

10-25-18 ○ ○

To: Jason Herman 505-827-2713 office
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FR: DP-465 Steve Rael

RE: SDDS 2017

pgs 14 with cover

GROUND WATER

OCT 25 2018

BUREAU

Surface Disposal DS&R Septic

Cell # 1 Acres 0.21 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge		Total N 600xCx8.34	N-loading (lbs) Total N/Ac
		Volume gallons	V/million V/1000000		
Jan	2017	7,000	0.0070	35.03	166.80
Feb	2017	0	0.0000	0.00	0.00
Mar	2017	7,000	0.0070	35.03	166.80
Apr	2017	0	0.0000	0.00	0.00
May	2017	8,000	0.0080	40.03	190.63
Jun	2017	0	0.0000	0.00	0.00
Jan-Jun	Total	22,000			524.23
Jul	2017	14,000	0.0140	70.06	333.60
Aug	2017	1,000	0.0010	5.00	23.83
Sep	2017	6,000	0.0060	30.02	142.97
Oct	2017	2,000	0.0020	10.01	47.66
Nov	2017	2,000	0.0020	10.01	47.66
Dec	2017	2,000	0.0020	10.01	47.66
Jul-Dec	Total	27,000			643.37

GROUND WATER

OCT 25 2018

BUREAU

Surface Disposal DS&R Septic

Cell # 2 Acres 0.15 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge		Total N 600xCx8.34	N-loading (lbs) Total N/Ac
		Volume gallons	V/million V/1000000		
Jan	2017	10,500	0.0105	52.54	250.20
Feb	2017	0	0.0000	0.00	0.00
Mar	2017	3,000	0.0030	15.01	71.49
Apr	2017	3,000	0.0030	15.01	71.49
May	2017	0	0.0000	0.00	0.00
Jun	2017	6,000	0.0060	30.02	142.97
Jan-Jun	Total	22,500			536.14
Jul	2017	4,000	0.0040	20.02	95.31
Aug	2017	1,000	0.0010	5.00	23.83
Sep	2017	6,000	0.0060	30.02	142.97
Oct	2017	5,000	0.0050	25.02	119.14
Nov	2017	3,000	0.0030	15.01	71.49
Dec	2017	4,000	0.0040	20.02	95.31
Jul-Dec	Total	23,000			548.06

incorrect.
Divide by 0.15
not 0.21

750.60 total

767.28 total

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Surface Disposal DSD in Seattle

Cell # 3 Acres 0.14 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge		Total N 600xCx8.34	N-loading (lbs) Total N/Ac
		Volume gallons	V/million V/1000000		
Jan	2017	4,000	0.0040	20.02	142.97
Feb	2017	0	0.0000	0.00	0.00
Mar	2017	0	0.0000	0.00	0.00
Apr	2017	9,000	0.0090	45.04	321.69
May	2017	0	0.0000	0.00	0.00
Jun	2017	6,000	0.0060	30.02	214.46
Jan-Jun	Total	19,000			679.11
Jul	2017	5,000	0.0050	25.02	178.71
Aug	2017	1,000	0.0010	5.00	35.74
Sep	2017	6,000	0.0060	30.02	214.46
Oct	2017	3,000	0.0030	15.01	107.23
Nov	2017	4,000	0.0040	20.02	142.97
Dec	2017	1,650	0.0016	8.26	58.98
Jul-Dec	Total	20,650			738.09

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Surface Disposal DSD & SDD

Cell # 4 Acres 0.18 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge			N-loading (lbs)
		Volume gallons	V/million V/1000000	Total N 600xCx8.34	
Jan	2017	6,000	0.0060	30.02	166.80
Feb	2017	0	0.0000	0.00	0.00
Mar	2017	0	0.0000	0.00	0.00
Apr	2017	6,000	0.0060	30.02	166.80
May	2017	0	0.0000	0.00	0.00
Jun	2017	7,000	0.0070	35.03	194.60
Jan-Jun	Total	19,000			528.20
Jul	2017	1,000	0.0010	5.00	27.80
Aug	2017	3,000	0.0030	15.01	83.40
Sep	2017	3,000	0.0030	15.01	83.40
Oct	2017	3,000	0.0030	15.01	83.40
Nov	2017	11,500	0.0115	57.55	319.70
Dec	2017	6,000	0.0060	30.02	166.80
Jul-Dec	Total	27,500			764.50

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Surface Disposal DS&R Septic

