General Facility Information	
	Please type information into the cells below.
Permit No. (NPDES permit if applicable)	**CA0024449**
Facility Name	Elk River Wastewater Treatment Plant
Authority Name	City of Eureka
Regional Board Number (California only)	1
Facility Physical Address	
Street	4301 Hilfiker Lane
City	Eureka
County	Humboldt
State or Tribal Nation	California
Zip Code	95503
Phone	707-441-4360
Facility Mailing Address	
Street	531 K Street
City	Eureka
State	California
Zip Code	95501
Responsible Official	
Name	Bruce Gehrke
Title	Utilities Operations Manager
Biosolids Contact Person	
Name	Bruce Gehrke
Title	Utility Operations Manager
E-mail	bgehrke@ci.eureka.ca.gov
Phone	707.441.4360
Fax	707-441-4366
Average Daily Influent Flow to plant, millions of gallons per day (MGD) (if this is a wastewater treatment plant)	5.2
Annual biosolids production, in dry metric tons per year (DMTY), 100% dry weight basis	419.02
Does this facility have a design capacity equal to or greater than 1 million gallons per day (MGD)? (Y/N)	Y
Is Pretreatment Required? (Y/N)	Y
Is this a "sludge-only" facility (no treatment of wastewater)? (Y/N)	N
Does the facility send biosolids out of county? (Y/N). If so, list counties to which sent (one entry per column), and volume (DMTY) sent.	Y
Volume, dry metric tons/year sent to other county	419.02
Name of county	Sacramento
Name of state or tribal nation	
Type of facility (enter code(s) listed below that pertains to your facility on this line)	
Publicly owned treatment works: POTW	POTW
Federal Facility: FOTW	
State Facility: SOTW	
Privately owned treatment works: PROTW	
Compost operation: Comp	
Alkali treatment operation: Alk	
Heat drying operation: Htdry	
Land application operation: Land	
Other (fill in):	

Description of processes

Give a brief description of your sewage sludge treatment and use/disposal practices

Anaerobic digestion followed by storage in facultative sludge lagoons.
Solids mechanically de-watered using polymer under contract by SYNAGRO
Processed as ADC by SYNAGRO.

Describe any changes to your operations, any unique features or operational issues encountered during past year

Both anaerobic digesters were cleaned and 101.13 DMT tons removed (Part of the 419.02 total) and landfilled by Synagro

6.6 DMT in storage was removed and land applied by Synagro as part of the 2012 contract.

One (south) of the Two Lagoons had 317.89 DMT Removed and the Materail was Land Applied by Synagro.

Describe any instances of non-compliance and measures taken to correct it.

Contractors	
Please include all contractors used for biosolids land application, treatment, disposal, and hauling this year. (Add additional rows if m	
	Please type information into this column.
Contractor 1	
Name	SYNAGRO
Street	3845 Bithell Lane
City	Suisun City
State	CA
County of Operations	Solano
Zip Code	94585
Contact Name	John Pugliaresi
Contact Phone	650-652-6531
Contact e-mail	jpugliaresi@synagro.com
Type of operation(s)	De-water, haul, and dispose.
Dry metric tons handled	419.02
Contractor 2	
Name	
Street	
City	
State	
County of Operations	
Zip Code	
Contact Name	
Contact Phone	
Contact e-mail	
Type of operation(s)	
Dry metric tons handled	
Contractor 3	
Name	
Street	
City	
State	
County of Operations	
Zip Code	
Contact Name	
Contact Phone	
Contact e-mail	
Type of operation(s)	
Dry metric tons handled	

BIOSOLIDS TREATMENT PROVIDED	

For each treatment type, please indicate which method(s) your facility uses to treat its solids. For example, if three anaerobic digesters are used, enter the code for anaerobic digesters followed by the number three in parentheses. The number entered will look like 6(3). If more than one method is used for each process, please separate the codes with commas. For example, if 3 digesters, 2 centrifuges, and 10 drying beds are being used, enter 6(3), 18(10), 21(2).

	Type the thickening code(s) into the box below:
THICKENING	4(2ea) Facultative sludge lagoons
Codes to use for thickening:	
1. Gravity	
2. Dissolved-Air Flotation (DAF)	
3. Centrifuge (enter number of centrifuges in use)	
4. Other (briefly describe in the cell to the right of the "Thickening" code box)	
	Type the stabilization code(s) into the box below:
Stabilization/Pathogen Reduction	12 (2)Facultative sludge lagoons
Codes to use for stabilization:	
5. Aerobic Digestion	
6. Thermophilic aerobic digestion	
7. Anaerobic Digestion	7(2) Digesters
8. Thermophilic anaerobic digestion	
9. Pasteurization	
10. Chemical (Alkali) Stabilization	
11. Composting	
12. Other (briefly describe in the cell to the right of the "Stabilization" code box)	
	Type the conditioning code(s) into the box below:
CONDITIONING	13 Cationic Polymer
Codes to use for conditioning:	
13. Chemical Conditioning (add type of polymer to right of code box)	
14. Other (briefly describe in the cell to the right of the "Conditioning" code box)	
	Type dewatering code(s) into the box below:
DEWATERING	17 and 21 Synagro
Codes to use for dewatering:	
15. Vacuum Filter	
16. Pressure Filter	
17. Belt Filter	
18. Drying Beds	
19. Drying Lagoon	
20. Heat Drying Units	
21. Centrifuge	
22. Other (briefly describe in the cell to the right of the "Dewatering" code box)	
	Type other applicable code(s) into the box below:
OTHER	23 (2)
Codes to use for "other":	
23. Wastewater Lagoon	
24. Oxidation Ditch	
25. Incineration	
26. Fuel (briefly describe in cell to the right of the "other" code box)	
27. Septage	
28. Other (briefly describe in the cell to the right of the "Other" code box)	

Final Use and Disposal Practices

Total Annual Production	Please type amount in the cell below. Weight units must be Dry Metric Tons (DMT), 100% dry weight basis. Composters specify biosolids received in this column
	419

Land application is spreading or injection of Class A or Class B biosolids, or materials derived from biosolids, for the purpose of growing crops or vegetation.

Land Application of Class B biosolids:	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons for the Year (DMTY).
Agricultural Land	324.49
Range Land	
Forest	
Public Contact Site	
Reclamation Site	
Land Application of Class A biosolids:	
Agricultural Land	
Range Land	
Forest	
Public Contact Site	
Reclamation Site	
Sold or Given Away	
Lawn or Garden	

Surface disposal is spreading, injection, or filling for the purpose of disposal. It includes sludge-only units at landfills.

SURFACE DISPOSAL	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons for the Year (DMTY).
With Liner & LCS	
Without Liner & LCS	

LANDFILL	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons (DMT).
Landfill Disposal	101.13
Landfill Cover (ADC or final)	
Landfill Name	Anderson
Does Landfill meet 40CFR258? (Y/N)	Y

LANDFILL	Please type amounts in the cells below, to the right of each
Landfill Disposal	
Landfill Cover (ADC or final)	
Landfill Name	
Does Landfill meet 40CFR258? (Y/N)	

RECEIVED FROM ANOTHER FACILITY	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons per year (DMTY).
Amount Received From Other Faciliteis	
Name of facility (fill out a column for each facility)	
Address of facility	
Type of facility (POTW, other)	

TRANSFERRED TO ANOTHER FACILITY	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons (DMT).
Amount Transferred To Other Facilities	
Name of the other facility	
Address of facility	
Type of facility (POTW, composter, other)	

ADDITIONAL INFORMATION	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons (DMT).
Amount Subjected to Other Use or Disposal	6.6 DMT from 2010 in drying shed was disposed
If applicable, please specify the other use or disposal METHOD in the cell to the right:	by Synagro using land application
Amount Stored	
Amount in Long-Term Treatment	3000 DMT in Lagoons

LAND APPLICATION SITE INFORMATION

Please See Synagro Report

If your facility or a contractor applies biosolids to the land, please enter the requested information in this sheet.
Please copy this sheet and fill it in for each individual field.

	Please type information in the cells below.
Site Name	
Site Number (Field Identification Number)	
Hydrologic Unit (if known)	
Owner	
Grower	
Applier	
Latitude	
Longitude	
Street Address (if applicable)	
Township	
Range	
Section	
Overall size of the field	
Applied area of the field	
Crop	
Maximum Rate (MT/HA)	
Cumulative Load Required? (Y/N)	
Notification Required? (Y/N)	

Please enter either English or Metric Units for the items below.	English Units		Metric Units	
	Value	Unit	Value	Unit
Application Rate		tons/acres		MT/Ha
Recommended N for Crop		lbs/acre		Kg/Ha
Plant Available N (PAN)		lbs/dry ton		Kg/metric ton
Total Biosolids Applied		dry tons		dry metric tons
Actual Application Rate		dry tons/acre		dry metric tons/Ha
Target Application Rate		dry tons/acre		dry metric tons/Ha
Total Recommended N		lbs/acre/cutting		Kg/Ha
Total Applied N		lbs/field		Kg/field
Percent of Recommended N		%		%
P Applied		lbs/field		Kg/field
K Applied		lbs/field		Kg/field

Dates of Operation	Start Date	Finish Date
Dates of Application		
Dates of Seeding		
Dates of Harvesting		

Cumulative Metal Loadings (Kg/Ha):	Enter the Baseline values in the cells below	Enter the year in the cell below, then fill in the column	Enter the year in the cell below, then fill in the column	Enter the year in the cell below, then fill in the column	Enter the year in the cell below, then fill in the column	Enter the year in the cell below, then fill in the column
As maximum						
Cd average						
Cd maximum						
Cu average						
Cu maximum						
Pb average						
Pb maximum						
Hg average						
Hg maximum						
Mo average						
Mo maximum						
Ni average						
Ni maximum						
Se average						
Se maximum						
Zn average						
Zn maximum						

Land Location
Please See Synagro Report

Please give the location of this field in either degrees, minutes, seconds OR decimal degrees.

Example of Latitude in degrees, minutes and seconds: 36 22 30.51 (please include all available significant decimals)

Example of Longitude in degrees, minutes and seconds: 109 07 30.32 (please include all available significant decimals)

	Degrees	Minutes	Seconds
Latitude in Degrees, Minutes and Seconds:			
Longitude in Degrees, Minutes and Seconds:			

Example of Latitude in Decimal Degrees:36.37514167 (please include all available significant decimals)

Example of Longitude in Decimal Degrees:109.1250889 (please include all available significant decimals)

Latitude in Decimal Degrees:	
Longitude in Decimal Degrees:	

Please select a code number from the table below that best describes at what place in this field the latitude and longitude values were obtained. For example, if the latitude and longitude where measured in the center of the facility property, the code 020 would be used. Please type the code in the cell to the right.	Reference Point Code:

Reference Point Code Description	Reference Point Code Number
NE Corner of Land Parcel	
NW Corner of Land Parcel	
SE Corner of Land Parcel	
SW Corner of Land Parcel	
Other	
Unknown	

	Collection Method Code:
Please select a code number from the table below that best describes how the latitude and longitude values were obtained. For example, if the measurement was taken from a topographic map, the code would be 018. Please type the appropriate code in the cell to the right.	

