.00	15-22	WW	293,695	13	5.5	2.0	13
	1300			23-33	WW	341,703	11	7.6	1.7	0
22		1400	0.00	23-33	WW	562,349	14	7.6	2.7	0
	1400			34-54	WW	766,840	10	14.5	2.0	18
23		1500	0.00	34-54	WW	1,240,985	15	14.5	3.2	18
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29			0.01							
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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]	23

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	3-Jul
Actual Planting Date	N/A
Anticipated Harvest Date	Sept 11, November 15
Actual Harvest Date	9-Sep
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	3.7 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23	1100		0.00	1-6	WW	368,750	13	5.0	2.7	8
24		1200	0.00	1-6	WW	268,286	12	5.0	2.0	8
	1200			7-13	WW	313,000	12	5.8	2.0	3
25		1300	0.39	7-13	WW	395,270	13	5.8	2.5	3
	1300			14-17	WW	191,120	11	3.3	2.1	3
26		1400	0.04	14-17	WW	199,296	14	3.3	2.2	3
	1400			18-22	WW	177,943	10	4.1	1.6	3
27		1500	0.02	18-22	WW	321,426	15	4.1	2.9	3
	1500			23-27	WW	192,856	9	4.1	1.7	5
28		1600	0.00	23-27	WW	393,915	16	4.1	3.5	5
	1600			28-32	WW	196,957	8	4.1	1.8	5
29		1700	0.01	28-32	WW	335,804	17	4.1	3.0	5
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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]	31

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	3-Jul
Actual Planting Date	
Anticipated Harvest Date	Sept 11, November 15
Actual Harvest Date	23-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.9 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10	1200		0.00	1-10	WW	169,763	12	9.0	0.7	12
11		1630	0.00	1-10	WW	282,913	24	9.0	1.2	12
12	1200		0.00	1-10	WW	174,812	16.5	9.0	0.7	12
		1900		11-21	WW	87,406	7.5	9.8	0.3	12
13	1630		0.00	11-21	WW	518,185	24	9.8	1.9	12
14		1900	0.00	11-21	WW	405,980	19	9.8	1.5	12
	1900			22-30	WW	87,412	5	8.1	0.4	34
15			0.00	22-30	WW	287,300	24	8.1	1.3	34
16		0600	0.00	22-30	WW	1,388	6	8.1	0.0	34
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24	0600		0.00	1-6	WW	435,964	18	5.4	3.0	22
25		700	0.39	1-6	WW	197,635	7	5.4	1.4	22
	700			7-12	WW	479,971	17	5.4	3.3	22
26		0800	0.04	7-12	WW	185,061	8	5.4	1.3	22
	0800			13-18	WW	370,121	16	5.4	2.5	33
27		0900	0.02	13-18	WW	250,712	9	5.4	1.7	33
	0900			19-24	WW	417,854	15	5.4	2.9	16
28		1000	0.00	19-24	WW	320,056	10	5.4	2.2	16
	1000			25-30	WW	448,078	14	5.4	3.1	16
29		1100	0.01	25-30	WW	282,470	11	5.4	1.9	16
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	24-Jun
Actual Planting Date	24-Jun
Anticipated Harvest Date	Sept 2, Nov 6
Actual Harvest Date	25-Aug
Expected Harvest Yield	4 tons/acre
Actual Harvest Yield	4.3 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6	0900		0.00	1-14	WW	377,195	15	14.5	1.0	9
7			0.00	1-14	WW	1,086,635	24	14.5	2.8	9
8		1900	0.00	1-14	WW	987,402	19	14.5	2.5	9
	1900			15-21	WW	155,906	6	7.2	0.8	7
9			0.00	15-21	WW	680,830	24	7.2	3.5	7
10		0800	0.00	15-21	WW	91,411	8	7.2	0.5	7
	0800			22-33	WW	313,409	16	12.4	0.9	28
11			0.00	22-33	WW	391,725	24	12.4	1.2	28
12		2100	0.00	22-33	WW	308,060	21	12.4	0.9	28
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17	1100		0.00	1-14	WW	569,954	13	14.5	1.5	76
18		1000	0.00	1-14	WW	598,991	10	14.5	1.5	76
	1000			15-21	WW	419,294	14	7.2	2.1	63
19		0800	0.00	15-21	WW	178,088	8	7.2	0.9	63
	0800			22-33	WW	610,586	16	12.4	1.8	41
20		0900	0.00	22-33	WW	366,901	9	12.4	1.1	41
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29	0800	0900	0.01	1-6	WW	474,076	16	6.2	2.8	32
30	0800	0900	0.00	1-6	WW	311,685	9	6.2	1.9	32
	0900	1000		7-13	WW	606,054	15	7.2	3.1	32
31			0.00							
Total			0.46							

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

[2]See 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]	54

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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)	5.33
Total Nitrogen Demand (lb/ac)	480
Anticipated Planting Date	June 19th
Actual Planting Date	2008
Anticipated Harvest Date	August 28, Nov 1
Actual Harvest Date	7/10/2014, 9/10/14
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	2.3 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20	1300		0.00	1-6	WW	186,848	11	5.2	1.3	41
21		1400	0.00	1-6	WW	296,519	14	5.2	2.1	41
	1400			7-12	WW	211,799	10	5.2	1.5	26
22		1500	0.00	7-12	WW	410,807	15	5.2	2.9	26
	1500			13-16	WW	164,323	9	3.4	1.8	26
23		1600	0.00	13-16	WW	315,171	16	3.4	3.4	26
	1600			17-19	WW	118,189	8	2.6	1.7	14
24		1700	0.00	17-19	WW	197,954	17	2.6	2.8	14
	1700			20-22	WW	81,510	7	2.6	1.2	14
25		1800	0.39	20-22	WW	244,329	18	2.6	3.5	14
	1800			23-24	WW	54,295	6	1.7	1.2	14
26		1900	0.04	23-24	WW	140,871	19	1.7	3.0	14
27			0.02							
28			0.00							
29			0.01							
30			0.00							
31			0.00							
Total			0.46							

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

[2]**See 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]	12

[3]**See MRP footnote 5**

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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 Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	30-Jun
Actual Planting Date	30-Jun
Anticipated Harvest Date	Sept 8, Nov 12
Actual Harvest Date	26-Aug
Expected Harvest Yield	N/A
Actual Harvest Yield	3.4 tons/acre

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 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			0.00						#DIV/0!	29
2			0.00						#DIV/0!	29
3			0.00						#DIV/0!	147
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10	1300		0.00	1-14	WW	167,587	11	9.6	0.6	10
11		1400	0.00	1-14	WW	177,727	14	9.6	0.7	10
	1400			15-30	WW	145,083	10	11.0	0.5	8
12			0.00	15-30	WW	312,950	24	11.0	1.0	8
13		1600	0.00	15-30	WW	386,525	16	11.0	1.3	8
	1600			31-41	WW	132,868	8	7.6	0.6	16
14			0.00	31-41	WW	394,475	24	7.6	1.9	16
15		1500	0.00	31-41	WW	168,820	15	7.6	0.8	16
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24	0700	800	0.00	1-7	WW	369,514	17	4.8	2.8	11
25	0700	800	0.39	1-7	WW	202,703	8	4.8	1.5	11
	800	0900		8-14	WW	405,405	16	4.8	3.1	11
26	800	0900	0.04	8-14	WW	186,840	9	4.8	1.4	11
	0900	1000		15-21	WW	311,400	15	4.8	2.4	23
27	0900	1000	0.02	15-21	WW	249,998	10	4.8	1.9	23
	1000	1100		22-28	WW	349,997	14	4.8	2.7	23
28	1000	1100	0.00	22-28	WW	315,952	11	4.8	2.4	23
	1100	1200		29-35	WW	373,398	13	4.8	2.9	28
29	1100	1200	0.01	29-35	WW	276,544	12	4.8	2.1	28
	1200	1300		36-41	WW	237,038	12	4.1	2.1	28
30	1200	1300	0.00	36-41	WW	300,141	13	4.1	2.7	28
31			0.00							
Total			0.46							

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

[2]See 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]	46

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	1-Jul
Actual Planting Date	
Anticipated Harvest Date	Sept 9, Nov 13
Actual Harvest Date	8-Sep
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	3.7 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23	1200	1300	0.00	1-5	WW	293,109	12	4.3	2.5	8
24	1200	1300	0.00	1-5	WW	250,276	13	4.3	2.2	8
	1300	1400		6-10	WW	211,772	11	4.3	1.8	8
25	1300	1400	0.39	6-10	WW	314,189	14	4.3	2.7	8
	1400	1500		11-15	WW	224,421	10	4.3	1.9	8
26	1400	1500	0.04	11-15	WW	275,811	15	4.3	2.4	8
	1500	1600		16-20	WW	165,487	9	4.3	1.4	8
27	1500	1600	0.02	16-20	WW	354,283	16	4.3	3.1	8
	1600	1700		21-25	WW	177,141	8	4.3	1.5	8
28	1600	1700	0.00	21-25	WW	432,486	17	4.3	3.7	8
	1700	1800		26-29	WW	142,466	7	3.4	1.5	30
29	1700	1800	0.01	26-29	WW	293,927	18	3.4	3.2	30
	1800	1900		30-34	WW	122,470	6	4.3	1.1	30
30	1800	1900	0.00	30-34	WW	453,290	19	4.3	3.9	30
	1900	2000		35-39	WW	119,287	5	4.3	1.0	8
31			0.00							
Total			0.46							

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

[2]See 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]	24

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	23-Jun
Actual Planting Date	23-Jun
Anticipated Harvest Date	Sept 1, Nov 5
Actual Harvest Date	13-Aug
Expected Harvest Yield	N/A
Actual Harvest Yield	2.8 tons / acre

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 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	1200	0.00	13-26	WW	252,144	12	12.5	0.7	4
	1200			27-39	WW	234,134	12	11.6	0.7	4
2		1200	0.00	27-39	WW	183,940	12	11.6	0.6	4
3	1200		0.00	40-42	WW	32,942	12	2.7	0.5	4
4		0300	0.00	40-42	WW	8,888	3	2.7	0.1	4
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14	1100		0.00	1-12	WW	303,029	13	10.7	1.0	26
15			0.00	1-12	WW	383,067	24	10.7	1.3	26
16		1200	0.00	1-12	WW	3,702	12	10.7	0.0	26
	1200			13-26	WW	4,320	12	12.5	0.0	20
17		1300	0.00	13-26	WW	493,961	13	12.5	1.5	20
	1300			27-42	WW	477,676	11	14.3	1.2	6
18		1100	0.00	27-42	WW	652,615	11	14.3	1.7	6
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28	1300	1400	0.00	1-7	WW	410,738	11	6.3	2.4	14
29	1300	1400	0.01	1-7	WW	419,425	14	6.3	2.5	14
	1400	1500		8-13	WW	256,791	10	5.4	1.8	14
30	1400	1500	0.00	8-13	WW	450,211	15	5.4	3.1	14
	1500	1600		14-20	WW	315,148	9	6.3	1.9	5
31			0.00							
Total			0.46							

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

[2]See 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]	28

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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 MS18b

(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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	23-Jun
Actual Planting Date	23-Jun
Anticipated Harvest Date	Sept 1, Nov 5
Actual Harvest Date	18-Aug
Expected Harvest Yield	N/A
Actual Harvest Yield	2.7 tons/acre

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 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			0.00							
2	1200		0.00	1-19	WW	268,835	12	17.0	0.6	6
3			0.00	1-19	WW	417,267	24	17.0	0.9	6
4		0300	0.00	1-19	WW	56,290	3	17.0	0.1	6
	0300			20-42	WW	476,983	21	20.6	0.9	7
5			0.00	20-42	WW	585,268	24	20.6	1.0	7
6		2100	0.00	20-42	WW	751,876	21	20.6	1.3	7
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18	1100	0900	0.00	1-14	WW	674,863	13	12.5	2.0	13
19	1100	0900	0.00	1-14	WW	347,271	9	12.5	1.0	13
	0900	1000		15-28	WW	578,785	15	12.5	1.7	29
20	0900	1000	0.00	15-28	WW	412,198	10	12.5	1.2	29
	1000	1100		29-37	WW	370,978	14	8.1	1.7	29
21	1000	1100	0.00	29-37	WW	363,448	11	8.1	1.7	29
	1100	1200		38-42	WW	238,627	13	4.5	2.0	29
22	1100	1200	0.00	38-42	WW	284,826	12	4.5	2.3	29
23			0.00							
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29			0.01							
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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 MS20a

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	34
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	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	10-Jun
Actual Planting Date	10-Jun
Anticipated Harvest Date	Aug 19, Oct 23
Actual Harvest Date	8/5/2014, 9/27/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.5 tons/acre

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 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		0.00	1-18	WW	623,434	24	15.5	1.5	15
2			0.00	1-18	WW	489,780	24	15.5	1.2	15
3			0.00	1-18	WW	380,102	24	15.5	0.9	15
4		0600	0.00	1-18	WW	102,553	6	15.5	0.2	15
	0600			19-35	WW	290,566	18	14.6	0.7	94
5			0.00	19-35	WW	415,952	24	14.6	1.0	94
6		2000	0.00	19-35	WW	508,914	20	14.6	1.3	94
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29			0.01							
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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]	20

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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 MS20b

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	35
Check Width (feet)	30
Check Length (feet)**	1,250
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	10-Jun
Actual Planting Date	10-Jun
Anticipated Harvest Date	Aug 19, Oct 23
Actual Harvest Date	5-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.5 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4	0600		0.00	1-4	WW	68,368	18	3.4	0.7	32
5			0.00	1-4	WW	97,871	24	3.4	1.0	32
6		2000	0.00	1-4	WW	119,745	20	3.4	1.3	32
	2000			5-18	WW	83,821	4	12.1	0.3	32
7			0.00	5-18	WW	905,529	24	12.1	2.8	32
8		0700	0.00	5-18	WW	303,150	7	12.1	0.9	32
	0700			19-27	WW	473,285	17	7.7	2.2	35
9		1700	0.00	19-27	WW	516,701	17	7.7	2.5	35
	1700			28-35	WW	189,119	7	6.9	1.0	39
10		1800	0.00	28-35	WW	195,880	18	6.9	1.0	39
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29			0.01							
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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]	21

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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 MS21

