Monitoring Report Submittal Transmittal Form

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

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

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

Check all that apply:

Monthly Monitoring Report for the month of SEPTEMBER

1st / 2nd / 3rd / 4th (**circle one**) Quarterly Monitoring Report for the year of_____

1st / 2nd (**circle one**) Semi-annual Monitoring Report for the year _____

Annual Monitoring Report for the year _____

Violation Notification

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

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

Certification Statement

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Signature: _____ Phone: (530)666-6600

Printed Name: ROSS OLIVEIRA Date: 10/30/14

THE MORNING STAR PACKING COMPANY
724 Main Street, Woodland CA 95695

15 October 2014

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

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

Dear Mr. Childs:

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

1. Tabulated pond monitoring data.

The tabulated pond monitoring results for September are included as **Attachment A**.

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

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

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

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

Source	Annual Flow	Flow Limit
Station 1: Settling Pond/Gutters	183,920,425	
Station 2: Cooling Pond	0	
Total Washwater Discharge	183,920,425	422,000,000

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

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

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

An updated 2014 site plan for the facility's LAA and individual field maps are provided in **Attachment D**.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The calibration log for September and calibration logs for the flow monitoring devices are included as **Attachment H**.

> *"I certify under penalty of law that this document and all attachments have been prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."*

Respectfully yours,

Ross Oliveira

Attachment A

MONTHLY MONITORING REPORT

MONTH	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

POND MONITORING RESULTS

Monitoring Location	Monitoring Week	Monitoring Date	Monitoring Time	Dissolved Oxygen[1] (mg/L)	pH	Freeboard (0.1 feet)	Odors[3]	Monthly Pond Berm/Leeve Condition[4]	Technican's Initials
Settling Pond	Week 1	9/1/14	11:50 AM	2.64	6.21	43 inches	Slight	Good	JY
	Week 2	9/8/14	11:20 AM	4.09	6.16	34.5 inches	Slight	Good	JY
	Week 3	9/15/14	11:04 AM	4.07	6.37	34.5 inches	Slight	Good	JY
	Week 4	9/22/14	2:40 PM	3.71	6.13	31.5 inches	Slight	Good	JY
	Week 5	9/29/14	2:35 PM	3.97	6.13	30 inches	Slight	Good	JY
Coolng Pond	Week 1	9/1/14	12:05 PM	1.47	7.49	34 inches	None	Good	JY
	Week 2	9/8/14	11:40 AM	1.68	7.68	32.5 inches	None	Good	JY
	Week 3	9/15/14	11:25 AM	3.34	7.41	31 inches	None	Good	JY
	Week 4	9/22/14	3:05 PM	6.91	8.20	31 inches	None	Good	JY
	Week 5	9/29/14	3:10 PM	5.16	7.25	31 inches	None	Good	JY

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

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

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

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

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

Attachment B

MONTHLY MONITORING REPORT

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

FLOW MONITORING RESULTS :

Monitoring Date (Day of Month)	Flow Source					
	Supplemental ~~GCID~~ Irrigation Water (gallons; calculated)	Station 1 - Settling Pond Water (gallons; meter)	Station 2 - Cooling Pond Water (gallons; meter)	Station 3 - Total Discharge to LAAs (gallons; meter)	Names of LAAs Irrigated	Station 3 - Total Discharge to LAAs (inches)
1		2,517,549		1,109,712	See Attached	
2		2,222,463		942,554		
3		1,808,554		830,311		
4		2,407,294		1,003,647		
5		2,348,042		1,099,091		
6		2,384,810		2,019,372		
7		2,309,178		2,496,674		
8		2,302,445		2,498,819		
9		2,225,205		2,018,849		
10		2,186,409		1,178,820		
11		2,243,454		1,193,311		
12		2,359,903		1,029,923		
13		2,527,012		1,037,577		
14		2,287,786		1,190,896		
15		2,292,895		839,187		
16		2,419,491		9,410		
17		2,469,460		1,738,883		
18		2,636,449		2,904,109		
19		2,620,782		2,917,670		
20		2,644,491		2,967,822		
21		2,584,747		2,919,160		
22		2,705,853		2,952,332		
23		2,720,010		2,899,571		
24		2,579,124		2,838,734		
25		2,833,978		2,709,339		
26		1,863,753		2,012,830		
27		2,113,725		2,314,267		
28		2,662,635		3,034,046		
29		2,651,719		2,994,843		
30		2,822,763		3,109,922		
Total Monthly Flow (MG)	0	72,751,982	0			0
Average Daily Flow (MGD)	#DIV/0!	2,425,066	#DIV/0!			#DIV/0!
Cumulative Annual Flow to Date (MG)	151,700,652	183,920,425	0			0

START DATE	MS FIELD ID #	CHECKS IRRIGATED
9/1/14	18A	13-26
9/1/14	18A	27-39
9/1/14	20A	1-18
9/1/14	24B	20-26
9/1/14	24D	20-26
9/2/14	18A	27-39
9/2/14	18B	1-19
9/2/14	20A	1-18
9/2/14	24B	20-26
9/2/14	24B	27-41
9/2/14	24D	20-26
9/2/14	24D	27-41
9/3/14	18A	40-42
9/3/14	18B	1-19
9/3/14	20A	1-18
9/3/14	24B	27-41
9/3/14	24B	27-41
9/3/14	24D	27-41
9/4/14	18A	40-42
9/4/14	18B	1-19
9/4/14	18B	20-42
9/4/14	20A	1-18
9/4/14	20A	19-35
9/4/14	20B	1-4
9/4/14	24B	27-41
9/4/14	24B	27-41
9/4/14	24D	27-41
9/5/14	18B	20-42
9/5/14	20A	19-35
9/5/14	20B	1-4
9/6/14	11	1-14
9/6/14	18B	20-42
9/6/14	20A	19-35
9/6/14	20B	1-4
9/6/14	20B	5-18
9/6/14	21	1-12
9/6/14	21	13-25
9/7/14	11	1-14
9/7/14	20B	5-18
9/7/14	21	13-25
9/8/14	11	1-14
9/8/14	11	15-21
9/8/14	20B	5-18
9/8/14	20B	19-27
9/8/14	21	13-25
9/8/14	21	26-38
9/9/14	11	15-21
9/9/14	20B	19-27
9/9/14	20B	28-35

START DATE	MS FIELD ID #	CHECKS IRRIGATED
9/9/14	21	26-38
9/10/14	6	1-10
9/10/14	11	15-21
9/10/14	11	22-33
9/10/14	15	1-14
9/10/14	20B	28-35
9/10/14	21	26-38
9/10/14	21	39-50
9/10/14	24A	1-28
9/10/14	24C	1-28
9/11/14	6	1-10
9/11/14	11	22-33
9/11/14	15	1-14
9/11/14	15	15-30
9/11/14	21	39-50
9/11/14	24A	1-28
9/11/14	24A	29-42
9/11/14	24C	1-28
9/11/14	24C	29-42
9/12/14	6	1-10
9/12/14	6	11-21
9/12/14	11	22-33
9/12/14	15	15-30
9/12/14	21	39-50
9/12/14	24A	29-42
9/12/14	24C	29-42
9/13/14	6	11-21
9/13/14	15	15-30
9/13/14	15	31-41
9/13/14	24A	29-42
9/13/14	24A	43-44
9/13/14	24B	1-12
9/13/14	24C	29-42
9/13/14	24C	43-44
9/13/14	24D	1-12
9/14/14	6	11-21
9/14/14	6	22-30
9/14/14	15	31-41
9/14/14	18A	1-12
9/14/14	24A	43-44
9/14/14	24B	1-12
9/14/14	24C	43-44
9/14/14	24D	1-12
9/15/14	6	22-30
9/15/14	15	31-41
9/15/14	18A	1-12
9/15/14	24A	43-44
9/15/14	24B	1-12
9/15/14	24B	13-26