Collection Method Code Description	Collection Method Code Number
Address Matching	007
Classical Surveying Techniques	025
Global Positioning System (GPS)	028
Interpolation - Map	018
Interpolation - Photo	019
Public Land Survey - Quarter Section	023
Public Land Survey - Section	024
Unknown	027

	Source Map Scale:
If you used Collection Method Codes 018 or 019, please enter the map scale of the map that was used. For example, if a US Geological Survey topographic map was used to find the location, and that map was created at a 1:24,000-scale, please enter 24000. (Note: map scale is a ratio that refers to the proportional distance on the ground for one unit of measure on a map or aerial photograph - e.g., 1 inch on the map equals 24,000 inches on the ground.) If the map scale is not known, please type UNKNOWN. Please enter the information in the cell to the right.	UNKNOWN

	Data Collection Date:
Please enter the calendar date when the location data were collected, in mm/dd/yyyy format in the cell to the right (if the date is not known, please type UNKNOWN):	UNKNOWN

MONITORING DATA SUMMARY

Testing Conducted by City of Eureaka Shown Below

Final Use/Disposal Practice	Please enter information into this column.
How many biosolids analyses is this facility required to perform per monitoring year? (Please refer to the "Required Monitoring Frequency" table at right)	1
Are reported results represented on a 100% dry weight basis? (Y/N)	Y
Are fecal coliform results the geometric mean of 7 samples, if used for demonstratrating Class B pathogen reduction (Y/N)	N
If biosolids were land applied, were all the following metals sampled: As, Cd, Cu, Pb, Hg, Mo, Ni, Se, Zn? (Y/N/NA)	Y
If biosolids were surface disposed, were all the following metals sampled: As, Cr, and Ni? (Y/N/NA)	N/A

Testing Conducted by Synagro is shown as attachemtns sent with this document

Required Monitoring Frequency (Source: 40 CFR, Part 503)

Biosolids Production (DMT/yr)	Required Monitoring Frequency
0 to <290	Once per year (1/yr)
290 to <1500	Once per quarter (4 samples/stockpile)
1500 to <15,000	Once per 60 days (6 samples /stockpile)
greater than or equal to 15,000	Once per month (12 samples/stockpile)

Pollutants: Please enter data in the cells to the right of each sampled pollutant type. Please use the indicated units for each pollutant type, in dry weight only. Report on 100% dry weight basis.	Units	Yearly Average	Yearly Maximum	Analyses per Year	Comments / Methods Used
Arsenic (As)	mg/Kg	5.3	5.3	1	EPA 6010B
Cadmium (Cd)	mg/Kg	7.6	7.6	1	EPA 6010B
Chromium (Cr)	mg/Kg	40	40	1	EPA 6010B
Copper (Cu)	mg/Kg	1120	1120	1	EPA 6010B
Lead(Pb)	mg/Kg	65	65	1	EPA 6010B
Mercury (Hg)	mg/Kg	0.67	0.67	1	EPA 7471A
Molybdenum (Mo)	mg/Kg	15	15	1	EPA 6010B
Nickel (Ni)	mg/Kg	32	32	1	EPA 6010B
Selenium (Se)	mg/Kg	6.7	6.7	1	EPA 6010B
Zinc (Zn)	mg/Kg	1440	1440	1	EPA 6010B
Fecal Coliform	MPN/g	43,000	43,000	1	SM9221
Salmonella	MPN/4g			0	
Helminth OVA	#/4g			0	
Enteric Virus	PFU/4g			0	
Nitrite & Nitrate (NO2 & NO3)	mg/Kg	6.7	6.7	1	EPA 300.0 Rev.2.1 (1993) Modified
TKN	mg/Kg	10,000	11,000	1	SM 20th Ed. 2540G Modified
Ammonia (NH3)	mg/Kg	1700	1700	1	SM 20th Ed. 4500-NH3 Modified
Total Solids	%	25	25	1	ASTM D2216
Phosphorus (P)	mg/kg	1600	1600	1	SM20thEd. 4500 PE Modified

	Please enter data in the cells below.
If biosolids were disposed of in a municipal solid waste landfill, please indicate whether the biosolids passed a Paint Filter Test (enter Pass, Fail, or NA)	NA
If biosolids were disposed of in a municipal solid waste landfill, and a toxicity characteristic leaching procedure (TCLP) was done, please indicate whether the biosolids passed (enter Pass, Fail, or NA)	Pass

Laboratories used (list each lab below; one row per lab):	City and State where located	Analyses performed:	Dates used (i.e."January - August")
North Coast Laboratories	Arcata, CA	EPA 8260B, pH, TPHC Gas, Salinity, Organochlorine Pesticides, Fecal Coliform	Nov
CalScience Environmental Laboratories Inc.	Garden Grove CA	EPA 8082A, EPA 8270C, Metals EPA 6010B, EPA 7471A, Nutrients, Salinity	Nov

Pollutant Analytical Results Additional testing conducted by Synagro is shown on separate attached document.

The top portion of this sheet contains cells to enter data for 6 sample events; please scroll down the page to enter data for additional sampling events.

If results are below the detection limit, enter "<" and the detection limit used

If results are not available for a pollutant, please use "N/A" as the qualifier

For fecal coliform, for Class B report geometric mean for each sampling period; for Class A report individual sample result, or maximum result if several samples taken during sampling period

Pollutant	Units	Average Annual Result	Sample Event 1		Sample Event 2		Sample Event 3		Sample Event 4	
			Please enter the date of this sample event in the cell to the right:	Nov	Please enter the date of this sample event in the cell to the right:		Please enter the date of this sample event in the cell to the right:		Please enter the date of this sample event in the cell to the right:	
		Amount, or Qualifer	Amount, or Qualifier		Amount, or Qualifier		Amount, or Qualifier		Amount, or Qualifier	
Arsenic (As)	mg/kg		5.3							
Cadmium (Cd)	mg/kg		7.6							
Chromium (Cr)	mg/kg		40							
Copper (Cu)	mg/kg		1,120							
Lead(Pb)	mg/kg		65							
Mercury (Hg)	mg/kg		0.7							
Molybdenum (Mo)	mg/kg		15							
Nickel (Ni)	mg/kg		32							
Selenium (Se)	mg/kg		6.7							
Zinc (Zn)	mg/kg		1,440							
Total Solids	%		25							
Total Kjeldahl Nitrogen (TKN)	%		11000							
Organic nitrogen	mg/kg									
Ammonium Nitrogen	mg/kg		1,700							
Fecal Coliform geometric mean	MPN/g		43,000							
Fecal coliform max(Class A)	MPN/g									
Salmonella	MPN/4g									
Helminth OVA	#/4g									
Enteric Virus	PFU/4g									
Phosphorus (P)	mg/kg		1600							

Pathogen and Vector Attraction Reduction (VAR)
Please note: this page of the spreadsheet must be printed out, signed at the bottom by the responsible official, and mailed to the EPA, as well as being returned with the rest of this spreadsheet (as an electronic file).

Pathogen Reduction for Class A Biosolids	If this facility produces Class A biosolids, please enter the appropriate code(s) in the box below. Include fecal coliform/salmonella results with monitoring results.
	Alternative 4
Code numbers to use for Pathogen Reduction of Class A Biosolids:	Code Description (2010 Biosolids)
Alternative 1	Time/Temperature (T&T)
Alternative 2	Alkaline Treatment (pH and T&T)
Alternative 3	Testing for 3 categories of pathogens, operational parameters
Alternative 4	Testing of accumulated biosolids for 3 categories of pathogens
PFRP 1	Composting
PFRP 2	Heat drying
PFRP 3	Heat treatment of liquid biosolids
PFRP 4	Thermophilic aerobic digestion
PFRP 5	Beta ray irradiation
PFRP 6	Gamma ray irradiation
PFRP 7	Pasteurization
Alternative 6	Equivalent PFRP

Pathogen Reduction for Class B Biosolids	If this facility produces Class B biosolids, please enter the appropriate code(s) in the box below. Include fecal coliform results, if applicable, with monitoring results.
	PSRP 3
Code numbers to use for Pathogen Reduction of Class B Biosolids:	Code Description (2011 Biosolids)
Alternative 1	Testing for fecal coliform, geometric mean of seven samples
PSRP 1	PSRP Method: aerobic digestion
PSRP 2	PSRP Method: air drying
PSRP 3	PSRP Method: anaerobic digestion
PSRP 4	PSRP Method: composting
PSRP 5	PSRP Method: lime stabilization
Alternative 3	Equivalent PSRP

Vector Attraction Reduction (VAR)	Please enter the appropriate VAR compliance code in the box below:
	1
Codes to use for VAR compliance:	Code Description
1	38% Volatile Solids Reduction
2	BENCH - Anaerobic Digestion
3	BENCH - Aerobic Digestion
4	Aerobic Digestion (SOUR)
5	"Aerobic Process": Composting
6	Alkaline stabilization: pH 12 for 2 hours, 11.5 for 22 hours
7	Drying: digested biosolids to 75%
8	Drying: undigested biosolids to 90%
9	Injection
10	Incorporation
11	Surface Disposal Daily Cover
12	Septage: pH 12 for 30 minutes
999	Not Applicable

Preparer's Certification Statement for Pathogen and Vector Attraction Reduction
40 CFR 503.17, as amended August 4, 1999

Please enter the compliance method number(s) in the statement below:

" I certify, under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in 503.32___(all)___ [and the vector attraction reduction requirements in 503.33 (b) (1)* was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.
*when vector attraction reduction is achieved during treatment

Signature of responsible official:

Digester Performance

Reporting Period: 2011
Digester Number: 6100

		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	Day 23	Day 24	Day 25	Day 26	Day 27	Day 28	Day 29	Day 30	Day 31	AVG
January	Time	38	38	34	34	33	33	38	35	38	38	33	38	38	37	35	38	38	37	38	34	35	38	38	33	38	38	38	44	45	44	32	37
	Temp	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	98	98	98	99	99	99	99	99	99	99	99	99	99	99
	VSR				64																					41							53
February	Time	33	27	36	31	33	34	34	32	34	32	33	35	32	33	33	33	33	32	35	33	33	33	33	36	33	33	34	37	33			33
	Temp	99	99	99	99	99	99	99	100	99	100	100	99	99	99	98	98	99	99	99	99	99	99	99	98	99	99	99	99	98			99
	VSR	59							73							71							71										69
March	Time	34	27	32	33	33	33	34	29	32	31	31	37	33	33	33	33	33	33	39	35	37	38	34	38	38	35	37	37	34	38	39	34
	Temp	98	99	98	97	98	97	99	98	99	99	99	99	99	99	99	97	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
	VSR	52						67							47							66											58
April	Time	43	37	39	36	35	38	34	47	34	33	32	28	33	32	25	32	25	26	30	26	27	27	34	32	34	33	30	29	38	39		33
	Temp	99	100	99	100	99	99	100	100	100	99	100	99	99	99	99	99	98	99	97	98	98	99	99	99	99	98	99	99	100	100		99
	VSR				71							29														69							56
May	Time	31	33	33	33	30	35	33	26	32	35	18	29	32	35	33	32	28	28	29	29	25	23	24	26	27	28	28	30	29	29	29	29
	Temp	100	99	101	99	99	100	99	99	NR	99	98	99	99	99	99	100	99	99	99	98	98	98	98	98	99	99	99	99	99	99	99	99
	VSR		74						72								69							53							65		67
June	Time	27	26	39	28	27	24	27	31	27	27	32	25	28	27	27	27	30	28	26	26	28	27	30	29	33	78	24	22	27	27		29
	Temp	99	100	100	99	99	100	99	99	99	99	100	99	98	98	99	99	99	99	100	100	99	100	99	99	99	100	99	99	99	99		99
	VSR						52							65							69							68					64
July	Time	34	30	29	28	29	32	30	29	29	33	28	29	32	26	33	28	29	30	25	32	25	30	28	28	27	23	25	22	26	24	22	28
	Temp	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	98	98	99	99
	VSR			67								58														61							62
August	Time	24	27	27	23	29	28	30	30	29	31	30	31	32	29	33	31	29	29	32	30	29	29	29	27	26	28	31	44	40	36	32	30
	Temp	99	98	99	99	98	98	98	99	99	99	99	100	99	99	99	99	99	99	99	99	99	98	99	99	99	99	99	99	99	99	99	99
	VSR	54							65							45								67						44			55
September	Time	32	39	38	41	39	37	43	34	37	54	36	29	31	28	31	33	35	31	33	44	18	16	17	19	19	19	17	18	14	17		30
	Temp	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	NA	97	99	97	97	97	98	98	99	99	99	99	100	99	98		99
	VSR					65																						60					63
October	Time	18	19	14	13	13	14	19	18	17	18	18	17	18	17	19	17	18	16	12	18	16	16	15	14	14	13	12	14	16	15	17	16
	Temp	99	99	99	98	98	98	96	98	99	99	99	98	99	99	98	100	100	NA	99	99	99	99	98	98	98	NA	98	98	98	100	100	99
	VSR			60							61							72						60								60	63
November	Time	15	16	14	17	17	16	18	19	17	17	19	20	19	20	18	18	20	18	21	23	19	20	20	16	23	25	20	7	22			18
	Temp	99	100	98	99	99		100	100	99	99	98	97	99	98	99	99	100	99	99	100	100	100	100		99	99	100	100	100			99
	VSR							60							62							43							67				58
December	Time																																
	Temp																					Out of Service Nov 30 for Cleaning and Repairs											
	VSR																																

Digester Performance

Reporting Period: 2011

Digester Number: 6200

		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	Day 23	Day 24	Day 25	Day 26	Day 27	Day 28	Day 29	Day 30	Day 31	AVG
January	Time	38	38	34	34	33	33	38	35	38	38	33	38	38	37	35	38	38	37	38	34	35	38	38	33	38	38	38	44	45	44	32	37
	Temp	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	98	98	98	98	98	99	98	99	99	99	99	99	99	99
	VSR					67						69															57						64
February	Time	33	27	36	31	33	34	34	32	34	32	33	35	32	33	33	33	33	32	35	33	33	33	33	36	33	33	34	37	33			33
	Temp	99	99	99	99	99	99	99	99	99	99	99	99	99	99	98	97	98	99	99	99	99	99	99	99	99	99	99	99	99			99
	VSR		79							81							71							71									76
March	Time	34	27	32	33	33	33	34	29	32	31	31	37	33	33	33	33	33	33	39	35	37	38	34	38	38	35	37	37	34	38	39	34
	Temp	99	99	98	98	99	99	99	99	99	99	100	99	99	99	97	99	99	99	99	99	99	99	99	99	101	101	99	99	99	99	99	99
	VSR		57						66							37							71										58
April	Time	43	37	39	36	35	38	34	47	34	33	32	28	33	32	25	32	25	26	30	26	27	27	34	32	34	33	30	29	38	39		33
	Temp	99	99	99	99	98	99	99	99	99	99	99	99	99	99	99	99	98	99	97	99	99	99	99	100	100	101	101	100	100	101		99
	VSR					74							44														67						62
May	Time	31	33	33	33	30	35	33	26	32	35	18	29	32	35	33	32	28	28	29	29	25	23	24	26	27	28	28	30	29	29	29	29
	Temp	100	99	99	99	99	98	98	98	NR	98	99	99	98	99	99	99	99	99	99	99	99	99	98	99	99	99	99	99	99	99	99	99
	VSR			71						73								68							46							67	65
June	Time	27	26	39	28	27	24	27	31	27	27	32	25	28	27	27	27	30	28	26	26	28	27	30	29	33	78	24	22	27	27		29
	Temp	98	100	100	99	100	100	99	99	99	99	99	98	99	99	99	99	99	99	99	99	99	100	100	99	99	100	100	101	100	100		99
	VSR							54							67							66							67				64
July	Time	34	30	29	28	29	32	30	29	29	33	28	29	32	26	33	28	29	30	25	32	25	30	28	28	27	23	25	22	26	24	22	28
	Temp	99	99	99	99	99	99	99	99	99	98	99	99	99	99	98	99	98	99	99	92	99	99	99	99	99	99	99	99	98	98	99	99
	VSR				66								60														64						63
August	Time	24	27	27	23	29	28	30	30	29	31	30	31	32	29	33	31	29	29	32	30	29	29	29	27	26	28	31	44	40	36	32	30
	Temp	99	98	99	99	99	99	99	99	99	99	99	99	100	100	99	99	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
	VSR		58							64							43								71						47		57
September	Time	32	39	38	41	39	37	43	34	37	54	36	29	31	28	31	33	35	31	33	44												36
	Temp	99	100	100	101	100	100	100	100	99	99	99	99	99	99	99	NA	98	99	98	99												99
	VSR						64																										64
October	Time																				Out of service Sept 21 for Cleaning and Repairs												
	Temp																																
	VSR																																
November	Time																														29		29
	Temp																									Back in Service Nov 30					100		100
	VSR																																
December	Time	34	34	27	60	21	22	15	16	19	17	23	20	24	17	19	19	21	22	20	23	20	19	20	24	20	23	20	21	22	20	22	23
	Temp	99	99	99	NA	100	100	99	99	100	98	98	98	NA	99	99	99	99	99	99	99	99	98	99	99	99	99	99	99	99	100	99	99
	VSR					21							70							70													54

Record: If this facility used drying beds during the reporting year, please fill in this table. Enter dates in mm/dd/yyyy format.

Drying Bed #	Date start to fill	Date filling completed	Date removal from drying bed started

ED_006495_00000845-00013

SYNAGRO

February 14, 2013

Bruce Gherke
Elk River WWTP
4301 Hilfiker Lane
Eureka, CA 95501

Subject: Revised Monthly Activity Reports – Months of October - December 2012
Revised Biosolids Land Application Data Summary Report

Dear Mr. Gherke:

Enclosed please find Synagro's Revised October through December 2012 Monthly Activity Report and Revised 2012 – Biosolids Land Application Data Summary. These reports have been revised to use daily percent solids rather than the percent solids from the Calscience Environmental Laboratories, Inc. lab reports. Also, there was a correction to the Product type for the land application loads that went to SA County during October and November 2012. Digester Cleanout Cake (DCOCAK) was corrected to Lagoon Cake (LAGC).

Please replace the previously submitted reports with the enclosed revised reports.

We appreciate your assistance in this matter and apologize for any inconvenience it may cause. If you have any questions, please call me at (707) 580-4654.

Sincerely,

Jacob Collins
Technical Services Manager

JC: av

Enclosures
cc: Jeff Faust - Synagro

3845 Bithell Lane * Suisun City, CA 94585 * Ph: (707) 438-3730 * Fax: (707) 438-3744

SYNAGRO

October 2012

REVISED
2/14/13

MONTHLY ACTIVITY
REPORT

Eureka
Elk River WWTP
California

SYNAGRO WEST, LLC
3845 BITHELL LANE
SUISUN CITY, CA 94585

Daily Activity Summary for the Month of October 2012
4428-01: EUREKA, CA
EUREKA, CA ELK RIVER WWTP LAGOON CAKE

CA-SA-00018-0-0001-A

DATE APPL	TOTAL APPLIED	UNIT
10/26/2012	45.86	W LAGC
10/29/2012	43.94	W LAGC
10/30/2012	47.75	W LAGC
10/31/2012	69.90	W LAGC
FIELD TOTAL:	**207.45**	

CA-SA-00018-0-0052

DATE APPL	TOTAL APPLIED	UNIT
10/2/2012	45.09	W LAGC
10/19/2012	46.75	W LAGC
FIELD TOTAL:	**91.84**	

CA-SH-0LFIL-0-ANDE

DATE APPL	TOTAL APPLIED	UNIT
10/8/2012	45.11	W DCOCAK
10/9/2012	23.64	W DCOCAK
10/10/2012	46.60	W DCOCAK
10/11/2012	47.02	W DCOCAK
FIELD TOTAL:	**162.37**	

PLANT TOTAL:	**461.66**
PROJECT TOTAL:	**461.66**

Printed: 2/14/2013
14:57

Dosage Rate Evaluation Report

Product Type: **EUREKA, CA ELK RIVER WWTP LAGOON CAKE (EERLAGC)**

Sample Date **9/10/2012** Usage From **10/1/2012** To **10/31/2012**

Report # 12-09-0536

Parameter	PPM(mg/kg)	Lbs/DryTon
PA-N (Injected)	12243	24.487
PA-N (Surface Appl.)	7843	15.687
TKN (TKN)	26000	
Ammonia Nitrogen (Am)	8800	
Nitrate Nitrogen (Nin)	<3.3	
Organic Nitrogen (Orn)	17200	
Total Phosphorus (P)	NR	NR
Total Potassium (K)	NR	NR
Arsenic (As)	6.04	0.012
Cadmium (Cd)	12.7	0.025
Chromium (Cr)	35.1	0.07
Copper (Cu)	1100	2.2
Lead (Pb)	37.2	0.074
Mercury (Hg)	0.872	0.002
Molybdenum (Mo)	9.19	0.018
Nickel (Ni)	28.4	0.057
Selenium (Se)	10.2	0.02
Zinc (Zn)	1250	2.5

Percent Solids: Multiple Values

Calculations

PA-N (ppm) = [(f1) (ppm Org. N)] + [(V1) (ppm Ammonia N)] + (ppm Nitrate N)

ppm or mg/kg x .002 = lbs/dry ton

Biosolids/Residuals Application State: **CALIFORNIA**

Organic Nitrogen Mineralization Rate (f1): For ANAEROBICALLY DIGESTED **20.00%**

Ammonia Nitrogen Non-Volatilized Fraction (V1): For Injected:**1.00**

For Surface Appl.:**0.50**

NR = Data not Reported to Synagro or Data not Required

Notes: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC., SAMPLE DATE 09/10/12, REPORT# 12-09-0536.

