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

Staff: BC
Logged in as received: 07.02.14.BC
Date reviewed:
Violations?:
Letter is reviewed

30 June 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 May 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 cooling pond monitoring results for May 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.*

As The Morning Star Packing Company – Williams is not processing, there are no daily flow measurements from the washwater sources nor supplemental irrigation water. The May logsheets are 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.*

As The Morning Star Packing Company – Williams is not processing the May average daily flow is zero and a comparison to the average daily flow limit is not needed. 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 | 0 | |
| Station 2: Cooling Pond | 0 | |
| Total Washwater Discharge | 0 | 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.*

As The Morning Star Packing Company – Williams is not processing, there is no washwater monitoring data and calculations to be submitted, however, a May 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**. The number of checks for some of the fields are still estimates and will be updated after irrigations begin.

*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.*

As The Morning Star Packing Company – Williams is not processing, there is no pre-application inspection reports to submit, however, a May logsheet is 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.*

As The Morning Star Packing Company – Williams is not processing, there is no calculation of the flow-weighted average FDS concentration to report, however, this information 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.*

As The Morning Star Packing Company – Williams is not processing, there is no residual solids monitoring data to report, however, a May logsheet 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.*

As The Morning Star Packing Company – Williams is not processing, there is no comparison of monitoring data to the flow limitations, effluent limitations, mass loading limitations or discharge specifications.

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

As The Morning Star Packing Company – Williams is not processing, there are no laboratory analytical reports to be submitted.

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

The calibration log for May is 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** | May |
| **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 | | | | | | | | |
| | Week 2 | | | | | | | | |
| | Week 3 | | | | | | | | |
| | Week 4 | | | | | | | | |
| | Week 5 | | | | | | | | |
| Coolng Pond | Week 1 | | | | | | | | |
| | Week 2 | | | | | | | | |
| | Week 3 | | | | | | | | |
| | Week 4 | 5/21/14 | 8:30 AM | 3.65 | 6.80 | 4.50 | None | Good | J.I. |
| | Week 5 | | | | | | | | |

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.

MORNING STAR

"Excellence Through Commitment"

Field Log: CP/SP # 5 Jon Ikerd Technician:

Date: 5-21-14 Weather: 70° f

## COOLING POND

pH 6.8 EC: 710 umhos/cm Temp: °C 71 °F

Freeboard: 54" inches Time: 8:30 (0700-0900 hours)

Sample for dissolved oxygen analysis: Taken with Hach Meter RESULT: 3.65

Levee Condition: Good

Water Color: Grey / Green

Odors: yes / (no) Strength: _____ Characteristics: _____

Other Observations: Pond very low

Equipment Calibration: (yes) / no Please see attached calibration notes.

## SETTLING POND

pH EC: ____ umhos/cm Temp: °C °F

Freeboard: ____ inches Time: _____ (0700-0900 hours)

Sample for dissolved oxygen analysis: RESULT: #1_____ #2____

Levee Condition: _____

Water Color: _____

Odors: yes / no Strength: _____ Characteristics: _____

Other Observations: _____

Equipment Calibration: yes / no Please see attached calibration notes.

# Attachment B

MONTHLY MONITORING REPORT

| | |
|---|---|
| MONTH | May |
| 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 | 0 | 0 | 0 | 0 | - | 0 |
| 2 | 0 | 0 | 0 | 0 | - | 0 |
| 3 | 0 | 0 | 0 | 0 | - | 0 |
| 4 | 0 | 0 | 0 | 0 | - | 0 |
| 5 | 0 | 0 | 0 | 0 | - | 0 |
| 6 | 0 | 0 | 0 | 0 | - | 0 |
| 7 | 0 | 0 | 0 | 0 | - | 0 |
| 8 | 0 | 0 | 0 | 0 | - | 0 |
| 9 | 0 | 0 | 0 | 0 | - | 0 |
| 10 | 0 | 0 | 0 | 0 | - | 0 |
| 11 | 0 | 0 | 0 | 0 | - | 0 |
| 12 | 0 | 0 | 0 | 0 | - | 0 |
| 13 | 0 | 0 | 0 | 0 | - | 0 |
| 14 | 0 | 0 | 0 | 0 | - | 0 |
| 15 | 0 | 0 | 0 | 0 | - | 0 |
| 16 | 0 | 0 | 0 | 0 | - | 0 |
| 17 | 0 | 0 | 0 | 0 | - | 0 |
| 18 | 0 | 0 | 0 | 0 | - | 0 |
| 19 | 0 | 0 | 0 | 0 | - | 0 |
| 20 | 0 | 0 | 0 | 0 | - | 0 |
| 21 | 0 | 0 | 0 | 0 | - | 0 |
| 22 | 0 | 0 | 0 | 0 | - | 0 |
| 23 | 0 | 0 | 0 | 0 | - | 0 |
| 24 | 0 | 0 | 0 | 0 | - | 0 |
| 25 | 0 | 0 | 0 | 0 | | 0 |
| 26 | 0 | 0 | 0 | 0 | | 0 |
| 27 | 0 | 0 | 0 | 0 | | 0 |
| 28 | 0 | 0 | 0 | 0 | | 0 |
| 29 | 0 | 0 | 0 | 0 | | 0 |
| 30 | 0 | 0 | 0 | 0 | | 0 |
| 31 | 0 | 0 | 0 | 0 | | 0 |
| Total Monthly Flow (MG) | 0 | 0 | 0 | 0 | | 0 |
| Average Daily Flow (MGD) | 0 | 0 | 0 | 0 | | 0 |
| Cumulative Annual Flow to Date (MG) | 37,434,000 | 0 | 0 | 0 | | 0 |

# Attachment C

**MONTHLY MONITORING REPORT**

| | |
|---|---|
| **MONTH** | May |
| **YEAR** | 2014 |

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

**WASTEWATER MONITORING RESULTS**

**Samples Collected from Station 1**

| Monitoring Week | Monitoring Date | BOD (mg/L) | 3-Sample Average BOD (mg/L)[1] | Total Nitrogen (mg/L) | 3-Sample Average Total Nitrogen (mg/L)[1] | FDS (mg/L) |
|---|---|---|---|---|---|---|
| Second to Last Week of Previous Month | | | N/A | | N/A | N/A |
| Last Week of Previous Month | | | N/A | | N/A | N/A |
| Week 1 of Current Month | | | | | | |
| Week 2 of Current Month | | | | | | |
| Week 3 of Current Month | | | | | | |
| Week 4 of Current Month | | | | | | |
| Week 5 of Current Month | | | | | | |

