CLSA

THE MORNING STAR PACKING COMPANY

724 Main Street, Woodland CA 95695

Staff: GJC

Logged in as received: 10/02/2012 SHM

Date reviewed: _____

Violations?: _____

Logged in as received: _____

RECEIVED
SACRAMENTO
CVRWQCB
12 SEP -4 PM 3:35

14 August 2012

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. 95-160.

Dear Mr. Childs:

Tomato processing at the Williams facility commenced on July 24, 2012. The Morning Star Packing Company – Williams has developed procedures to ensure compliance with the Revised Monitoring and Reporting Program No. 95-160.

Consistent with the past seventeen years of data for General Pond Monitoring, a normal decrease in the dissolved oxygen (DO) level in the cooling and settling ponds was observed as processing commences. The average levels of DO found over the past seventeen years in the cooling pond has been 6.1 mg/L and 2.0 mg/L in the settling pond.

The average reading for the level of DO in the cooling pond for July was 4.3 mg/L and ranged from 1.1 mg/L to 7.2 mg/L.

The average reading for the level of DO in the settling pond for July was 4.1 mg/L. As noted on the General Pond Monitoring log, the odor was characterized as minimal tomato smell and was not objectionable at or beyond the property boundaries.

A summary table has been included that provides information on the daily application of washwater and cooling pond water to each field. The drying times and irrigation set times for each field and check can be determined using this table.

Washwater flows to MS 24 are diverted prior to the flow monitoring device (FMD) in the main supply ditch.

Pursuant to the requirements of the Cease and Desist Order, Morning Star installed FMD's at the outlet of the settling pond and at the main supply ditch. Morning Star also installed a new FMD at

the outlet of the cooling pond. These measurement points allow nutrient and hydraulic loading rates to be calculated for the fields.

> *"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

Williams
2211 Old HWY 99
Williams, California
95987

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

Los Banos
13448 Volta Rd
Los Banos, California
93635

Daily weather report for COLUSA.A (CIMIS #32, Colusa)

More about COLUSA.A: Station description; More data: Daily ~ Averages;

Time Period: July 1, 2012 to July 31, 2012, retrieved on August 8, 2012

Note: Only 84% of requested data were available from station COLUSA.A. See retrieval table.

DATE	OBS TIME	PRECIP AMOUNT & TYPE	AIR TEMPERATURE			WIND		ETo	SOL RAD	SOIL T		WX	RELATIVE HUMIDITY		BULB TEMP		PAN EVAP
			MAX	MIN	OBS	DD	SS			MAX	MIN		MAX	MIN	WET	DRY	
MM DD YYYY	HH:MM	(IN)	(F)					(IN)	(LY)	(F)					(F)		(IN)
07-01-2012	23:59	0.00	87	62		SE	5		680	78	73		92.1	32.4			
07-02-2012	23:59	0.00	92	61		SE	5		670	78	73		94.4	38.3			
07-03-2012	23:59	0.00	94	58		SE	4		680	78	74		89.1	29.0			
07-04-2012	23:59	0.00	91	60		SE	5		671	78	74		95.6	29.4			
07-05-2012	23:59	0.00	85	58		SE	7		660	77	73		81.2	36.9			
07-06-2012	23:59	0.00	91	52		SE	4		681	77	72		92.9	26.6			
07-07-2012	23:59	0.00	97	58		SE	3		678	77	73		96.2	18.8			
07-08-2012	23:59	0.00	96	58		SE	4		671	78	73		80.9	25.3			
07-09-2012	23:59	0.00	94	62		SE	4		676	92	74		77.1	22.9			
07-10-2012	23:59	0.00	99	59		E	3		657	84	80		95.1	20.8			
07-11-2012	23:59	0.00	101	63		W	3		656	83	80		93.9	20.9			
07-12-2012	23:59	0.00	98	58	1	SE	5		672 A	83	78 A		96.0	25.5			
07-13-2012	23:59	0.00	89	59		SE	7		671	84	79		82.5	44.7			
07-14-2012	23:59	0.00	86	53		SE	3		667	83	77		95.1	35.8			
07-15-2012	23:59	0.00	92	59		SE	5		652	84	77		92.8	35.8			
07-16-2012	23:59	0.00	82	57		SE	9		675	83	77		86.6	39.3			
07-17-2012	23:59	0.00	75	55		SE	5		485	79	74		92.5	53.4			
07-18-2012	23:59	0.00	82	53		SE	4		650	81	74		94.1	42.3			
07-19-2012	23:59	0.00	84	56		SE	5		621	80	75		95.5	34.1			
07-20-2012	23:59	0.00	91	58		SE	4		663	81	74		89.3	27.8			
07-21-2012	23:59	0.00	98	59		SE	4		663	82	75		97.0	19.8			
07-22-2012	23:59	0.00	103	61		SE	4		650	82	76		95.5	18.8			
07-23-2012	23:59	0.00	90	66		SE	6		617	83	78		76.5	39.8			
07-24-2012	23:59	0.00	91	62		SE	5		660	82	77		74.3	25.5			
07-25-2012	23:59	0.00	91	55		SE	5		657	81	71		83.9	27.5			
07-26-2012	23:59	0.00	89	58		SE	5		608	75	69		83.6	30.0			
07-27-2012	23:59	0.00	87	56		SE	5		656	76	71		88.4	31.4			
07-28-2012	23:59	0.00	89	56		SE	4		649	77	72		91.1	29.0			
07-29-2012	23:59	0.00	91	59		SE	4		646	78	72		84.2	32.7			
07-30-2012	23:59	0.00	96	60		SW	3		640	79	73		91.2	30.9			
07-31-2012	23:59	0.00	96	63		SE	4		637	80	75		84.9	22.7			