START DATE	MS FIELD ID #	CHECKS IRRIGATED
9/15/14	24C	43-44
9/15/14	24D	1-12
9/15/14	24D	13-26
9/16/14	6	22-30
9/16/14	18A	1-12
9/16/14	18A	13-26
9/16/14	24B	13-26
9/16/14	24B	27-41
9/16/14	24D	13-26
9/16/14	24D	27-41
9/17/14	11	1-14
9/17/14	18A	13-26
9/17/14	18A	27-42
9/17/14	21	1-9
9/17/14	24B	27-41
9/17/14	24D	27-41
9/18/14	11	1-14
9/18/14	11	15-21
9/18/14	18A	27-42
9/18/14	18B	1-14
9/18/14	21	1-9
9/18/14	21	10-21
9/19/14	2	1-11
9/19/14	3	1-14
9/19/14	11	15-21
9/19/14	11	22-33
9/19/14	18B	1-14
9/19/14	18B	15-28
9/19/14	21	10-21
9/19/14	21	22-33
9/20/14	2	1-11
9/20/14	2	12-21
9/20/14	3	1-14
9/20/14	3	15-22
9/20/14	11	22-33
9/20/14	14	1-6
9/20/14	18B	15-28
9/20/14	18B	29-37
9/20/14	21	22-33
9/20/14	21	34-42
9/21/14	2	12-21
9/21/14	2	22-31
9/21/14	3	15-22
9/21/14	3	23-33
9/21/14	14	1-6
9/21/14	14	7-12
9/21/14	18B	29-37
9/21/14	18B	38-42
9/21/14	21	34-42

START DATE	MS FIELD ID #	CHECKS IRRIGATED
9/21/14	21	43-50
9/22/14	2	22-31
9/22/14	3	23-33
9/22/14	3	34-54
9/22/14	14	7-12
9/22/14	14	13-16
9/22/14	18B	38-42
9/22/14	21	43-50
9/23/14	2	47-59
9/23/14	3	34-54
9/23/14	5	1-6
9/23/14	14	13-16
9/23/14	14	17-19
9/23/14	16	1-5
9/24/14	2	47-59
9/24/14	5	1-6
9/24/14	5	7-13
9/24/14	6	1-6
9/24/14	14	17-19
9/24/14	14	20-22
9/24/14	15	1-7
9/24/14	16	1-5
9/24/14	16	6-10
9/25/14	5	7-13
9/25/14	5	14-17
9/25/14	6	1-6
9/25/14	6	7-12
9/25/14	14	20-22
9/25/14	14	23-24
9/25/14	15	1-7
9/25/14	15	8-14
9/25/14	16	6-10
9/25/14	16	11-15
9/26/14	5	14-17
9/26/14	5	18-22
9/26/14	6	7-12
9/26/14	6	13-18
9/26/14	14	23-24
9/26/14	15	8-14
9/26/14	15	15-21
9/26/14	16	11-15
9/26/14	16	16-20
9/27/14	5	18-22
9/27/14	5	23-27
9/27/14	6	13-18
9/27/14	6	19-24
9/27/14	15	15-21
9/27/14	15	22-28
9/27/14	16	16-20

START DATE	MS FIELD ID #	CHECKS IRRIGATED
9/27/14	16	21-25
9/28/14	5	23-27
9/28/14	5	28-32
9/28/14	6	19-24
9/28/14	6	25-30
9/28/14	15	22-28
9/28/14	15	29-35
9/28/14	16	21-25
9/28/14	16	26-29
9/28/14	18A	1-7
9/29/14	5	28-32
9/29/14	6	25-30
9/29/14	11	1-6
9/29/14	15	29-35
9/29/14	15	36-41
9/29/14	16	26-29
9/29/14	16	30-34
9/29/14	18A	1-7
9/29/14	18A	8-13
9/29/14	21	1-8
9/30/14	11	1-6
9/30/14	11	7-13
9/30/14	15	36-41
9/30/14	16	30-34
9/30/14	16	35-39
9/30/14	18A	8-13
9/30/14	18A	14-20
9/30/14	21	1-8
9/30/14	21	9-16

Attachment C

MONTHLY MONITORING REPORT

		DISCHARGER:	**Morning Star Packing Company, LP and Fred Gobel**
		FACILITY:	**Morning Star Tomato Packing Plant**
MONTH	September	**COUNTY:**	**Colusa**
YEAR	2014	**WDRs Order:**	**R5-2013-0144**

WASTEWATER MONITORING RESULTS : Washwater Discharge began on July 16th

Samples Collected from Station 1

Monitoring Week	Monitoring Date	BOD (mg/L)	3-Sample Average BOD (mg/L)[1]	Total Nitrogen (mg/L)	3-Sample Average Total Nitrogen (mg/L)[1]	FDS (mg/L)
Second to Last Week of Previous Month	8/18/14	672	670	28	45	360
Last Week of Previous Month	8/25/14	625	589	25	29	410
Week 1 of Current Month	9/4/14	469	589	26	26	340
Week 2 of Current Month	9/11/14	520	538	25	25	380
Week 3 of Current Month	9/18/14	734	574	34	28	450
Week 4 of Current Month	9/25/14	572	609	28.1	29	460
Week 5 of Current Month						