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

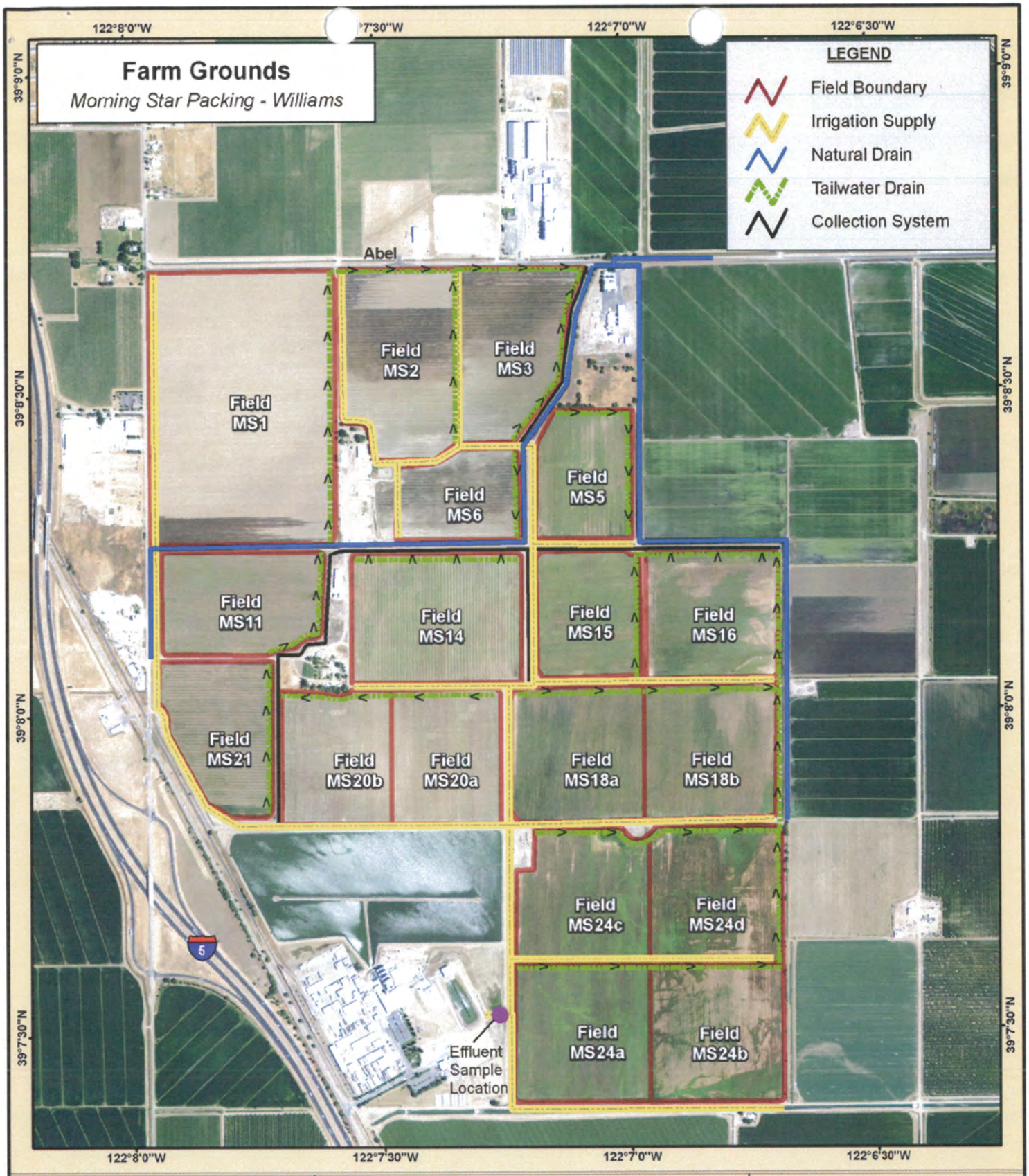
| | |
|---|---|
| **Average BOD Concentration (mg/L)[1]** | |
| **Average Monthly Total Nitrogen Concentration (mg/L)[2]** | |
| **Monthly Average FDS Concentration (mg/L)** | |
| **Flow Weighted Average FDS Concentration to Date (mg/L)[3]** | |

[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.*

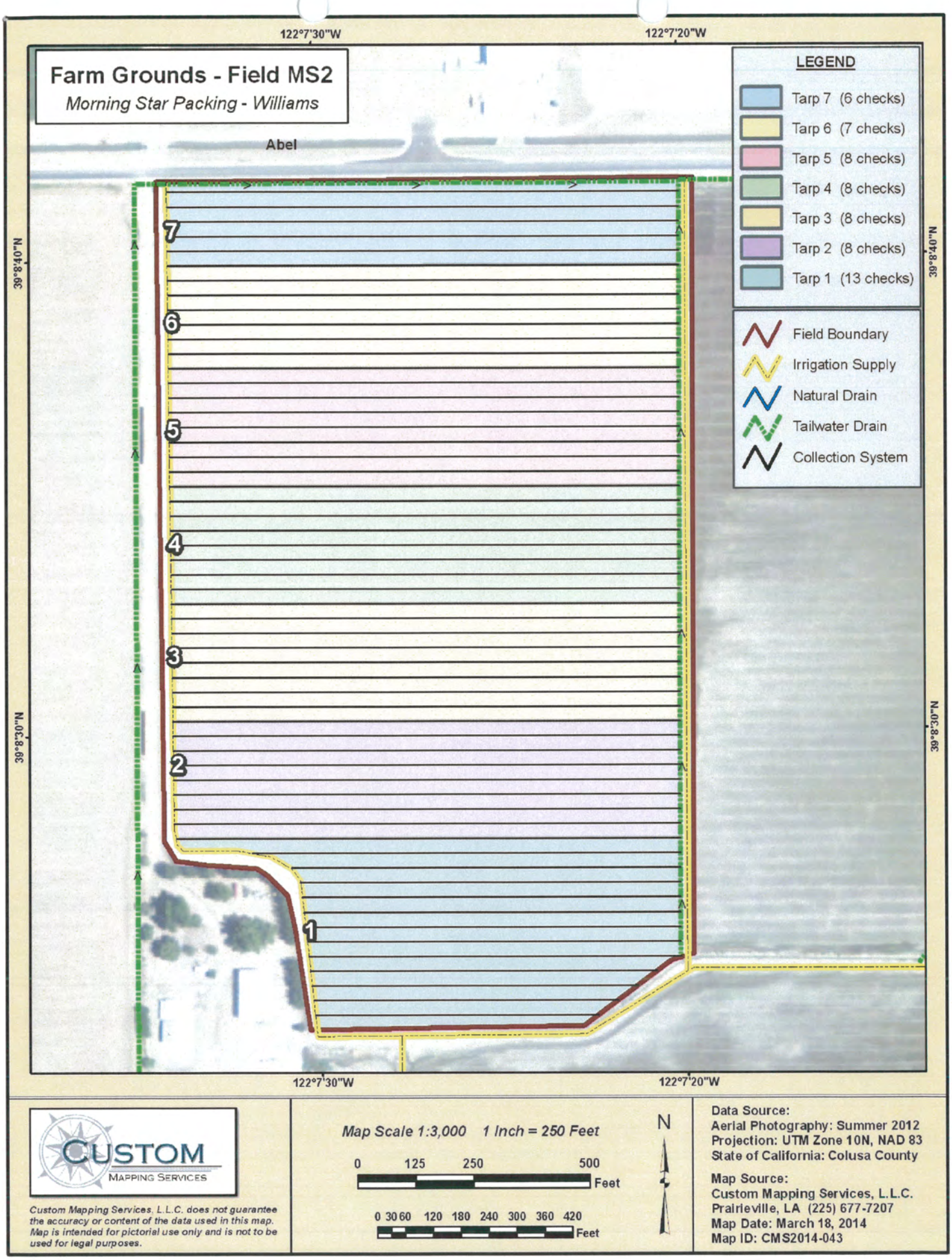
*Map Scale 1:14,400 1 Inch = 1,200 Feet*