31 records listed

The Morning Star Packing Company
General Pond Monitoring
July-12

Cooling Pond TDS and EC Results from 7/30/2012

EC	690	umhos/cm
TDS	475	mg/l
TDS/EC Ratio	0.69	

Cooling Pond Monitoring

Date	pH	Freeboard (ft)	DO mg/l	EC umhos/cm	TDS[1] mg/l	Levee Condition	Water Color	Odors
7/3/12	7.90	3.50	7.2	800	551	Good	Grey/Green	None
7/10/12	7.80	3.67	6.0	720	496	Good	Grey/Green	None
7/18/12	7.20	3.67	4.8	693	477	Good	Grey/Green	None
7/24/12	7.50	3.17	2.4	671	462	Good	Grey/Green	None
7/30/12	7.95	2.75	1.1	667	459	Good	Green/Blue	None
Average	**7.67**	**3.35**	**4.3**	**710**	**489**			

[1] *TDS calculated using TDS/EC ratio.*

Settling Pond Monitoring by Morning Star

Date	pH	Freeboard (ft)	DO mg/l	EC umhos/cm	Levee Condition	Water Color	Odors
7/30/12	4.68	3.2	4.1	945	Good	Brown/Grey	None
Average	**4.68**	**3.2**	**4.1**	**945**			

Settling Pond Effluent Monitoring by Lab

Date	pH	EC umhos/cm	TDS mg/l	FDS mg/l	Settleable Solid ml/l	BOD (5-day) mg/l	Nitrate as Nitrogen mg/l	Nitrate mg/l	Total Kjeldahl Nitrogen mg/l
7/30/12	5.15	1,329	1,040	910	1.2	178	0.0	0.0	83
Average	**5.15**	**1,329**	**1,040**	**910**	**1.2**	**178**	**0.0**	**0.0**	**83**

MORNING STAR

"Excellence Through Commitment"

Field Log: CP/SP # 27 Jon Ikerd Technician:

Date: 7-3-12 Weather: 69

COOLING POND

pH 7.9 EC: 800 umhos/cm Temp: °C 68 °F

Freeboard: 42 inches Time: 0900 (0700-0900 hours)

Sample for dissolved oxygen analysis: Taken with Hach Meter RESULT: 7.2

Levee Condition: Good

Water Color: Grey/Green

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

Other Observations: _____

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.

MORNING STAR

"Excellence Through Commitment"

Field Log: CP/SP # 28 Technician: Jon Ikerd

Date: 7-10-12 Weather: 72

COOLING POND

pH 7.8 EC: 720 umhos/cm Temp: °C 71 °F

Freeboard: 44 inches Time: 0830 (0700-0900 hours)

Sample for dissolved oxygen analysis: Taken with Hach Meter RESULT: 6.0

Levee Condition: Good

Water Color: Grey Green

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

Other Observations: _____

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.

MORNING STAR

"Excellence Through Commitment"

Field Log: CP/SP # 29 Jon Ikerd Technician:

Date: 7-18-12 Weather: ~~B~~ 65

COOLING POND

pH 7.2 EC: 693 umhos/cm Temp: °C 73 °F

Freeboard: 44 inches Time: 0830 (0700-0900 hours)

Sample for dissolved oxygen analysis: Taken with Hach Meter RESULT: 4.8

Levee Condition: Good

Water Color: Grey/Green

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

Other Observations: _____

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.

MORNING STAR

"Excellence Through Commitment"

Field Log: CP/SP # 30 Technician: Jon Ikerd

Date: 7-24-12 Weather: 73

COOLING POND

pH 7.5 EC: 671 umhos/cm Temp: 76 °F ~~°F~~ °F

Freeboard: 38 inches Time: 0836 (0700-0900 hours)

Sample for dissolved oxygen analysis: Taken with Hach Meter RESULT: 2.4

Levee Condition: Good

Water Color: Grey Green

Odors: yes / no Strength: _____ Characteristics: _____

Other Observations: _____

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.

MORNING STAR

"Excellence Through Commitment"

Field Log: CP/SP # 31 Technician: Sean

Date: 7/30/12 Weather: 63°

COOLING POND

pH: 7.95 EC: 667.4 µmhos/cm Temp: 30.6 °C ____ °F

Freeboard: 33 inches Time: 0800 (0700-0900 hours)

HQ10 Hach Portable LDO Dissolved Oxygen Meter (Probe) RESULT: 1.1

Levee Condition: Good

Water Color: Green / Blue

Odors: yes / (no) Strength: N/A Characteristics: N/A

Other Observations: Mess screen running

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

SETTLING POND

pH: 4.68 EC: 945.3 µmhos/cm Temp: 31.7 °C ____ °F

Freeboard: 34 inches Time: 0830 (0700-0900 hours)

HQ10 Hach Portable LDO Dissolved Oxygen Meter (Probe) RESULT: 4.1

Levee Condition: Good

Water Color: Brown / GRAY

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

Other Observations: Airator not working

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

Nachtmann Analytical Laboratory, Inc.