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

Field Irrigation Information

Area (acres)	25.9
Number of Checks	50
Check Width (feet)	30
Check Length (feet)**	750
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 Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	28-Jun
Actual Planting Date	28-Jun
Anticipated Harvest Date	Sept 6, Nov 10
Actual Harvest Date	21-Aug
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	3.4 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6	0800	1800	0.00	1-12	WW	107,770	10	6.2	0.6	15
	1800			13-25	WW	70,051	6	6.7	0.4	11
7			0.00	13-25	WW	504,509	24	6.7	2.8	11
8		2100	0.00	13-25	WW	506,693	21	6.7	2.8	11
	2100			26-38	WW	72,385	3	6.7	0.4	18
9			0.00	26-38	WW	632,199	24	6.7	3.5	18
10		0700	0.00	26-38	WW	74,271	7	6.7	0.4	18
	0700			39-50	WW	166,498	17	6.2	1.0	11
11			0.00	39-50	WW	195,863	24	6.2	1.2	11
12		2000	0.00	39-50	WW	146,695	20	6.2	0.9	11
13			0.00							
14			0.00							
15			0.00							
16			0.00							
17	1000	0900	0.00	1-9	WW	197,292	14	4.6	1.6	8
18	1000	0900	0.00	1-9	WW	173,280	9	4.6	1.4	8
	0900	0700		10-21	WW	385,066	15	6.2	2.3	66
19	0900	0700	0.00	10-21	WW	133,566	7	6.2	0.8	66
	0700	0800		22-33	WW	324,374	17	6.2	1.9	48
20	0700	0800	0.00	22-33	WW	163,067	8	6.2	1.0	48
	0800	1000		34-42	WW	244,601	16	4.6	1.9	48
21	0800	1000	0.00	34-42	WW	190,619	10	4.6	1.5	48
	1000	1100		43-50	WW	237,215	14	4.1	2.1	34
22	1000	1100	0.00	43-50	WW	241,007	11	4.1	2.1	34
23			0.00							
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29	0900	1000	0.01	1-8	WW	296,297	15	4.1	2.6	35
30	0900	1000	0.00	1-8	WW	230,878	10	4.1	2.1	35
	1000	1100		9-16	WW	323,229	14	4.1	2.9	36
31			0.00							
Total			0.46							

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

[2]See 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]	49

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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 MS24a

(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 Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/2014, 9/29/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.6 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10	1400	1800	0.00	1-28	WW	530310.3158	10	25.1	0.8	19
11	1400	1800	0.00	1-28	WW	444766.5282	18	25.1	0.7	19
	1800	1700		29-42	WW	74127.7547	6	12.5	0.2	12
12	1800	1700	0.00	29-42	WW	664,990	24	12.5	2.0	12
13	1800	1700	0.00	29-42	WW	527,508	17	12.5	1.5	12
	1700	1600		43-44	WW	31,030	7	1.8	0.6	12
14	1700	1600	0.00	43-44	WW	78,349	24	1.8	1.6	12
15	1700	1600	0.00	43-44	WW	69,224	16	1.8	1.4	12
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29			0.01							
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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]	14

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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 MS24b

(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 Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/2014, 9/30/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.6 tons/acre

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 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	00		0.00	20-26	WW	703,918	24	6.3	4.1	99
2		0800	0.00	20-26	WW	122,731	8	6.3	0.7	99
	0800			27-41	WW	525,990	16	13.4	1.4	64
3			0.00	27-41	WW	489,122	24	13.4	1.3	64
4		0600	0.00	27-41	WW	701,823	6	13.4	1.9	64
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13	1700		0.00	1-12	WW	186,179	7	10.7	0.6	11
14			0.00	1-12	WW	470,096	24	10.7	1.6	11
15		1600	0.00	1-12	WW	415,345	16	10.7	1.4	11
	1600			13-26	WW	242,285	8	12.5	0.7	29
16		1500	0.00	13-26	WW	734,567	15	12.5	2.2	29
	1500			27-41	WW	472,222	9	13.4	1.3	45
17		1700	0.00	27-41	WW	354,852	17	13.4	1.0	45
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29			0.01							
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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]	31

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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 MS24c

(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 Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/2014, 9/23/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.6 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10	1500	1900	0.00	1-28	WW	477,279	9	25.1	0.7	53
11	1500	1900	0.00	1-28	WW	469,476	19	25.1	0.7	53
	1900	1800		29-42	WW	61,773	5	12.5	0.2	14
12	1900	1800	0.00	29-42	WW	664,990	24	12.5	2.0	14
13	1900	1800	0.00	29-42	WW	558,538	18	12.5	1.6	14
	1800	1700		43-44	WW	26,597	6	1.8	0.5	12
14	1800	1700	0.00	43-44	WW	78,349	24	1.8	1.6	12
15	1800	1700	0.00	43-44	WW	73,551	17	1.8	1.5	12
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29			0.01							
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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]	14

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

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 MS24d

(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 Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/2014, 9/29/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.6 tons/acre

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 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		0.00	20-26	WW	703,918	24	6.3	4.1	99
2		0900	0.00	20-26	WW	138,072	9	6.3	0.8	99
	0900			27-41	WW	493,116	15	13.4	1.4	62
3			0.00	27-41	WW	489,122	24	13.4	1.3	62
4		0600	0.00	27-41	WW	701,823	6	13.4	1.9	62
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13	1800		0.00	1-12	WW	159,582	6	10.7	0.5	11
14			0.00	1-12	WW	470,096	24	10.7	1.6	11
15		1700	0.00	1-12	WW	441,304	17	10.7	1.5	11
	1700			13-26	WW	211,999	7	12.5	0.6	30
16		1600	0.00	13-26	WW	783,539	16	12.5	2.3	30
	1600			27-41	WW	419,753	8	13.4	1.2	44
17		1800	0.00	27-41	WW	375,725	18	13.4	1.0	44
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.39							
26			0.04							
27			0.02							
28			0.00							
29			0.01							
30			0.00							
31			0.00							
Total			0.46							

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

[2]See 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]	23

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	4-Jun
Actual Planting Date	6/4/14
Anticipated Harvest Date	August 13, October 17
Actual Harvest Date	7/24/2014, 9/16/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.2 tons/acre

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 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			0.00							
2			0.00							
3	0800		0.00	1-8	WW	237,175	16	6.1	1.4	24
4		0900	0.00	1-8	WW	76,304	9	6.1	0.5	24
	0900			9-14	WW	95,380	15	4.5	0.8	24
5		1000	0.00	9-14	WW	65,803	10	4.5	0.5	24
	1000			15-23	WW	138,185	14	6.8	0.7	29
6		1100	0.00	15-23	WW	110,922	11	6.8	0.6	29
	1100			24-31	WW	116,524	13	6.1	0.7	38
7		1200	0.00	24-31	WW	117,303	12	6.1	0.7	38
	1200			32-38	WW	102,640	12	5.3	0.7	45
8		1300	0.00	32-38	WW	96,381	13	5.3	0.7	45
	1300			39-45	WW	81,553	11	5.3	0.6	45
9		1400	0.00	39-45	WW	153,280	14	5.3	1.1	45
	1400			46-52	WW	109,486	10	5.3	0.8	45
10		1500	0.00	46-52	WW	308,788	15	5.3	2.1	45
	1500			53-59	WW	185,273	9	5.3	1.3	45
11		1600	0.00	53-59	WW	173,103	16	5.3	1.2	45
12			0.00							
13			0.00							
14			0.00							
15			0.01							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	8

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5-Jun
Actual Planting Date	5-Jun
Anticipated Harvest Date	August 14, October 18
Actual Harvest Date	7/24/2014, 9/16/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.2 tons/acre

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			0.00							
2			0.00							
3	0900		0.00	1-6	WW	151,603	15	4.1	1.4	24
4		1000	0.00	1-6	WW	57,806	10	4.1	0.5	24
	1000			7-13	WW	94,417	14	4.8	0.7	24
5		1100	0.00	7-13	WW	76,770	11	4.8	0.6	24
	1100			14-21	WW	103,689	13	5.5	0.7	26
6		1200	0.00	14-21	WW	97,782	12	5.5	0.7	26
	1200			22-29	WW	97,782	12	5.5	0.7	32
7		1300	0.00	22-29	WW	115,526	13	5.5	0.8	32
	1300			30-37	WW	97,752	11	5.5	0.7	32
8		1400	0.00	30-37	WW	107,838	14	5.5	0.7	32
	1400			38-45	WW	107,838	14	5.5	0.7	37
9		1500	0.00	38-45	WW	170,627	15	5.5	1.1	37
	1500			46-54	WW	115,173	9	6.2	0.7	37
10		1600	0.00	46-54	WW	384,983	16	6.2	2.3	37
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.01							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	7

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	3-Jul
Actual Planting Date	N/A
Anticipated Harvest Date	Sept 11, November 15
Actual Harvest Date	9-Sep
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	3.7 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11	0600		0.00	1-6	WW	182,096	18	5.0	1.4	30
12		0700	0.00	1-6	WW	52,209	7	5.0	0.4	30
	0700			7-12	WW	126,794	17	5.0	0.9	29
13		0800	0.00	7-12	WW	61,442	8	5.0	0.5	29
	0800			13-17	WW	102,404	16	4.1	0.9	28
14		0900	0.00	13-17	WW	28,974	9	4.1	0.3	28
	0900			18-24	WW	67,606	15	5.8	0.4	30
15		1000	0.01	18-24	WW	24,428	10	5.8	0.2	30
	1000	2400		25-32	WW	39,085	14	6.6	0.2	64
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	4

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	3-Jul
Actual Planting Date	
Anticipated Harvest Date	Sept 11, November 15
Actual Harvest Date	23-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.9 tons/acre

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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11	0700		0.00	1-6	WW	186,311	17	5.4	1.3	29
12		0800	0.00	1-6	WW	64,640	8	5.4	0.4	29
	0800			7-12	WW	129,281	16	5.4	0.9	31
13		0900	0.00	7-12	WW	74,883	9	5.4	0.5	31
	0900			13-18	WW	124,805	15	5.4	0.9	29
14		1000	0.00	13-18	WW	41,851	10	5.4	0.3	29
	1000			19-24	WW	58,592	14	5.4	0.4	34
15		1100	0.01	19-24	WW	24,952	11	5.4	0.2	34
	1100	2400		25-30	WW	29,488	13	5.4	0.2	34
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	5

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	24-Jun
Actual Planting Date	24-Jun
Anticipated Harvest Date	Sept 2, Nov 6
Actual Harvest Date	25-Aug
Expected Harvest Yield	4 tons/acre
Actual Harvest Yield	4.3 tons/acre

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	1000		0.00	14-20	WW	613,312	14	7.2	3.1	29
		1100		14-20	WW	399,741	11	7.2	2.0	29
2	1100		0.00	21-33	WW	877,354	13	13.4	2.4	12
		1200		21-33	WW	394,169	12	13.4	1.1	12
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11	1000		0.00	1-7	WW	206,544	14	7.2	1.1	44
12		1100	0.00	1-7	WW	119,647	11	7.2	0.6	44
	1100			8-13	WW	121,201	13	6.2	0.7	31
13		1200	0.00	8-13	WW	115,204	12	6.2	0.7	31
	1200			14-18	WW	96,003	12	5.2	0.7	52
14		1300	0.00	14-18	WW	52,314	13	5.2	0.4	52
	1300			19-25	WW	61,972	11	7.2	0.3	35
15		1400	0.01	19-25	WW	42,749	14	7.2	0.2	35
	1400	2400		26-33	WW	34,897	10	8.3	0.2	35
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	14

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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)	3.07
Total Nitrogen Demand (lb/ac)	480
Anticipated Planting Date	June 19th
Actual Planting Date	2008
Anticipated Harvest Date	August 28, Nov 1
Actual Harvest Date	7/10/2014, 9/10/14
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	2.3 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6	0700		0.00	1-6	WW	129,867	17	5.2	0.9	28
7		0800	0.00	1-6	WW	66,649	8	5.2	0.5	28
	0800			7-12	WW	133,299	16	5.2	1.0	36
8		0900	0.00	7-12	WW	64,992	9	5.2	0.5	36
	0900			13-16	WW	108,320	15	5.2	0.8	25
9		1000	0.00	13-16	WW	106,642	10	5.2	0.8	25
	1000			17-19	WW	74,649	14	2.6	1.1	37
10		1100	0.00	17-19	WW	110,282	11	2.6	1.6	37
	1100			20-22	WW	130,333	13	2.58	1.9	38
11		1200	0.00	20-22	WW	63,228	12	2.58	0.9	38
	1200			23-24	WW	42,152	12	1.72	0.9	34
12		1300	0.00	23-24	WW	33,667	13	1.72	0.7	34
13			0.00							
14			0.00							
15			0.01							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	4

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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 Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	30-Jun
Actual Planting Date	30-Jun
Anticipated Harvest Date	Sept 8, Nov 12
Actual Harvest Date	26-Aug
Expected Harvest Yield	N/A
Actual Harvest Yield	3.4 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11	0800		0.00	1-16	WW	359,695	16	11.0	1.2	32
12		0900	0.00	1-16	WW	149,170	9	11.0	0.5	32
	0900			17-24	WW	124,308	15	5.5	0.8	33
13		1000	0.00	17-24	WW	85,336	10	5.5	0.6	33
	1000			25-35	WW	164,273	14	7.6	0.8	38
14		1100	0.00	25-35	WW	64,923	11	7.6	0.3	38
	1100			36-41	WW	41,851	13	4.1	0.4	39
15	1100	2400	0.01	36-41	WW	22,683	13	4.1	0.2	39
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	6

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	1-Jul
Actual Planting Date	
Anticipated Harvest Date	Sept 9, Nov 13
Actual Harvest Date	8-Sep
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	3.7 tons/acre

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 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		2000	0.00	35-39	WW	517,351	20	4.3	4.5	
	2000	2100		40-43	WW	82,776	4	3.4	0.9	
2		2100	0.00	40-43	WW	360,494	21	3.4	3.9	
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11	0900		0.00	1-10	WW	261,341	15	8.5	1.1	31
12		1000	0.00	1-10	WW	128,452	10	8.5	0.6	31
	1000			11-21	WW	197,816	14	9.4	0.8	31
13		1100	0.00	11-21	WW	160,048	11	9.4	0.6	31
	1100			22-32	WW	189,148	13	9.4	0.7	38
14		1200	0.00	22-32	WW	87,823	12	9.4	0.3	38
	1200			33-43	WW	87,823	12	9.4	0.3	24
15		1300	0.01	33-43	WW	51,567	13	9.4	0.2	24
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00						#DIV/0!	#REF!
29			0.00						#DIV/0!	#REF!
30			0.00						#DIV/0!	#REF!
31			0.07							
Total			0.13							

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

[2]**See 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]	9

[3]**See MRP footnote 5**

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	23-Jun
Actual Planting Date	23-Jun
Anticipated Harvest Date	Sept 1, Nov 5
Actual Harvest Date	8/13/2014, 10/22/14
Expected Harvest Yield	N/A
Actual Harvest Yield	2.8 tons / acre