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*

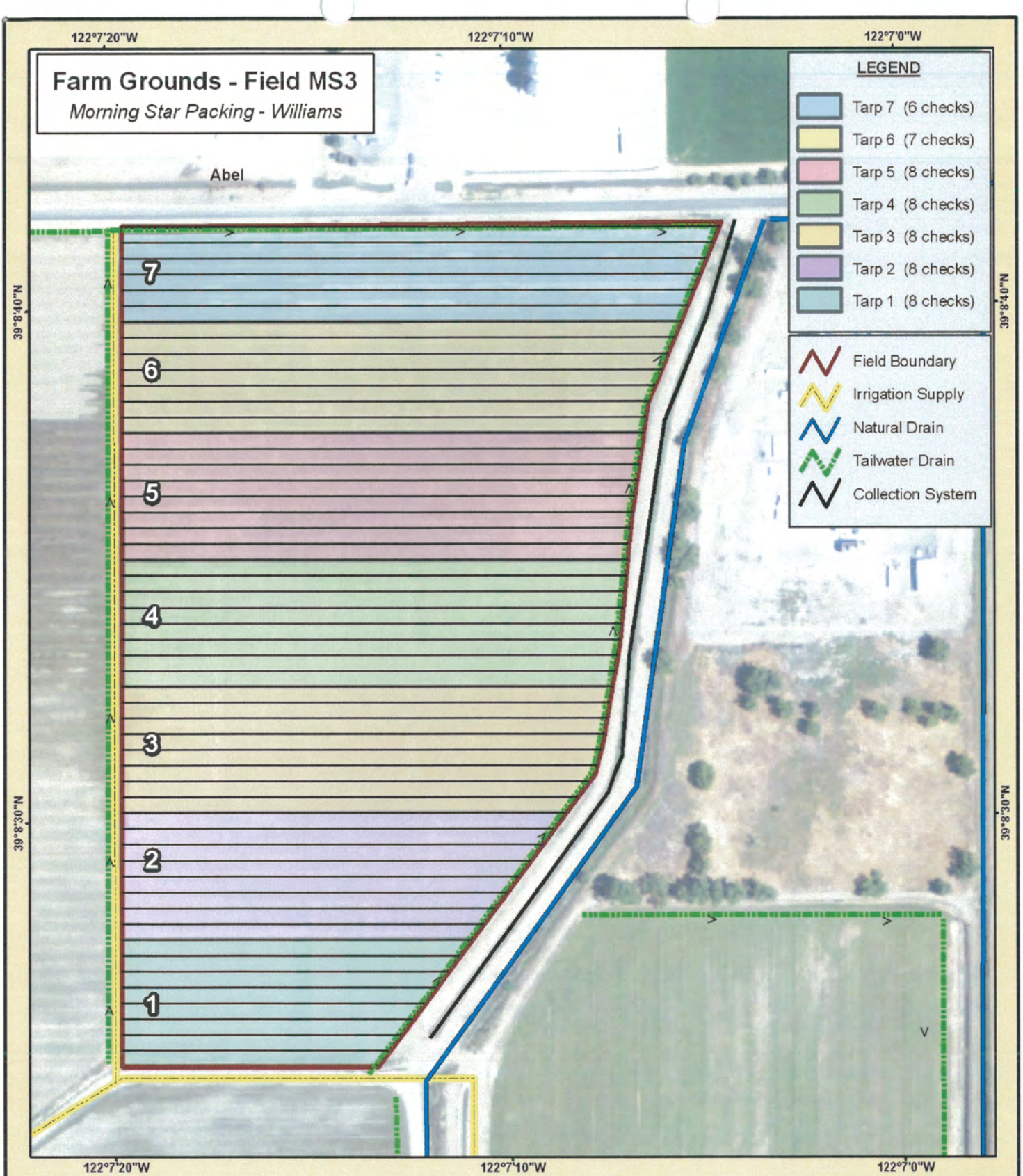
0 125 250 500 Feet

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*

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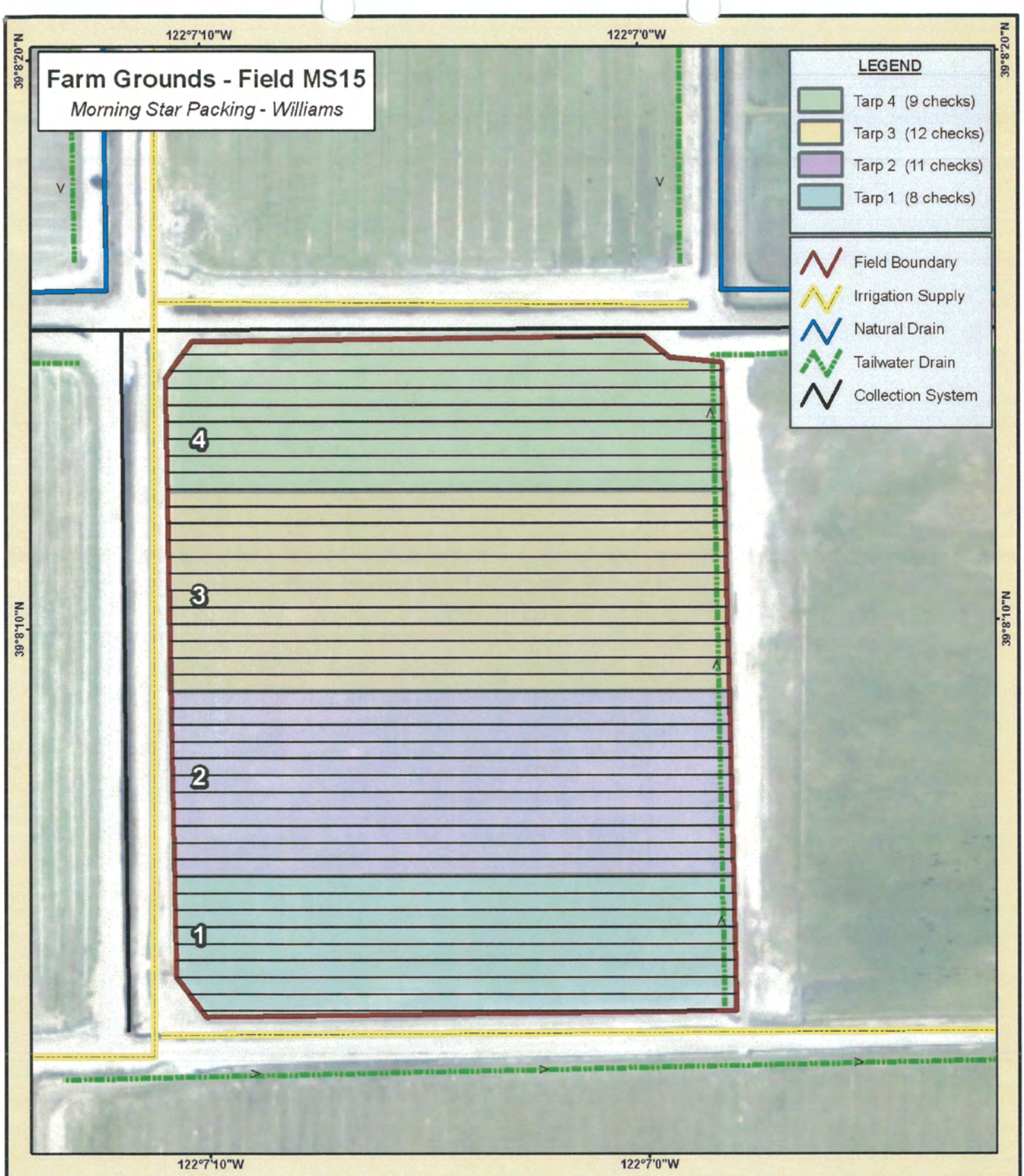