1100 W. Chiles Rd • Davis, CA 95616 • (530) 758-5850 • Fax (530) 758-5870
Mailing Address: P.O. Box 1025 • Davis, CA 95617
E mail: Nachtmannlab@yahoo.com

Analytical Laboratory Report

State DHS Cert. # 1419

Client:

The Morning Star Packing Company.
2211 Old HWY 99
Williams, CA. 95987
Attn: Mike Olivera
12045 South Ingomar Grade Road
Los Banos, California 93635
Date Reporting: 08/06/2012

Sample ID #: Settling Pond and Cooling Pond
Sample Matrix : Effluent
Sampling Date : 07/30/2012
Date Received : 07/30/2012
Sampled By : client
Sample Lab. # :07302012

Analyte	Method #	RL(mg/l)	Sample Results(mg/l)
Settling Pond			
PH	SM 4500-H B	1-14	5.15
EC	SM 2510-B	1.0 umhos/cm	1329. umhos/cm
Total Dissolved Solid (TDS)*	SM 2540-D	5.0	1040.
Fixed Dissolved Solid (FDS)	SM 2540-E	5.0	910
Settleable Solid (SS)	SM 2540-F	1.0ml/l/hr	1.20
(BOD) 5-day	SM 5210-B	0.2	178.
Nitrate as Nitrogen(N-NO3)	SM 4500-NO3E	0.10	ND
Nitrate (NO3)	SM 4500-NO3E	0.4	ND
Total Kjeldahl Nitrogen (TKN)	SM 4500-N C	1.0	83.0
Cooling Pond			
PH	SM 4500-H B	1-14	7.62
EC	SM 2510-B	1.0 umhos/cm	690.
Total Dissolved Solid	SM 2540-D	5.0	475.

* This sample contains large amounts of organic material

Reference : Std. Methods for Examination for Water & Wastewater, 20th Ed. 1998
RL : Reporting Limits
ND : Not Detected at RL
Lab. director : Ahmed Modabber

Nachtmann Analytical Laboratory, Inc.
1100 W Chiles Rd • Davis, CA 95616 • (530) 758-5850 • Fax (530) 758-5870
Mailing Address: P.O. Box 1025 • Davis, CA 95617

CHAIN OF CUSTODY REPORT

CLIENT: Morning Star Packing Co
ADDRESS: 2211 old Hwy 99 Williams CA
PHONE: 530 473 3600
PROJECT NAME/SITE: Morning Star
SAMPLER: Sergio Cervantes
DATE: 7/30/12

REPORT TO:
BILLING TO:
PO#/BILLING REFERENCE:

TURNAROUND TIME: 8 HR. | 24 HR. | 48 HR. | 72 HR. | 5 DAY | 10 DAY | 15 DAY

ANALYSIS REQUESTED: Nitrate

SAMPLE ID#/ STATION	SAMPLE DESCRIPTION	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	Nitrate	REMARKS	SAMPLE NUMBER
SP	settling pond	2	BTL	0830	✓	GCID: No analysis required	
CP	Cooling Pond	2	"	0800	✓		
GCID	GCID natural canal	1	"	0850	✓		

RELINQUISHED BY: Sergio Cervantes — DATE: 7/30/12 — TIME:
RECEIVED BY: [signature] 7/30/12

RELINQUISHED BY: — DATE: — TIME: — RECEIVED BY:

RELINQUISHED BY: — DATE: — TIME: — RECEIVED IN LAB BY:

TRAVEL TIME:
ON SITE TIME:
OTHER:

	YES	NO
WERE SAMPLES: PRESERVED?		
IN GOOD CONDITION?		

The Morning Star Packing Company
Washwater and Fresh Water Flows to Fields
July-12

DATE	TIMES	Flow through Irrigation Ditch		Discharge from Cooling Pond		Discharge from Settling Pond/Gutters [1]		Discharge from GCID Canal
		WATER FLOW		WATER FLOW		WATER FLOW		WATER FLOW
		GPM	GPD	GPM	GPD	GPM	GPD	GPD
7/1/12	15min. Intervals							
7/2/12	15min. Intervals							
7/3/12	15min. Intervals							
7/4/12	15min. Intervals							
7/5/12	15min. Intervals							
7/6/12	15min. Intervals							
7/7/12	15min. Intervals							
7/8/12	15min. Intervals							
7/9/12	15min. Intervals							
7/10/12	15min. Intervals							
7/11/12	15min. Intervals							
7/12/12	15min. Intervals							
7/13/12	15min. Intervals							
7/14/12	15min. Intervals							
7/15/12	15min. Intervals							
7/16/12	15min. Intervals							
7/17/12	15min. Intervals							
7/18/12	15min. Intervals							
7/19/12	15min. Intervals							
7/20/12	15min. Intervals							
7/21/12	15min. Intervals							
7/22/12	15min. Intervals							
7/23/12	15min. Intervals							
7/24/12	15min. Intervals	369	530,977			487	701,428	
7/25/12	15min. Intervals	870	1,252,264			876	1,262,073	
7/26/12	15min. Intervals	1,001	1,441,901			1,000	1,440,085	
7/27/12	15min. Intervals	1,019	1,467,332			1,002	1,442,644	
7/28/12	15min. Intervals	1,140	1,640,921			1,115	1,605,453	
7/29/12	15min. Intervals	1,208	1,739,757			1,198	1,725,372	
7/30/12	15min. Intervals	1,510	2,174,037			1,424	2,051,249	
7/31/12	15min. Intervals	1,479	2,129,930			1,398	2,013,645	
Average		1,074	1,547,140			1,063	1,530,243	
Minimum		369	530,977			487	701,428	
Maximum		1,510	2,174,037			1,424	2,051,249	

[*] Discharge from settling pond/gutters flows used to calcualte Settling Pond Effluent loading rates. Discharge from cooling pond used to calculate cooling pond water nutrient loadings.