Cell # 5 Acres 0.13 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge			N-loading (lbs)
		Volume gallons	V/million V/1000000	Total N 600xCx8.34	
Jan	2017	0	0.0000	0.00	0.00
Feb	2017	4,000	0.0040	20.02	153.97
Mar	2017	0	0.0000	0.00	0.00
Apr	2017	3,000	0.0030	15.01	115.48
May	2017	0	0.0000	0.00	0.00
Jun	2017	6,000	0.0060	30.02	230.95
Jan-Jun	Total	13,000			500.40
Jul	2017	1,000	0.0010	5.00	38.49
Aug	2017	6,000	0.0060	30.02	230.95
Sep	2017	2,000	0.0020	10.01	76.98
Oct	2017	4,000	0.0040	20.02	153.97
Nov	2017	1,000	0.0010	5.00	38.49
Dec	2017	2,000	0.0020	10.01	76.98
Jul-Dec	Total	16,000			615.88

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Surface Disposal DS&R Septic

Cell # 6 Acres 0.06 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2016 and Jul-Dec 2016 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge		Total N 600xCx8.34	N-loading (lbs) Total N/Ac
		Volume gallons	V/million V/1000000		
Jan	2017	0	0.0000	0.00	0.00
Feb	2017	9,000	0.0090	45.04	750.60
Mar	2017	0	0.0000	0.00	0.00
Apr	2017	2,000	0.0020	10.01	166.80
May	2017	2,000	0.0020	10.01	166.80
Jun	2017	7,000	0.0070	35.03	583.80
Jan-Jun	Total	20,000			1,668.00
Jul	2017	5,000	0.0050	25.02	417.00
Aug	2017	2,000	0.0020	10.01	166.80
Sep	2017	4,500	0.0045	22.52	375.30
Oct	2017	2,000	0.0020	10.01	166.80
Nov	2017	5,500	0.0055	27.52	458.70
Dec	2017	6,000	0.0060	30.02	500.40
Jul-Dec	Total	25,000			2,085.00

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Surface Disposal DSD & Septic
Cell # 7 Acres 0.13 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge			N-loading (lbs)
		Volume gallons	V/million V/1000000	Total N 600xCx8.34	
Jan	2017	0	0.0000	0.00	0.00
Feb	2017	5,200	0.0052	26.02	200.16
Mar	2017	0	0.0000	0.00	0.00
Apr	2017	0	0.0000	0.00	0.00
May	2017	6,500	0.0065	32.53	250.20
Jun	2017	5,000	0.0050	25.02	192.46
Jan-Jun	Total	16,700			642.82
Jul	2017	6,000	0.0060	30.02	230.95
Aug	2017	4,000	0.0040	20.02	153.97
Sep	2017	4,500	0.0045	22.52	173.22
Oct	2017	5,000	0.0050	25.02	192.46
Nov	2017	1,000	0.0010	5.00	38.49
Dec	2017	6,000	0.0060	30.02	230.95
Jul-Dec	Total	26,500			1,020.05



Surface Disposal DSO & Septic

Cell # 8 Acres 0.17 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge		Total N	N-loading (lbs)
		Volume gallons	V/million V/1000000		
				600xCx8.34	Total N/Ac
Jan	2017	0	0.0000	0.00	0.00
Feb	2017	6,000	0.0060	30.02	176.61
Mar	2017	0	0.0000	0.00	0.00
Apr	2017	0	0.0000	0.00	0.00
May	2017	5,500	0.0055	27.52	161.89
Jun	2017	7,000	0.0070	35.03	206.05
Jan-Jun	Total	18,500			544.55
Jul	2017	1,000	0.0010	5.00	29.44
Aug	2017	2,000	0.0020	10.01	58.87
Sep	2017	1,000	0.0010	5.00	29.44
Oct	2017	3,000	0.0030	15.01	88.31
Nov	2017	2,000	0.0020	10.01	58.87
Dec	2017	2,500	0.0025	12.51	73.59
Jul-Dec	Total	11,500			338.51

Surface Disposal DSDS & SDDSS

Cell # 9 Acres 0.28 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge Volume gallons	V/million V/1000000	Total N 600xCx8.34	N-loading (lbs) Total N/Ac
Jan	2017	0	0.0000	0.00	0.00
Feb	2017	7,000	0.0070	35.03	125.10
Mar	2017	1,000	0.0010	5.00	17.87
Apr	2017	0	0.0000	0.00	0.00
May	2017	10,000	0.0100	50.04	178.71
Jun	2017	7,000	0.0070	35.03	125.10
Jan-Jun	Total	25,000			446.79
Jul	2017	1,000	0.0010	5.00	17.87
Aug	2017	3,000	0.0030	15.01	53.61
Sep	2017	3,000	0.0030	15.01	53.61
Oct	2017	2,000	0.0020	10.01	35.74
Nov	2017	3,000	0.0030	15.01	53.61
Dec	2017	1,000	0.0010	5.00	17.87
Jul-Dec	Total	13,000			232.33