Eureka Daily Solids Elk River WWTP Oct-12	
sample date	% solids
10/2/2012	14.00%
10/19/2012	22.90%
10/26/2012	26.60%
10/29/2012	24.40%
10/30/2012	24.70%
10/31/2012	24.40%

FIELD REPORT

October 2012
Permit No.: 95-064
County: SACRAMENTO
Crop: WHEAT, DURHUM
Plant Date: November 2012
Harvest Date: N/A

Synagro Field: CA-SA-00018-0-0001-A

Latitude: 38.21'32"
Longitude: 121.08'52"
Acres: 21.5 (8.71 ha)
Rate: 128.00 LBS PAN/ACRE
Applic. Method: SURFACE W/INCORP.

WET TONS APPLIED:	Month to Date:	510.37	Year to Date:	1099.49
WET TONS APPLIED:	Crop Year to Date:	510.37		
WET TONS APPL/ACRE:	Crop Year to Date:	23.74		
DRY TONS/ACRE APPLIED:	Month to Date:	4.82	Year to Date:	10.12
	Crop Year to Date:	4.82		

********POUNDS PER ACRE APPLIED *******
(Kilograms per Hectare Applied)

PARAMETER	MONTH TO DATE	CROP YEAR TO DATE	YEAR TO DATE	CUMULATIVE
PAN	122.12	122.12	305.80	
P	45.10	45.10	165.09	
K	7.88	7.88	25.71	
As	0.07 (0.08)	0.07 (0.08)	0.17 (0.19)	4.79 (5.36)
Cd	0.08 (0.09)	0.08 (0.09)	0.10 (0.11)	1.93 (2.16)
Cr	0.36 (0.40)	0.36 (0.40)	0.72 (0.81)	37.67 (42.19)
Cu	6.93 (7.76)	6.93 (7.76)	10.96 (12.28)	216.56 (242.55)
Pb	0.34 (0.38)	0.34 (0.38)	0.60 (0.67)	43.40 (48.61)
Hg	0.01 (0.01)	0.01 (0.01)	0.03 (0.03)	0.98 (1.10)
Mo	0.14 (0.16)	0.14 (0.16)	0.32 (0.36)	13.74 (15.39)
Ni	0.28 (0.31)	0.28 (0.31)	0.55 (0.62)	14.05 (15.74)
Se	0.08 (0.09)	0.08 (0.09)	0.14 (0.16)	1.70 (1.90)
Zn	11.65 (13.05)	11.65 (13.05)	22.60 (25.31)	363.23 (406.82)

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
10/24/2012	STC	18.54	23.95	WET TONS	4.44
10/25/2012	STC	18.54	47.70	WET TONS	8.84
10/25/2012	EIDDCC	12.24	22.90	WET TONS	2.80
10/25/2012	ROC	13.77	45.92	WET TONS	6.32
10/26/2012	STC	18.54	47.43	WET TONS	8.79
10/26/2012	EIDDCC	12.24	22.75	WET TONS	2.78
10/26/2012	EIDELHC	16.60	20.45	WET TONS	3.39
10/26/2012	EERLAGC	26.60	45.86	WET TONS	12.20

October 2012 Synagro Field: CA-SA-00018-0-0001-A

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
10/27/2012	STC	18.54	47.84	WET TONS	8.87
10/28/2012	SBSAC	23.56	23.98	WET TONS	5.65
10/29/2012	EERLAGC	24.40	43.94	WET TONS	10.72
10/30/2012	EERLAGC	24.70	47.75	WET TONS	11.79
10/31/2012	EERLAGC	24.40	69.90	WET TONS	17.06
TOTALS:			510.37	WET TONS	103.67 DT 94.03 MT

"NR" = Data not reported to Synagro Technologies, Inc or Data not required.

FIELD REPORT

October 2012
Permit No.: 98-023
County: SACRAMENTO
Crop: SUDAN
Plant Date: October 2012
Harvest Date: N/A

Synagro Field: CA-SA-00018-0-0052

Latitude: 38.20'12"
Longitude: 121.09'45"
Acres: 32.9 (13.33 ha)
Rate: 250.00 LBS PAN/ACRE
Applic. Method: SURFACE W/INCORP.

WET TONS APPLIED:	Month to Date:	910.45	Year to Date:	910.45
WET TONS APPL/ACRE:	Month to Date:	27.67	Year to Date:	27.67
DRY TONS/ACRE APPLIED:	Month to Date:	5.39	Year to Date:	5.39

********POUNDS PER ACRE APPLIED *******
(Kilograms per Hectare Applied)

PARAMETER	MONTH TO DATE	YEAR TO DATE	CUMULATIVE
PAN	172.85	172.85	
P	108.34	108.34	
K	14.07	14.07	
As	0.08 (0.09)	0.08 (0.09)	0.29 (0.32)
Cd	0.04 (0.04)	0.04 (0.04)	0.12 (0.13)
Cr	0.38 (0.43)	0.38 (0.43)	1.24 (1.39)
Cu	5.64 (6.32)	5.64 (6.32)	19.67 (22.03)
Pb	0.36 (0.40)	0.36 (0.40)	1.03 (1.15)
Hg	0.02 (0.02)	0.02 (0.02)	0.07 (0.08)
Mo	0.18 (0.20)	0.18 (0.20)	0.60 (0.67)
Ni	0.27 (0.30)	0.27 (0.30)	1.09 (1.22)
Se	0.06 (0.07)	0.06 (0.07)	0.23 (0.26)
Zn	12.29 (13.76)	12.29 (13.76)	42.37 (47.45)

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
10/02/2012	EERLAGC	14.00	45.09	WET TONS	6.31
10/19/2012	STC	18.54	72.90	WET TONS	13.52
10/19/2012	EIDELHC	16.60	22.00	WET TONS	3.65
10/19/2012	PLHC	14.93	17.79	WET TONS	2.66
10/19/2012	USDC	22.34	23.74	WET TONS	5.30
10/19/2012	GVC	23.93	24.22	WET TONS	5.80
10/19/2012	ROC	13.77	23.18	WET TONS	3.19
10/19/2012	EERLAGC	22.90	46.75	WET TONS	10.71
10/20/2012	USDC	22.34	24.30	WET TONS	5.43
10/21/2012	USDC	22.34	24.35	WET TONS	5.44

October 2012 Synagro Field: CA-SA-00018-0-0052

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
10/21/2012	DCNSMC	23.74	23.99	WET TONS	5.70
10/21/2012	SBSAC	23.56	46.30	WET TONS	10.91
10/22/2012	BUC	17.53	23.12	WET TONS	4.05
10/22/2012	STC	18.54	48.23	WET TONS	8.94
10/22/2012	EIDELHC	16.60	21.12	WET TONS	3.51
10/22/2012	DDSDC	24.41	46.25	WET TONS	11.29
10/22/2012	USDC	22.34	48.10	WET TONS	10.75
10/22/2012	GVC	23.93	24.15	WET TONS	5.78
10/22/2012	DCNSMC	23.74	24.08	WET TONS	5.72
10/22/2012	ROC	13.77	44.33	WET TONS	6.10
10/22/2012	SBSAC	23.56	46.66	WET TONS	10.99
10/23/2012	STC	18.54	48.40	WET TONS	8.97
10/23/2012	EIDDCC	12.24	23.49	WET TONS	2.88
10/23/2012	ROC	13.77	46.41	WET TONS	6.39
10/24/2012	STC	18.54	71.50	WET TONS	13.26
			---		---
TOTALS:			910.45	WET TONS	177.23 DT 160.75 MT

"NR" = Data not reported to Synagro Technologies, Inc or Data not required.

SYNAGRO

November 2012

REVISED
2/19/13

MONTHLY ACTIVITY
REPORT

Eureka
Elk River WWTP
California

SYNAGRO WEST, LLC
3845 BITHELL LANE
SUISUN CITY, CA 94585

Daily Activity Summary for the Month of November 2012
4428-01: EUREKA, CA
EUREKA, CA ELK RIVER WWTP LAGOON CAKE

CA-SA-00018-0-0067

DATE APPL	TOTAL APPLIED	UNIT
11/1/2012	115.92	W LAGC
11/2/2012	88.44	W LAGC
11/5/2012	46.89	W LAGC
FIELD TOTAL:	**251.25**	

CA-SA-00018-0-0076

DATE APPL	TOTAL APPLIED	UNIT
11/6/2012	66.87	W LAGC
11/7/2012	90.68	W LAGC
11/8/2012	94.91	W LAGC
FIELD TOTAL:	**252.46**	

CA-SA-00018-0-0085

DATE APPL	TOTAL APPLIED	UNIT
11/14/2012	71.33	W LAGC
11/15/2012	46.10	W LAGC
11/16/2012	113.79	W LAGC
11/17/2012	22.78	W LAGC
11/19/2012	72.02	W LAGC
11/20/2012	123.19	W LAGC
11/21/2012	49.23	W LAGC
FIELD TOTAL:	**498.45**	