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 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	1600	0.00	14-20	WW	607,471	16	6.3	3.6	5
	1600	1700		21-27	WW	303,735	8	6.3	1.8	12
2		1700	0.00	21-27	WW	535,411	17	6.3	3.1	12
	1700	1800		28-34	WW	220,463	7	6.3	1.3	24
		1800		28-34	WW	275,918	18	6.3	1.6	24
3	1800	1900	0.00	34-42	WW	105,112	6	7.2	0.5	24
		1900		34-42	WW	190,375	19	7.2	1.0	24
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.01							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	9

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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 MS18b

(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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	23-Jun
Actual Planting Date	23-Jun
Anticipated Harvest Date	Sept 1, Nov 5
Actual Harvest Date	8/13/2014, 10/22/14
Expected Harvest Yield	N/A
Actual Harvest Yield	2.7 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4	1900		0.00	1-7	WW	43,836	5	6.3	0.3	23
5		2000	0.00	1-7	WW	181,456	20	6.3	1.1	23
	2000			8-15	WW	41,476	4	7.2	0.2	23
6		2100	0.00	8-15	WW	222,454	21	7.2	1.1	23
	2100			16-22	WW	27,807	3	6.3	0.2	21
7		2200	0.00	16-22	WW	222387	22	6.3	1.3	21
	2200			23-31	WW	25993	2	8.1	0.1	21
8		2300	0.00	23-31	WW	259101	23	8.1	1.2	21
	2300			32-37	WW	7510	1	5.4	0.1	23
9		2400	0.00	32-37	WW	266178	24	5.4	1.8	23
	2400			38-42	WW	0	0	4.5	0.0	29
10		0100	0.00	38-42	WW	17378	1	4.5	0.1	29
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.01							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	5

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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 MS20a

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	34
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	Sudan Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	10-Jun
Actual Planting Date	10-Jun
Anticipated Harvest Date	Aug 19, Oct 23
Actual Harvest Date	8/5/2014, 9/27/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.5 tons/acre

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 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			0.00							
2			0.00							
3	0600	0700	0.00	1-5	WW	189504	18	4.3	1.6	16
4		0700	0.00	1-5	WW	42150	7	4.3	0.4	16
	0700	0800		6-11	WW	122838	17	5.2	0.9	16
5		0800	0.00	6-11	WW	59821	8	5.2	0.4	16
	0800	0900		12-18	WW	139581	16	6.0	0.9	16
6		0900	0.00	12-18	WW	80212	9	6.0	0.5	16
	0900	1000		19-25	WW	133686	15	6.0	0.8	12
7		1000	0.00	19-25	WW	97197	10	6.0	0.6	12
	1000	1100		26-32	WW	136076	14	6.0	0.8	12
8		1100	0.00	26-32	WW	92674	11	6.0	0.6	12
	1100	1200		33-35	WW	46939	13	2.6	0.7	12
9		1200	0.00	33-35	WW	63985	12	2.6	0.9	12
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.01							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	6

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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 MS20b

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	35
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	Sudan Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	10-Jun
Actual Planting Date	10-Jun
Anticipated Harvest Date	Aug 19, Oct 23
Actual Harvest Date	5-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.5 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8	1100		0.00	1-4	WW	62,585	13	3.4	0.7	12
9		1200	0.00	1-4	WW	85,314	12	3.4	0.9	12
	1200			5-11	WW	149,299	12	6.0	0.9	16
10		1300	0.00	5-11	WW	304,110	13	6.0	1.9	16
	1300			12-18	WW	257,324	11	6.0	1.6	16
11		1400	0.00	12-18	WW	172,120	14	6.0	1.1	16
	1400			19-25	WW	122,943	10	6.0	0.8	19
12		1500	0.00	19-25	WW	135,962	15	6.0	0.8	19
	1500			26-31	WW	69,923	9	5.2	0.5	19
13		1600	0.00	26-31	WW	128,005	16	5.2	0.9	19
	1600			32-35	WW	42,668	8	3.4	0.5	8
14		1700	0.00	32-35	WW	45,607	17	3.4	0.5	8
15			0.01							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	8

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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 MS21

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

Field Irrigation Information

Area (acres)	25.9
Number of Checks	50
Check Width (feet)	30
Check Length (feet)**	750
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 Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	28-Jun
Actual Planting Date	28-Jun
Anticipated Harvest Date	Sept 6, Nov 10
Actual Harvest Date	21-Aug
Expected Harvest Yield	2 tons/acre
Actual Harvest Yield	3.4 tons/acre

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 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	1100	0.00	9-16	WW	275,364	11	4.1	2.5	36
	1100	1200		17-24	WW	325,431	13	4.1	2.9	31
2		1200	0.00	17-24	WW	249,189	12	4.1	2.2	31
	1200	1300		25-31	WW	218,041	12	3.6	2.2	29
		1300		25-31	WW	114,966	13	3.6	1.2	29
3	1300	1400	0.00	32-38	WW	97,279	11	3.6	1.0	34
		1400		32-38	WW	70,813	14	3.6	0.7	34
4	1400	1500	0.00	39-45	WW	50,580	10	3.6	0.5	43
		1500		39-45	WW	78,514	15	3.6	0.8	43
	1500	1600		46-50	WW	33,649	9	2.6	0.5	43
5		1600	0.00	46-50	WW	61,114	16	2.6	0.9	43
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10			0.00							
11			0.00							
12			0.00							
13			0.00							
14			0.00							
15			0.01							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	10

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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 MS24a

(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 Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/2014, 9/29/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.6 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4	1100		0.00	1-7	WW	1,042,599	13	6.3	6.1	7
5		1200	0.00	1-7	WW	546,643	12	6.3	3.2	7
	1200			8-14	WW	546,643	12	6.3	3.2	7
6		1300	0.00	8-14	WW	395,924	13	6.3	2.3	7
	1300			15-21	WW	335,013	11	6.3	2.0	7
7		1400	0.00	15-21	WW	339,083	14	6.3	2.0	7
	1400			22-28	WW	242,202	10	6.3	1.4	7
8		1500	0.00	22-28	WW	407,567	15	6.3	2.4	7
	1500			29-35	WW	244,540	9	6.3	1.4	17
9		1600	0.00	29-35	WW	348,437	16	6.3	2.0	17
	1600			36-42	WW	174,219	8	6.3	1.0	17
10		1700	0.00	36-42	WW	291,268	17	6.3	1.7	17
	1700			43-44	WW	34,267	7	1.8	0.7	4
11		1800	0.00	43-44	WW	88,404	18	1.8	1.8	4
12			0.00							
13			0.00							
14			0.00							
15			0.01							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	20

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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 MS24b

(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 Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/2014, 9/30/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.6 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10	1700		0.00	1-5	WW	85,667	7	4.5	0.7	17
11		1800	0.00	1-5	WW	221,011	18	4.5	1.8	17
	1600			6-12	WW	137,518	8	6.3	0.8	17
12		1700	0.00	6-12	WW	207,701	17	6.3	1.2	17
	1700			13-18	WW	73,306	7	5.4	0.5	13
13		1800	0.00	13-18	WW	282,332	18	5.4	1.9	13
	1800			19-26	WW	125,481	6	7.2	0.6	13
14		1900	0.00	19-26	WW	556,568	19	7.2	2.9	13
	1900			27-33	WW	128,157	5	6.3	0.8	10
15		2000	0.01	27-33	WW	180,674	20	6.3	1.1	10
	2000	0:00		34-41	WW	41,297	4	7.2	0.2	10
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	8

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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 MS24c

(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 Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/2014, 9/23/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.6 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4	1200		0.00	1-7	WW	962,399	12	6.3	5.7	7
5		1300	0.00	1-7	WW	592,197	13	6.3	3.5	7
	1300			8-14	WW	501,089	11	6.3	2.9	7
6		1400	0.00	8-14	WW	426,380	14	6.3	2.5	7
	1400			15-21	WW	304,557	10	6.3	1.8	7
7		1500	0.00	15-21	WW	363,303	15	6.3	2.1	7
	1500			22-28	WW	217,982	9	6.3	1.3	7
8		1600	0.00	22-28	WW	434,738	16	6.3	2.6	7
	1600			29-35	WW	217,369	8	6.3	1.3	17
9		1700	0.00	29-35	WW	370,215	17	6.3	2.2	17
	1700			36-42	WW	152,441	7	6.3	0.9	17
10		1800	0.00	36-42	WW	308,401	18	6.3	1.8	17
	1800			43-44	WW	29,372	6	1.8	0.6	17
11		1900	0.00	43-44	WW	93,316	19	1.8	1.9	17
12			0.00							
13			0.00							
14			0.00							
15			0.01							
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	20

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	October
YEAR	2014

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 MS24d

(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 Grass
Crop ET (Inches)	0.63
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	15-Jun
Actual Planting Date	15-Jun
Anticipated Harvest Date	Aug 24, Oct 28
Actual Harvest Date	7/28/2014, 9/29/14
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.6 tons/acre

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 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			0.00							
2			0.00							
3			0.00							
4			0.00							
5			0.00							
6			0.00							
7			0.00							
8			0.00							
9			0.00							
10	1800		0.00	1-5	WW	73,429	6	4.5	0.6	17
11		1900	0.00	1-5	WW	233,290	19	4.5	1.9	17
	1900			6-12	WW	85,949	5	6.3	0.5	17
12		2000	0.00	6-12	WW	244,354	20	6.3	1.4	17
	2000			13-18	WW	41,889	4	5.4	0.3	13
13		2100	0.00	13-18	WW	329,387	21	5.4	2.3	13
	2100			19-26	WW	62,740	3	7.2	0.3	13
14		2200	0.00	19-26	WW	644,447	22	7.2	3.3	13
	2200			27-33	WW	51,263	2	6.3	0.3	9
15		2300	0.01	27-33	WW	207,776	23	6.3	1.2	9
	2300	2400		34-41	WW	10,324	1	7.2	0.1	9
16			0.00							
17			0.00							
18			0.00							
19			0.00							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.00							
25			0.04							
26			0.01							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.07							
Total			0.13							

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

[2]See 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]	8

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	May
YEAR	2014

DISCHARGER: **Morming 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	~~Gobel~~	MS 1	MS 2	MS 3	MS 5	MS 6	MS 11	MS 14	MS 15	MS 16	MS 18a	MS 18b	MS 20a	MS 20b	MS 21	MS 24a	MS 24b	MS 24c	MS 24d
Acres of LAA Irrigated																			
Total Nitrogen Loading from Wastewater (lbs/ac/month)																			
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)																			
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)			56	14		63	14	63	0	0	82	82	119	119	0	82	82	82	82
Cumulative Annual Total Nitrogen Value (lbs/ac/year)		**0**	**56**	**14**	**0**	**63**	**14**	**63**	**0**	**0**	**82**	**82**	**119**	**119**	**0**	**82**	**82**	**82**	**82**
Annual Crop Demand (lbs/ac/year)		***110***	***440***	***440***	***475***	***440***	***500***	***480***	***475***	***440***	***475***	***475***	***440***	***440***	***500***	***475***	***475***	***475***	***475***

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2014

DISCHARGER: **Morming 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	~~Gobel~~	MS 1	MS 2	MS 3	MS 5	MS 6	MS 11	MS 14	MS 15	MS 16	MS 18a	MS 18b	MS 20a	MS 20b	MS 21	MS 24a	MS 24b	MS 24c	MS 24d
Acres of LAA Irrigated																			
Total Nitrogen Loading from Wastewater (lbs/ac/month)																			
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)					123	123			123	123					123				
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)			56	14	123	186	14	63	123	123	82	82	119	119	123	82	82	82	82
Annual Crop Demand (lbs/ac/year)		***110***	***440***	***440***	***475***	***440***	***500***	***480***	***475***	***440***	***475***	***475***	***440***	***440***	***500***	***475***	***475***	***475***	***475***

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2014

DISCHARGER: **Morming 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	~~Gobel~~	MS 1	MS 2	MS 3	MS 5	MS 6	MS 11	MS 14	MS 15	MS 16	MS 18a	MS 18b	MS 20a	MS 20b	MS 21	MS 24a	MS 24b	MS 24c	MS 24d
Acres of LAA Irrigated																			
Total Nitrogen Loading from Wastewater (lbs/ac/month)					120	23	141	39	82	56	108	40			98				
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)																			
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)			56	14	243	209	155	102	205	179	190	122	119	119	221	82	82	82	82
Annual Crop Demand (lbs/ac/year)		***110***	***440***	***440***	***475***	***440***	***500***	***480***	***475***	***440***	***475***	***475***	***440***	***440***	***500***	***475***	***475***	***475***	***475***

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2014

DISCHARGER: **Morming 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	~~Gobel~~	MS 1	MS 2	MS 3	MS 5	MS 6	MS 11	MS 14	MS 15	MS 16	MS 18a	MS 18b	MS 20a	MS 20b	MS 21	MS 24a	MS 24b	MS 24c	MS 24d
Acres of LAA Irrigated																			
Total Nitrogen Loading from Wastewater (lbs/ac)			55	50	36	57	27	43	30	37	16		41	26	35	46	58	46	60
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)																			
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)			111	64	279	266	182	145	235	216	206	122	160	145	256	128	140	128	142
Annual Crop Demand (lbs/ac/year)		***110***	***440***	***440***	***475***	***440***	***500***	***480***	***475***	***440***	***475***	***475***	***440***	***440***	***500***	***475***	***475***	***475***	***475***

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

DISCHARGER: **Morming 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	~~Gobel~~	MS 1	MS 2	MS 3	MS 5	MS 6	MS 11	MS 14	MS 15	MS 16	MS 18a	MS 18b	MS 20a	MS 20b	MS 21	MS 24a	MS 24b	MS 24c	MS 24d
Acres of LAA Irrigated																			
Total Nitrogen Loading from Wastewater (lbs/ac)			19	23	31	57	54	12	46	24	28	34	20	21	49	14	31	14	23
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)																			
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)			130	87	310	323	236	157	281	240	234	156	180	166	305	142	171	142	165
Annual Crop Demand (lbs/ac/year)		***110***	***440***	***440***	***475***	***440***	***500***	***480***	***475***	***440***	***475***	***475***	***440***	***440***	***500***	***475***	***475***	***475***	***475***

MONTHLY MONITORING REPORT

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

MONTH	August
YEAR	2014

LAND APPLICATION AREA MONITORING TOTAL NITROGEN LOADING RESULTS

LAA Field	~~Gobel~~	MS 1	MS 2	MS 3	MS 5	MS 6	MS 11	MS 14	MS 15	MS 16	MS 18a	MS 18b	MS 20a	MS 20b	MS 21	MS 24a	MS 24b	MS 24c	MS 24d
Acres of LAA Irrigated																			
Total Nitrogen Loading from Wastewater (lbs/ac)			8	7	4	5	14	4	6	9	9	5	6	8	10	20	8	20	8
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)																			
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)			138	94	314	328	250	161	287	249	243	161	186	174	315	162	179	162	173
Annual Crop Demand (lbs/ac/year)		***110***	***440***	***440***	***475***	***440***	***500***	***480***	***475***	***440***	***475***	***475***	***440***	***440***	***500***	***475***	***475***	***475***	***475***