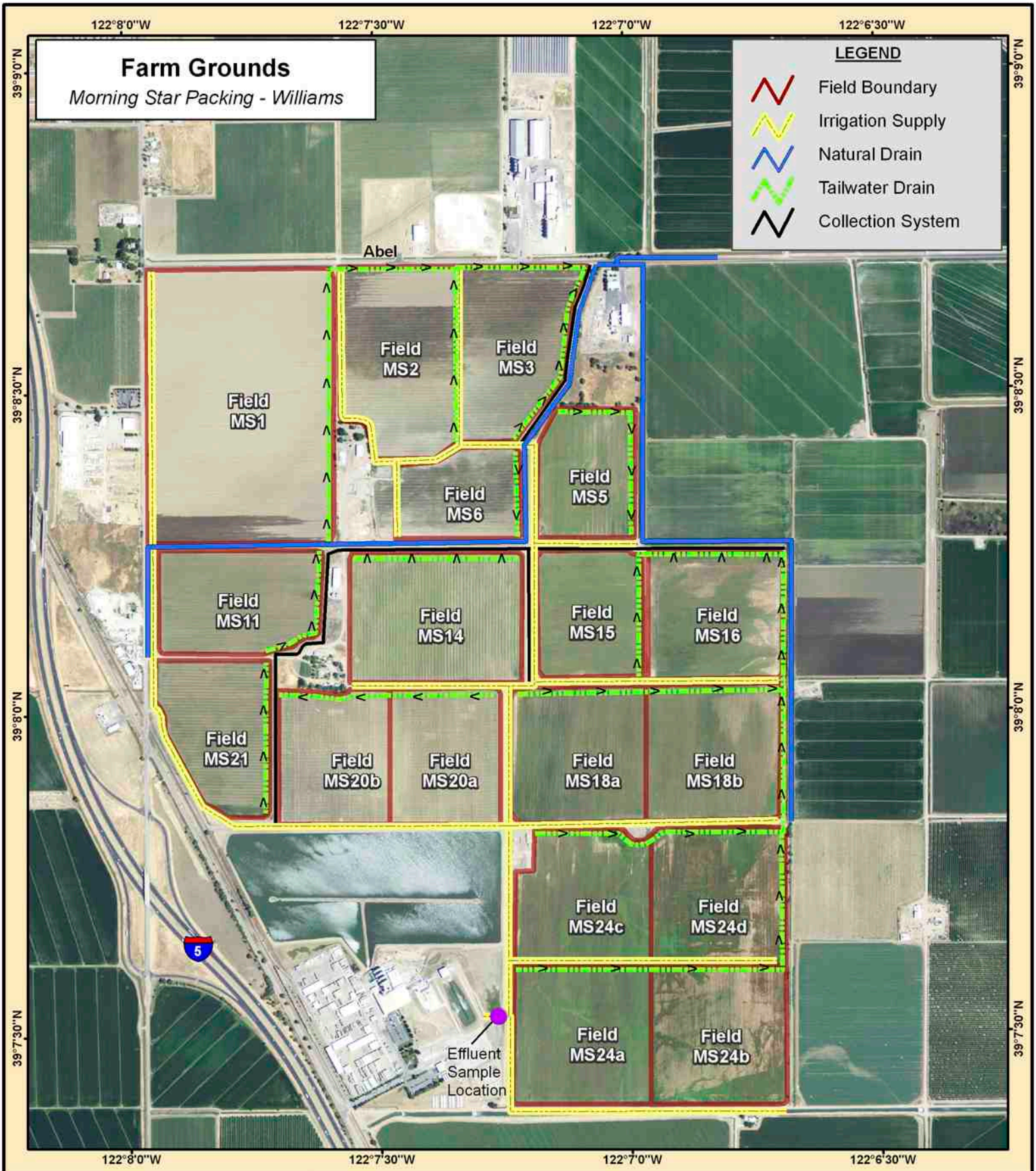
Sampling is not required during periods when no wastewater is discharged to the LAAs.

Average BOD Concentration (mg/L)[1]	**574**
Average Monthly Total Nitrogen Concentration (mg/L)[2]	**28**
Monthly Average FDS Concentration (mg/L)	**407.5**
Flow Weighted Average FDS Concentration to Date (mg/L)[3]	**526**

[1]See MRP Reporting Section A.4.

[2]Value to be used in annual loading calculation (WDR Section C.2.a).
[3]Calculated per WDR Section C.1.a (Show Calculations).

Attachment D



CUSTOM MAPPING SERVICES

Custom Mapping Services, L.L.C. does not guarantee the accuracy or content of the data used in this map. Map is intended for pictorial use only and is not to be used for legal purposes.