PLANT TOTAL:	**1,002.15**
PROJECT TOTAL:	**1,002.15**

Printed: 2/14/2013
14:57

Dosage Rate Evaluation Report

Product Type: **EUREKA, CA ELK RIVER WWTP LAGOON CAKE (EERLAGC)**

Sample Date **11/8/2012** Usage From **11/1/2012** To **11/30/2012**

Report # 12-11-0896

Parameter	PPM(mg/kg)	Lbs/DryTon
PA-N (Injected)	14442	28.884
PA-N (Surface Appl.)	10792	21.584
TKN (TKN)	43000	
Ammonia Nitrogen (Am)	7300	
Nitrate Nitrogen (Nin)	<2	
Organic Nitrogen (Orn)	35700	
Total Phosphorus (P)	7400	14.8
Total Potassium (K)	824	1.648
Arsenic (As)	5.65	0.011
Cadmium (Cd)	7.69	0.015
Chromium (Cr)	41.7	0.083
Copper (Cu)	1110	2.22
Lead (Pb)	66.1	0.132
Mercury (Hg)	2.25	0.005
Molybdenum (Mo)	17.2	0.034
Nickel (Ni)	33.6	0.067
Selenium (Se)	8.32	0.017
Zinc (Zn)	1350	2.7

Percent Solids: Multiple Values

Calculations

PA-N (ppm) = [(f1) (ppm Org. N)] + [(V1) (ppm Ammonia N)] + (ppm Nitrate N)

ppm or mg/kg x .002 = lbs/dry ton

Biosolids/Residuals Application State: **CALIFORNIA**

Organic Nitrogen Mineralization Rate (f1): For ANAEROBICALLY DIGESTED **20.00%**

Ammonia Nitrogen Non-Volatilized Fraction (V1): For Injected:**1.00**

For Surface Appl.:**0.50**

NR = Data not Reported to Synagro or Data not Required

Notes: DAILY PERCENT SOLIDS WERE USED, ALL OTHER RESULTS ARE FROM CALSCIENCE ENVIRONMENTAL LABORATORIES, INC., SAMPLE DATE 11/08/12, REPORT# 12-11-0896.

Eureka Daily Solids Elk River WWTP Nov-12	
sample date	% solids
11/1/2012	24.30%
11/2/2012	24.80%
11/5/2012	24.00%
11/6/2012	25.70%
11/7/2012	25.10%
11/8/2012	25.60%
11/14/2012	23.20%
11/15/2012	23.00%
11/16/2012	23.20%
11/17/2012	23.20%
11/19/2012	23.30%
11/20/2012	23.60%
11/21/2012	23.90%

FIELD REPORT

November 2012
Permit No.: 98-023
County: SACRAMENTO
Crop: WHEAT, DURHUM
Plant Date: December 2012
Harvest Date: N/A

Synagro Field: CA-SA-00018-0-0067

Latitude: 38.20'46"
Longitude: 121.11'05"
Acres: 32.8 (13.28 ha)
Rate: 195.00 LBS PAN/ACRE
Applic. Method: SURFACE W/INCORP.

WET TONS APPLIED:	Month to Date:	728.13	Year to Date:	1145.42
WET TONS APPLIED:	Crop Year to Date:	728.13		
WET TONS APPL/ACRE:	Crop Year to Date:	22.20		
DRY TONS/ACRE APPLIED:	Month to Date:	4.16	Year to Date:	6.70
	Crop Year to Date:	4.16		

********POUNDS PER ACRE APPLIED *******
(Kilograms per Hectare Applied)

PARAMETER	MONTH TO DATE	CROP YEAR TO DATE	YEAR TO DATE	CUMULATIVE
PAN	124.60	124.60	208.11	
P	72.84	72.84	122.91	
K	11.37	11.37	18.80	
As	0.06 (0.07)	0.06 (0.07)	0.10 (0.11)	1.33 (1.49)
Cd	0.04 (0.04)	0.04 (0.04)	0.06 (0.07)	0.45 (0.50)
Cr	0.31 (0.35)	0.31 (0.35)	0.49 (0.55)	6.03 (6.75)
Cu	5.62 (6.29)	5.62 (6.29)	7.76 (8.69)	55.17 (61.79)
Pb	0.38 (0.43)	0.38 (0.43)	0.50 (0.56)	5.46 (6.12)
Hg	0.02 (0.02)	0.02 (0.02)	0.03 (0.03)	0.37 (0.41)
Mo	0.14 (0.16)	0.14 (0.16)	0.22 (0.25)	2.11 (2.36)
Ni	0.25 (0.28)	0.25 (0.28)	0.38 (0.43)	4.76 (5.33)
Se	0.06 (0.07)	0.06 (0.07)	0.09 (0.10)	0.86 (0.96)
Zn	9.92 (11.11)	9.92 (11.11)	15.11 (16.92)	146.60 (164.19)

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
11/01/2012	STC	18.80	48.34	WET TONS	9.09
11/01/2012	EIDDCC	12.17	21.43	WET TONS	2.61
11/01/2012	ROC	13.77	46.43	WET TONS	6.39
11/01/2012	EERLAGC	24.30	115.92	WET TONS	28.17
11/02/2012	EIDDCC	12.17	22.12	WET TONS	2.69
11/02/2012	EIDELHC	16.69	18.19	WET TONS	3.04
11/02/2012	PLHC	14.94	16.46	WET TONS	2.46
11/02/2012	EERLAGC	24.80	88.44	WET TONS	21.93

November 2012 Synagro Field: CA-SA-00018-0-0067

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
11/03/2012	STC	18.80	73.13	WET TONS	13.75
11/03/2012	ROC	13.63	46.32	WET TONS	6.31
11/05/2012	STC	18.80	71.61	WET TONS	13.46
11/05/2012	EIDDCC	12.17	21.76	WET TONS	2.65
11/05/2012	EIDELHC	16.69	22.00	WET TONS	3.67
11/05/2012	ROC	13.63	45.79	WET TONS	6.24
11/05/2012	EERLAGC	24.00	46.89	WET TONS	11.25
11/06/2012	EIDDCC	12.17	23.30	WET TONS	2.84
TOTALS:			728.13	WET TONS	136.55 DT 123.85 MT

"NR" = Data not reported to Synagro Technologies, Inc or Data not required.

FIELD REPORT

November 2012
Permit No.: 98-023
County: SACRAMENTO
Crop: WHEAT, DURHUM
Plant Date: December 2012
Harvest Date: N/A

Synagro Field: CA-SA-00018-0-0076

Latitude: 38.21'16"
Longitude: 121.10'55"
Acres: 39.1 (15.84 ha)
Rate: 189.00 LBS PAN/ACRE
Applic. Method: SURFACE W/INCORP.

WET TONS APPLIED:	Month to Date:	873.06	Year to Date:	1689.12
WET TONS APPLIED:	Crop Year to Date:	873.06		
WET TONS APPL/ACRE:	Crop Year to Date:	22.33		
DRY TONS/ACRE APPLIED:	Month to Date:	4.45	Year to Date:	8.89
	Crop Year to Date:	4.45		

********POUNDS PER ACRE APPLIED*******
(Kilograms per Hectare Applied)

PARAMETER	MONTH TO DATE	CROP YEAR TO DATE	YEAR TO DATE	CUMULATIVE
PAN	122.14	122.14	253.67	
P	80.90	80.90	149.13	
K	10.72	10.72	25.41	
As	0.07 (0.08)	0.07 (0.08)	0.34 (0.38)	1.46 (1.64)
Cd	0.04 (0.04)	0.04 (0.04)	0.08 (0.09)	0.53 (0.59)
Cr	0.34 (0.38)	0.34 (0.38)	1.11 (1.24)	8.75 (9.80)
Cu	5.90 (6.61)	5.90 (6.61)	11.15 (12.49)	58.66 (65.70)
Pb	0.46 (0.52)	0.46 (0.52)	0.96 (1.08)	7.43 (8.32)
Hg	0.02 (0.02)	0.02 (0.02)	0.05 (0.06)	0.32 (0.36)
Mo	0.16 (0.18)	0.16 (0.18)	0.30 (0.34)	2.26 (2.53)
Ni	0.28 (0.31)	0.28 (0.31)	0.58 (0.65)	6.10 (6.83)
Se	0.06 (0.07)	0.06 (0.07)	0.14 (0.16)	0.88 (0.99)
Zn	10.84 (12.14)	10.84 (12.14)	25.94 (29.05)	146.31 (163.87)

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
11/06/2012	STC	18.80	94.87	WET TONS	17.84
11/06/2012	GVC	22.33	24.14	WET TONS	5.39
11/06/2012	ROC	13.63	46.33	WET TONS	6.31
11/06/2012	EERLAGC	25.70	66.87	WET TONS	17.19
11/07/2012	STC	18.80	72.65	WET TONS	13.66
11/07/2012	EIDELHC	16.69	20.53	WET TONS	3.43
11/07/2012	PLHC	14.94	16.67	WET TONS	2.49
11/07/2012	GVC	22.33	20.26	WET TONS	4.52

November 2012 Synagro Field: CA-SA-00018-0-0076

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
11/07/2012	ROC	13.63	46.48	WET TONS	6.34
11/07/2012	EERLAGC	25.10	90.68	WET TONS	22.76
11/08/2012	STC	18.80	94.78	WET TONS	17.82
11/08/2012	EIDDCC	12.17	22.78	WET TONS	2.77
11/08/2012	GVC	22.33	24.20	WET TONS	5.40
11/08/2012	ROC	13.63	46.53	WET TONS	6.34
11/08/2012	EERLAGC	25.60	94.91	WET TONS	24.30
11/09/2012	EIDELHC	16.69	21.17	WET TONS	3.53
11/09/2012	DDSDC	24.25	22.73	WET TONS	5.51
11/09/2012	GVC	22.33	23.21	WET TONS	5.18
11/09/2012	ROC	13.63	23.27	WET TONS	3.17
TOTALS:			873.06	WET TONS	173.96 DT 157.78 MT

"NR" = Data not reported to Synagro Technologies, Inc or Data not required.

FIELD REPORT

November 2012
Permit No.: 98-023
County: SACRAMENTO
Crop: WHEAT, DURHUM
Plant Date: April 2013
Harvest Date: N/A

Synagro Field: CA-SA-00018-0-0085

Latitude: 38.22'03"
Longitude: 121.11'11"
Acres: 150 (60.75 ha)
Rate: 178.00 LBS PAN/ACRE
Applic. Method: SURFACE W/INCORP.