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 1

LAND APPLICATION AREA:

	M.S. 1	95.0	acres								
Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)
1	0	0.00	178	1,040	83	0	0.00	551	0	0.00	0.00
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
30	901,335	0.35	178	1,040	83.0	0	0.00	466	0	0.00	0.00
31	884,812	0.34	178	1,040	83.0	0	0.00	466	0	0.00	0.00
	1,786,146	**0.69**				**0**	**0.00**		**0**	**0.00**	**0.00**
	5.5	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**
Percent of Total =	**100%**					**0%**			**0%**		

		BOD Loading		Nitrogen Loading		TDS Loading	
Hydraulic Loading (in)	Total Weight (lbs/day)	Loading Applied (lbs/ac/day)	Total (lbs/day)	Applied (lbs/ac/month)	Total (lbs/day)	Applied (lbs/ac/month)
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.35	1,339	**14**	624	**7**	7,822	**82**
0.34	1,314	**14**	613	**6**	7,679	**81**
0.69	**2,653**	**1 Ave.**	**1,237**	13 Total	**15,501**	163 Total

Cumulative Loading Calculations	**Nitrogen**	**TDS**
Commercial Applications		
July-12	13 lbs/acre	163 lbs/acre
August-12		
September-12		
Total	**13 lbs/acre**	**163 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 2 & 3

LAND APPLICATION AREA:

M.S. 2 & 3 — **82.1** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
24	333,839	0.15	178	1,040	83.0	0	0.00	478	0	0.00	0.00
25	600,673	0.27	178	1,040	83.0	0	0.00	478	0	0.00	0.00
26	685,397	0.31	178	1,040	83.0	0	0.00	478	0	0.00	0.00
27	686,615	0.31	178	1,040	83.0	0	0.00	478	0	0.00	0.00
28	764,103	0.34	178	1,040	83.0	0	0.00	478	0	0.00	0.00
29	1,168,754	0.52	178	1,040	83.0	0	0.00	478	0	0.00	0.00
30	778,943	0.35	178	1,040	83.0	0	0.00	466	0	0.00	0.00
31	764,663	0.34	178	1,040	83.0	0	0.00	466	0	0.00	0.00
	5,782,988	**2.59**				**0**	**0.00**		**0**	**0.00**	**0.00**
	17.7	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**
Percent of Total =	**100%**					**0%**			**0%**		

Day	Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
1	0.00	0	**0**	0	**0**	0	**0**
2	0.00	0	**0**	0	**0**	0	**0**
3	0.00	0	**0**	0	**0**	0	**0**
4	0.00	0	**0**	0	**0**	0	**0**
5	0.00	0	**0**	0	**0**	0	**0**
6	0.00	0	**0**	0	**0**	0	**0**
7	0.00	0	**0**	0	**0**	0	**0**
8	0.00	0	**0**	0	**0**	0	**0**
9	0.00	0	**0**	0	**0**	0	**0**
10	0.00	0	**0**	0	**0**	0	**0**
11	0.00	0	**0**	0	**0**	0	**0**
12	0.00	0	**0**	0	**0**	0	**0**
13	0.00	0	**0**	0	**0**	0	**0**
14	0.00	0	**0**	0	**0**	0	**0**
15	0.00	0	**0**	0	**0**	0	**0**
16	0.00	0	**0**	0	**0**	0	**0**
17	0.00	0	**0**	0	**0**	0	**0**
18	0.00	0	**0**	0	**0**	0	**0**
19	0.00	0	**0**	0	**0**	0	**0**
20	0.00	0	**0**	0	**0**	0	**0**
21	0.00	0	**0**	0	**0**	0	**0**
22	0.00	0	**0**	0	**0**	0	**0**
23	0.00	0	**0**	0	**0**	0	**0**
24	0.15	496	**6**	231	**3**	2,897	**35**
25	0.27	892	**11**	416	**5**	5,213	**63**
26	0.31	1,018	**12**	475	**6**	5,948	**72**
27	0.31	1,020	**12**	476	**6**	5,959	**73**
28	0.34	1,135	**14**	529	**6**	6,631	**81**
29	0.52	1,736	**21**	809	**10**	10,143	**124**
30	0.35	1,157	**14**	539	**7**	6,760	**82**
31	0.34	1,136	**14**	530	**6**	6,636	**81**
	2.59	**8,590**	**3 Ave.**	**4,005**	49 Total	**50,187**	611 Total

Cumulative Loading Calculations

	Nitrogen	TDS
Commercial Applications		
July-12	49 lbs/acre	611 lbs/acre
August-12		
September-12		
Total	**49 lbs/acre**	**611 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 5

LAND APPLICATION AREA:

M.S. 5 **24.6** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)	Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
24	100,030	0.15	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.15	149	6	69	3	868	35
25	179,983	0.27	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.27	267	11	125	5	1,562	63
26	205,369	0.31	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.31	305	12	142	6	1,782	72
27	205,734	0.31	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.31	306	12	142	6	1,785	73
28	228,952	0.34	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.34	340	14	159	6	1,987	81
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00	0.00	0	0	0	0	0	0
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00	0.00	0	0	0	0	0	0
	920,066	**1.38**				**0**	**0.00**		**0**	**0.00**	**0.00**	**1.38**	**1,367**	**2 Ave.**	**637**	26 Total	**7,984**	325 Total
	2.8	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**							
Percent of Total =	**100%**					**0%**			**0%**									

Cumulative Loading Calculations	**Nitrogen**	**TDS**
Commercial Applications		
July-12	26 lbs/acre	325 lbs/acre
August-12		
September-12		
Total	**26 lbs/acre**	**325 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 6