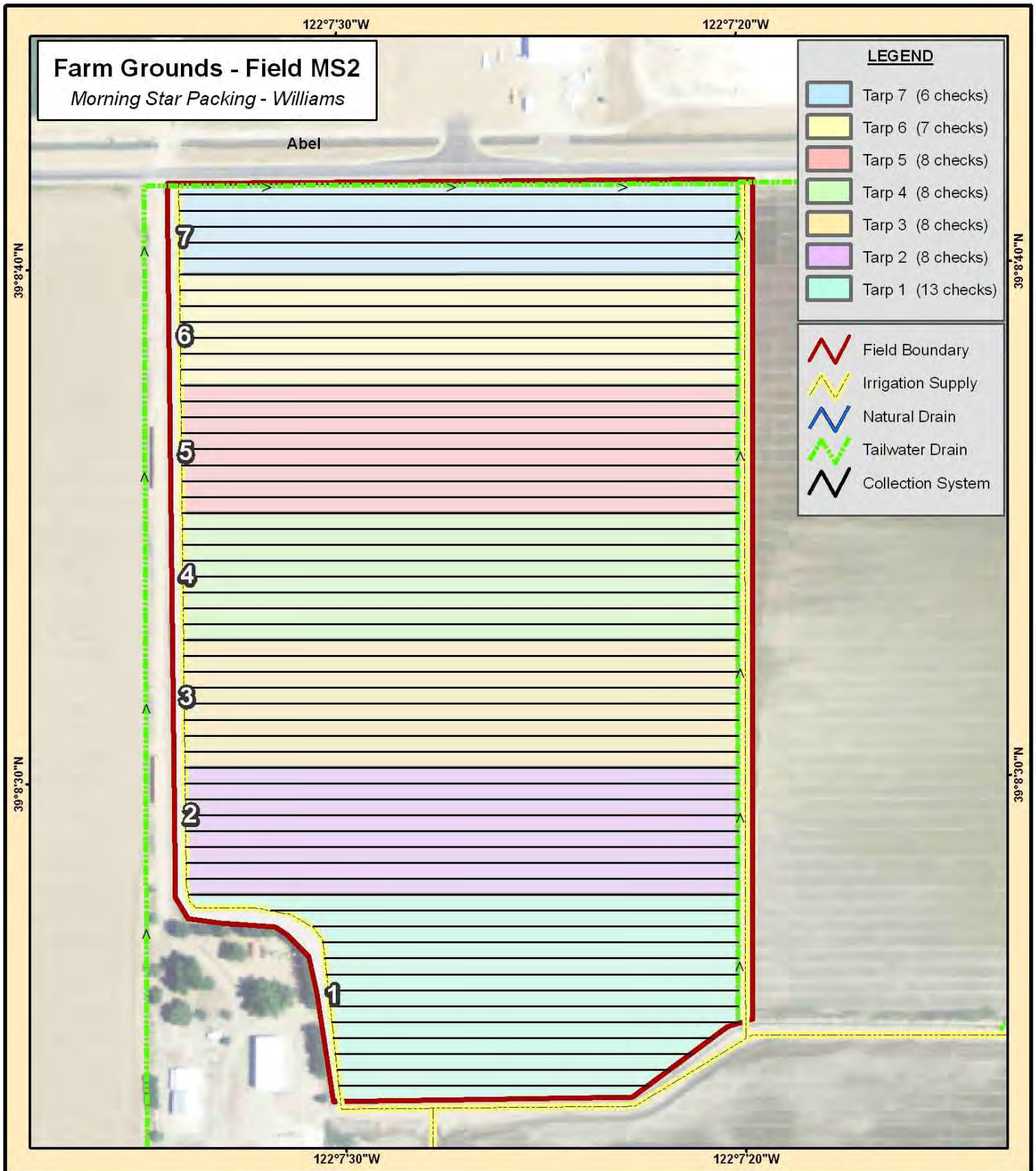
Map Scale 1:14,400 1 Inch = 1,200 Feet

0 300 600 1,200 1,800 2,400 Feet

N

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

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



CUSTOM MAPPING SERVICES

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

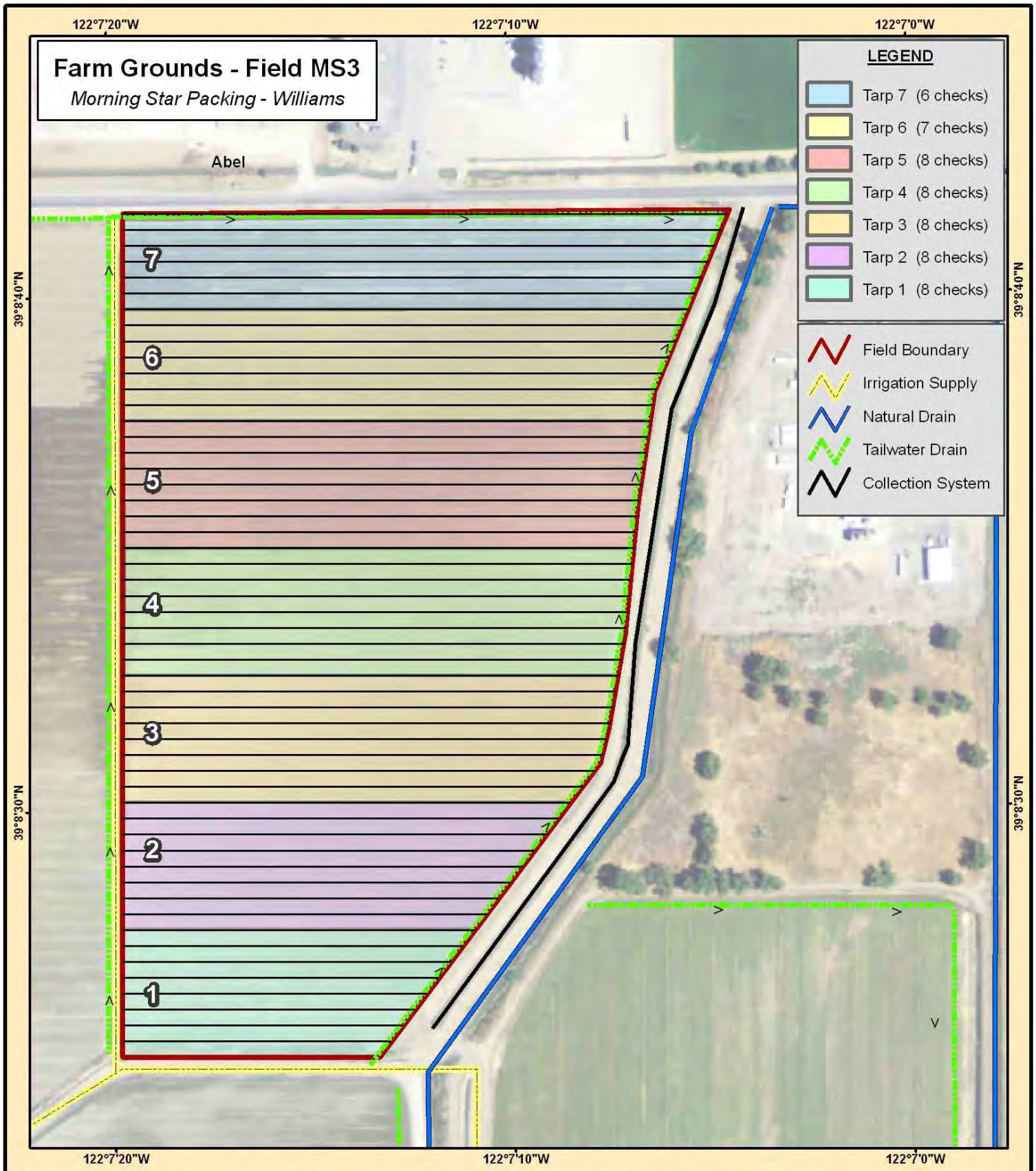
0 125 250 500 Feet

0 30 60 120 180 240 300 360 420 Feet

N

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

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



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

0 125 250 500 Feet

0 30 60 120 180 240 300 360 420 Feet

N

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

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

CUSTOM MAPPING SERVICES