WET TONS APPLIED:	Month to Date:	3120.49	Year to Date:	6731.80
WET TONS APPLIED:	Crop Year to Date:	3120.49		
WET TONS APPL/ACRE:	Crop Year to Date:	20.80		
DRY TONS/ACRE APPLIED:	Month to Date:	3.96	Year to Date:	8.86
	Crop Year to Date:	3.96		

********POUNDS PER ACRE APPLIED *******
(Kilograms per Hectare Applied)

PARAMETER	MONTH TO DATE	CROP YEAR TO DATE	YEAR TO DATE	CUMULATIVE
PAN	129.85	129.85	304.55	
P	87.50	87.50	197.26	
K	12.28	12.28	29.73	
As	0.06 (0.07)	0.06 (0.07)	0.14 (0.16)	0.91 (1.02)
Cd	0.03 (0.03)	0.03 (0.03)	0.06 (0.07)	0.22 (0.25)
Cr	0.26 (0.29)	0.26 (0.29)	0.58 (0.65)	2.84 (3.18)
Cu	4.25 (4.76)	4.25 (4.76)	8.42 (9.43)	35.32 (39.56)
Pb	0.27 (0.30)	0.27 (0.30)	0.48 (0.54)	2.34 (2.62)
Hg	0.01 (0.01)	0.01 (0.01)	0.03 (0.03)	0.26 (0.29)
Mo	0.14 (0.16)	0.14 (0.16)	0.30 (0.34)	1.24 (1.39)
Ni	0.21 (0.24)	0.21 (0.24)	0.46 (0.52)	2.57 (2.88)
Se	0.05 (0.06)	0.05 (0.06)	0.11 (0.12)	0.54 (0.60)
Zn	8.84 (9.90)	8.84 (9.90)	19.14 (21.44)	82.45 (92.34)

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
11/13/2012	STC	18.80	71.35	WET TONS	13.41
11/13/2012	EIDDCC	12.17	23.62	WET TONS	2.87
11/13/2012	ROC	13.63	69.86	WET TONS	9.52
11/14/2012	STC	18.80	24.17	WET TONS	4.54
11/14/2012	EIDDCC	12.17	23.75	WET TONS	2.89
11/14/2012	EIDELHC	16.69	20.43	WET TONS	3.41
11/14/2012	DDSDC	24.25	23.31	WET TONS	5.65
11/14/2012	GVC	22.33	20.88	WET TONS	4.66

November 2012 Synagro Field: CA-SA-00018-0-0085

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
11/14/2012	ROC	13.63	69.73	WET TONS	9.50
11/14/2012	EERLAGC	23.20	71.33	WET TONS	16.55
11/15/2012	STC	18.80	47.66	WET TONS	8.96
11/15/2012	EIDDCC	12.17	22.60	WET TONS	2.75
11/15/2012	DDSDC	24.25	22.75	WET TONS	5.52
11/15/2012	ROC	13.63	46.44	WET TONS	6.33
11/15/2012	EERLAGC	23.00	46.10	WET TONS	10.60
11/16/2012	EIDDCC	12.17	23.87	WET TONS	2.90
11/16/2012	EIDELHC	16.69	21.70	WET TONS	3.62
11/16/2012	PLHC	14.94	17.82	WET TONS	2.66
11/16/2012	ROC	13.63	46.62	WET TONS	6.35
11/16/2012	EERLAGC	23.20	113.79	WET TONS	26.40
11/17/2012	BUC	18.16	23.28	WET TONS	4.23
11/17/2012	DDSDC	24.25	22.70	WET TONS	5.50
11/17/2012	USDC	22.24	73.43	WET TONS	16.33
11/17/2012	DCNSMC	23.77	24.48	WET TONS	5.82
11/17/2012	SBSAC	23.45	24.54	WET TONS	5.75
11/17/2012	EERLAGC	23.20	22.78	WET TONS	5.28
11/18/2012	USDC	22.24	24.38	WET TONS	5.42
11/18/2012	DCNSMC	23.77	25.29	WET TONS	6.01
11/18/2012	SBSAC	23.45	48.79	WET TONS	11.44
11/19/2012	BUC	18.16	23.56	WET TONS	4.28
11/19/2012	STC	18.80	24.16	WET TONS	4.54
11/19/2012	EIDDCC	12.17	23.38	WET TONS	2.85
11/19/2012	EIDELHC	16.69	20.08	WET TONS	3.35
11/19/2012	DDSDC	24.25	46.34	WET TONS	11.24
11/19/2012	USDC	22.24	70.30	WET TONS	15.63
11/19/2012	GVC	22.33	23.42	WET TONS	5.23
11/19/2012	PACCC	22.13	23.11	WET TONS	5.11
11/19/2012	ROC	13.63	46.65	WET TONS	6.36
11/19/2012	SBSAC	23.45	47.55	WET TONS	11.15
11/19/2012	EERLAGC	23.00	72.02	WET TONS	16.56
11/20/2012	STC	18.80	72.73	WET TONS	13.67
11/20/2012	DDSDC	24.25	45.21	WET TONS	10.96
11/20/2012	ROC	13.63	46.44	WET TONS	6.33
11/20/2012	EERLAGC	23.60	123.19	WET TONS	29.07
11/21/2012	STC	18.80	48.10	WET TONS	9.04
11/21/2012	EIDDCC	12.17	21.09	WET TONS	2.57
11/21/2012	PLHC	14.94	18.60	WET TONS	2.78
11/21/2012	DDSDC	24.25	46.31	WET TONS	11.23
11/21/2012	ROC	13.63	46.53	WET TONS	6.34
11/21/2012	EERLAGC	23.90	49.23	WET TONS	11.77
11/22/2012	STC	18.80	48.50	WET TONS	9.12
11/23/2012	STC	18.80	23.85	WET TONS	4.48
11/23/2012	EIDELHC	16.69	22.23	WET TONS	3.71
11/23/2012	DCNSMC	23.77	24.49	WET TONS	5.82
11/23/2012	ROC	13.63	68.73	WET TONS	9.37
11/24/2012	EIDDCC	12.17	21.11	WET TONS	2.57
11/25/2012	USDC	22.24	24.60	WET TONS	5.47
11/25/2012	DCNSMC	23.77	24.51	WET TONS	5.83

November 2012

Synagro Field: CA-SA-00018-0-0085

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
11/25/2012	SBSAC	23.45	24.97	WET TONS	5.86
11/26/2012	STC	18.80	48.79	WET TONS	9.17
11/26/2012	EIDELHC	16.69	22.45	WET TONS	3.75
11/26/2012	PLHC	14.94	17.89	WET TONS	2.67
11/26/2012	DDSDC	24.25	22.73	WET TONS	5.51
11/26/2012	ROC	13.63	46.42	WET TONS	6.33
11/27/2012	STC	18.80	71.86	WET TONS	13.51
11/27/2012	EIDDCC	12.17	21.25	WET TONS	2.59
11/27/2012	ROC	13.63	46.39	WET TONS	6.32
11/28/2012	STC	18.80	23.57	WET TONS	4.43
11/28/2012	EIDDCC	12.17	20.52	WET TONS	2.50
11/28/2012	EIDELHC	16.69	21.72	WET TONS	3.63
11/28/2012	ROC	13.63	46.39	WET TONS	6.32
11/29/2012	BUC	18.16	23.87	WET TONS	4.33
11/29/2012	STC	18.80	48.19	WET TONS	9.06
11/29/2012	EIDDCC	12.17	22.82	WET TONS	2.78
11/29/2012	DDSDC	24.25	23.42	WET TONS	5.68
11/30/2012	STC	18.80	72.66	WET TONS	13.66
11/30/2012	EIDELHC	16.69	23.80	WET TONS	3.97
11/30/2012	PLHC	14.94	16.07	WET TONS	2.40
11/30/2012	DDSDC	24.25	46.05	WET TONS	11.17
11/30/2012	USDC	22.24	25.06	WET TONS	5.57
11/30/2012	PACCC	22.13	24.19	WET TONS	5.35
11/30/2012	ROC	13.63	45.94	WET TONS	6.26
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TOTALS:			3,120.49	WET TONS	594.18 DT 538.92 MT

"NR" = Data not reported to Synagro Technologies, Inc or Data not required.

SYNAGRO

December 2012

REVISED
2/14/13

MONTHLY ACTIVITY
REPORT

Eureka
Elk River WWTP
California

SYNAGRO WEST, LLC
3845 BITHELL LANE
SUISUN CITY, CA 94585

Daily Activity Summary for the Month of December 2012
4428-01: EUREKA, CA
EUREKA, CA ELK RIVER WWTP LAGOON CAKE

CA-SA-00018-0-0082

DATE APPL	TOTAL APPLIED	UNIT
12/20/2012	71.93	W LAGC
12/21/2012	95.04	W LAGC
FIELD TOTAL:	**166.97**	

CA-SH-0LFIL-0-ANDE

DATE APPL	TOTAL APPLIED	UNIT
12/5/2012	92.00	W DCOCAK
12/6/2012	94.37	W DCOCAK
12/7/2012	17.77	W DCOCAK
FIELD TOTAL:	**204.14**	

PLANT TOTAL:	**371.11**
PROJECT TOTAL:	**371.11**

Printed: 2/14/2013
14:58

Dosage Rate Evaluation Report

Product Type: **EUREKA, CA ELK RIVER WWTP LAGOON CAKE (EERLAGC)**

Sample Date **12/21/2012** Usage From **12/1/2012** To **12/31/2012**

Report # 13-01-0057

Parameter	PPM(mg/kg)	Lbs/DryTon
PA-N (Injected)	**16602**	**33.204**
PA-N (Surface Appl.)	**12102**	**24.204**
TKN (TKN)	**47000**	
Ammonia Nitrogen (Am)	**9000**	
Nitrate Nitrogen (Nin)	**<2.1**	
Organic Nitrogen (Orn)	**38000**	
Total Phosphorus (P)	**10000**	**20**
Total Potassium (K)	**814**	**1.628**
Arsenic (As)	**12.5**	**0.025**
Cadmium (Cd)	**8.65**	**0.017**
Chromium (Cr)	**42.7**	**0.085**
Copper (Cu)	**1140**	**2.28**
Lead (Pb)	**74.2**	**0.148**
Mercury (Hg)	**1.22**	**0.002**
Molybdenum (Mo)	**16.4**	**0.033**
Nickel (Ni)	**35**	**0.07**
Selenium (Se)	**7.89**	**0.016**
Zinc (Zn)	**1490**	**2.98**

Percent Solids: 23.60 %

Calculations

PA-N (ppm) = [(f1) (ppm Org. N)] + [(V1) (ppm Ammonia N)] + (ppm Nitrate N)

ppm or mg/kg x .002 = lbs/dry ton

Biosolids/Residuals Application State: **CALIFORNIA**

Organic Nitrogen Mineralization Rate (f1): For ANAEROBICALLY DIGESTED **20.00%**

Ammonia Nitrogen Non-Volatilized Fraction (V1): For Injected:**1.00**

For Surface Appl.:**0.50**

NR = Data not Reported to Synagro or Data not Required

Notes: DAILY PERCENT SOLIDS WERE USED, ALL OTHER RESULTS ARE FROM CALSCIENCE ENVIRONMENTAL LABORATORIES, INC., SAMPLE DATE 12/21/12, REPORT# 13-01-0057.