Nitrogen Balance

LAA Field	MS 1 *	MS 2	MS 3	MS 5	MS 6	MS 11	MS 14	MS 15	MS 16	MS 18a	MS 18b	MS 20a	MS 20b	MS 21	MS 24a	MS 24b	MS 24c	MS 24d
2014 Cropping	**Rice**	**Oats/ Sudan**	**Oats/ Sudan**	**Pasture/ Sudan Grass**	**Oats/ Sudan**	**Wheat Grass/ Sudan**	**Rye Grass/ Grass Hay**	**Pasture/ Sudan**	**Oats/ Sudan**	**Pasture/ Sudan**	**Pasture/ Sudan**	**Oats/ Sudan**	**Oats/ Sudan**	**Wheat Grass/Sudan**	**Pasture/ Sudan**	**Pasture/ Sudan**	**Pasture/ Sudan**	**Pasture/ Sudan**
Planting Dates	N/A	11/15/13, 6/4/14	11/15/13, 6/5/14	2007, 7/1/14	11/15/13, 7/1/14	11/15/13, 6/24/14	2008, 6/19/14	2007, 6/30/14	11/15/13, 7/1/14	2007, 6/23/14	2007, 6/23/14	11/15/13, 6/10/14	11/15/13, 6/10/14	11/15/13, 6/28/14	2007, 6/15/14	2007, 6/15/14	2007, 6/15/14	2007, 6/15/14
Harvest Dates	N/A	5/6/14, 7/24, 9/16	5/6, 7/24, 9/16	9/9	5/6, 8/23	8/25	5/6, 7/10, 9/10	8/26	5/6, 9/8	8/13, 10/22	8/13, 10/22	5/6, 8/5, 9/25	5/6, 8/5	8/21	7/28, 9/29	7/28, 9/30	7/28, 9/23	7/28, 9/29
Total Nitrogen Loading from Wastewater (lbs/ac/year)	0	82	80	191	142	236	98	164	126	161	79	67	55	192	80	97	80	91
Total Nitrogen Loading from Cattle (lbs/ac/year)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Nitrogen Loading from Commercial Fertilizers (lbs/ac/year)	0	56	14		63	14	63	0	0	82	82	119	119	0	82	82	82	82
Total Nitrogen Loading from Settling Pond Solids (lbs/ac/year)	0	0	0	123	123	0	0	123	123	0	0	0	0	123	0	0	0	0
Cumulative Annual Total Nitrogen Value	**0**	**138**	**94**	**314**	**328**	**250**	**161**	**287**	**249**	**243**	**161**	**186**	**174**	**315**	**162**	**179**	**162**	**173**
Annual Crop Demand (lbs/ac/year)	***110***	***440***	***440***	***475***	***440***	***500***	***480***	***475***	***440***	***475***	***475***	***440***	***440***	***500***	***475***	***475***	***475***	***475***

Attachment B

MONTHLY MONITORING REPORT

MONTH	March
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

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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 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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18	8:00	18:00	0	1-13	Cooling Pond	460,770	10	5.9	0.24	
	18:00			14-21	Cooling Pond	276,462	6	5.9	0.14	
19		6:00	0	14-21	Cooling Pond	276,462	6	5.9	0.14	
	6:00	14:00		22-29	Cooling Pond	368,616	8	5.9	0.19	
	14:00	22:00		30-37	Cooling Pond	368,616	8	5.9	0.19	
	22:00			38-45	Cooling Pond	92,154	2	5.9	0.05	
20		11:00	0	38-45	Cooling Pond	479,024	11	5.9	0.25	
	11:00			46-52	Cooling Pond	566,119	13	5.9	0.29	
21		7:00	0	46-52	Cooling Pond	304,833	7	5.9	0.16	
	7:00			53-58	Cooling Pond	740,310	17	5.9	0.39	
22		6:00	0.06	53-58	Cooling Pond	237,561	6	5.9	0.12	
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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

**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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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

**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	0:00	7:00	0	19-26	Cooling Pond	196,656	7	5.8	0.10	
	7:00			27-34	Cooling Pond	477,594	17	5.8	0.25	
2		6:00	0	27-34	Cooling Pond	236,018	6	5.8	0.12	
3			0							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11	9:00		0.15	1-9	Cooling Pond	419,549	15	6.5	0.20	
12		6:00	0	1-9	Cooling Pond	160,724	6	6.5	0.08	
	6:00	18:00		9-18	Cooling Pond	321,448	12	6.5	0.15	
	18:00			19-26	Cooling Pond	143,415	6	5.8	0.08	
13		7:00	0	19-26	Cooling Pond	203,684	7	5.8	0.11	
	7:00	21:00		27-34	Cooling Pond	407,369	14	5.8	0.22	
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26			0							
27			0							
28	9:00	20:00	0	1-9	Cooling Pond	604,729	11	6.5	0.29	
	20:00			9-18	Cooling Pond	219,901	4	6.5	0.10	
29		9:00	0	9-18	Cooling Pond	505,505	9	6.5	0.24	
	9:00	20:00		19-26	Cooling Pond	551,303	11	5.8	0.29	
	20:00			27-34	Cooling Pond	200,474	4	5.8	0.11	
30		7:00	0	27-34	Cooling Pond	409,918	7	5.8	0.22	
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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

Crop Information

Crop Name	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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

**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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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

**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							
4			0							
5			0							
6			0							
7			0							
8			0							
9	11:00		0	1-7	Cooling Pond	714,860	13	7.8	0.28	
10		13:00	0	1-7	Cooling Pond	506,546	13	7.8	0.20	
	13:00			8-15	Cooling Pond	489,062	11	8.9	0.17	
11		11:00	0.15	8-15	Cooling Pond	421,270	11	8.9	0.15	
	11:00			16-23	Cooling Pond	497,865	13	8.9	0.17	
12		10:00	0	16-23	Cooling Pond	366,780	10	8.9	0.13	
	10:00			24-32	Cooling Pond	576,957	14	10	0.18	
13		12:00	0	24-32	Cooling Pond	602,023	12	10	0.18	
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
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	8:00		0	1-8	Cooling Pond	541,892	17	4.7	0.35	
3		7:00	0	1-8	Cooling Pond	556,260	17	4.7	0.36	
	7:00			9-16	Cooling Pond	556,260	17	4.7	0.36	
4		6:00	0	9-16	Cooling Pond	286,102	6	4.7	0.19	
	6:00			17-24	Cooling Pond	858,305	18	4.7	0.56	
5		9:00	0	17-24	Cooling Pond	591,564	9	4.7	0.39	
	9:00			25-32	Cooling Pond	985,940	15	4.7	0.64	
6		7:00	0	25-32	Cooling Pond	244,776	7	4.7	0.16	
	7:00			33-40	Cooling Pond	594,456	17	4.7	0.39	
7		6:00	0	33-40	Cooling Pond	209,808	6	4.7	0.14	
	6:00			41-48	Cooling Pond	629,424	18	4.7	0.41	
8		8:00	0	41-48	Cooling Pond	298,872	8	4.7	0.20	
	8:00			49-54	Cooling Pond	445,128	16	3.5	0.39	
9		8:00	0	49-54	Cooling Pond	197,397	8	3.5	0.17	
10			0							
11			0.15							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26	6:00	19:00	0	1-8	Cooling Pond	491,442	13	4.7	0.32	
	19:00			9-16	Cooling Pond	189,016	5	4.7	0.12	
27		18:00	0	9-16	Cooling Pond	690,158	18	4.7	0.45	
	18:00			17-24	Cooling Pond	230,053	6	4.7	0.15	
28		17:00	0	17-24	Cooling Pond	675,774	17	4.7	0.44	
	17:00			25-32	Cooling Pond	278,260	7	4.7	0.18	
29		10:00	0	25-32	Cooling Pond	406,132	10	4.7	0.27	
	10:00	22:00		33-40	Cooling Pond	487,359	12	4.7	0.32	
	22:00			41-48	Cooling Pond	81,226	2	4.7	0.05	
30		9:00	0	41-48	Cooling Pond	427,082	9	4.7	0.28	
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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	0:00	22:00	0	1-10	Cooling Pond	713,969	22	6.7	0.33	
	22:00			11-20	Cooling Pond	64,906	2	6.7	0.03	
2		19:00	0	11-20	Cooling Pond	863,366	19	6.7	0.40	
	19:00			21-30	Cooling Pond	227,201	5	6.7	0.10	
3		17:00	0	21-30	Cooling Pond	792,966	17	6.7	0.36	
	17:00			31-40	Cooling Pond	326,515	7	6.7	0.15	
4		16:00	0	31-40	Cooling Pond	1,087,593	16	6.7	0.50	
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13	15:00		0	1-10	Cooling Pond	302,517	9	6.7	0.14	
14		7:00	0	1-10	Cooling Pond	342,542	7	6.7	0.16	
	7:00	20:00		11-20	Cooling Pond	636,149	13	6.7	0.29	
	20:00			21-30	Cooling Pond	195,738	4	6.7	0.09	
15		7:00	0	21-30	Cooling Pond	336,270	7	6.7	0.15	
	7:00	17:00		31-40	Cooling Pond	480,385	10	6.7	0.22	
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26	9:00	20:00	0	1-10	Cooling Pond	592,787	11	6.7	0.27	
	20:00			11-20	Cooling Pond	215,559	4	6.7	0.10	
27		9:00	0	11-20	Cooling Pond	491,921	9	6.7	0.23	
	9:00	19:00		21-30	Cooling Pond	546,579	10	6.7	0.25	
	19:00			31-40	Cooling Pond	273,289	5	6.7	0.13	
28		8:00	0	31-40	Cooling Pond	453,335	8	6.7	0.21	
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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

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

Crop Information

Crop Name	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13			0							
14			0							
15	18:00		0	1-7	Cooling Pond	262,420	6	6.1	0.13	
16		5:00	0	1-7	Cooling Pond	221,602	5	6.1	0.11	
	5:00	12:00		8-14	Cooling Pond	310,242	7	6.1	0.16	
	12:00	20:00		15-21	Cooling Pond	354,563	8	6.1	0.18	
	20:00			22-28	Cooling Pond	177,281	4	6.1	0.09	
17		6:00	0	22-28	Cooling Pond	265,922	6	6.1	0.13	
	6:00	15:00		28-35	Cooling Pond	398,883	9	6.1	0.20	
	15:00			35-42	Cooling Pond	398,883	9	6.1	0.20	
18		6:00	0	35-42	Cooling Pond	285,833	6	6.1	0.14	
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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

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

Crop Information

Crop Name	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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							
4			0							
5	18:00		0	1-8	Cooling Pond	654,496	6	7.8	0.26	
6		6:00	0	1-8	Cooling Pond	348,192	6	7.8	0.14	
	6:00	17:00		9-16	Cooling Pond	638,352	11	7.8	0.25	
	17:00			17-24	Cooling Pond	406,224	7	7.8	0.16	
7		6:00	0	17-24	Cooling Pond	348,192	6	7.8	0.14	
	6:00	19:00		25-32	Cooling Pond	754,416	13	7.8	0.30	
	19:00			33-40	Cooling Pond	290,160	5	7.8	0.11	
8		6:00	0	33-40	Cooling Pond	372,000	6	7.8	0.15	
9			0							
10			0							
11			0.15							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22	6:00	18:00	0.06	1-8	Cooling Pond	628,127	12	7.8	0.25	
	18:00			9-16	Cooling Pond	314,064	6	7.8	0.12	
23		7:00	0	9-16	Cooling Pond	356,337	7	7.8	0.14	
	7:00	18:00		17-24	Cooling Pond	559,958	11	7.8	0.22	
	18:00			25-32	Cooling Pond	305,432	6	7.8	0.12	
24		7:00	0	25-32	Cooling Pond	350,193	7	7.8	0.14	
	7:00	20:00		33-40	Cooling Pond	650,359	13	7.8	0.26	
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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 MS18b

(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

Crop Information

Crop Name	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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							
4			0							
5			0							
6			0							
7			0							
8	6:00	16:00	0	1-8	Cooling Pond	620,000	10	7.8	0.24	
	16:00			9-16	Cooling Pond	496,000	8	7.8	0.20	
9		6:00	0	9-16	Cooling Pond	329,936	6	7.8	0.13	
	6:00	18:00		17-24	Cooling Pond	659,871	12	7.8	0.26	
	18:00			25-32	Cooling Pond	329,936	6	7.8	0.13	
10		7:00	0	25-32	Cooling Pond	272,756	7	7.8	0.11	
	7:00			33-40	Cooling Pond	662,406	17	7.8	0.26	
11		6:00	0.15	33-40	Cooling Pond	201,383	6	7.8	0.08	
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24	20:00		0	1-8	Cooling Pond	200,110	4	7.8	0.08	
25		11:00	0	1-8	Cooling Pond	556,702	11	7.8	0.22	
	11:00			9-16	Cooling Pond	657,921	13	7.8	0.26	
26		6:00	0	9-16	Cooling Pond	376,424	6	7.8	0.15	
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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 MS20a

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	34
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	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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	0:00		0	1-7	Cooling Pond	778,875	24	6.7	0.36	
2		8:00	0	1-7	Cooling Pond	363,522	8	6.7	0.17	
3			0							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10	15:00		0	15-21	Cooling Pond	301,230	9	6.7	0.14	
11		17:00	0.15	15-21	Cooling Pond	490,119	17	6.7	0.22	
	17:00			22-28	Cooling Pond	201,814	7	6.7	0.09	
12			0	22-28	Cooling Pond	662,677	24	6.7	0.30	
13		6:00	0	22-28	Cooling Pond	201,678	6	6.7	0.09	
	6:00			29-34	Cooling Pond	514,730	18	5.7	0.28	
14		16:00	0	29-34	Cooling Pond	666,094	16	5.7	0.36	
15			0							
16			0							
17			0							
18			0							
19	17:00		0	1-7	Cooling Pond	366,273	7	6.7	0.17	
20		18:00	0	1-7	Cooling Pond	890,143	18	6.7	0.41	
	18:00			15-21	Cooling Pond	296,714	6	6.7	0.14	
21		11:00	0	15-21	Cooling Pond	543,976	11	6.7	0.25	
	11:00			22-28	Cooling Pond	642,881	13	6.7	0.29	
22		6:00	0.06	22-28	Cooling Pond	269,773	6	6.7	0.12	
	6:00	20:00		22-28	Cooling Pond	629,470	14	6.7	0.29	
	20:00			29-34	Cooling Pond	153,005	4	5.7	0.08	
23		6:00	0	29-34	Cooling Pond	223,200	6	5.7	0.12	
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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 MS20b