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

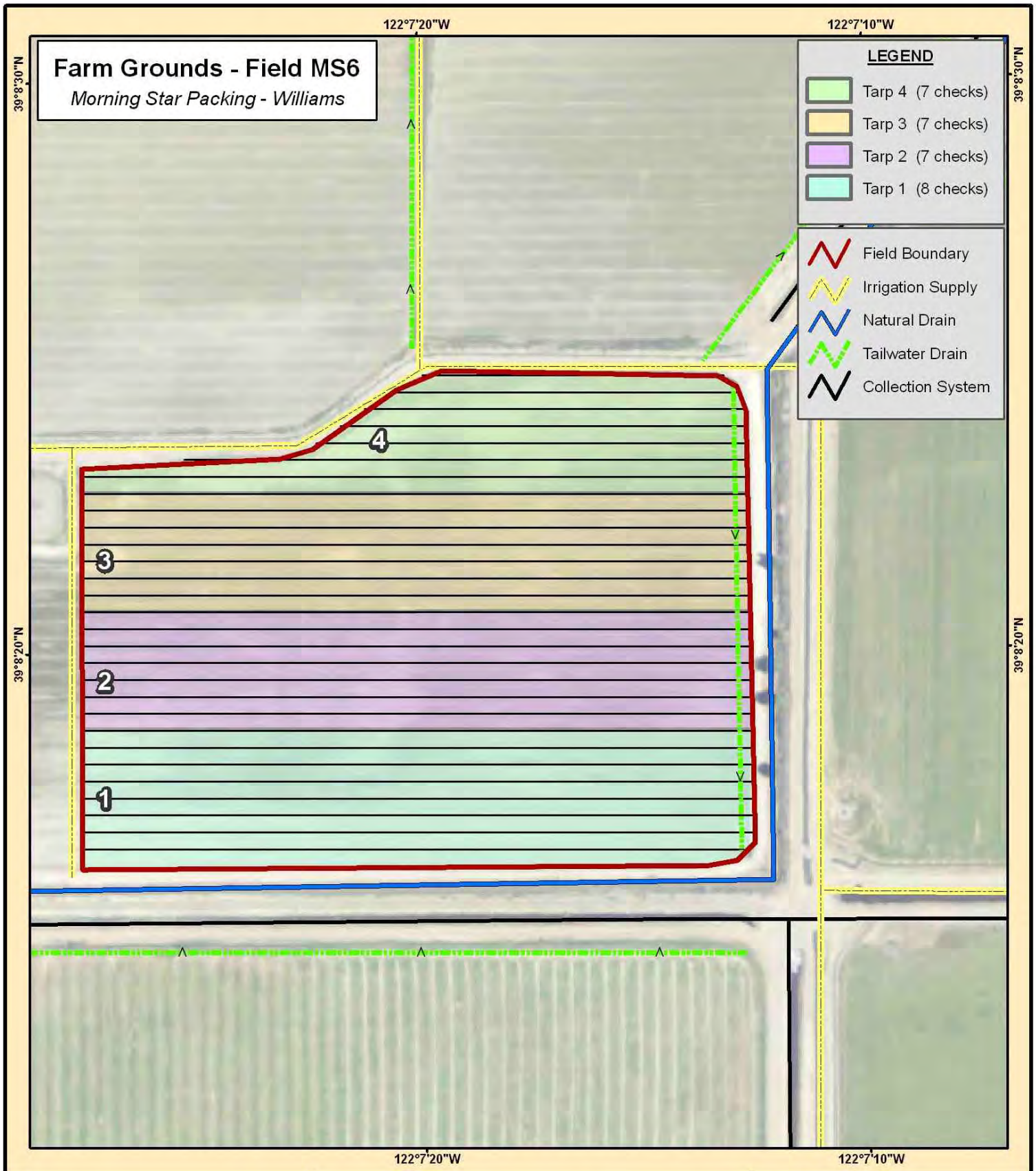
0 112.5 225 450 Feet

0 30 60 120 180 240 300 360 420 Feet

N

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

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-049



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

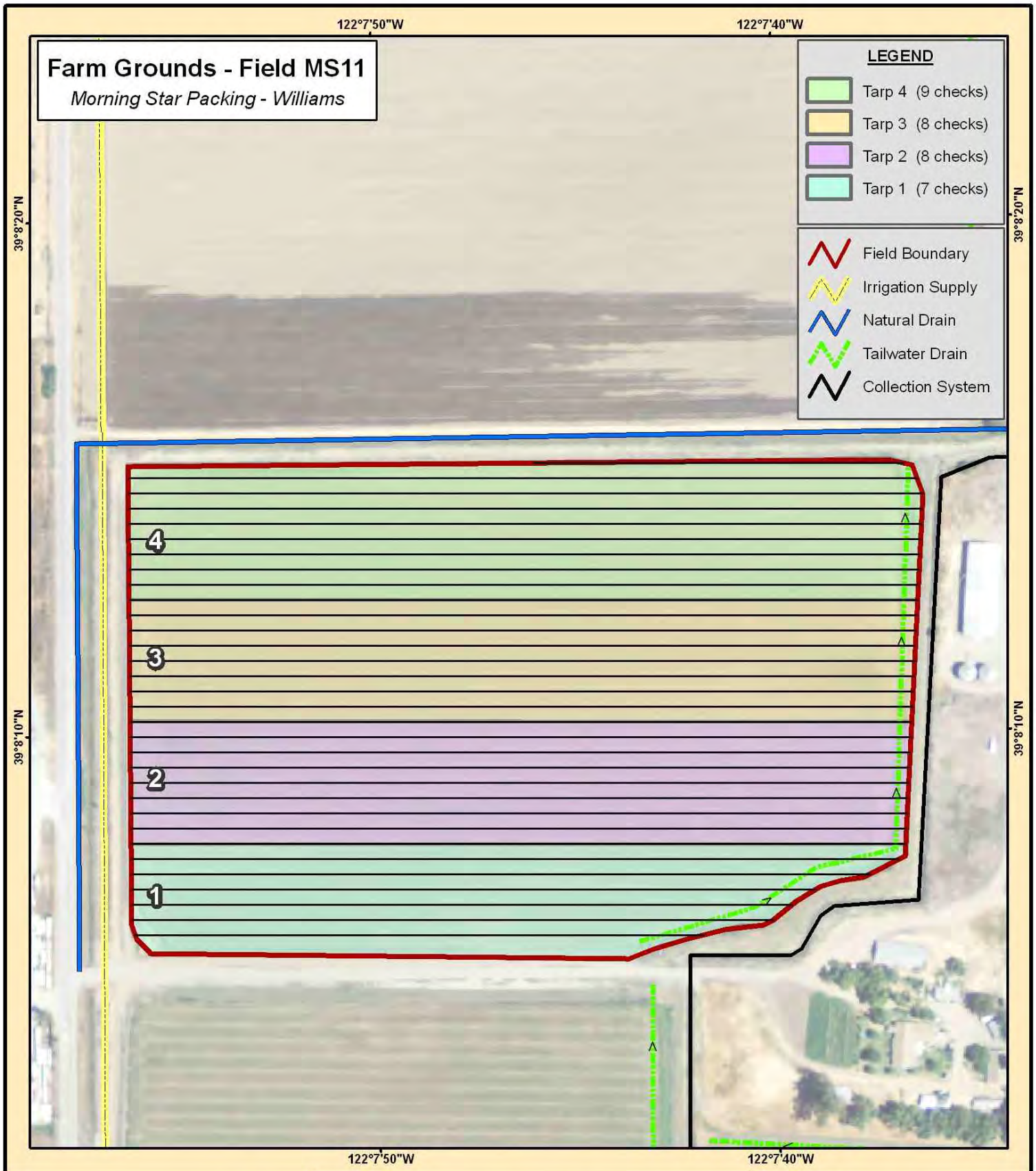
0 112.5 225 450 Feet

0 30 60 120 180 240 300 360 420 Feet

N

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

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-047



CUSTOM MAPPING SERVICES

Custom Mapping Services, L.L.C. does not guarantee the accuracy or content of the data used in this map. Map is intended for pictorial use only and is not to be used for legal purposes.