LAND APPLICATION AREA:

M.S. 6 **21.4** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
	0	**0.00**				**0**	**0.00**		**0**	**0.00**	**0.00**
	0.0	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**
Percent of Total =	**#DIV/0!**					**#DIV/0!**			**#DIV/0!**		

Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	**0**	**0 Ave.**	**0**	0 Total	**0**	0 Total

Cumulative Loading Calculations

	Nitrogen	TDS
Commercial Applications		
July-12	0 lbs/acre	0 lbs/acre
August-12		
September-12		
Total	**0 lbs/acre**	**0 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 11

LAND APPLICATION AREA:

M.S. 11 **35.6** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)	Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00	0.00	0	**0**	0	**0**	0	**0**
	0	**0.00**				**0**	**0.00**		**0**	**0.00**	**0.00**	**0.00**	**0**	**0 Ave.**	**0**	0 Total	**0**	0 Total
	0.0	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**							
Percent of Total =	**#DIV/0!**					**#DIV/0!**			**#DIV/0!**									

Cumulative Loading Calculations

	Nitrogen	TDS
Commercial Applications		
July-12	0 lbs/acre	0 lbs/acre
August-12		
September-12		
Total	**0 lbs/acre**	**0 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 14

LAND APPLICATION AREA:

	M.S. 14	44.5	acres								
Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
	0	**0.00**				**0**	**0.00**		**0**	**0.00**	**0.00**
	0.0	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**
Percent of Total =	**#DIV/0!**					**#DIV/0!**			**#DIV/0!**		

Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	0	0	0	0	0	0
0.00	**0**	**0 Ave.**	**0**	0 Total	**0**	0 Total

Cumulative Loading Calculations	Nitrogen	TDS
Commercial Applications		
July-12	0 lbs/acre	0 lbs/acre
August-12		
September-12		
Total	**0 lbs/acre**	**0 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 15

LAND APPLICATION AREA:

	M.S. 15	26.7	acres								
Day	**Settling Pond Effluent Applied (gal)**	**Settling Pond Effluent Applied (in)**	**BOD Ave. Applied (mg/l)**	**TDS Ave. Applied (mg/l)**	**Nitrogen Ave. Applied (mg/l)**	**Cooling Pond Effluent Applied (gal)**	**Cooling Pond Effluent Applied (in)**	**TDS Ave. Applied (mg/l)**	**Fresh Irrigation (gal)**	**Fresh Irrigation (in)**	**Rainfall (in)**
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
24	108,569	0.15	178	1,040	83.0	0	0.00	478	0	0.00	0.00
25	195,347	0.27	178	1,040	83.0	0	0.00	478	0	0.00	0.00
26	222,900	0.31	178	1,040	83.0	0	0.00	478	0	0.00	0.00
27	223,296	0.31	178	1,040	83.0	0	0.00	478	0	0.00	0.00
28	248,496	0.34	178	1,040	83.0	0	0.00	478	0	0.00	0.00
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
	998,608	**1.38**				**0**	**0.00**		**0**	**0.00**	**0.00**
	3.1	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**
Percent of Total =	**100%**					**0%**			**0%**		

		BOD Loading		Nitrogen Loading		TDS Loading	
Hydraulic Loading (in)	**Total Weight (lbs/day)**	**Loading Applied (lbs/ac/day)**	**Total (lbs/day)**	**Applied (lbs/ac/month)**	**Total (lbs/day)**	**Applied (lbs/ac/month)**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.15	161	**6**	75	**3**	942	**35**
0.27	290	**11**	135	**5**	1,695	**63**
0.31	331	**12**	154	**6**	1,934	**72**
0.31	332	**12**	155	**6**	1,938	**73**
0.34	369	**14**	172	**6**	2,156	**81**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
1.38	**1,483**	**2 Ave.**	**691**	26 Total	**8,665**	325 Total

Cumulative Loading Calculations	**Nitrogen**	**TDS**
Commercial Applications		
July-12	26 lbs/acre	325 lbs/acre
August-12		
September-12		
Total	**26 lbs/acre**	**325 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 16 & 17

LAND APPLICATION AREA:

M.S. 16 & 17 — **36.7** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
	0	**0.00**				**0**	**0.00**		**0**	**0.00**	**0.00**
	0.0 ac-ft					**0.0** ac-ft			**0.0** ac-ft		**0.0**
Percent of Total =	**#DIV/0!**					**#DIV/0!**			**#DIV/0!**		

Hydraulic Loading (in)	BOD Loading: Total Weight (lbs/day)	BOD Loading: Loading Applied (lbs/ac/day)	Nitrogen Loading: Total (lbs/day)	Nitrogen Loading: Applied (lbs/ac/month)	TDS Loading: Total (lbs/day)	TDS Loading: Applied (lbs/ac/month)
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	**0**	**0 Ave.**	**0**	0 Total	**0**	0 Total

Cumulative Loading Calculations	**Nitrogen**	**TDS**
Commercial Applications		
July-12	0 lbs/acre	0 lbs/acre
August-12		
September-12		
Total	**0 lbs/acre**	**0 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 18 Check 1