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	35
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	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13			0							
14	16:00		0	1-7	Cooling Pond	391,476	8	6.7	0.18	
15		8:00	0	1-7	Cooling Pond	384,308	8	6.7	0.18	
	8:00			8-14	Cooling Pond	768,617	16	6.7	0.35	
16		13:00	0	8-14	Cooling Pond	632,836	13	6.7	0.29	
	13:00			15-21	Cooling Pond	535,477	11	6.7	0.25	
17		19:00	0	15-21	Cooling Pond	924,914	19	6.7	0.42	
	19:00			22-28	Cooling Pond	243,398	5	6.7	0.11	
18		18:00	0	22-28	Cooling Pond	941,845	18	6.7	0.43	
	18:00			29-35	Cooling Pond	267,090	6	5.7	0.14	
19		17:00	0	29-35	Cooling Pond	756,756	17	5.7	0.41	
20			0							
21			0							
22			0.06							
23	6:00	17:00	0	1-7	Cooling Pond	480,989	11	6.7	0.22	
	17:00			8-14	Cooling Pond	306,084	7	6.7	0.14	
24		6:00	0	8-14	Cooling Pond	257,834	6	6.7	0.12	
	6:00			15-21	Cooling Pond	773,503	18	6.7	0.35	
25		5:00	0	15-21	Cooling Pond	217,360	5	6.7	0.10	
	5:00	20:00		22-28	Cooling Pond	652,081	15	6.7	0.30	
	20:00			29-35	Cooling Pond	147,935	4	5.7	0.08	
26		8:00	0	29-35	Cooling Pond	366,772	8	5.7	0.20	
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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 MS21

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

Field Irrigation Information

Area (acres)	25.9
Number of Checks	50
Check Width (feet)	30
Check Length (feet)**	750
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	4.42
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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 MS24a

(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	N/A
Crop ET (Inches)	N/A
Total Nitrogen Demand (lb/ac)	N/A
Anticipated Planting Date	
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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 MS24b

(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	N/A
Crop ET (Inches)	N/A
Total Nitrogen Demand (lb/ac)	N/A
Anticipated Planting Date	
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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 MS24c

(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	N/A
Crop ET (Inches)	N/A
Total Nitrogen Demand (lb/ac)	N/A
Anticipated Planting Date	
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	March
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 MS24d

(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	N/A
Crop ET (Inches)	N/A
Total Nitrogen Demand (lb/ac)	N/A
Anticipated Planting Date	
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0.15							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0.06							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
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

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	17:00		0	1-7	Supplemental	233,983	7	5	0.14	
2		18:00	0	1-7	Supplemental	562,500	18	5	0.35	
	18:00			8-14	Supplemental	187,500	6	5	0.12	
3		16:00	0	8-14	Supplemental	500,000	16	5	0.31	
	16:00			15-21	Supplemental	250,000	8	5	0.15	
4		13:00	0	15-21	Supplemental	406,250	13	5	0.25	
	13:00			22-28	Supplemental	343,750	11	5	0.21	
5		5:00	0	22-28	Supplemental	156,250	5	5	0.10	
	5:00	23:00		29-35	Supplemental	562,500	18	5	0.35	
	23:00			36-42	Supplemental	31,250	1	5	0.02	
6		18:00	0	36-42	Supplemental	562,500	18	5	0.35	
	18:00			43-48	Supplemental	187,500	6	5	0.12	
7		18:00	0	43-48	Supplemental	366,620	18	5	0.23	
	18:00			49-58	Supplemental	173,533	6	7.1	0.08	
8		19:00	0	49-58	Supplemental	460,213	19	7.1	0.20	
9			0							
10			0.01							
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
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

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	16:00		0	1-6	Supplemental	246,017	8	4.6	0.16	
2		14:00	0	1-6	Supplemental	402,500	14	4.6	0.96	
	14:00			7-12	Supplemental	287,500	10	4.6	0.19	
3		13:00	0	7-12	Supplemental	373,750	13	4.6	0.25	
	13:00			13-18	Supplemental	316,250	11	4.6	0.21	
4		15:00	0	13-18	Supplemental	431,250	15	4.6	0.29	
	15:00			19-24	Supplemental	258,750	9	4.6	0.17	
5		16:00	0	19-24	Supplemental	460,000	16	4.6	0.31	
	16:00			25-30	Supplemental	230,000	8	4.6	0.15	
6		17:00	0	25-30	Supplemental	488,750	17	4.6	0.33	
	17:00			31-36	Supplemental	201,250	7	4.6	0.13	
7		23:00	0	31-36	Supplemental	430,982	23	4.6	0.29	
	23:00			37-42	Supplemental	18,738	1	4.6	0.01	
8			0	37-42	Supplemental	376,631	24	4.6	0.25	
9		6:00	0	37-42	Supplemental	91,492	6	4.6	0.06	
	6:00			43-53	Supplemental	417,680	18	7.0	0.18	
10		14:00	0.01	43-53	Supplemental	372,545	14	7.0	0.16	
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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)	6.97
Total Nitrogen Demand (lb/ac)	325
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
11			0							
12			0							
13	10:00		0	1-7	Supplemental	396,055	14	5.1	0.24	
14		0.375	0	1-7	Supplemental	259,811	9	5.1	0.16	
	9:00			8-14	Supplemental	433,019	15	5.1	0.26	
15		12:00	0	8-14	Supplemental	346,415	12	5.1	0.21	
	12:00			15-21	Supplemental	346,415	12	5.1	0.21	
16		8:00	0	15-21	Supplemental	157,428	8	5.1	0.09	
	8:00			22-28	Supplemental	314,855	16	5.1	0.19	
17		10:00	0	22-28	Supplemental	180,976	10	5.1	0.11	
	10:00			29-34	Supplemental	228,526	14	4.6	0.15	
18		14:00	0	29-34	Supplemental	220,433	14	4.6	0.15	
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			0.21							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
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

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							
4			0							
5			0							
6			0							
7			0							
8	20:00		0	1-7	Supplemental	70,959	4	5.2	0.04	
9		18:00	0	1-7	Supplemental	310,276	18	5.2	0.18	
	18:00			8-14	Supplemental	103,425	6	5.2	0.06	
10		22:00	0.01	8-14	Supplemental	434,889	22	5.2	0.26	
	22:00			15-21	Supplemental	39,535	2	5.2	0.02	
11			0	15-21	Supplemental	640,000	24	5.2	0.38	
12		2:00	0	15-21	Supplemental	50,560	2	5.2	0.03	
	2:00			22-29	Supplemental	631,033	22	5.9	0.33	
13		8:00	0	22-29	Supplemental	261,818	8	5.9	0.14	
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
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

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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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

Crop Information

Crop Name	Oats
Crop ET (Inches)	0.22
Total Nitrogen Demand (lb/ac)	115
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

**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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
11			0							
12			0							
13			0							
14			0							
15			0							
16	6:00		0	1-8	Supplemental	458,392	18	6.6	0.21	
17		16:00	0	1-8	Supplemental	374,726	16	6.6	0.17	
	16:00			9-16	Supplemental	187,363	8	6.6	0.09	
18		16:00	0	9-16	Supplemental	361,455	16	6.6	0.17	
	11:00			17-24	Supplemental	293,682	13	6.6	0.14	
19			0	17-24	Supplemental	555,789	24	6.6	0.26	
20		4:00	0	17-24	Supplemental	96,585	4	6.6	0.04	
	4:00			25-32	Supplemental	482,927	20	6.6	0.22	
21		7:00	0	25-32	Supplemental	168,000	7	6.6	0.08	
	7:00			33-40	Supplemental	408,000	17	6.6	0.19	
22		13:00	0	33-40	Supplemental	317,614	13	6.6	0.15	
	13:00			41-48	Supplemental	268,751	11	6.6	0.12	
23		17:00	0	41-48	Supplemental	493,488	17	6.6	0.23	
	17:00			49-54	Supplemental	150,861	7	4.9	0.09	
24		23:00	0	49-54	Supplemental	683,318	23	4.9	0.43	
25			0							
26			0							
27			0							
27			0							
28			0							
28			0							
29			0							
30			0							
31			0							
Total			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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	Oats
Crop ET (Inches)	0.22
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
11			0							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18	17:00		0	1-7	Supplemental	112,612	7	4.7	0.07	
19		10:00	0	1-7	Supplemental	164,912	10	4.7	0.11	
	10:00			8-14	Supplemental	230,877	14	4.7	0.15	
20		6:00	0	8-14	Supplemental	103,171	6	4.7	0.07	
	6:00			15-21	Supplemental	309,512	18	4.7	0.20	
21		1:00	0	15-21	Supplemental	17,091	1	4.7	0.01	
	1:00	21:00		22-28	Supplemental	341,818	20	4.7	0.22	
	21:00			29-35	Supplemental	51,273	3	4.7	0.03	
22		19:00	0	29-35	Supplemental	330,571	19	4.7	0.22	
	19:00			36-40	Supplemental	61,080	5	3.3	0.06	
23		17:00	0	36-40	Supplemental	246,744	17	3.3	0.23	
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
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

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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
11			0							
12			0							
13			0							
14			0							
15			0							
16			0							
17			0							
18			0							
19			0							
20	14:00		0	1-6	Supplemental	190,244	10	5.2	0.11	
21		15:00	0	1-6	Supplemental	283,636	15	5.2	0.17	
	15:00			7-12	Supplemental	170,182	9	5.2	0.10	
22		13:00	0	7-12	Supplemental	250,242	13	5.2	0.15	
	13:00			13-18	Supplemental	211,743	11	5.2	0.12	
23		11:00	0	13-18	Supplemental	251,582	11	5.2	0.15	
	11:00			19-24	Supplemental	297,324	13	5.2	0.18	
24		12:00	0	19-24	Supplemental	378,341	12	5.2	0.22	
	12:00			25-30	Supplemental	378,341	12	5.2	0.22	
25		10:00	0	25-30	Supplemental	600,000	10	5.2	0.35	
	10:00			31-36	Supplemental	840,000	14	5.2	0.50	
26		7:00	0	31-36	Supplemental	420,000	7	5.2	0.25	
	7:00	22:00		37-42	Supplemental	900,000	15	5.2	0.53	
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
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							
4			0							
5			0							
6			0							
7	7:00		0	1-7	Supplemental	450,127	17	6.5	0.21	
8		5:00	0	1-7	Supplemental	110,874	5	6.5	0.05	
	5:00			8-14	Supplemental	421,322	19	6.5	0.20	
9		6:00	0	8-14	Supplemental	129,282	6	6.5	0.06	
	6:00			15-21	Supplemental	387,845	18	6.5	0.18	
10		7:00	0.01	15-21	Supplemental	172,967	7	6.5	0.08	
	7:00			22-28	Supplemental	420,063	17	6.5	0.20	
11		10:00	0	22-28	Supplemental	333,333	10	6.5	0.16	
	10:00			29-35	Supplemental	466,667	14	6.5	0.22	
12		12:00	0	29-35	Supplemental	379,203	12	6.5	0.18	
	12:00			36-42	Supplemental	379,203	12	6.5	0.18	
13		9:00	0	36-42	Supplemental	324,499	9	6.5	0.15	
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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 MS18b

(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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	6.97
Total Nitrogen Demand (lb/ac)	325
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
11			0							
12			0							
13	9:00		0	1-6	Supplemental	457,627	15	5.5	0.26	
14		7:00	0	1-6	Supplemental	217,925	7	5.5	0.12	
	7:00			7-12	Supplemental	529,245	17	5.5	0.30	
15		6:00	0	7-12	Supplemental	186,792	6	5.5	0.10	
	6:00			13-18	Supplemental	560,377	18	5.5	0.31	
16		2:00	0	13-18	Supplemental	42,444	2	5.5	0.02	
	2:00			19-24	Supplemental	466,881	22	5.5	0.26	
17		6:00	0	19-24	Supplemental	117,102	6	5.5	0.07	
	6:00			25-30	Supplemental	351,306	18	5.5	0.20	
18		13:00	0	25-30	Supplemental	244,735	13	5.5	0.14	
	13:00			31-36	Supplemental	207,083	11	5.5	0.12	
19		16:00	0	31-36	Supplemental	308,772	16	5.5	0.17	
	16:00			37-43	Supplemental	179,649	8	6.4	0.09	
20		11:00	0	37-43	Supplemental	257,561	11	6.4	0.12	
21			0							
22			0							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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 MS20a

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	34
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	Oats
Crop ET (Inches)	0.22
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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 MS20b

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

Field Irrigation Information

Area (acres)	32.3
Number of Checks	35
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	Oats
Crop ET (Inches)	0.22
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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 MS21

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

Field Irrigation Information

Area (acres)	25.9
Number of Checks	50
Check Width (feet)	30
Check Length (feet)**	750
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	0.22
Total Nitrogen Demand (lb/ac)	115
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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 MS24a

(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	N/A
Crop ET (Inches)	N/A
Total Nitrogen Demand (lb/ac)	N/A
Anticipated Planting Date	
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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 MS24b

(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	N/A
Crop ET (Inches)	N/A
Total Nitrogen Demand (lb/ac)	N/A
Anticipated Planting Date	
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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 MS24c

(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	N/A
Crop ET (Inches)	N/A
Total Nitrogen Demand (lb/ac)	N/A
Anticipated Planting Date	
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
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			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
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 MS24d

(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	N/A
Crop ET (Inches)	N/A
Total Nitrogen Demand (lb/ac)	N/A
Anticipated Planting Date	
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0.01							
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			0.01							

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

[2]See 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

[3]See 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 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)	8.13
Total Nitrogen Demand (lb/ac)	325
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	
	12:00			22-45	Washwater	142,971	12	17.6	0.02	
8		13:00	0	22-45	Washwater	207,254	13	17.6	0.04	
	13:00			46-58	Washwater	116,912	11	11.7	0.03	
9		14:00	0	46-58	Washwater	147,869	14	11.7	0.0	
10			0							
11			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
	19:00			30-58	Washwater	64,724	5	23.44	0.01	3
19			0	30-58	Washwater	280,641	24	23.44	0.04	3
20		22:00	0	30-58	Washwater	267,702	22	23.44	0.04	3
	22:00			1-58	Washwater	42,672	2	41.1	0.00	13
21			0	1-58	Washwater	291,672	24	41.1	0.02	13
22			0	1-58	Washwater	219,732	24	41.1	0.02	13
23			0	1-58	Washwater	235,510	24	41.1	0.02	13
24		2:00	0	1-58	Washwater	22,185	2	41.1	0.00	13
	2:00			30-58	Washwater	139,180	22	23.44	0.02	13
25			0	30-58	Washwater	198,404	24	23.44	0.03	13
26			0	30-58	Washwater	189,754	24	23.44	0.02	13
27			0	30-58	Washwater	296,118	24	23.44	0.04	13
28		6:00	0	30-58	Washwater	105,324	6	23	0.0	13
29			0							
30			0							
31			0							
Total			0.03							