Eureka Daily Solids Elk River WWTP Dec-12	
sample date	% solids
12/20/2012	23.88%
12/21/2012	23.88%

FIELD REPORT

December 2012
Permit No.: 98-023
County: SACRAMENTO
Crop: WHEAT, DURHUM
Plant Date: April 2013
Harvest Date: N/A

Synagro Field: CA-SA-00018-0-0082

Latitude: 38.21'25"
Longitude: 121.11'45"
Acres: 173.7 (70.35 ha)
Rate: 217.00 LBS PAN/ACRE
Applic. Method: SURFACE W/INCORP.

WET TONS APPLIED:	Month to Date:	4413.94	Year to Date:	5392.96
WET TONS APPLIED:	Crop Year to Date:	4413.94		
WET TONS APPL/ACRE:	Crop Year to Date:	25.41		
DRY TONS/ACRE APPLIED:	Month to Date:	4.80	Year to Date:	5.95
	Crop Year to Date:	4.80		

********POUNDS PER ACRE APPLIED *******
(Kilograms per Hectare Applied)

PARAMETER	MONTH TO DATE	CROP YEAR TO DATE	YEAR TO DATE	CUMULATIVE
PAN	165.70	165.70	207.28	
P	125.10	125.10	149.47	
K	16.95	16.95	20.93	
As	0.09 (0.10)	0.09 (0.10)	0.11 (0.12)	1.94 (2.17)
Cd	0.03 (0.03)	0.03 (0.03)	0.03 (0.03)	0.65 (0.73)
Cr	0.31 (0.35)	0.31 (0.35)	0.39 (0.44)	8.90 (9.97)
Cu	3.84 (4.30)	3.84 (4.30)	4.91 (5.50)	72.70 (81.42)
Pb	0.26 (0.29)	0.26 (0.29)	0.30 (0.34)	8.48 (9.50)
Hg	0.02 (0.02)	0.02 (0.02)	0.02 (0.02)	0.40 (0.45)
Mo	0.18 (0.20)	0.18 (0.20)	0.21 (0.24)	3.31 (3.71)
Ni	0.24 (0.27)	0.24 (0.27)	0.30 (0.34)	7.03 (7.87)
Se	0.05 (0.06)	0.05 (0.06)	0.07 (0.08)	1.10 (1.23)
Zn	10.37 (11.61)	10.37 (11.61)	12.74 (14.27)	185.44 (207.69)

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
12/01/2012	STC	18.92	23.84	WET TONS	4.51
12/01/2012	EIDELHC	16.83	23.08	WET TONS	3.88
12/01/2012	DDSDC	24.25	22.58	WET TONS	5.48
12/02/2012	USDC	22.17	25.05	WET TONS	5.55
12/02/2012	DCNSMC	23.66	25.32	WET TONS	5.99
12/03/2012	STC	18.92	24.22	WET TONS	4.58
12/03/2012	EIDDCC	12.05	19.99	WET TONS	2.41
12/03/2012	EIDELHC	16.83	23.35	WET TONS	3.93

December 2012

Synagro Field: CA-SA-00018-0-0082

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
12/03/2012	DDSDC	24.28	45.43	WET TONS	11.03
12/03/2012	USDC	22.17	47.81	WET TONS	10.60
12/03/2012	MIC	21.37	24.87	WET TONS	5.31
12/03/2012	PACCC	22.13	23.55	WET TONS	5.21
12/03/2012	ROC	13.63	45.99	WET TONS	6.27
12/04/2012	STC	18.92	72.56	WET TONS	13.73
12/04/2012	DDSDC	24.28	23.26	WET TONS	5.65
12/04/2012	USDC	22.17	24.24	WET TONS	5.37
12/04/2012	ROC	13.63	46.43	WET TONS	6.33
12/05/2012	STC	18.92	48.10	WET TONS	9.10
12/05/2012	EIDDCC	12.05	21.44	WET TONS	2.58
12/05/2012	PLHC	14.98	16.00	WET TONS	2.40
12/05/2012	DDSDC	24.28	45.53	WET TONS	11.05
12/05/2012	USDC	22.17	48.55	WET TONS	10.76
12/05/2012	DCNSMC	23.66	24.94	WET TONS	5.90
12/05/2012	PACCC	22.13	24.00	WET TONS	5.31
12/05/2012	ROC	13.63	46.56	WET TONS	6.35
12/06/2012	STC	18.92	71.65	WET TONS	13.56
12/06/2012	EIDDCC	12.05	24.60	WET TONS	2.96
12/06/2012	EIDELHC	16.83	22.85	WET TONS	3.85
12/06/2012	DDSDC	24.28	45.47	WET TONS	11.04
12/06/2012	ROC	13.63	44.92	WET TONS	6.12
12/07/2012	STC	18.92	47.92	WET TONS	9.07
12/07/2012	EIDDCC	12.05	19.83	WET TONS	2.39
12/07/2012	DDSDC	24.28	45.26	WET TONS	10.99
12/08/2012	DDSDC	24.28	45.36	WET TONS	11.01
12/10/2012	STC	18.92	73.07	WET TONS	13.82
12/10/2012	EIDDCC	12.05	22.35	WET TONS	2.69
12/10/2012	EIDELHC	16.83	23.36	WET TONS	3.93
12/10/2012	PLHC	14.98	11.44	WET TONS	1.71
12/10/2012	DDSDC	24.28	23.34	WET TONS	5.67
12/10/2012	ROC	13.63	45.78	WET TONS	6.24
12/11/2012	STC	18.92	23.84	WET TONS	4.51
12/11/2012	EIDELHC	16.83	21.36	WET TONS	3.59
12/11/2012	DDSDC	24.28	45.50	WET TONS	11.05
12/11/2012	ROC	13.63	46.64	WET TONS	6.36
12/12/2012	STC	18.92	97.78	WET TONS	18.50
12/12/2012	EIDDCC	12.05	24.57	WET TONS	2.96
12/12/2012	ROC	13.63	44.84	WET TONS	6.11
12/13/2012	STC	18.92	97.37	WET TONS	18.42
12/13/2012	EIDDCC	12.05	23.84	WET TONS	2.87
12/13/2012	DDSDC	24.28	45.87	WET TONS	11.14
12/13/2012	ROC	13.63	47.85	WET TONS	6.52
12/14/2012	STC	18.92	24.12	WET TONS	4.56
12/14/2012	EIDDCC	12.05	23.61	WET TONS	2.85
12/14/2012	EIDELHC	16.83	22.04	WET TONS	3.71
12/14/2012	PLHC	14.98	13.27	WET TONS	1.99
12/14/2012	DDSDC	24.28	45.06	WET TONS	10.94
12/15/2012	STC	18.92	48.57	WET TONS	9.19
12/17/2012	STC	18.92	73.27	WET TONS	13.86

December 2012

Synagro Field: CA-SA-00018-0-0082

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
12/17/2012	EIDDCC	12.05	23.07	WET TONS	2.78
12/17/2012	EIDELHC	16.83	22.12	WET TONS	3.72
12/17/2012	DDSDC	24.28	22.62	WET TONS	5.49
12/17/2012	USDC	22.17	23.77	WET TONS	5.27
12/17/2012	ROC	13.63	68.26	WET TONS	9.30
12/18/2012	STC	18.92	123.02	WET TONS	23.28
12/18/2012	EIDDCC	12.05	22.58	WET TONS	2.72
12/18/2012	DDSDC	24.28	22.59	WET TONS	5.48
12/18/2012	ROC	13.63	46.68	WET TONS	6.36
12/19/2012	STC	18.92	48.61	WET TONS	9.20
12/19/2012	EIDELHC	16.83	22.29	WET TONS	3.75
12/19/2012	PLHC	14.98	16.00	WET TONS	2.40
12/19/2012	DDSDC	24.28	23.25	WET TONS	5.65
12/19/2012	ROC	13.63	46.18	WET TONS	6.29
12/20/2012	STC	18.92	48.67	WET TONS	9.21
12/20/2012	EIDDCC	12.05	24.73	WET TONS	2.98
12/20/2012	DDSDC	24.28	22.82	WET TONS	5.54
12/20/2012	ROC	13.63	46.56	WET TONS	6.35
12/20/2012	EERLAGC	23.88	71.93	WET TONS	17.18
12/21/2012	STC	18.92	47.71	WET TONS	9.03
12/21/2012	EIDELHC	16.83	23.19	WET TONS	3.90
12/21/2012	DDSDC	24.28	45.25	WET TONS	10.99
12/21/2012	ROC	13.63	23.28	WET TONS	3.17
12/21/2012	EERLAGC	23.88	95.04	WET TONS	22.70
12/22/2012	DDSDC	24.28	22.75	WET TONS	5.52
12/22/2012	DCNSMC	23.66	25.07	WET TONS	5.93
12/24/2012	STC	18.92	47.51	WET TONS	8.99
12/24/2012	EIDDCC	12.05	22.00	WET TONS	2.65
12/24/2012	PLHC	14.98	17.32	WET TONS	2.59
12/24/2012	DDSDC	24.28	67.98	WET TONS	16.51
12/24/2012	ROC	13.63	46.75	WET TONS	6.37
12/26/2012	STC	18.92	23.81	WET TONS	4.50
12/26/2012	EIDDCC	12.05	24.09	WET TONS	2.90
12/26/2012	EIDELHC	16.83	22.45	WET TONS	3.78
12/26/2012	DDSDC	24.28	69.07	WET TONS	16.77
12/26/2012	USDC	22.17	24.77	WET TONS	5.49
12/26/2012	ROC	13.63	69.86	WET TONS	9.52
12/27/2012	STC	18.92	47.15	WET TONS	8.92
12/27/2012	EIDDCC	12.05	24.90	WET TONS	3.00
12/27/2012	DDSDC	24.28	22.71	WET TONS	5.51
12/27/2012	USDC	22.17	48.94	WET TONS	10.85
12/27/2012	ROC	13.63	43.37	WET TONS	5.91
12/28/2012	STC	18.92	24.10	WET TONS	4.56
12/28/2012	EIDDCC	12.05	23.84	WET TONS	2.87
12/28/2012	EIDELHC	16.83	23.63	WET TONS	3.98
12/28/2012	PLHC	14.98	18.27	WET TONS	2.74
12/28/2012	DDSDC	24.28	23.31	WET TONS	5.66
12/28/2012	DCNSMC	23.66	24.68	WET TONS	5.84
12/28/2012	ROC	13.63	44.84	WET TONS	6.11
12/29/2012	STC	18.92	47.53	WET TONS	8.99

December 2012 Synagro Field: CA-SA-00018-0-0082

DAILY FIELD LOADING SHEET

DATE APPLIED	TYPE	% SOLIDS	AMOUNT	UNIT	DRY TONS
12/29/2012	DDSDC	24.28	46.20	WET TONS	11.22
12/29/2012	USDC	22.17	24.80	WET TONS	5.50
12/29/2012	MIC	21.37	25.20	WET TONS	5.39
12/30/2012	BUC	18.79	23.27	WET TONS	4.37
12/30/2012	USDC	22.17	25.05	WET TONS	5.55
12/30/2012	DCNSMC	23.66	25.32	WET TONS	5.99
12/31/2012	STC	18.92	24.13	WET TONS	4.57
12/31/2012	EIDELHC	16.83	23.03	WET TONS	3.88
12/31/2012	DDSDC	24.28	68.56	WET TONS	16.65
12/31/2012	USDC	22.17	23.92	WET TONS	5.30
12/31/2012	DCNSMC	23.66	24.43	WET TONS	5.78
12/31/2012	ROC	13.63	45.82	WET TONS	6.25
TOTALS:			4,413.94	WET TONS	833.14 DT 755.66 MT

"NR" = Data not reported to Synagro Technologies, Inc or Data not required.