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

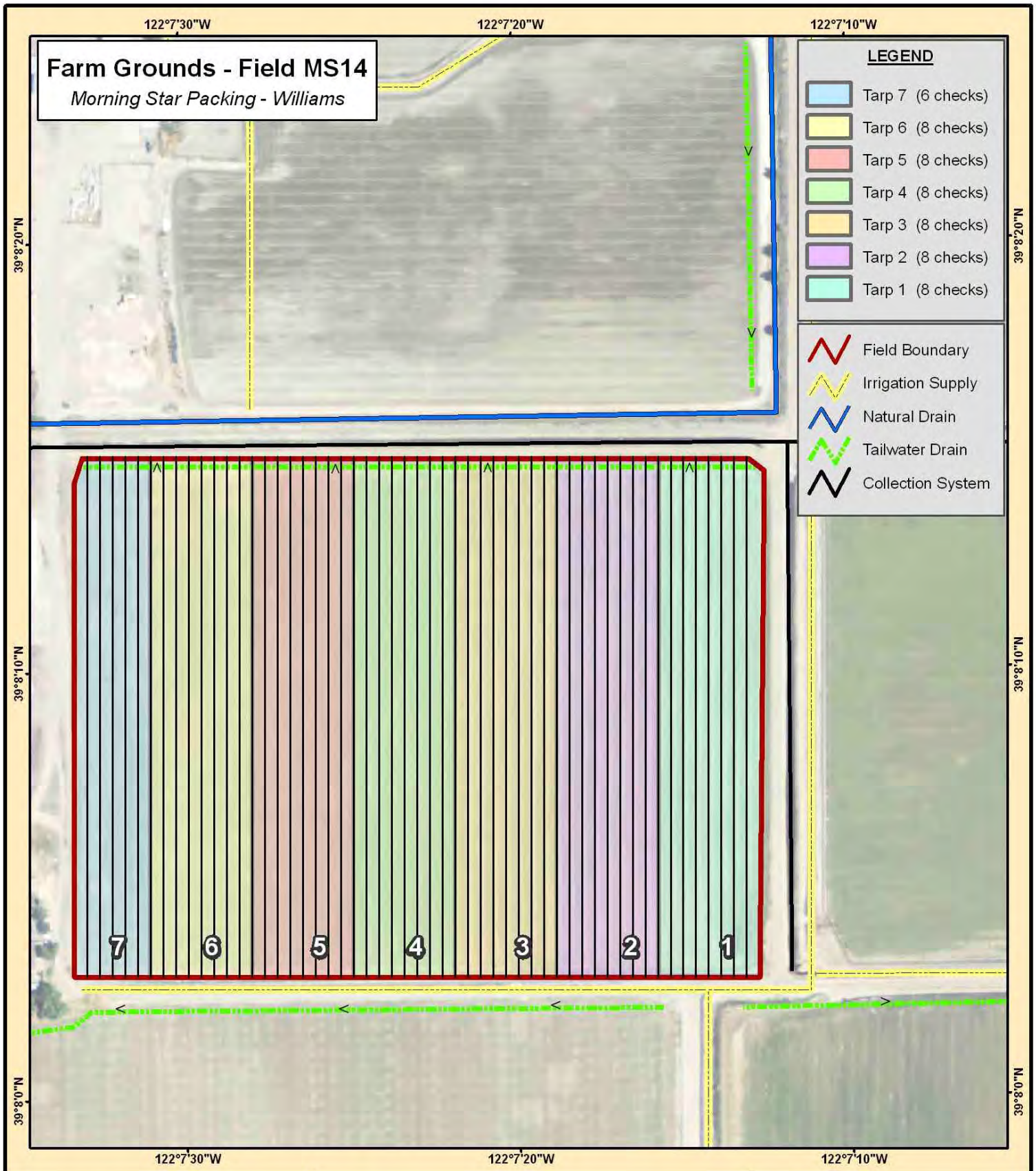
0 125 250 500 Feet

0 30 60 120 180 240 300 360 420 Feet

N

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

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



CUSTOM MAPPING SERVICES

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

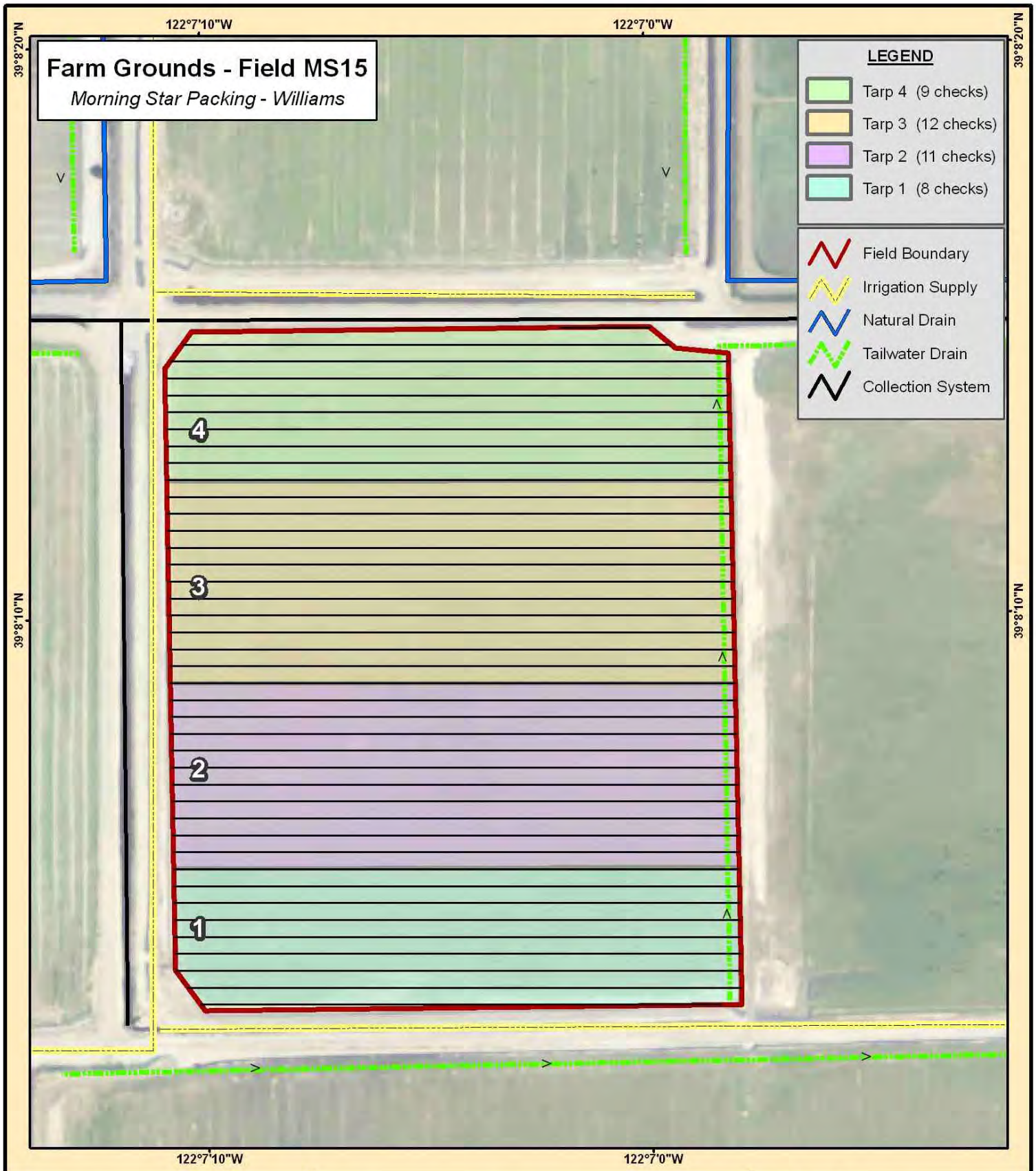
0 150 300 600 Feet

0 60 120 240 360 480 600 Feet

N

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

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



CUSTOM MAPPING SERVICES

Custom Mapping Services, L.L.C. does not guarantee the accuracy or content of the data used in this map. Map is intended for pictorial use only and is not to be used for legal purposes.