LAND APPLICATION AREA: M.S. 18 Ch1 **39.1** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
24	158,990	0.15	178	1,040	83.0	0	0.00	478	0	0.00	0.00
25	286,070	0.27	178	1,040	83.0	0	0.00	478	0	0.00	0.00
26	326,419	0.31	178	1,040	83.0	0	0.00	478	0	0.00	0.00
27	326,999	0.31	178	1,040	83.0	0	0.00	478	0	0.00	0.00
28	363,903	0.34	178	1,040	83.0	0	0.00	478	0	0.00	0.00
29	556,617	0.52	178	1,040	83.0	0	0.00	478	0	0.00	0.00
30	370,970	0.35	178	1,040	83.0	0	0.00	466	0	0.00	0.00
31	364,170	0.34	178	1,040	83.0	0	0.00	466	0	0.00	0.00
	2,754,139	**2.59**				**0**	**0.00**		**0**	**0.00**	**0.00**
	8.5	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**
Percent of Total =	**100%**					**0%**			**0%**		

Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.15	236	**6**	110	**3**	1,380	**35**
0.27	425	**11**	198	**5**	2,483	**64**
0.31	485	**12**	226	**6**	2,833	**72**
0.31	486	**12**	226	**6**	2,838	**73**
0.34	541	**14**	252	**6**	3,158	**81**
0.52	827	**21**	386	**10**	4,830	**124**
0.35	551	**14**	257	**7**	3,219	**82**
0.34	541	**14**	252	**6**	3,160	**81**
2.59	**4,092**	**3 Ave.**	**1,907**	49 Total	**23,901**	611 Total

Cumulative Loading Calculations	**Nitrogen**	**TDS**
Commercial Applications		
July-12	49 lbs/acre	611 lbs/acre
August-12		
September-12		
Total	**49 lbs/acre**	**611 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 18 Check 2

LAND APPLICATION AREA: M.S. 18 Ch2 **39.1** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
	0	**0.00**				**0**	**0.00**		**0**	**0.00**	**0.00**
	0.0	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**
Percent of Total =	**#DIV/0!**					**#DIV/0!**			**#DIV/0!**		

Day	Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
1	0.00	0	**0**	0	**0**	0	**0**
2	0.00	0	**0**	0	**0**	0	**0**
3	0.00	0	**0**	0	**0**	0	**0**
4	0.00	0	**0**	0	**0**	0	**0**
5	0.00	0	**0**	0	**0**	0	**0**
6	0.00	0	**0**	0	**0**	0	**0**
7	0.00	0	**0**	0	**0**	0	**0**
8	0.00	0	**0**	0	**0**	0	**0**
9	0.00	0	**0**	0	**0**	0	**0**
10	0.00	0	**0**	0	**0**	0	**0**
11	0.00	0	**0**	0	**0**	0	**0**
12	0.00	0	**0**	0	**0**	0	**0**
13	0.00	0	**0**	0	**0**	0	**0**
14	0.00	0	**0**	0	**0**	0	**0**
15	0.00	0	**0**	0	**0**	0	**0**
16	0.00	0	**0**	0	**0**	0	**0**
17	0.00	0	**0**	0	**0**	0	**0**
18	0.00	0	**0**	0	**0**	0	**0**
19	0.00	0	**0**	0	**0**	0	**0**
20	0.00	0	**0**	0	**0**	0	**0**
21	0.00	0	**0**	0	**0**	0	**0**
22	0.00	0	**0**	0	**0**	0	**0**
23	0.00	0	**0**	0	**0**	0	**0**
24	0.00	0	**0**	0	**0**	0	**0**
25	0.00	0	**0**	0	**0**	0	**0**
26	0.00	0	**0**	0	**0**	0	**0**
27	0.00	0	**0**	0	**0**	0	**0**
28	0.00	0	**0**	0	**0**	0	**0**
29	0.00	0	**0**	0	**0**	0	**0**
30	0.00	0	**0**	0	**0**	0	**0**
31	0.00	0	**0**	0	**0**	0	**0**
	0.00	**0**	**0 Ave.**	**0**	0 Total	**0**	0 Total

Cumulative Loading Calculations

	Nitrogen	TDS
Commercial Applications		
July-12	0 lbs/acre	0 lbs/acre
August-12		
September-12		
Total	**0 lbs/acre**	**0 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 20 Check 1

LAND APPLICATION AREA:

M.S. 20 Ch1 **32.3** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
	0	**0.00**				**0**	**0.00**		**0**	**0.00**	**0.00**
	0.0	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**
Percent of Total =	**#DIV/0!**					**#DIV/0!**			**#DIV/0!**		

Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	**0**	**0 Ave.**	**0**	0 Total	**0**	0 Total

Cumulative Loading Calculations

	Nitrogen	TDS
Commercial Applications		
July-12	0 lbs/acre	0 lbs/acre
August-12		
September-12		
Total	**0 lbs/acre**	**0 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 20 Check 2

LAND APPLICATION AREA:

M.S. 20 Ch2 **32.3** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00
	0	**0.00**				**0**	**0.00**		**0**	**0.00**	**0.00**
	0.0	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**
Percent of Total =	**#DIV/0!**					**#DIV/0!**			**#DIV/0!**		

Hydraulic Loading (in)	BOD Loading: Total Weight (lbs/day)	BOD Loading: Loading Applied (lbs/ac/day)	Nitrogen Loading: Total (lbs/day)	Nitrogen Loading: Applied (lbs/ac/month)	TDS Loading: Total (lbs/day)	TDS Loading: Applied (lbs/ac/month)
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	0	**0**	0	**0**	0	**0**
0.00	**0**	**0 Ave.**	**0**	0 Total	**0**	0 Total

Cumulative Loading Calculations	**Nitrogen**	**TDS**
Commercial Applications		
July-12	0 lbs/acre	0 lbs/acre
August-12		
September-12		
Total	**0 lbs/acre**	**0 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 21