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Surface Disposal Data & Septic

Cell # 10 Acres 0.17 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge			N-loading (lbs)
		Volume gallons	V/million V/1000000	Total N 600xCx8.34	
Jan	2017	0	0.0000	0.00	0.00
Feb	2017	0	0.0000	0.00	0.00
Mar	2017	7,000	0.0070	35.03	206.05
Apr	2017	0	0.0000	0.00	0.00
May	2017	5,500	0.0055	27.52	161.89
Jun	2017	6,000	0.0060	30.02	176.61
Jan-Jun	Total	18,500			544.55
Jul	2017	1,000	0.0010	5.00	29.44
Aug	2017	4,000	0.0040	20.02	117.74
Sep	2017	6,000	0.0060	30.02	176.61
Oct	2017	9,000	0.0090	45.04	264.92
Nov	2017	2,000	0.0020	10.01	58.87
Dec	2017	3,200	0.0032	16.01	94.19
Jul-Dec	Total	25,200			741.77

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Surface Disposal Data & Septic

Cell # 11 Acres 0.13 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge		Total N 600xCx8.34	N-loading (lbs) Total N/Ac
		Volume gallons	V/million V/1000000		
Jan	2017	0	0.0000	0.00	0.00
Feb	2017	0	0.0000	0.00	0.00
Mar	2017	6,000	0.0060	30.02	230.95
Apr	2017	0	0.0000	0.00	0.00
May	2017	6,000	0.0060	30.02	230.95
Jun	2017	7,000	0.0070	35.03	269.45
Jan-Jun	Total	19,000			731.35
Jul	2017	2,000	0.0020	10.01	76.98
Aug	2017	1,000	0.0010	5.00	38.49
Sep	2017	5,400	0.0054	27.02	207.86
Oct	2017	6,400	0.0064	32.03	246.35
Nov	2017	2,000	0.0020	10.01	76.98
Dec	2017	2,000	0.0020	10.01	76.98
Jul-Dec	Total	18,800			723.66

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Surface Disposal Data for Septic

Cell # 12 Acres 0.18 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge		Total N 600xCx8.34	N-loading (lbs) Total N/Ac
		Volume gallons	V/million V/1000000		
Jan	2017	0	0.0000	0.00	0.00
Feb	2017	0	0.0000	0.00	0.00
Mar	2017	5,000	0.0050	25.02	139.00
Apr	2017	0	0.0000	0.00	0.00
May	2017	7,000	0.0070	35.03	194.60
Jun	2017	6,000	0.0060	30.02	166.80
Jan-Jun	Total	18,000			500.40
Jul	2017	6,000	0.0060	30.02	166.80
Aug	2017	2,000	0.0020	10.01	55.60
Sep	2017	6,000	0.0060	30.02	166.80
Oct	2017	2,000	0.0020	10.01	55.60
Nov	2017	6,000	0.0060	30.02	166.80
Dec	2017	1,250	0.0012	6.26	34.75
Jul-Dec	Total	23,250			646.35

(12)

Sheet1

Sheet2

Sheet3

Surface Disposal Data for Septic

Cell # 13 Acres 0.11 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2017 and Jul-Dec 2017 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge		Total N	N-loading (lbs)
		Volume gallons	V/million V/1000000		
Jan	2017	0	0.0000	0.00	0.00
Feb	2017	0	0.0000	0.00	0.00
Mar	2017	6,000	0.0060	30.02	272.95
Apr	2017	0	0.0000	0.00	0.00
May	2017	3,000	0.0030	15.01	136.47
Jun	2017	6,000	0.0060	30.02	272.95
Jan-Jun	Total	15,000			682.36
Jul	2017	2,000	0.0020	10.01	90.98
Aug	2017	2,000	0.0020	10.01	90.98
Sep	2017	3,000	0.0030	15.01	136.47
Oct	2017	7,200	0.0072	36.03	327.53
Nov	2017	2,000	0.0020	10.01	90.98
Dec	2017	2,000	0.0020	10.01	90.98
Jul-Dec	Total	18,200			827.93

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