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

0 112.5 225 450 Feet

0 30 60 120 180 240 300 360 420 Feet

N

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

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

CUSTOM MAPPING SERVICES

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Map Scale 1:3,840 1 Inch = 320 Feet

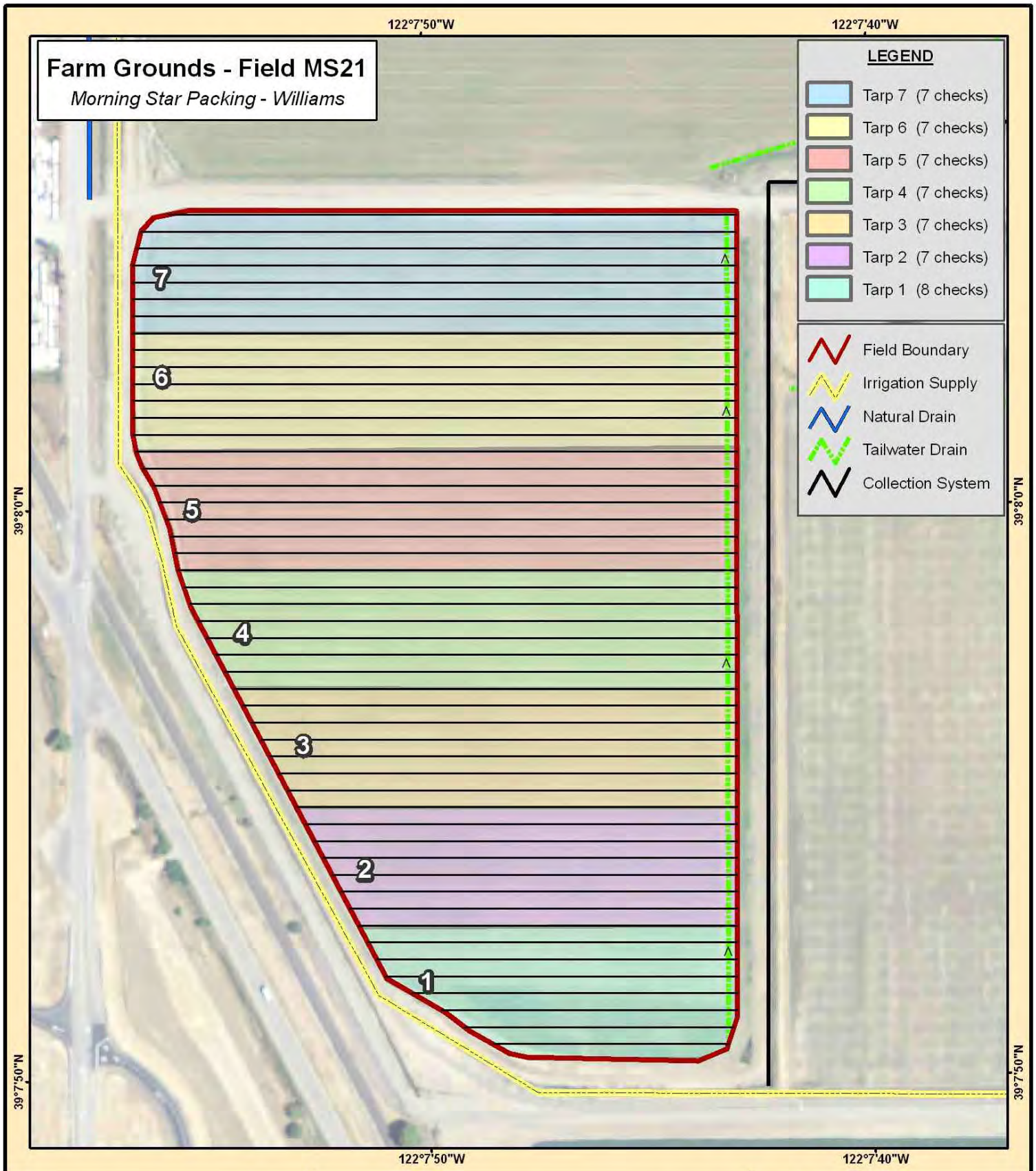
0 160 320 640 Feet

0 60 120 240 360 480 600 Feet

N

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

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-051



CUSTOM MAPPING SERVICES

Custom Mapping Services, L.L.C. does not guarantee the accuracy or content of the data used in this map. Map is intended for pictorial use only and is not to be used for legal purposes.

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

0 112.5 225 450 Feet

0 30 60 120 180 240 300 360 420 Feet

N

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

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-046

Attachment E

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

**Est based on Google Earth

Crop Information

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

**Est based on Google Earth

Crop Information

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

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)	
Total Nitrogen Demand (lb/ac)	
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)	
Total Nitrogen Demand (lb/ac)	
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

Crop Information

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

**Est based on Google Earth

Crop Information

Crop Name	Sudan Grass
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
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	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)	
Total Nitrogen Demand (lb/ac)	
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)	
Total Nitrogen Demand (lb/ac)	
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)	
Total Nitrogen Demand (lb/ac)	
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)	
Total Nitrogen Demand (lb/ac)	
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)	
Total Nitrogen Demand (lb/ac)	
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	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)			74	73	169	137	222	94	158	117	152	74	61	47	182	60	81	60	83
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)			56	14		63	14	63	0	0	82	82	119	119	0	82	82	82	82
Cumulative Annual Total Nitrogen Value (lbs/ac/year)			130	87	292	323	236	157	281	240	234	156	180	166	305	142	163	142	165
Annual Crop Demand (lbs/ac/year)																			

Attachment F

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Weekly-Inspection Observations:

Technician: Justin Young

Date: 9-1-14 Weather: Sunny

1. Any evidence of erosion: yes / no
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A
4. Are the valves being used properly: yes / no
5. Is there any soil saturation: yes / no
6. Is there any ponding: yes / no
7. Is there any potential runoff to off-site areas: yes / no
8. Is there any potential and actual discharge to surface water: yes / no
9. Are there any accumulation of organic solids at soil surface: yes / no
10. Is there any soil clogging: yes / no
11. Are there any odors that have the potential to be objectionable at or beyond the property boundary: yes / no
12. Are there any insects: yes / no
13. Temperature and wind direction/strength: 102° NNE 10 MPH
14. Other observations: Good Crop growth

LAND APPLICATION AREA MONITORING

Weekly-Inspection Observations:

Technician: Justin Young

Date: 9/8/14 Weather: Sunny

1. Any evidence of erosion: yes / no
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A
4. Are the valves being used properly: yes / no
5. Is there any soil saturation: yes / no
6. Is there any ponding: yes / no
7. Is there any potential runoff to off-site areas: yes / no
8. Is there any potential and actual discharge to surface water: yes / no
9. Are there any accumulation of organic solids at soil surface: yes / no
10. Is there any soil clogging: yes / no
11. Are there any odors that have the potential to be objectionable at or beyond the property boundary: yes / no
12. Are there any insects: yes / no
13. Temperature and wind direction/strength: 93° Wind E 2MPH
14. Other observations: Crops are growing good

MORNING STAR

LAND APPLICATION AREA MONITORING

Weekly-Inspection Observations:

Technician: ~~[illegible]~~ Justin Young

Date: 9/15/14 Weather: Sunny

1. Any evidence of erosion: yes / no
2. Berm Condition good
3. Standpipe and flow control valve condition N/A
4. Are the valves being used properly: yes / no
5. Is there any soil saturation: yes / no
6. Is there any ponding: yes / no
7. Is there any potential runoff to off-site areas: yes / no
8. Is there any potential and actual discharge to surface water: yes / no
9. Are there any accumulation of organic solids at soil surface: yes / no
10. Is there any soil clogging: yes / no
11. Are there any odors that have the potential to be objectionable at or beyond the property boundary: yes / no
12. Are there any insects: yes / no
13. Temperature and wind direction/strength: 96° 10mph South
14. Other observations: Crops are growing good

MORNING STAR

Excellence Through Commitment

LAND APPLICATION AREA MONITORING

Weekly-Inspection Observations:

Technician: Justin Young

Date: 9/22/14 Weather: Sunny

1. Any evidence of erosion: yes / no
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A
4. Are the valves being used properly: yes / no
5. Is there any soil saturation: yes / no
6. Is there any ponding: yes / no
7. Is there any potential runoff to off-site areas: yes / no
8. Is there any potential and actual discharge to surface water: yes / no