0 30 60 120 180 240 300 360 420 Feet

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

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

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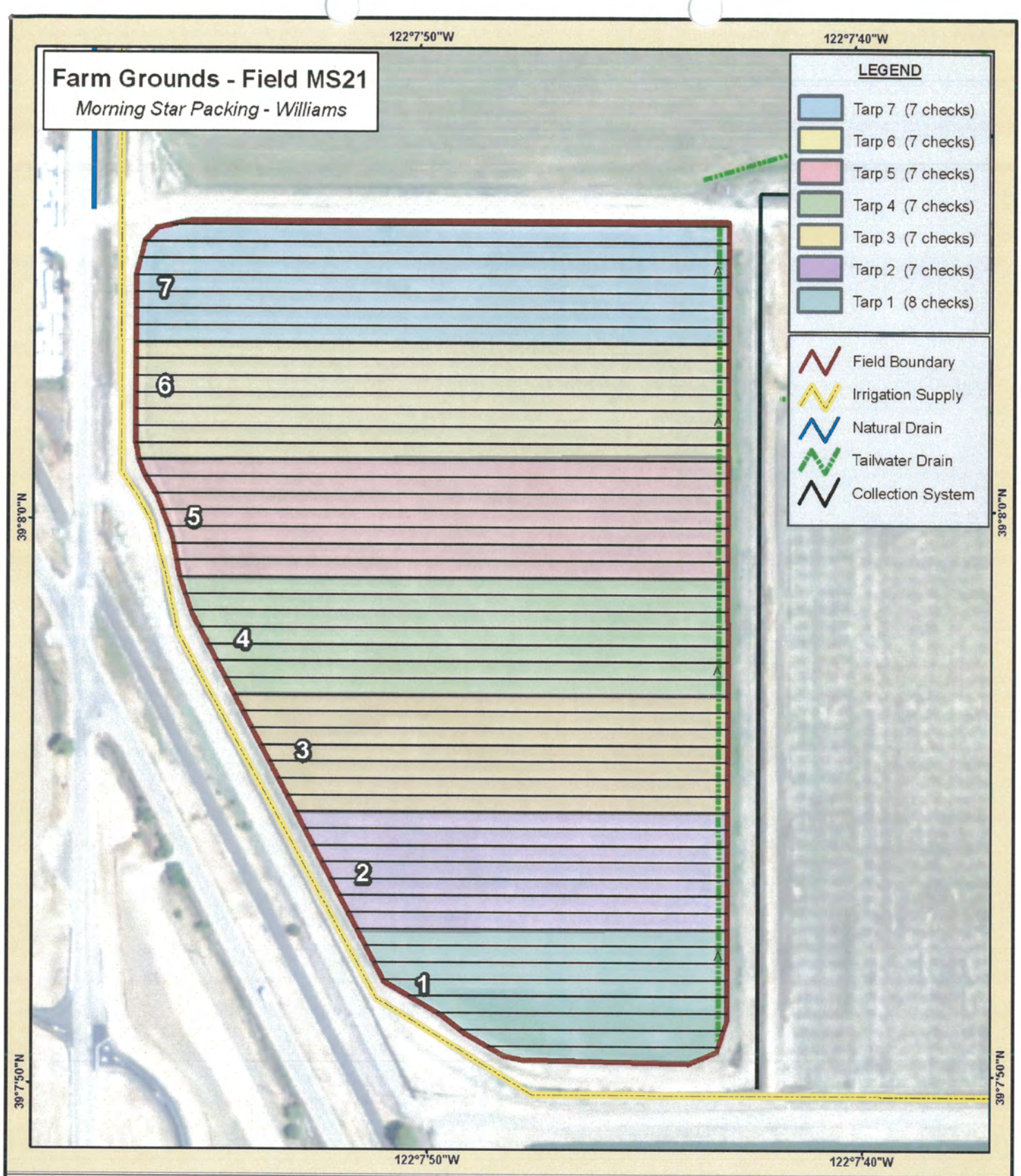
0 30 60 120 180 240 300 360 420 Feet