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

[2]**See 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

[3]**See 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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
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

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	
	12:00			25-53	Washwater	187,863	12	23.1	0.02	
8			0	25-53	Washwater	502,763	24	23.1	0.07	
9		14:00	0	25-53	Washwater	291,448	14	23.1	0.04	
10			0							
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
	20:00			25-53	Washwater	51,028	4	23.1	0.01	7
19			0	25-53	Washwater	276,571	24	23.1	0.0	7
20		22:00	0	25-53	Washwater	263,819	22	23.1	0.04	7
	22:00			1-53	Washwater	42,672	2	41.1	0.00	39
21			0	1-53	Washwater	291,672	24	41.1	0.02	39
22			0	1-53	Washwater	219,732	24	41.1	0.02	39
23			0	1-53	Washwater	235,510	24	41.1	0.02	39
24		2:00	0	1-53	Washwater	22,185	2	41.1	0.00	39
	2:00			25-53	Washwater	137,161	22	23.1	0.02	39
25			0	25-53	Washwater	195,526	24	23.1	0.03	39
26			0	25-53	Washwater	187,002	24	23.1	0.02	39
27			0	25-53	Washwater	291,823	24	23.1	0.04	39
28		6:00	0	25-53	Washwater	103,797	6	23.1	0.0	39
29			0							
30			0							
31			0							
Total			0.03							

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

[2]See 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

[3]See 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)	8.13
Total Nitrogen Demand (lb/ac)	325
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							

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

[2]See 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

[3]See 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)	9.19
Total Nitrogen Demand (lb/ac)	110
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							

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

[2]See 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

[3]See 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)	8.13
Total Nitrogen Demand (lb/ac)	325
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							

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

[2]**See 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

[3]**See 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

Crop Information

Crop Name	Grass Hay
Crop ET (Inches)	7.87
Total Nitrogen Demand (lb/ac)	240
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

**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	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							

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

[2]See 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

[3]See 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)	8.13
Total Nitrogen Demand (lb/ac)	325
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							

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

[2]**See 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

[3]**See 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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
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

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							

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

[2]**See 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

[3]**See 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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
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	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			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			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			19-30	Washwater	26,743	7	11.2	0.01	3
17			0	19-30	Washwater	197,636	24	11.2	0.05	3
18		19:00	0	19-30	Washwater	117,520	19	11.2	0.03	3
	19:00			31-42	Washwater	30,926	5	11.2	0.01	4
19			0	31-42	Washwater	134,095	24.0	11.2	0.0	4
20		21:00	0	31-42	Washwater	122,098	21	11.2	0.03	4
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							

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

[2]**See 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

[3]**See 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 MS18b

(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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	8.13
Total Nitrogen Demand (lb/ac)	325
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							

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

[2]See 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

[3]See 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)	8.13
Total Nitrogen Demand (lb/ac)	325
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							

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

[2]**See 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

[3]**See MRP footnote 5**

MONTHLY MONITORING REPORT

MONTH	August
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)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/15/15
Actual Planting Date	5/20/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	6-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2 tons/acre

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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12			0							
13			0							
14	1200		0	1-16	Washwater	100,759	12	11.4	0.03	8
15			0	1-16	Washwater	61,598	24	11.4	0.02	8
16		1400	0	1-16	Washwater	28,982	14	11.4	0.01	8
	1400			17-40	Washwater	30,943	10	17.04	0.01	8
17			0	17-40	Washwater	112,228	24	17.04	0.02	8
18		1600	0	17-40	Washwater	85,998	16	17.04	0.02	8
	1600			25-58	Washwater	59,048	8	23.4	0.01	8
19			0	25-58	Washwater	748,691	24	23.4	0.10	8
20			0	25-58	Washwater	1,141,586	24	23.4	0.15	8
21		0600	0	25-58	Washwater	204,024	6	23.4	0.03	8
22			0							
23			0							
24			0							
25			0							
26	0600		0	1-16	Washwater	65,241	18	11.4	0.02	24
27		0800	0	1-16	Washwater	36,950	8	11.4	0.01	24
	0800			17-40	Washwater	110,461	16	17.04	0.02	20
28		1300	0	17-40	Washwater	338,118	13	17	0.1	20
	1300			41-58	Washwater	211,720	11	13	0.1	109
29		2000	0	41-58	Washwater	251,710	20	13	0.1	109
30			0							
31			0.02							
Total			0.02							

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

[2]See 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]	48

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/15/15
Actual Planting Date	5/20/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	6-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2 tons/acre

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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12			0							
13			0							
14			0							
15	1200		0	1-16	Washwater	37,553	12	13.9	0.01	4
16			0	1-16	Washwater	60,578	24	13.9	0.01	4
17		1400	0	1-16	Washwater	53,402	14	13.9	0.01	4
	1400			17-38	Washwater	45,554	10	16.6	0.01	4
18			0	17-38	Washwater	125,666	24	16.6	0.02	4
19		1600	0	17-38	Washwater	354,082	16	16.6	0.1	4
	1600			39-53	Washwater	115,610	8	10.8	0.0	8
20			0	39-53	Washwater	528,837	24	10.8	0.15	8
21			0	39-53	Washwater	378,054	24	10.8	0.11	8
22		0600	0	39-53	Washwater	260,361	6	10.8	0.07	8
23			0							
24			0							
25			0							
26	0200		0	1-16	Washwater	97,226	22	13.9	0.02	17
27		0300	0	1-16	Washwater	16,895	3	13.9	0.00	17
	0300			17-31	Washwater	91,888	21	10.8	0.03	50
28		0500	0	17-31	Washwater	82,423	5	10.8	0.0	50
29	0500		0	32-53	Washwater	309,098	19	16	0.1	153
30		1200	0	32-53	Washwater	86,639	12	16	0.0	153
31	0400	0:00	0.02	1-16	Washwater	130,427	20	14	0.0	19
Total			0.02							

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

[2]See 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]	37

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
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)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/16/15
Actual Planting Date	5/21/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	24-Jul
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	1.8 tons/acre

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	0:00		0	1-17	Washwater	8,721	1	12.3	0.00	4
2			0	1-17	Washwater	196,764	24	12.3	0.05	4
3		0100	0	1-17	Washwater	9,277	1	12.3	0.0	4
	0100			18-34	Washwater	213,377	23	12.3	0.1	9
4			0	18-34	Washwater	180,563	24	12.3	0.0	9
5			0	18-34	Washwater	201,739	24	12.3	0.1	9
6		0400	0	18-34	Washwater	30,192	4	12.3	0.0	9
7			0							
8			0							
9			0							
10	0600		0	1-17	Washwater	392,506	18	12.3	0.1	19
11			0	1-17	Washwater	413,347	24	12.3	0.10	19
12		1500	0	1-17	Washwater	52,912	15	12.3	0.01	19
	1500			18-34	Washwater	31,747	9	12.3	0.01	100
13			0	18-34	Washwater	172,178	24	12.3	0.04	100
14		2100	0	18-34	Washwater	190,248	21	12.3	0.05	100
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0							
23	2300		0	1-17	Washwater	19,857	1	12.3	0.00	94
24			0	1-17	Washwater	74,171	24	12.3	0.02	94
25		0200	0	1-17	Washwater	3,447	2	12.3	0.00	94
	0200			18-34	Washwater	37,920	22	12.3	0.01	40
26			0	18-34	Washwater	93,856	24	12.3	0.02	40
27		0500	0	18-34	Washwater	24,917	5	12.3	0.01	40
28	0800		0	1-17	Washwater	300,386	16	12.3	0.07	22
29		1400	0	1-17	Washwater	171,865	14	12.3	0.04	22
	1400			18-34	Washwater	122,761	10	12.3	0.03	30
30		2100	0	18-34	Washwater	114,411	21	12.3	0.03	30
31			0.02							
Total			0.02							

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

[2]See 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]	68

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
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

Crop Information

Crop Name	Rice
Crop ET (Inches)	8.22
Total Nitrogen Demand (lb/ac)	110
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

**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		0	1-29	Washwater	364,137	24	21.4	0.1	
2			0	1-29	Washwater	342,337	24	21.4	0.0	
3			0	1-29	Washwater	387,383	24	21.4	0.1	
4		2300	0	1-29	Washwater	301,060	23	21.4	0.0	
5			0							
6			0							
7	600		0	1-29	Washwater	249,629	18	21.4	0.0	134
8			0	1-29	Washwater	492,992	24	21.4	0.1	134
9			0	1-29	Washwater	570,765	24	21.4	0.1	134
10			0	1-29	Washwater	910,529	24	21.4	0.1	134
11			0	1-29	Washwater	719,157	24	21.4	0.1	134
12			0	1-29	Washwater	147,294	24	21.4	0.0	134
13			0	1-29	Washwater	299,561	24	21.4	0.0	134
14		1200	0	1-29	Washwater	189,143	12	21.4	0.0	134
15			0							
16			0							
17			0							
18			0							
19			0							
20			0							
21			0							
22	600		0	1-29	Washwater	1,541,992	18	21.4	0.2	195
23			0	1-29	Washwater	829,157	24	21.4	0.1	195
24			0	1-29	Washwater	129,046	24	21.4	0.0	195
25			0	1-29	Washwater	71,972	24	21.4	0.0	195
26		0600	0	1-29	Washwater	40,824	6	21.4	0.0	195
27			0							
28			0							
29			0							
30			0							
31			0.02							
Total			0.02							

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

[2]See 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]	195

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
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)	5.51
Total Nitrogen Demand (lb/ac)	325
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	16-32	Washwater	302,880	24	17.8	0.1	16
2			0	16-32	Washwater	284,748	24	17.8	0.0	16
3		1500	0	16-32	Washwater	201,385	15	17.8	0.0	16
	1500			1-32	Washwater	241,662	9	35.6	0.0	16
4			0	1-32	Washwater	522,604	24	35.6	0.0	16
5			0	1-32	Washwater	583,895	24	35.6	0.1	16
6		1800	0	1-32	Washwater	393,232	18	35.6	0.0	16
	1800			1-15	Washwater	65,539	6	17.8	0.0	16
7			0	1-15	Washwater	276,847	24	17.8	0.0	16
8		2000	0	1-15	Washwater	341,716	20	17.8	0.1	16
	2000			16-32	Washwater	68,343	4	17.8	0.0	199
9		2100	0	16-32	Washwater	415,405	21	17.8	0.1	199
10			0							
11			0							
12			0							
13			0							
14	0900		0	1-32	Washwater	393,312	15	35.6	0.0	146
15			0	1-32	Washwater	192,359	24	35.6	0.0	146
16			0	1-32	Washwater	155,150	24	35.6	0.0	146
17		1200	0	1-32	Washwater	117,233	12	35.6	0.0	146
18			0							
19			0							
20			0							
21			0							
22			0							
23			0							
24			0							
25			0							
26			0							
27			0							
28			0							
29	1300		0	1-32	Washwater	390,838	11	35.6	0.0	23
30			0	1-32	Washwater	378,447	24	35.6	0.0	23
31		0600	0.02	1-32	Washwater	100,213	6	35.6	0.0	23
Total			0.02							

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

[2]See 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]	84

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
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)	6.67
Total Nitrogen Demand (lb/ac)	240
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	2.6 tons/acre

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	1-32	Washwater	440,707	24	26	0.1	15
2		0900	0	1-32	Washwater	155,372	9	25.9	0.02	15
	0900			33-55	Washwater	185,966	15	18.6	0.03	23
3			0	33-55	Washwater	336,697	24	18.6	0.06	23
4			0	33-55	Washwater	273,046	24	18.6	0.05	23
5		1200	0	33-55	Washwater	152,534	12	18.6	0.03	23
	1200			1-55	Washwater	364,935	12	44.5	0.03	95
6			0	1-55	Washwater	655,387	24	44.5	0.05	95
7			0	1-55	Washwater	692,116	24	44.5	0.05	95
8		0300	0	1-55	Washwater	128,143	3	44.5	0.01	95
9			0							
10			0							
11			0							
12			0							
13			0							
14	0600		0	1-32	Washwater	343,375	18	25.9	0.04	90
15		1800	0	1-32	Washwater	104,960	18	25.9	0.01	90
	1800			33-55	Washwater	25,126	6	18.6	0.00	90
16			0	33-55	Washwater	81,061	24	18.6	0.01	90
17		0600	0	33-55	Washwater	30,625	6	18.6	0.01	90
18			0							
19			0							
20			0							
21			0							
22			0							
23			0							
24			0							
25			0							
26			0							
27			0							
27			0							
28			0							
28			0							
29			0							
30			0							
31			0.02							
Total			0.02							

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

[2]See 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]	49

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
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)	5.51
Total Nitrogen Demand (lb/ac)	325
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	0.5 tons/acre

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	0:00		0	20-40	Washwater	228,011	24	13.4	0.05	
2			0	20-40	Washwater	214,361	24	13.4	0.05	
3		0900	0	20-40	Washwater	90,963	9	13.4	0.02	
4			0							
5			0							
6	0100		0	1-19	Washwater	189,129	23	13.4	0.0	50
7			0	1-19	Washwater	208,413	24	13.4	0.0	50
8		0300	0	1-19	Washwater	38,587	3	13.4	0.0	50
	0300			20-40	Washwater	270,109	21	13.4	0.1	64
9			0	20-40	Washwater	357,395	24	13.4	0.1	64
10		0500	0	20-40	Washwater	118,780	5	13.4	0.0	64
11			0							
12			0							
13			0							
14			0							
15	0600		0	1-19	Washwater	54,304	18	13.4	0.01	71
16			0	1-19	Washwater	58,399	24	13.4	0.01	71
17		0800	0	1-19	Washwater	29,418	8	13.4	0.01	71
	0800			20-40	Washwater	58,836	16	13.4	0.01	108
18			0	20-40	Washwater	101,441	24	13.4	0.02	108
19		1000	0	20-40	Washwater	178,641	10	13.4	0.04	108
20			0							
21			0							
22			0							
23	0800		0	1-19	Washwater	346,128	16	13.4	0.08	23
24		1300	0	1-19	Washwater	43,769	13	13.4	0.01	23
	1300			20-40	Washwater	37,035	11	13.4	0.01	51
25			0	20-40	Washwater	45,067	24	13.4	0.01	51
26		0200	0	20-40	Washwater	8,521	2	13.4	0.00	51
27			0							
28			0							
29			0							
30			0							
31			0.02							
Total			0.02							