LAND APPLICATION AREA:

M.S. 21 **25.9** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)	Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00	0.00	0	0	0	0	0	0
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00	0.00	0	0	0	0	0	0
	0	**0.00**				**0**	**0.00**		**0**	**0.00**	**0.00**	**0.00**	**0**	**0 Ave.**	**0**	0 Total	**0**	0 Total
	0.0	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**							
Percent of Total =	**#DIV/0!**					**#DIV/0!**			**#DIV/0!**									

Cumulative Loading Calculations

	Nitrogen	TDS
Commercial Applications		
July-12	0 lbs/acre	0 lbs/acre
August-12		
September-12		
Total	**0 lbs/acre**	**0 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 24 Check 1

LAND APPLICATION AREA:

M.S. 24 Ch1 **79.9** acres

Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)	Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00	0.00	0	0	0	0	0	0
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00	0.00	0	0	0	0	0	0
	0	**0.00**				**0**	**0.00**		**0**	**0.00**	**0.00**	**0.00**	**0**	**0 Ave.**	**0**	0 Total	**0**	0 Total
	0.0	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**							
Percent of Total =	**#DIV/0!**					**#DIV/0!**			**#DIV/0!**									

Cumulative Loading Calculations

	Nitrogen	TDS
Commercial Applications		
July-12	0 lbs/acre	0 lbs/acre
August-12		
September-12		
Total	**0 lbs/acre**	**0 lbs/acre**

The Morning Star Packing Company
Water & Constituent Loading Calculations
Field: M. S. 24 Check 2

LAND APPLICATION AREA:

	M.S. 24 Ch2	79.9	acres																
Day	Settling Pond Effluent Applied (gal)	Settling Pond Effluent Applied (in)	BOD Ave. Applied (mg/l)	TDS Ave. Applied (mg/l)	Nitrogen Ave. Applied (mg/l)	Cooling Pond Effluent Applied (gal)	Cooling Pond Effluent Applied (in)	TDS Ave. Applied (mg/l)	Fresh Irrigation (gal)	Fresh Irrigation (in)	Rainfall (in)	Hydraulic Loading (in)	BOD Loading Total Weight (lbs/day)	BOD Loading Loading Applied (lbs/ac/day)	Nitrogen Loading Total (lbs/day)	Nitrogen Loading Applied (lbs/ac/month)	TDS Loading Total (lbs/day)	TDS Loading Applied (lbs/ac/month)
1	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
2	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
3	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
4	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
5	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
6	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
7	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
8	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
9	0	0.00	178	1,040	83.0	0	0.00	551	0	0.00	0.00	0.00	0	0	0	0	0	0
10	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
11	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
12	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
13	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
14	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
15	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
16	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
17	0	0.00	178	1,040	83.0	0	0.00	523	0	0.00	0.00	0.00	0	0	0	0	0	0
18	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
19	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
20	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
21	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
22	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
23	0	0.00	178	1,040	83.0	0	0.00	508	0	0.00	0.00	0.00	0	0	0	0	0	0
24	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
25	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
26	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
27	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
28	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
29	0	0.00	178	1,040	83.0	0	0.00	478	0	0.00	0.00	0.00	0	0	0	0	0	0
30	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00	0.00	0	0	0	0	0	0
31	0	0.00	178	1,040	83.0	0	0.00	466	0	0.00	0.00	0.00	0	0	0	0	0	0
	0	**0.00**				**0**	**0.00**		**0**	**0.00**	**0.00**	**0.00**	**0**	**0 Ave.**	**0**	0 Total	**0**	0 Total
	0.0	**ac-ft**				**0.0**	**ac-ft**		**0.0**	**ac-ft**	**0.0**							
Percent of Total =	**#DIV/0!**					**#DIV/0!**			**#DIV/0!**									

Cumulative Loading Calculations

	Nitrogen	TDS
Commercial Applications		
July-12	0 lbs/acre	0 lbs/acre
August-12		
September-12		
Total	**0 lbs/acre**	**0 lbs/acre**

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **PRE**-Application Inspection Observations:

Field No: # MS 1 Technician: Sergio

Date: 7/29/12 Weather: Sunny 72°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps Working
4. Are the valves being used properly: (yes) no _____
5. Is there any soil saturation: yes / (no) N
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: Sunny 72° No wind
14. Other observations: Grass Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS1 Technician: Sergio

Date: 7/30/12 Weather: Sunny 73°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps working
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: Sunny 73° Nowind
14. Other observations: Grass Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: #MS1 Technician: Sergio

Date: 7/31/12 Weather: Sunny 72°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps Working
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: Sunny 72° Wind SSW 2mph
14. Other observations: Grass Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **PRE**-Application Inspection Observations:

Field No: # MS 2-3 Technician: Sergio

Date: 7/24/12 Weather: Sunny 70

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps used correctly
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: Sunny 70° No Wind
14. Other observations: Grass Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # Ms 2-3 Technician: Sergio

Date: 7/25/12 Weather: Sunny 69°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps
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: Sunny 69° No Wind
14. Other observations: Grass Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS 2-3 Technician: Sergio

Date: 7/26/12 Weather: Sunny 70°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps
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: Sunny 70° No Wind
14. Other observations: Grass Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # Ms 2-3 Technician: Sergio

Date: 7/27/12 Weather: Sunny 68°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps
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: Sunny 68° No Wind
14. Other observations: Grass Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS 2-3 Technician: Sergio