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 1:2,700 1 Inch = 225 Feet*

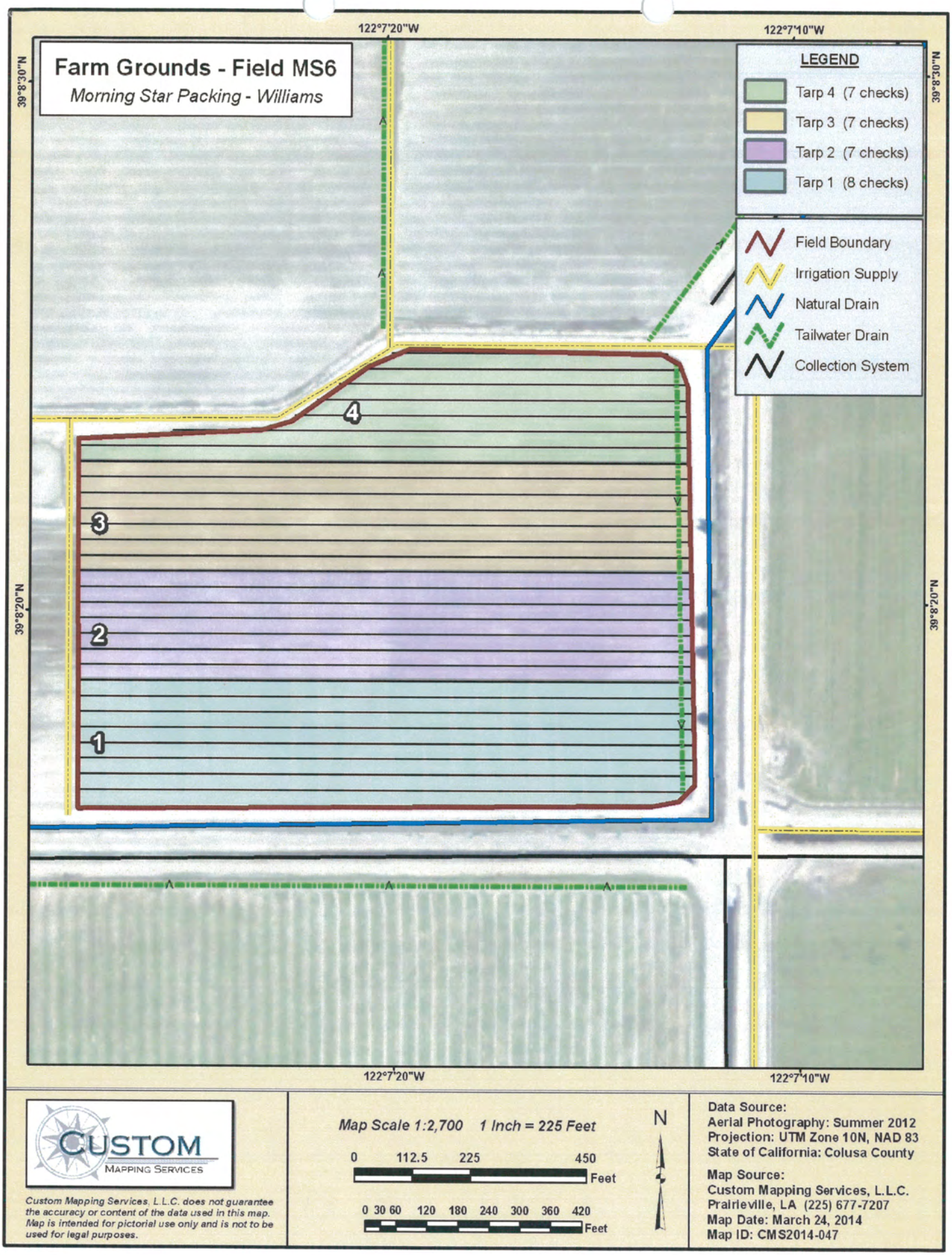
0 112.5 225 450 Feet

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




CUSTOM MAPPING SERVICES

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

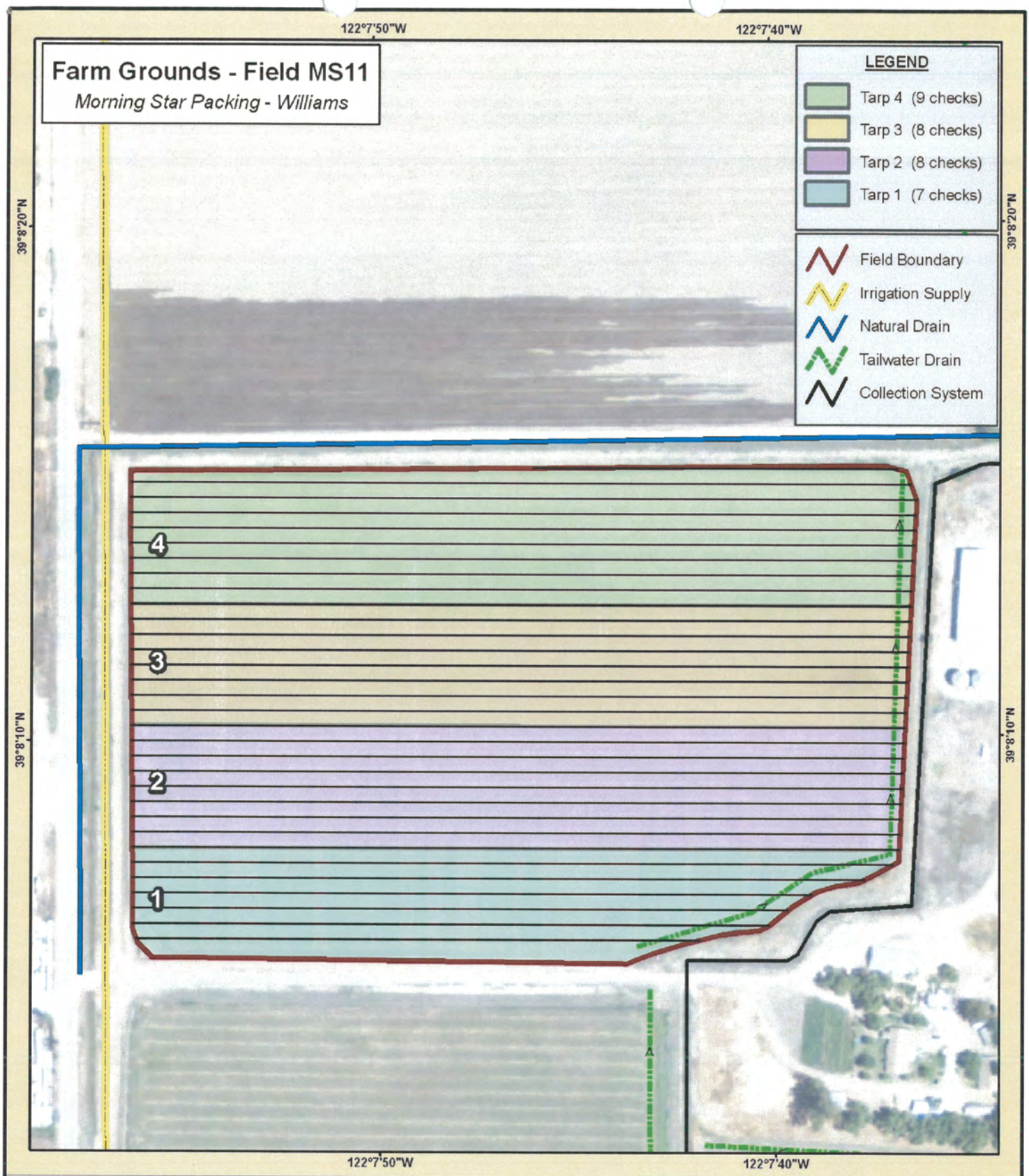
0 112.5 225 450 Feet

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: CMS2014-047

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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: CMS2014-048