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

[2]See 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]	55

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/18/15
Actual Planting Date	5/23/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	26-Aug
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		0	1-21	Washwater	313,089	24	18.4	0.1	49
2		0200	0	1-21	Washwater	24,529	2	18.4	0.0	49
	0200			22-42	Washwater	269,817	22	18.4	0.0	18
3			0	22-42	Washwater	333,077	24	18.4	0.1	18
4		0400	0	22-42	Washwater	45,018	4	18.4	0.0	18
	0400			1-42	Washwater	448,960	20	36.7	0.0	60
5			0	1-42	Washwater	601,937	24	36.7	0.1	60
6			0	1-42	Washwater	540,510	24	36.7	0.0	60
7		0700	0	1-42	Washwater	166,484	7	36.7	0.0	60
8			0							
9			0							
10			0							
11	0600		0	1-21	Washwater	463,755	18	18.4	0.1	134
12			0	1-21	Washwater	126,645	24	18.4	0.02	134
13		0800	0	1-21	Washwater	85,855	8	18.4	0.01	134
	0800			22-42	Washwater	171,711	16	18.4	0.03	104
14			0	22-42	Washwater	325,256	24	18.4	0.05	104
15		1000	0	22-42	Washwater	41,426	10	18.4	0.01	104
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			0.02							
Total			0.02							

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

[2]See 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]	59

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/18/15
Actual Planting Date	5/25/15
Anticipated Harvest Date	7/20, 9/20
Actual Harvest Date	28-Jul
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.4 tons/acre

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							
4			0							
5			0							
6			0							
7	0600		0	1-24	Washwater	260,127	18	22.3	0.04	10
8			0	1-24	Washwater	513,725	24	22.3	0.07	10
9		0800	0	1-24	Washwater	198,256	8	22.3	0.03	10
	0800			25-42	Washwater	298,718	16	16.8	0.05	6
10			0	25-42	Washwater	595,673	20	16.8	0.11	6
11		1000	0	25-42	Washwater	235,238	10	16.8	0.04	6
12			0							
13			0							
14	0600		0	1-24	Washwater	295,647	18	22.3	0.04	122
15			0	1-24	Washwater	120,495	24	22.3	0.02	122
16		0800	0	1-24	Washwater	32,396	8	22.3	0.00	122
	0800			25-42	Washwater	48,811	16	16.8	0.01	147
17			0	25-42	Washwater	110,647	24	16.8	0.02	147
18		1000	0	25-42	Washwater	52,992	10	16.8	0.01	147
19			0							
20			0							
21			0							
22			0							
23	0800		0	1-24	Washwater	576,018	16	22.3	0.08	39
24		1200	0	1-24	Washwater	67,237	12	22.3	0.01	39
	1200			25-42	Washwater	50,654	12	16.8	0.01	22
25		2100	0	25-42	Washwater	49,439	21	16.8	0.01	22
26			0							
27			0							
28	0200		0	1-24	Washwater	748,829	22	22	0.1	82
29		1500	0	1-24	Washwater	333,849	15	22	0.0	82
	1500			25-42	Washwater	150,906	9	17	0.0	14
30		2000	0	25-42	Washwater	148,828	20	17	0.0	14
31			0.02							
Total			0.02							

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

[2]See 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]	69

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
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 MS18b

(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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/18/15
Actual Planting Date	5/25/15
Anticipated Harvest Date	7/20, 9/20
Actual Harvest Date	4-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.4 tons/acre

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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12			0							
13			0							
14	0600		0	1-24	Washwater	295,647	18	22.3	0.04	4
15			0	1-24	Washwater	120,495	24	22.3	0.02	4
16			0	1-24	Washwater	97,187	24	22.3	0.01	4
17		0800	0	1-24	Washwater	48,957	8	22.3	0.01	4
	0800			25-43	Washwater	73,765	16	16.8	0.01	2
18			0	25-43	Washwater	127,180	24	16.8	0.02	2
19			0	25-43	Washwater	537,522	24	16.8	0.10	2
20		1000	0	25-43	Washwater	341,500	10	16.8	0.06	2
21			0							
22			0							
23			0							
24			0							
25	2100		0	1-24	Washwater	65,624	21	22.3	0.01	40
26		1900	0	1-24	Washwater	134,712	19	22.3	0.02	40
	1900			25-43	Washwater	26,707	5	16.8	0.00	91
27			0	25-43	Washwater	163,357	24	16.8	0.03	91
28		0100	0	25-43	Washwater	25,643	1	17	0.0	91
29			0							
30	2000		0	1-24	Washwater	39,510	4	22	0.0	25
31		2100	0.02	1-24	Washwater	219,708	21	22	0.0	25
	2100	12:00 AM		25-43	Washwater	23,646	3	17	0.0	30
Total			0.02							

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

[2]See 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]	33

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	August
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)	135
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)	5.51
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	8/1/15
Actual Planting Date	14-Aug
Anticipated Harvest Date	15-Oct
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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12	0		0	All	Washwater	1,368,000	24	135	0.03	
13		2400	0	All	Washwater	1,368,000	24	135	0.03	
14			0							
15	0		0	All	Washwater	1,368,000	24	135	0.03	118
16			0	All	Washwater	1,368,000	24	135	0.03	118
17			0	All	Washwater	1,368,000	24	135	0.03	118
18		2400	0	All	Washwater	1,368,000	24	135	0.03	118
19			0							
20			0							
21	0	2400	0	All	Washwater	1,368,000	24	135	0.03	118
22			0							
23			0							
24	0		0	All	Washwater	1,368,000	24	135	0.03	48
25			0	All	Washwater	1,368,000	24	135	0.03	48
26			0	All	Washwater	1,368,000	24	135	0.03	48
27		2400	0	All	Washwater	1,368,000	24	135	0.03	48
28			0							
29			0							
30	600		0	All	Washwater	1,026,000	18	135	0.02	78
31		2400	0.02	All	Washwater	1,368,000	24	135	0.03	78
Total			0.02							

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

[2]See 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]	71

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/15/15
Actual Planting Date	5/20/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	6-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2 tons/acre

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 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							
4			0							
5			0							
6	1900		0	17-40	Washwater	128,602	5	17.0	0.02	31
7			0	17-40	Washwater	311,915	24	17.0	0.06	31
8		2200	0	17-40	Washwater	208,205	22	17.0	0.04	31
	2200			41-58	Washwater	13,996	2	12.6	0.00	47
9			0	41-58	Washwater	235,591	24	12.6	0.1	47
10			0	41-58	Washwater	216,823	24	12.6	0.1	47
11		1300	0	41-58	Washwater	241,095	13	12.6	0.0	47
12	1300		0	1-16	Washwater	54,897	11	11.4	0.0	7
13			0	1-16	Washwater	196,197	24	11.4	0.1	7
14		1000	0	1-16	Washwater	46,798	10	11.4	0.01	7
	1000			17-40	Washwater	97,932	14	17.04	0.02	53
15			0	17-40	Washwater	86,339	24	17.04	0.02	53
16		0600	0.01	17-40	Washwater	47,798	6	17.04	0.01	53
	0600			41-58	Washwater	106,032	18	12.6	0.03	127
17		2300	0	41-58	Washwater	147,626	23	12.6	0.04	127
18			0							
19			0							
20			0							
21			0							
22	1000		0	1-16	Washwater	45,925	14	11.4	0.01	
23			0	1-16	Washwater	147,981	24	11.4	0.04	
24		0730	0	1-16	Washwater	25,380	7.5	11.4	0.01	
	0730			17-40	Washwater	83,459	16.5	17.04	0.02	25
25		2300	0	17-40	Washwater	114,907	23	17.04	0.02	25
	2300			41-58	Washwater	3,694	1	12.6	0.00	44
26			0	41-58	Washwater	171,452	24	12.6	0.04	44
27		0700	0	41-58	Washwater	27,352	7	12.6	0.01	44
28			0							
29	0700		0	1-16	Washwater	93,896	17	11	0.0	54
30		0800	0	1-16	Washwater	13,414	8	11	0.0	54
	0800	0:00		17-40	Washwater	40,101	16	17	0.0	37
31			0							
Total			0.01							

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

[2]See 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]	45

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/15/15
Actual Planting Date	5/20/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	6-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2 tons/acre

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							
4			0							
5			0							
6	1800		0	17-32	Washwater	125,885	6	13.9	0.03	19
7			0	17-32	Washwater	254,438	24	13.9	0.06	19
8		1500	0	17-32	Washwater	115,799	15	13.9	0.03	19
	1500			33-53	Washwater	66,480	9	13.3	0.02	29
9			0	33-53	Washwater	248,679	24	13.3	0.06	29
10		2000	0	33-53	Washwater	190,724	20	13.3	0.04	29
11			0							
12	1600		0	1-16	Washwater	48,681	8	13.9	0.01	9
13		0900	0	1-16	Washwater	89,709	9	13.9	0.02	9
	0900			17-32	Washwater	149,515	15	13.9	0.03	57
14			0	17-32	Washwater	136,947	24	13.9	0.03	57
15		0300	0	17-32	Washwater	8,804	3	13.9	0.00	57
	0300			33-53	Washwater	58,966	21	13.3	0.01	61
16		2300	0.01	33-53	Washwater	143,012	23	13.3	0.03	61
17			0							
18			0							
19			0							
20	1000		0	33-53	Washwater	114,982	14	13.3	0.03	62
21			0	33-53	Washwater	132,194	24	13.3	0.03	62
22		0700	0	33-53	Washwater	26,789	7	13.3	0.01	62
	0800			1-16	Washwater	63,995	16	13.9	0.01	18
23			0	1-16	Washwater	280,433	24	13.9	0.04	18
24		1400	0	1-16	Washwater	57,765	14	13.9	0.01	18
	1400			17-32	Washwater	41,261	10	13.9	0.01	39
25		2100	0	17-32	Washwater	85,582	21	13.9	0.02	39
	2100			33-53	Washwater	11,698	3	13.3	0.00	31
26		1900	0	33-53	Washwater	143,273	19	13.3	0.03	31
27			0							
28	0800		0	1-16	Washwater	100,943	16	13.9	0.0	91
29		0600	0	1-16	Washwater	40,407	6	14	0.0	91
	0600			17-32	Washwater	121,221	18	14	0.0	35
30		0900	0	17-32	Washwater	18,400	9	14	0.0	35
	0900	0:00		33-53	Washwater	29,343	15	13	0.0	42
31			0							
Total			0.01							

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

[2]See 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]	45

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/16/15
Actual Planting Date	5/21/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	7/24, 9/20
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	3.1 tons/acre

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	1000		0	1-17	Washwater	187,658	14	12.3	0.05	74
3		1700	0	1-17	Washwater	112,529	17	12.3	0.0	74
4			0							
5			0							
6	0700		0	18-34	Washwater	315,617	17	12.3	0.1	28
7		2100	0	18-34	Washwater	197,006	21	12.3	0.0	28
	2100			1-17	Washwater	28,144	3	12.3	0.0	45
8		1900	0	1-17	Washwater	129,795	19	12.3	0.0	45
	1900			18-34	Washwater	34,157	5	12.3	0.0	155
9		1500	0	18-34	Washwater	143,738	15	12.3	0.0	155
10			0							
11			0							
12			0							
13			0							
14			0							
15			0							
16			0.01							
17			0							
18			0							
19			0							
20			0							
21			0							
22			0							
23			0							
24			0							
25			0							
26			0							
27	1400		0	1-17	Washwater	38,144	10	12.3	0.01	7
28			0	1-17	Washwater	133,986	24	12.3	0.03	7
29		0800	0	1-17	Washwater	47,675	8	12.3	0.01	7
	0800			18-34	Washwater	95,349	16	12.3	0.02	14
30		2100	0	18-34	Washwater	37,991	21	12.3	0.01	14
	2100	0:00		1-17	Washwater	5,427	3	12.3	0.00	113
31			0							
Total			0.01							

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

[2]See 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]	39

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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)	2.53
Total Nitrogen Demand (lb/ac)	110
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	1700		0	1-29	Washwater	80,616	7	21.4	0.0	89
4		0600	0	1-29	Washwater	113,318	6	21.4	0.0	89
5	600	2000	0	1-29	Washwater	225,478	14	21.4	0.1	89
6			0							
7			0							
8			0							
9			0							
10	700		0	1-29	Washwater	110,847	17	21.4	0.0	25
11			0	1-29	Washwater	135,630	24	21.4	0.0	25
12		1300	0	1-29	Washwater	121,789	13	21.4	0.0	25
13			0							
14			0							
15	600		0	1-29	Washwater	81,323	18	21.4	0.0	58
16		0800	0.01	1-29	Washwater	80,038	8	21.4	0.0	58
17			0							
18			0							
19	600		0	1-29	Washwater	101,902	18	21.4	0.0	38
20		1500	0	1-29	Washwater	198,223	15	21.4	0.0	38
21			0							
22	700		0	1-29	Washwater	104,683	17	21.4	0.0	91
23		1800	0	1-29	Washwater	108,342	18	21.4	0.0	91
24			0							
25	700		0	1-29	Washwater	106,662	17	21.4	0.0	65
26		0600	0	1-29	Washwater	72,799	6	21.4	0.0	65
27	600		0	1-29	Washwater	119,455	18	21.4	0.0	65
28		1800	0	1-29	Washwater	74,835	18	21.4	0.0	65
29			0							
30			0							
31			0							
Total			0.01							

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

[2]See 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]	54

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/17/15
Actual Planting Date	5/22/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	9-Sep
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	0.8

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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12			0							
13			0							
14			0							
15	1600		0	1-32	Washwater	60,127	8	35.6	0.0	17
16			0.01	1-32	Washwater	399,442	24	35.6	0.0	17
17		0600	0	1-32	Washwater	108,809	6	35.6	0.0	17
18			0							
19			0							
20			0							
21			0							
22	1500		0	1-32	Washwater	92,195	9	35.6	0.0	46
23			0	1-32	Washwater	462,117	24	35.6	0.0	46
24		1300	0	1-32	Washwater	137,377	13	35.6	0.0	46
25			0							
26	0500		0	1-32	Washwater	383,499	19	35.6	0.0	95
27		1800	0	1-32	Washwater	198,720	18	35.6	0.0	95
28	1600		0	1-32	Washwater	229,265	8	35.6	0.0	95
29		2000	0	1-32	Washwater	344,962	20	35.6	0.0	95
30	1200	2400	0	1-32	Washwater	62,834	12	35.6	0.0	95
31			0							
Total			0.01							

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

[2]See 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]	44

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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

Crop Information

Crop Name	Grass Hay
Crop ET (Inches)	5.33
Total Nitrogen Demand (lb/ac)	240
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	24-Aug
Expected Harvest Yield	2-2.5 tons/acre
Actual Harvest Yield	2.6 tons/acre