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Biosolids Land Application Annual Report

For

Eureka

Elk River WWTP

2012

2012 ANNUAL OPERATIONS SUMMARY - LAND APPLICATION IN CA

EUREKA, CA

EUREKA, CA ELK RIVER WWTP LAGOON CAKE

MONTH/YEAR	AMOUNT	UNIT	DRY TONS	UNIT	DRY METRIC TONS
October 2012	299.29	W	68.79	D	62.39
November 2012	1,002.15	W	241.83	D	219.34
December 2012	166.97	W	39.88	D	36.16
YEARLY TOTAL	1,468.41	W	350.50	D	317.89

2/14/2013

2012 ANNUAL OPERATIONS SUMMARY - LANDFILL in CA

EUREKA, CA

EUREKA, CA ELK RIVER WWTP DIGESTER CLEANOUT CAKE

MONTH/YEAR	AMOUNT	UNIT	DRY TONS	UNIT	DRY METRIC TONS
October 2012	162.37	W	53.41	D	48.44
December 2012	204.14	W	65.37	D	59.29
YEARLY TOTAL	366.51	W	118.78	D	107.73

2/14/2013

RESIDUALS SAMPLING SUMMARY FORM

For Date Sampled Range: **1/1/2012** To **12/31/2012**

Facility Name: EUREKA, CA
NPDES# :
WWTP NAME: ELK RIVER WWTP

Laboratory
CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

Residuals Analysis Data

Product Type	LAGC	LAGC	LAGC	DCOCAK	LAGC
Date Sampled (grab) or Date Composited	09/10/12	11/01/12	11/08/12	12/07/12	12/21/12
Percent Solids					
PARAMETERS (mg/kg dry weight)					
Arsenic	6.04	6.52	5.65	19	12.5
Cadmium	12.7	7.1	7.69	7.14	8.65
Chromium	35.1	45.5	41.7	39.7	42.7
Copper	1100	1150	1110	1010	1140
Lead	37.2	57.8	66.1	61.4	74.2
Mercury	0.872	2.46	2.25	2.37	1.22
Molybdenum	9.19	16.9	17.2	16.9	16.4
Nickel	28.4	32.8	33.6	31.5	35
Selenium	10.2	9.21	8.32	8.62	7.89
Zinc	1250	1550	1350	1340	1490
TKN	26000	52000	43000	42000	47000
Ammonia-Nitrogen	8800	8700	7300	6100	9000
Nitrate-Nitrogen	<3.3	<2.8	<2	<1.9	<2.1
Total Phosphorus	NR	16000	7400	12000	10000

NR - Data not reported to Synagro Technologies, Inc. or data not required.

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FIELDS APPLIED BY SYNAGRO
1/1/2012 thru 12/31/2012
Project: EUREKA, CA
Plant: ELK RIVER WWTP

Field	Latitude/Longitude	Landowner	Acres	Hec-tares	Dry Tons	DMT Applied	DT/AC Applied	DMT/HA Applied	Plant Available Nitrogen Applied (lbs/ac)	(kg/ha)	Crop	Planting Date *	Harvest Date **
STATE: CALIFORNIA													
COUNTY: SACRAMENTO													
CA-SA-00018-0-0001-A	38.21'32"/121.08'52"	GARY SILVA	21.50	8.7	51.77	46.96	2.41	5.39	37.77	42.30	WHEAT, DURHUM	11/01/12	
CA-SA-00018-0-0052-	38.20'12"/121.09'45"	GARY SILVA	32.90	13.3	17.02	15.44	0.52	1.16	8.11	9.09	SUDAN	10/16/12	
CA-SA-00018-0-0067-	38.20'46"/121.11'05"	GARY SILVA	32.80	13.3	61.36	55.65	1.87	4.19	40.37	45.22	WHEAT, DURHUM	12/01/12	
CA-SA-00018-0-0076-	38.21'16"/121.10'55"	GARY SILVA	39.10	15.8	64.24	58.27	1.64	3.68	35.46	39.72	WHEAT, DURHUM	12/01/12	
CA-SA-00018-0-0082-	38.21'25"/121.11'45"	GARY SILVA	173.70	70.3	39.87	36.16	0.23	0.51	5.56	6.22	WHEAT, DURHUM	04/01/13	
CA-SA-00018-0-0085-	38.22'03"/121.11'11"	GARY SILVA	150.00	60.8	116.24	105.43	0.77	1.74	16.73	18.73	WHEAT, DURHUM	04/01/13	

*** Fields where no Planting Date is listed the biosolids/residuals were applied to an existing crop.**

**** Fields where no Harvest Date is listed the crop was harvested through multiple hay cuttings and/or through grazing.**

Biosolids Land Application Annual Report

For

Eureka

Elk River WWTP

2012

2012 ANNUAL OPERATIONS SUMMARY - LAND APPLICATION IN CA

EUREKA, CA

REVISED 2/14/13

EUREKA, CA ELK RIVER WWTP LAGOON CAKE

MONTH/YEAR	AMOUNT	UNIT	DRY TONS	UNIT	DRY METRIC TONS
October 2012	299.29	W	68.79	D	62.39
November 2012	1,002.15	W	241.83	D	219.34
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YEARLY TOTAL	1,468.41	W	350.50	D	317.89

2/14/2013

2012 ANNUAL OPERATIONS SUMMARY - LANDFILL in CA

EUREKA, CA

EUREKA, CA ELK RIVER WWTP DIGESTER CLEANOUT CAKE

REVISED 2/14/13

MONTH/YEAR	AMOUNT	UNIT	DRY TONS	UNIT	DRY METRIC TONS
October 2012	162.37	W	53.41	D	48.44
December 2012	204.14	W	65.37	D	59.29
YEARLY TOTAL	366.51	W	118.78	D	107.73

2/14/2013

RESIDUALS SAMPLING SUMMARY FORM

For Date Sampled Range: 1/1/2012 To 12/31/2012

REVISED 2/14/13

Facility Name: EUREKA, CA
NPDES# :
WWTP NAME: ELK RIVER WWTP

Laboratory
CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

Residuals Analysis Data

Product Type	LAGC	LAGC	LAGC	DCOCAK	LAGC
Date Sampled (grab) or Date Composited	09/10/12	11/01/12	11/08/12	12/07/12	12/21/12
Percent Solids					
PARAMETERS (mg/kg dry weight)					
Arsenic	6.04	6.52	5.65	19	12.5
Cadmium	12.7	7.1	7.69	7.14	8.65
Chromium	35.1	45.5	41.7	39.7	42.7
Copper	1100	1150	1110	1010	1140
Lead	37.2	57.8	66.1	61.4	74.2
Mercury	0.872	2.46	2.25	2.37	1.22
Molybdenum	9.19	16.9	17.2	16.9	16.4
Nickel	28.4	32.8	33.6	31.5	35
Selenium	10.2	9.21	8.32	8.62	7.89
Zinc	1250	1550	1350	1340	1490
TKN	26000	52000	43000	42000	47000
Ammonia-Nitrogen	8800	8700	7300	6100	9000
Nitrate-Nitrogen	<3.3	<2.8	<2	<1.9	<2.1
Total Phosphorus	NR	16000	7400	12000	10000

NR - Data not reported to Synagro Technologies, Inc. or data not required.

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REVISED 2/14/13

FIELDS APPLIED BY SYNAGRO
1/1/2012 thru 12/31/2012
Project: EUREKA, CA
Plant: ELK RIVER WWTP

Field	Latitude/Longitude	Landowner	Acres	Hec-tares	Dry Tons	DMT Applied	DT/AC Applied	DMT/HA Applied	Plant Available Nitrogen Applied (lbs/ac)	Plant Available Nitrogen Applied (kg/ha)	Crop	Planting Date *	Harvest Date **
STATE: CALIFORNIA													
COUNTY: SACRAMENTO													
CA-SA-00018-0-0001-A	38.21'32"/121.08'52"	GARY SILVA	21.50	8.7	51.77	46.96	2.41	5.39	37.77	42.30	WHEAT, DURHUM	11/01/12	
CA-SA-00018-0-0052-	38.20'12"/121.09'45"	GARY SILVA	32.90	13.3	17.02	15.44	0.52	1.16	8.11	9.09	SUDAN	10/16/12	
CA-SA-00018-0-0067-	38.20'46"/121.11'05"	GARY SILVA	32.80	13.3	61.36	55.65	1.87	4.19	40.37	45.22	WHEAT, DURHUM	12/01/12	
CA-SA-00018-0-0076-	38.21'16"/121.10'55"	GARY SILVA	39.10	15.8	64.24	58.27	1.64	3.68	35.46	39.72	WHEAT, DURHUM	12/01/12	
CA-SA-00018-0-0082-	38.21'25"/121.11'45"	GARY SILVA	173.70	70.3	39.87	36.16	0.23	0.51	5.56	6.22	WHEAT, DURHUM	04/01/13	
CA-SA-00018-0-0085-	38.22'03"/121.11'11"	GARY SILVA	150.00	60.8	116.24	105.43	0.77	1.74	16.73	18.73	WHEAT, DURHUM	04/01/13	

*** Fields where no Planting Date is listed the biosolids/residuals were applied to an existing crop.**

**** Fields where no Harvest Date is listed the crop was harvested through multiple hay cuttings and/or through grazing.**