CUSTOM MAPPING SERVICES

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

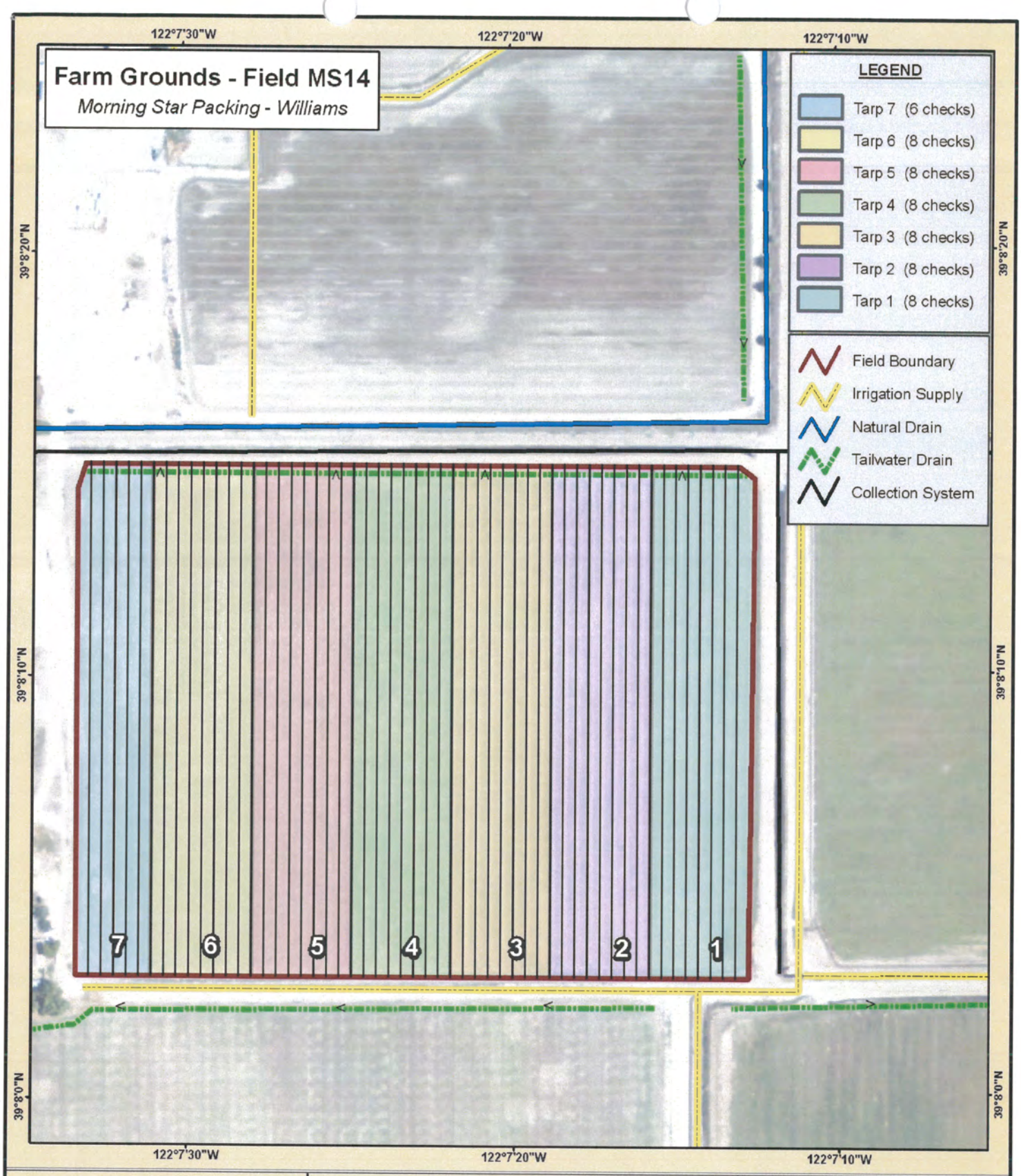
0 112.5 225 450 Feet

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 1:3,600 1 Inch = 300 Feet*

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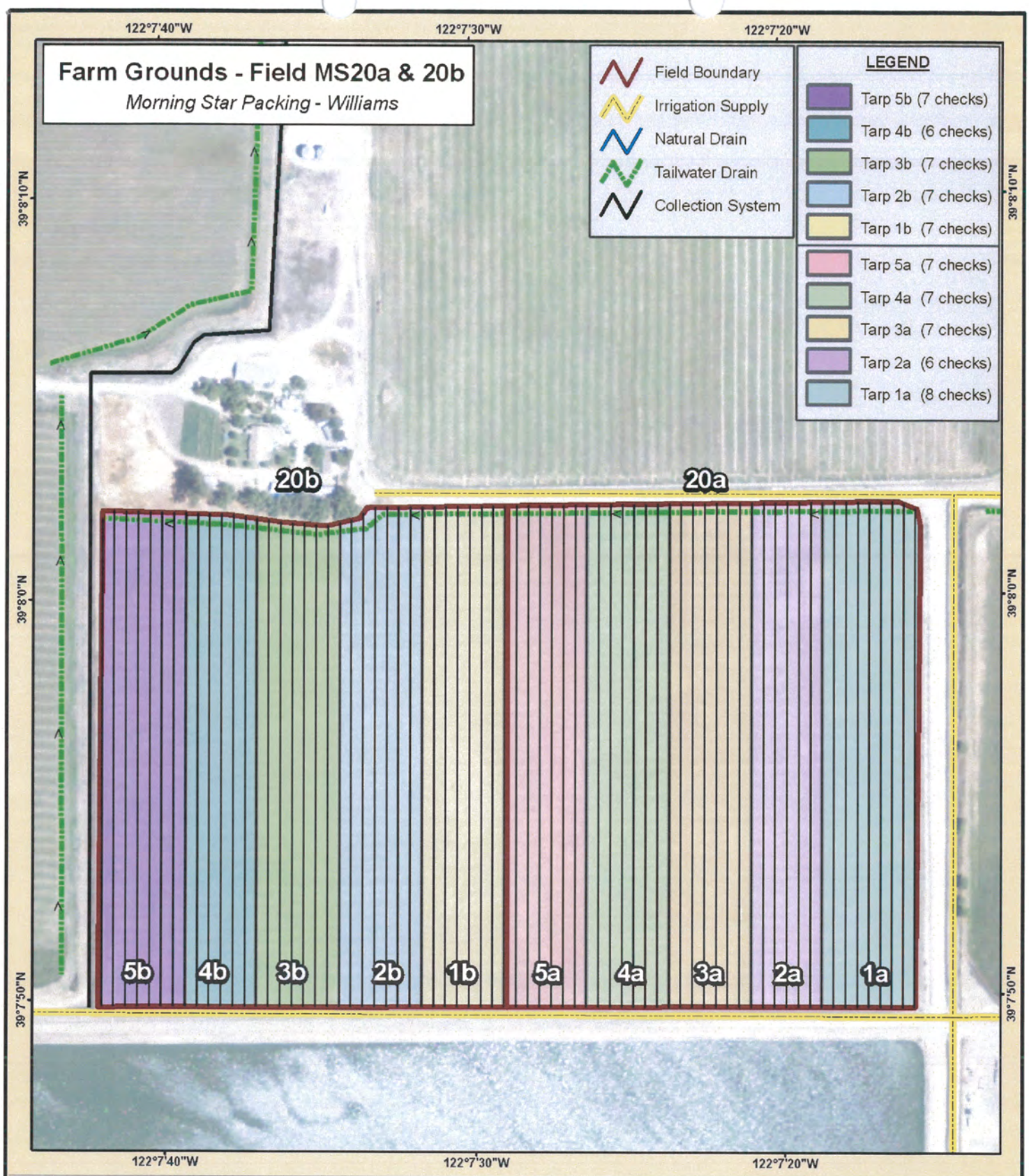
0 60 120 240 360 480 600 Feet

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

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

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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

# Attachment E

**MONTHLY MONITORING REPORT**

| | |
|---|---|
| **MONTH** | May |
| **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 | Oats |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | 10/13 to 11/13 |
| Actual Planting Date | Nov 10-20, 2013 |
| Anticipated Harvest Date | Mid May |
| Actual Harvest Date | May-5-7, 2014 |
| 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 |

**Est based on Google Earth

| Day of Month | Start Time | End Time | Precipitation (Inches) *CIMIS Data | 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 | | | 0.04 | | | | | | |
| 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** | | | 0.04 | | | | | | |

[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** | May |
| **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 | Oats |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | 10/13 to 11/13 |
| Actual Planting Date | Nov 10-20, 2013 |
| Anticipated Harvest Date | Mid May |
| Actual Harvest Date | May-5-7, 2014 |
| 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) *CIMIS Data | 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 | | | 0.04 | | | | | | |
| 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** | | | 0.04 | | | | | | |

[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** | May |
| **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 |

**Crop Information**

| | |
|---|---|
| Crop Name | Pasture |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | N/A |
| Actual Planting Date | N/A |
| Anticipated Harvest Date | N/A |
| 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 |

**Estest based on Google Earth

| Day of Month | Precipitation (Inches) *CIMIS Data | 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 | 0.04 | | | | | | |
| 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** | 0.04 | | | | | | |

[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** | May |
| **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 | Oats |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | 10/13 to 11/13 |
| Actual Planting Date | Nov 10-20, 2013 |
| Anticipated Harvest Date | Mid May |
| Actual Harvest Date | May-5-7, 2014 |
| Expected Harvest Yield | 3 tons/acre |
| Actual Harvest Yield | 1.3 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 | Precipitation (Inches) *CIMIS Data | 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 | 0.04 | | | | | | |
| 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** | 0.04 | | | | | | |