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	0500		0	33-55	Washwater	541,429	19	19	0.1	8
2			0	33-55	Washwater	486,471	24	18.6	0.08	8
3		0100	0	33-55	Washwater	10,010	1	18.6	0.00	8
	0100			1-32	Washwater	320,582	23	25.9	0.04	14
4			0	1-32	Washwater	847,101	24	25.9	0.10	14
5			0	1-32	Washwater	986,505	24	25.9	0.12	14
6		0900	0	1-32	Washwater	351,843	9	25.9	0.04	14
7			0							
8	1300		0	1-55	Washwater	271,864	11	44.5	0.02	216
9			0	1-55	Washwater	832,047	24	44.5	0.06	216
10		2000	0	1-55	Washwater	638,136	20	44.5	0.04	216
11			0							
12	2000		0	1-55	Washwater	77,924	4	44.5	0.01	198
13			0	1-55	Washwater	765,859	24	44.5	0.05	198
14			0	1-55	Washwater	438,427	24	44.5	0.03	198
15		2200	0	1-55	Washwater	206,686	22	44.5	0.01	198
16	2200		0.01	33-55	Washwater	17,391	2	18.6	0.00	198
17			0	33-55	Washwater	227,399	24	18.6	0.04	198
18		2000	0	33-55	Washwater	194,251	20	18.6	0.03	198
	2000			1-32	Washwater	54,098	4	25.9	0.01	113
19			0	1-32	Washwater	487,181	24	25.9	0.06	113
20		1500	0	1-32	Washwater	239,905	15	25.9	0.03	113
21			0							
22			0							
23	0900		0	1-55	Washwater	361,029	15	44.5	0.02	118
24			0	1-55	Washwater	317,024	24	44.5	0.02	118
25		2200	0	1-55	Washwater	287,032	22	44.5	0.02	118
26			0							
27	0600		0	1-55	Washwater	248,400	18	44.5	0.02	103
28		2000	0	1-55	Washwater	403,954	20	44.5	0.03	103
29	1400		0	1-55	Washwater	215,601	10	44.5	0.01	103
30		0:00	0	1-55	Washwater	157,084	24	44.5	0.01	103
31			0							
Total			0.01							

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

[2]See 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]	142

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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

Crop Information

Crop Name	Sudan
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/15/15
Actual Planting Date	5/23/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	7/20, 9/4
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	2.5 tons/acre

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							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10	1700		0	1-40	Washwater	284,009	7	26.7	0.0	5
11			0	1-40	Washwater	356,371	24	26.7	0.0	5
12			0	1-40	Washwater	280,527	24	26.7	0.0	5
13		1800	0	1-40	Washwater	344,636	18	26.7	0.0	5
14			0							
15	1900		0	1-40	Washwater	28,184	5	26.7	0.00	192
16		1800	0.01	1-40	Washwater	224,686	18	26.7	0.03	192
17			0							
18			0							
19	1200		0	1-40	Washwater	251,115	12	26.7	0.03	48
20			0	1-40	Washwater	395,705	24	26.7	0.05	48
21		1600	0	1-40	Washwater	176,922	16	26.7	0.02	48
22			0							
23	1700		0	1-40	Washwater	101,088	7	26.7	0.01	150
24			0	1-40	Washwater	190,214	24	26.7	0.02	150
25		2200	0	1-40	Washwater	172,219	22	26.7	0.02	150
26			0							
27	0900		0	1-40	Washwater	124,200	15	26.7	0.01	85
28			0	1-40	Washwater	290,847	24	26.7	0.03	85
29		2200	0	1-40	Washwater	284,594	22	26.7	0.03	85
30	0900	2400	0	1-19	Washwater	29,564	15	13.4	0.01	85
31			0							
Total			0.01							

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

[2]See 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]	84

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/18/15
Actual Planting Date	5/23/15
Anticipated Harvest Date	7/15, 9/15
Actual Harvest Date	26-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	3.2 tons/acre

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							
4			0							
5	1800		0	1-21	Washwater	175,209	6	18.4	0.0	26
6			0	1-21	Washwater	666,555	24	18.4	0.1	26
7		0700	0	1-21	Washwater	98,236	7	18.4	0.0	26
	0700			22-42	Washwater	238,573	17	18.4	0.0	20
8			0	22-42	Washwater	245,260	24	18.4	0.0	20
9			0	22-42	Washwater	344,037	24	18.4	0.1	20
10			0	22-42	Washwater	316,630	24	18.4	0.1	20
11		1500	0	22-42	Washwater	153,493	15	18.4	0.0	20
	1500			1-21	Washwater	92,096	9	18.4	0.0	95
12			0	1-21	Washwater	193,322	24	18.4	0.03	95
13		2000	0	1-21	Washwater	263,891	20	18.4	0.04	95
	2000			22-42	Washwater	52,778	4	18.4	0.01	131
14			0	22-42	Washwater	181,282	24	18.4	0.03	131
15		1400	0	22-42	Washwater	54,384	14	18.4	0.01	131
	1400			1-21	Washwater	38,846	10	18.4	0.01	151
16		1900	0.01	1-21	Washwater	163,442	19	18.4	0.03	151
17			0							
18			0							
19	1400		0	1-21	Washwater	344,211	10.0	18.4	0.02	54
20		0200	0	1-21	Washwater	22,725	2	18.4	0.00	54
	0200			22-42	Washwater	249,971	22	18.4	0.04	45
21			0	22-42	Washwater	182,886	24	18.4	0.03	45
22		2000	0	22-42	Washwater	105,892	20	18.4	0.02	45
23	1800		0	1-21	Washwater	59,712	6	18.4	0.01	97
24		2200	0	1-21	Washwater	120,160	22	18.4	0.02	97
	2200			22-42	Washwater	10,924	2	18.4	0.00	138
25			0	22-42	Washwater	129,472	24	18.4	0.02	138
26		1300	0	22-42	Washwater	135,619	13	18.4	0.02	138
27	1100		0	1-21	Washwater	74,179	13	18.4	0.01	46
28		0700	0	1-21	Washwater	58,460	7	18.4	0.01	46
	0700			22-42	Washwater	141,974	17	18.4	0.02	34
29		0900	0	22-42	Washwater	80,233	9	18.4	0.01	34
30			0							
31			0							
Total			0.01							

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

[2]See 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]	86

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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

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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/18/15
Actual Planting Date	5/25/15
Anticipated Harvest Date	7/20, 9/20
Actual Harvest Date	28-Jul
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.4 tons/acre

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	0900		0	1-24	Washwater	364,527	15	22	0.1	113
3		2300	0	1-24	Washwater	276,022	23	22.3	0.0	113
	2300			25-42	Washwater	9,041	1	16.8	0.0	34
4			0	25-42	Washwater	293,289	24	16.8	0.1	34
5		0700	0	25-42	Washwater	436,636	7	16.8	0.03	34
6			0							
7			0							
8			0							
9			0							
10			0							
11			0							
12			0							
13			0							
14			0							
15	1000		0	1-42	Washwater	115,567	14	39.1	0.01	25
16			0.01	1-42	Washwater	438,713	24	39.1	0.03	25
17			0	1-42	Washwater	478,027	24	39.1	0.04	25
18		0900	0	1-42	Washwater	183,755	9	39.1	0.01	25
19			0							
20			0							
21			0							
22	1300		0	1-24	Washwater	70,585	11	22.3	0.01	90
23			0	1-24	Washwater	289,472	24	22.3	0.04	90
24		0600	0	1-24	Washwater	39,717	6	22.3	0.01	90
	0600			25-42	Washwater	89,764	18	16.8	0.02	67
25		0500	0	25-42	Washwater	24,628	5	16.8	0.00	67
26			0							
27			0							
28	0900		0	1-24	Washwater	151,823	15	22	0.0	58
29		0800	0	1-24	Washwater	86,434	8	22	0.0	58
	0800			25-42	Washwater	130,233	16	17	0.0	26
30		1000	0	25-42	Washwater	24,710	10	17	0.0	26
31			0							
Total			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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 MS18b

(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

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	5/18/15
Actual Planting Date	5/25/15
Anticipated Harvest Date	7/20, 9/20
Actual Harvest Date	4-Aug
Expected Harvest Yield	3 tons/acre
Actual Harvest Yield	2.4 tons/acre

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		0	25-43	Washwater	617,725	24	17	0.1	30
2		0800	0	25-43	Washwater	146,464	8	17	0.0	30
3			0							
4			0							
5	0700		0	1-24	Washwater	601,647	17	22.3	0.1	66
6		2400	0	1-24	Washwater	807,835	24	22.3	0.11	66
	2400			25-43	Washwater	-	0	16.8	0.00	28
7			0	25-43	Washwater	307,522	24	16.8	0.06	28
8			0	25-43	Washwater	223,933	24	16.8	0.04	28
9		2000	0	25-43	Washwater	261,768	20	16.8	0.05	28
10			0							
11			0							
12			0							
13			0							
14			0							
15			0							
16			0.01							
17			0							
18	0900		0	1-43	Washwater	306,259	15	39.1	0.02	44
19			0	1-43	Washwater	735,474	24	39.1	0.06	44
20			0	1-43	Washwater	579,478	24	39.1	0.05	44
21			0	1-43	Washwater	388,632	24	39.1	0.03	44
22		1300	0	1-43	Washwater	146,263	13	39.1	0.01	44
23			0							
24			0							
25	0500		0	1-43	Washwater	217,810	19	39.1	0.02	154
26		2000	0	1-43	Washwater	443,371	20	39.1	0.03	154
27			0							
28			0							
29			0							
30	1000	12:00 AM	0	1-24	Washwater	45,919	14	22	0.0	64
31			0							
Total			0.01							

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

[2]See 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]	95

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	September
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)	135
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)	0.49
Total Nitrogen Demand (lb/ac)	325
Anticipated Planting Date	8/1/15
Actual Planting Date	14-Aug
Anticipated Harvest Date	15-Oct
Actual Harvest Date	5-Oct
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	800		0	NA	Washwater	912,000	16	135.0	0.02	51
4		1800	0	NA	Washwater	1,026,000	18	135.0	0.02	51
5			0							
6			0							
7	800		0	NA	Washwater	912,000	16	135.0	0.02	40
8		1600	0	NA	Washwater	912,000	16	135.0	0.02	40
9			0							
10			0							
11	800		0	NA	Washwater	912,000	16	135.0	0.02	38
12		1730	0	NA	Washwater	997,500	17.5	135	0.02	38
13			0							
14	800		0	NA	Washwater	912,000	16	135	0.02	96
15		1600	0	NA	Washwater	912,000	16	135	0.02	96
16			0.01							
17	900		0	NA	Washwater	855,000	15	135	0.02	91
18		1600	0	NA	Washwater	912,000	16	135	0.02	91
19			0							
20	1100		0	NA	Washwater	741,000	13	135	0.02	88
21		1600	0	NA	Washwater	912,000	16	135	0.02	88
22			0							
23			0							
24	1200		0	NA	Washwater	684,000	12	135	0.02	60
25		1100	0	NA	Washwater	627,000	11	135	0.01	60
26			0							
27			0							
28			0							
29			0							
30			0							
31			0							
Total			0.01							

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

[2]See 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

[3]See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH	June
YEAR	2015

DISCHARGER: **Morming 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	~~Gobel~~	MS 1	MS 2	MS 3	MS 5	MS 6	MS 11	MS 14	MS 15	MS 16	MS 18a	MS 18b	MS 20a	MS 20b	MS 21	MS 24a	MS 24b	MS 24c	MS 24d
Acres of LAA Irrigated																			
Total Nitrogen Loading from Wastewater (lbs/ac/month)																			
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)																9	9	9	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)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	9	9
Annual Crop Demand (lbs/ac/year)	***0***	***0***	***440***	***440***	***440***	***225***	***440***	***415***	***440***	***440***	***440***	***440***	***115***	***115***	***115***	***440***	***440***	***440***	***440***

MONTHLY MONITORING REPORT

MONTH	July
YEAR	2015

DISCHARGER:	**Morming 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	~~Gobel~~	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)													
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)		0	63	70	53	70	34	96	13	67	35	57	9
Annual Crop Demand (lbs/ac/year)	***0***	***0***	***440***	***440***	***440***	***225***	***440***	***415***	***440***	***440***	***440***	***440***	***440***

MONTHLY MONITORING REPORT

MONTH	August
YEAR	2015

DISCHARGER:	**Morming 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	~~Gobel~~	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)			48	37	68	195	84	49	55	59	69	33	240
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)													0.2
Total Nitrogen Loading Rate from Cooling Pond Solids (lbs/ac/month)													
Total Nitrogen Loading Rate from Residual Solids (lbs/ac/month)													19.4
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)		0	111	107	121	265	118	145	68	126	104	90	269
Annual Crop Demand (lbs/ac/year)	***0***	***0***	***440***	***440***	***440***	***225***	***440***	***415***	***440***	***440***	***440***	***440***	***440***

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2015

DISCHARGER:	**Morming 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	~~Gobel~~	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)			45	45	39	54	44	142	84	86	57	95	57
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)													1.9
Total Nitrogen Loading Rate from Cooling Pond Solids (lbs/ac/month)													
Total Nitrogen Loading Rate from Residual Solids (lbs/ac/month)													59.3
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)		0	156	152	160	319	162	287	152	212	161	185	386.85
Annual Crop Demand (lbs/ac/year)	***0***	***0***	***440***	***440***	***440***	***225***	***440***	***415***	***440***	***440***	***440***	***440***	***440***

Attachment C

IRRIGATION TRAINING AND RESEARCH CENTER, California Polytechnic State University, San Luis Obispo													
Table does not include adjustments for bare spots and reduced vigor													
	1997 (Typical Year)												
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
Grain and Grain Hay (Oat)	0.87	2.25	4.42	6.13	3.86	0.22	0.15	0.34	0.07	0.63	0.49	1.03	20.46
Rice	0.86	0.91	1.11	0.75	7.13	9.19	9.74	8.22	2.53	0.63	0.49	0.95	42.49
Corn and Grain Sorghum (Sudan)	0.86	0.91	2.15	1.39	2.57	6.97	8.13	5.51	0.49	0.63	0.49	0.95	31.04
Alfalfa Hay and Clover	0.86	2.25	4.23	5.16	6.68	7.02	7.19	5.97	4.91	2.15	0.87	1.17	48.46
Pasture and Misc. Grasses	0.86	1.43	2.84	4.61	7.25	7.53	7.87	6.67	5.33	3.07	0.8	0.95	49.2
Idle	0.87	0.9	1.11	0.22	0.22	0.21	0.15	0.34	0.07	0.63	0.5	0.96	6.18

Attachment D

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	September
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]
September	Pomace	4,639			915 tons of pomace	MS24, spread/incorp.
September	Wet Waste	9,788			915 tons of wet waste	MS24, spread/incorp.

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

[2]Volume 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.

[3]Volume 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.