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9. Are there any accumulation of organic solids at soil surface: yes / no

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10. Is there any soil clogging: yes / no
11. Are there any odors that have the potential to be objectionable at or beyond the property boundary: yes / no
12. Are there any insects: yes / no
13. Temperature and wind direction/strength: 89° SSE 8MPH
14. Other observations: Crops are growing good

MORNING STAR

Excellence Through Commitment

LAND APPLICATION AREA MONITORING

Weekly-Inspection Observations:

Technician: Justin Young

Date: 9/29/14 Weather: Sunny

1. Any evidence of erosion: yes / no
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A
4. Are the valves being used properly: yes / no
5. Is there any soil saturation: yes / no
6. Is there any ponding: yes / no
7. Is there any potential runoff to off-site areas: yes / no
8. Is there any potential and actual discharge to surface water: yes / no
9. Are there any accumulation of organic solids at soil surface: yes / no
10. Is there any soil clogging: yes / no
11. Are there any odors that have the potential to be objectionable at or beyond the property boundary: yes / no
12. Are there any insects: yes / no
13. Temperature and wind direction/strength: 83° Wind SE@5MPH
14. Other observations: Crops are growing good.

Attachment G

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

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

RESIDUAL SOLIDS MONITORING : Facility Not Processing, Solids Monitoring N/A

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, Wet Waste	9,625	9,625	Animal Feed, Gilton Resource Recover/Transfer Station	0	

[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.

Attachment H

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

MONTHLY MONITORING REPORT

MONTH	September
YEAR	2014

FIELD INSTRUMENT CALIBRATION LOG

Monitoring Week	Date	Time	Lower Standard pH Buffer	Lower Standard Stabilized pH	Lower pH Standard Calibrated pH	Upper Standard pH Buffer	Upper Standard Stabilized pH	Upper Standard Calibrated pH	DO Initial Reading	Electrolyte Solution Added	DO Reading after Calibration	Technican's Initials
Week 1	9/1/14	11:30	4.0	3.9		10.0	9.9		2.64	N/A	N/A	JI
Week 2	9/8/14	11:00	4.0	3.9		10.0	9.8		4.09	N/A	N/A	JI
Week 3	9/15/14	10:45	4.0	3.8		10.0	9.8		4.07	N/A	N/A	JI
Week 4	9/22/14	2:20	4.0	3.7	4.0	10.0	9.8	10.0	3.71	N/A	N/A	JI
Week 5	9/29/14	2:10	4.0	3.9		10.0	9.9		3.97	N/A	N/A	JI

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

INSTRUMENT CALIBRATION REPORT

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

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

Instrument ID 01
Description FLOW METER
Serial Number A1J001295
Model Number U SONIC R

Calibrated 5/30/2014
Scheduled 5/30/2015
Calibration ID 21526
Certificate # 01
Equipment ID
Department
Manufacturer DREXEL BROOK
Calibration Type INITIAL
Location SETTLING POND
Building OUTSIDE

Calibration Specifications

Stated Accy Pct of Reading

In Val	In Type	Out Val	Out Type	Fnd As	Error %	Lft As	Error %
0.00	FEET H2O	0.00	GPM	0.00	0.00%	0.00	0.00%
0.20	FEET H2O	334.20	GPM	330.00	-1.26%	330.00	-1.26%
0.54	FEET H2O	1483.00	GPM	1,483.00	0.00%	1,483.00	0.00%
0.71	FEET H2O	2235.00	GPM	2,275.00	1.79%	2,275.00	1.79%
0.87	FEET H2O	3032.00	GPM	3,068.00	1.19%	3,068.00	1.19%

Test Instruments Used During the Calibration

Test Instrument ID	Description	Manufacturer	Model Number	Serial Number
101	ULTRASONIC TEST STAND	ASC	1076-10	ASC-04-KEN

Notes about this calibration
2.5' RECTANGULAR WEIR
ZERO DISTANCE = 2.74'
VERIFIED LEVEL READING AT WEIR

Calibration Result Calibration Successful
Who Calibrated KEN LANE

INSTRUMENT CALIBRATION REPORT

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

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

Instrument ID 02
Description FLOW METER
Serial Number A1J000210
Model Number U SONIC R

Calibrated 5/30/2014
Scheduled 5/30/2015
Calibration ID 21527
Certificate # 02
Equipment ID
Department
Manufacturer DREXEL BROOK
Calibration Type INITIAL
Location COOLING POND
Building OUTSIDE

Calibration Specifications

Stated Accy Pct of Reading

In Val	In Type	Out Val	Out Type	Fnd As	Error %	Lft As	Error %
0.00	FEET H2O	0.00	GPM	0.00	0.00%	0.00	0.00%
0.22	FEET H2O	301.70	GPM	299.00	-0.89%	299.00	-0.89%
0.41	FEET H2O	752.80	GPM	749.00	-0.50%	749.00	-0.50%
0.55	FEET H2O	1153.00	GPM	1,174.00	1.82%	1,174.00	1.82%
0.67	FEET H2O	1530.00	GPM	1,542.00	0.78%	1,542.00	0.78%

Test Instruments Used During the Calibration

Test Instrument ID	Description	Manufacturer	Model Number	Serial Number
101	ULTRASONIC TEST STAND	ASC	1076-10	ASC-04-KEN

Notes about this calibration

2' RECTANGULAR WEIR WITH END CONTRACTIONS
ZERO DISTANCE = 32.6" OR 2.72'
CHANNEL #2

Calibration Result Calibration Successful
Who Calibrated KEN LANE

INSTRUMENT CALIBRATION REPORT

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

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

Instrument ID 03
Description FLOW METER
Serial Number A1J000210
Model Number U SONIC R

Calibrated 5/30/2014
Scheduled 5/30/2015
Calibration ID 21524
Certificate # 03
Equipment ID
Department
Manufacturer DREXEL BROOK
Calibration Type INITIAL
Location MAIN DITCH
Building OUTSIDE

Calibration Specifications

Stated Accy Pct of Reading

In Val	In Type	Out Val	Out Type	Fnd As	Error %	Lft As	Error %
0.00	FEET H2O	0.00	GPM	0.00	0.00%	0.00	0.00%
0.20	FEET H2O	334.20	GPM	340.00	1.74%	340.00	1.74%
0.54	FEET H2O	1483.00	GPM	1,476.00	-0.47%	1,476.00	-0.47%
0.71	FEET H2O	2235.00	GPM	2,228.00	-0.31%	2,228.00	-0.31%
0.87	FEET H2O	3032.00	GPM	3,048.00	0.53%	3,048.00	0.53%

Test Instruments Used During the Calibration

Test Instrument ID	Description	Manufacturer	Model Number	Serial Number
101	ULTRASONIC TEST STAND	ASC	1076-10	ASC-04-KEN

Notes about this calibration
2.5' RECTANGULAR WEIR
CHANNEL #1
ZERO DISTANCE MEASURED AT 3.13'
VERIFIED LEVEL READING AT WEIR

Calibration Result Calibration Successful
Who Calibrated KEN LANE