[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** | May |
| **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 | Wheat Grass |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | 10/13 to 11/13 |
| Actual Planting Date | Nov 10-20, 2013 |
| Anticipated Harvest Date | Mid May |
| Actual Harvest Date | N/A |
| Expected Harvest Yield | 2 tons/acre |
| Actual Harvest Yield | 0 tons/acre *Disced |

**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) *CIMIS Data | 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 | | | 0.04 | | | | | | |
| 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** | | | 0.04 | | | | | | |

[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** | May |
| **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 |

**Crop Information**

| | |
|---|---|
| Crop Name | Rye Grass |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | N/A |
| Actual Planting Date | 2008 |
| Anticipated Harvest Date | Mid May |
| Actual Harvest Date | May-5-7, 2014 |
| Expected Harvest Yield | 2 tons/acre |
| Actual Harvest Yield | 1.1 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) *CIMIS Data | 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 | | | 0.04 | | | | | | |
| 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 | | | | | | |
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| 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** | | | 0.04 | | | | | | |

[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** | May |
| **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 | Pasture |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | N/A |
| Actual Planting Date | N/A |
| Anticipated Harvest Date | N/A |
| 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) *CIMIS Data | 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 | | | 0.04 | | | | | | |
| 6 | | | 0.00 | | | | | | |
| 7 | | | 0.00 | | | | | | |
| 8 | | | 0.00 | | | | | | |
| 9 | | | 0.00 | | | | | | |
| 10 | | | 0.00 | | | | | | |
| 11 | | | 0.00 | | | | | | |
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| 27 | | | 0.00 | | | | | | |
| 28 | | | 0.00 | | | | | | |
| 29 | | | 0.00 | | | | | | |
| 30 | | | 0.00 | | | | | | |
| 31 | | | 0.00 | | | | | | |
| **Total** | | | 0.04 | | | | | | |

[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** | May |
| **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 | Oats |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | 10/13 to 11/13 |
| Actual Planting Date | Nov 10-20, 2013 |
| Anticipated Harvest Date | Mid May |
| Actual Harvest Date | May-5-7, 2014 |
| Expected Harvest Yield | 3 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 | Precipitation (Inches) *CIMIS Data | 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 | 0.04 | | | | | | |
| 6 | 0.00 | | | | | | |
| 7 | 0.00 | | | | | | |
| 8 | 0.00 | | | | | | |
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| 18 | 0.00 | | | | | | |
| 19 | 0.00 | | | | | | |
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| 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** | 0.04 | | | | | | |