Date: 7/28/12 Weather: Sunny 62

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift Pumps
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: Sunny 62° No Wind
14. Other observations: Grass Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # Ms 2-3 Technician: Sergio

Date: 7/29/12 Weather: Sunny 72°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition GOOD
3. Standpipe and flow control valve condition N/A Lift Pumps Working
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: Sunny 72° Nowind
14. Other observations: Grass looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # Ms 2-3 Technician: Sergio

Date: 7/30/12 Weather: Sunny 73°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition GOOD
3. Standpipe and flow control valve condition N/A Lift Pumps Working
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: Sunny 73° No Wind
14. Other observations: Grass looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: #Ms 2-3 Technician: Sergio

Date: 7/31/12 Weather: Sunny 72°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition GOOD
3. Standpipe and flow control valve condition N/A Lift Pumps Working
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: Sunny 72° - 2mph SSW
14. Other observations: Grass looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **PRE**-Application Inspection Observations:

Field No: # MS 5 Technician: Sergio

Date: 7/24/12 Weather: Sunny 70

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps used correctly
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: Sunny 70° no wind
14. Other observations: pasture looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: #MS-5 Technician: Sergio

Date: 7/25-12 Weather: Sunny 69°

1. Any evidence of erosion: yes / (no)
2. Berm Condition GOOD
3. Standpipe and flow control valve condition N/A Lift Pumps
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: Sunny 69° No wind
14. Other observations: PASTURE LOOKS GOOD

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS5 Technician: Sergio

Date: 7/26/12 Weather: Sunny 70°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps Working
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: Sunny 70° No Wind
14. Other observations: pasture Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: #MS5 Technician: Sergio

Date: 7/27/12 Weather: Sunny 68°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift Pumps
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: Sunny 68° No Wind
14. Other observations: Pasture looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS 5 Technician: Sergio

Date: 7/28/12 Weather: Sunny 62°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps
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: Sunny 62° No Wind
14. Other observations: PASTURE LOOKS GOOD

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **POST**-Application Inspection Observations:

Field No: # MS 5 . Technician: Sergio

Date: 7/29/12 Weather: Sunny 72°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps Working
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: Sunny 72° No Wind
14. Other observations: Pasture Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **PRE**-Application Inspection Observations:

Field No: # MS 15 Technician: Sergio

Date: 7/24/12 Weather: Sunny 70°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good _____
3. Standpipe and flow control valve condition N/A / Lift pums _____
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: Sunny 70° No Wind
14. Other observations: Pasture Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS 15 Technician: Sergio

Date: 7/25/12 Weather: Sunny 69°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good _____
3. Standpipe and flow control valve condition N/A Lift pumps Working
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: Sunny 69° No Wind
14. Other observations: Pasture looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS15 Technician: Sysco

Date: 7/26/12 Weather: Sunny 70°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps working
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: Sunny 76° No wind
14. Other observations: PASTURE LOOKS GOOD

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS 15 Technician: Sergio

Date: 7/27/12 Weather: Sunny 68°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition GOOD
3. Standpipe and flow control valve condition N/A Lift pumps Working
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: Sunny 68° No Wind
14. Other observations: PASTURE LOOKS GOOD

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS 15 Technician: Sergio

Date: 7/28/09 Weather: Sunny 62

1. Any evidence of erosion: yes / (no)
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift Pumps
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: Sunny 62° No Wind
14. Other observations: Pasture Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **POST**-Application Inspection Observations:

Field No: #MS 15 Technician: Sergio

Date: 7/29/12 Weather: Sunny 72°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps Working
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: Sunny 72° No Wind
14. Other observations: pastures look Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **PRE**-Application Inspection Observations:

Field No: # MS 18cl Technician: Sergio

Date: 7/24/12 Weather: Sunny 70°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good _____
3. Standpipe and flow control valve condition N/A Lift pumps Working
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: Sunny 70° No wind
14. Other observations: Pasture Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS 18 ch1 Technician: Sergio

Date: 7/25/12 Weather: Sunny 69

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift Pumps Working
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: Sunny 69° No wind
14. Other observations: Pasture Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS 18ch 1 Technician: Sergio

Date: 7/26/12 Weather: Sunny 70°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition W/A Lift Pumps Working
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: Sunny 70° No Wind
14. Other observations: PASTURE LOOKS GOOD

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: #MS18Ch1 Technician: SVSC

Date: 7/27/12 Weather: Sunny 68°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps working
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: Sunny 68° No Wind
14. Other observations: Pasture Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS18ch1 Technician: Sergio

Date: 7/28/12 Weather: Sunny 68°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good _____
3. Standpipe and flow control valve condition N/A Lift pumps Working
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: Sunny 68° No wind
14. Other observations: PASTURE Looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # MS 18ch1 Technician: Sergio

Date: 7/29/17 Weather: Sunny 72°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps Working
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: Sunny 72° No wind
14. Other observations: pasture looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: #MS1864 Technician: Sergio

Date: 7/30/12 Weather: Sunny 73

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition WIA Lift pumps Working
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: Sunny 73° No wind
14. Other observations: pasture looks Good

MORNING STAR

"Excellence Through Commitment"

LAND APPLICATION AREA MONITORING

Daily **DURING**-Application Inspection Observations:

Field No: # Ms 18ch1 Technician: Sergio

Date: 7/31/12 Weather: Sunny 72°

1. Any evidence of erosion: yes / (no) _____
2. Berm Condition Good
3. Standpipe and flow control valve condition N/A Lift pumps working
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: Sunny 72° Wind 2mph SSW
14. Other observations: _____