[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** | May |
| **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 | Pasture |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | N/A |
| Actual Planting Date | N/A |
| Anticipated Harvest Date | N/A |
| 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 | Precipitation (Inches) *CIMIS Data | 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 | 0.04 | | | | | | |
| 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** | 0.04 | | | | | | |

[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** | May |
| **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 | Pasture |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | N/A |
| Actual Planting Date | N/A |
| Anticipated Harvest Date | N/A |
| 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 | Precipitation (Inches) *CIMIS Data | 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 | 0.04 | | | | | | |
| 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** | 0.04 | | | | | | |

[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** | May |
| **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 | Oats |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | 10/13 to 11/13 |
| Actual Planting Date | Nov 10-20, 2013 |
| Anticipated Harvest Date | Mid May |
| Actual Harvest Date | May-5-7, 2014 |
| Expected Harvest Yield | 3 tons/acre |
| Actual Harvest Yield | 1.7 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) *CIMIS Data | 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 | | | 0.04 | | | | | | |
| 6 | | | 0.00 | | | | | | |
| 7 | | | 0.00 | | | | | | |
| 8 | | | 0.00 | | | | | | |
| 9 | | | 0.00 | | | | | | |
| 10 | | | 0.00 | | | | | | |
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| 13 | | | 0.00 | | | | | | |
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| 16 | | | 0.00 | | | | | | |
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| 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** | | | 0.04 | | | | | | |

[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** | May |
| **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 | Oats |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | 10/13 to 11/13 |
| Actual Planting Date | Nov 10-20, 2013 |
| Anticipated Harvest Date | Mid May |
| Actual Harvest Date | May-5-7, 2014 |
| Expected Harvest Yield | 3 tons/acre |
| Actual Harvest Yield | 1.7 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) *CIMIS Data | 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 | | | 0.04 | | | | | | |
| 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 | | | | | | |
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| 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** | | | 0.04 | | | | | | |

[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** | May |
| **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 |

**Crop Information**

| | |
|---|---|
| Crop Name | Wheat Grass |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | 10/13 to 11/13 |
| Actual Planting Date | Nov 10-20, 2013 |
| Anticipated Harvest Date | Mid May |
| Actual Harvest Date | N/A |
| Expected Harvest Yield | 2 tons/acre |
| Actual Harvest Yield | 0 tons/acre *Disced |

**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) *CIMIS Data | 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 | | | 0.04 | | | | | | |
| 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** | | | 0.04 | | | | | | |

[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** | May |
| **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 |

Google Earth with 30' checks
**Est based on Google Earth

**Crop Information**

| | |
|---|---|
| Crop Name | Pasture |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | N/A |
| Actual Planting Date | N/A |
| Anticipated Harvest Date | N/A |
| 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 | Precipitation (Inches) *CIMIS Data | 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 | 0.04 | | | | | | |
| 6 | 0.00 | | | | | | |
| 7 | 0.00 | | | | | | |
| 8 | 0.00 | | | | | | |
| 9 | 0.00 | | | | | | |
| 10 | 0.00 | | | | | | |
| 11 | 0.00 | | | | | | |
| 12 | 0.00 | | | | | | |
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| 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** | 0.04 | | | | | | |

[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** | May |
| **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 |

Google Earth with 30' checks
**Est based on Google Earth

**Crop Information**

| | |
|---|---|
| Crop Name | Pasture |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | N/A |
| Actual Planting Date | N/A |
| Anticipated Harvest Date | N/A |
| 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 | Precipitation (Inches) *CIMIS Data | 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 | 0.04 | | | | | | |
| 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** | 0.04 | | | | | | |

[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** | May |
| **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 | Pasture |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | N/A |
| Actual Planting Date | N/A |
| Anticipated Harvest Date | N/A |
| 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 | Precipitation (Inches) *CIMIS Data | 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 | 0.04 | | | | | | |
| 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** | 0.04 | | | | | | |

[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 | May |
| 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 | Pasture |
| Crop ET (Inches) | |
| Total Nitrogen Demand (lb/ac) | |
| Anticipated Planting Date | N/A |
| Actual Planting Date | N/A |
| Anticipated Harvest Date | N/A |
| 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 | Precipitation (Inches) *CIMIS Data | 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 | 0.04 | | | | | | |
| 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 | 0.04 | | | | | | |

[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

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

MONTH May
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/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 | 0 | 63 | 14 | 63 | 0 | 0 | 82 | 82 | 119 | 119 | 0 | 82 | 82 | 82 | 82 |
| Cumulative Annual Total Nitrogen Value (lbs/ac/year) | | | 56 | 14 | 26 | 63 | 14 | 63 | 23 | 0 | 82 | 82 | 119 | 119 | 0 | 93 | 93 | 93 | 93 |
| Annual Crop Demand (lbs/ac/year) | | | | | | | | | | | | | | | | | | | |

# Attachment F

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

**MONTHLY MONITORING REPORT : Facility Not Processing, Land Application Monitoring N/A**

| | |
|---|---|
| **MONTH** | May |
| **YEAR** | 2014 |

**LAND APPLICATION AREA WASTEWATER INSPECTION MONITORING**

| | | | |
|---|---|---|---|
| **Field No.** | | **Technician** | |
| **Date** | | **Weather** | |

1. Any evidence of erosion: yes/no_____

2. Berm Condition:_____

3. Standpipe and flow control valve condition_____

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 offsite 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_____

14. Other observations_____

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

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

# Attachment G

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

**MONTHLY MONITORING REPORT**

| | |
|---|---|
| **MONTH** | May |
| **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] |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

[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 | May |
| 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 | | | | | | | | | | | | |
| Week 2 | | | | | | | | | | | | |
| Week 3 | | | | | | | | | | | | |
| Week 4 | 5/21/14 | 8:30 | 4 | 3.9 | | 10 | 9.7 | 9.9 | 3.65 | N/A | N/A | JI |
| Week 5 | | | | | | | | | | | | |

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

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

MONTHLY MONITORING REPORT

MONTH May
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 | | | | | | | | | | | | |
| Week 2 | | | | | | | | | | | | |
| Week 3 | | | | | | | | | | | | |
| Week 4 | 5/21/14 | 8:30 | 4 | 3.9 | | ~~9~~ 10 | 9.7 | 9.9 | 3.65 | NA | NA | JP |
| Week 5 | | | | | | | | | | | | |

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