

10-25-18

To: Jason Herman  
505-827-2965 FAX  
505-827.2713 office

Fr. DP-465 Steve Ral

Re: 2018 SDDS

GROUND WATER

OCT 25 2018

BUREAU

Sheet1

Sheet2

Sheet3

Surface Disposal DS&R Septic

Cell # 1 Acres 0.21 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2018 Jul - Dec 2016 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge			N-loading (lbs) Total N/Ac
		Volume gallons	V/million V/1000000	Total N 600xCx8.34	
Jan	2018	5,500	0.0055	27.52	131.06
Feb	2018	0	0.0000	0.00	0.00
Mar	2018	5,500	0.0055	27.52	131.06
Apr	2018	5,000	0.0050	25.02	119.14
May	2018	5,000	0.0050	25.02	119.14
Jun	2018	0	0.0000	0.00	0.00
<b>Jan-Jun</b>	<b>Total</b>	<b>21,000</b>			<b>500.40</b>

GROUND WATER

OCT 25 2018

BUREAU

Surface Disposal DSDS & Septic

Cell # 2 Acres 0.15 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2016 and Jul - Dec 2016 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	2018	3,400	0.0034	17.01	81.02
Feb	2018	0	0.0000	0.00	0.00
Mar	2018	3,400	0.0034	17.01	81.02
Apr	2018	7,000	0.0070	35.03	166.80
May	2018	2,000	0.0020	10.01	47.66
Jun	2018	4,000	0.0040	20.02	95.31
Jan-Jun	Total	19,800			471.81

incorrect.  
divide by 0.15  
660.53 not 0.21

Sheet1

Sheet2

Sheet3

Cell #	3	Acres	0.14	SDDS Calculations		DP-465
Reporting Period: Jan-Jun 2016 and Jul - Dec 2016 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	2018	6,000	0.0060	30.02		214.46
Feb	2018	0	0.0000	0.00		0.00
Mar	2018	5,200	0.0052	26.02		185.86
Apr	2018	9,500	0.0095	47.54		339.56
May	2018	0	0.0000	0.00		0.00
Jun	2018	7,000	0.0070	35.03		250.20
<b>Jan-Jun</b>	<b>Total</b>	<b>27,700</b>				<b>990.08</b>

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Surface Disposal DSS & Septic

Cell # 4 Acres 0.18 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2018 Jul - Dec 2016 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	2018	7,000	0.0070	35.03	194.60
Feb	2018	0	0.0000	0.00	0.00
Mar	2018	3,000	0.0030	15.01	83.40
Apr	2018	2,000	0.0020	10.01	55.60
May	2018	0	0.0000	0.00	0.00
Jun	2018	4,000	0.0040	20.02	111.20
<b>Jan-Jun</b>	<b>Total</b>	<b>16,000</b>			<b>444.80</b>

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Surface Disposal DS&R Septic

Cell # 5 Acres 0.13 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2018 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	2018	5,500	0.0055	27.52	211.71
Feb	2018	0	0.0000	0.00	0.00
Mar	2018	5,500	0.0055	27.52	211.71
Apr	2018	1,000	0.0010	5.00	38.49
May	2018	5,000	0.0050	25.02	192.46
Jun	2018	6,000	0.0060	30.02	230.95
<b>Jan-Jun</b>	<b>Total</b>	<b>23,000</b>			<b>885.32</b>

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Surface Disposal DS&R Septic

Cell # 6 Acres 0.06 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2018 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	2018	5,000	0.0050	25.02	417.00
Feb	2018	0	0.0000	0.00	0.00
Mar	2018	4,000	0.0040	20.02	333.60
Apr	2018	0	0.0000	0.00	0.00
May	2018	7,500	0.0075	37.53	625.50
Jun	2018	4,000	0.0040	20.02	333.60
<b>Jan-Jun</b>	<b>Total</b>	<b>20,500</b>			<b>1,709.70</b>

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Surface Disposal DS&R Permit

Cell # 7 Acres 0.13 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2018 and Jul-Dec 2018 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	2018	1,500	0.0015	7.51	57.74
Feb	2018	5,000	0.0050	25.02	192.46
Mar	2018	6,000	0.0060	30.02	230.95
Apr	2018	0	0.0000	0.00	0.00
May	2018	5,500	0.0055	27.52	211.71
Jun	2018	5,000	0.0050	25.02	192.46
Jan-Jun	Total	23,000			885.32

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Sheet1

Sheet2

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Surface Disposal DSDS & Septic

Cell # 8 Acres 0.17 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2018 Jul - Dec 2016 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge			N-loading (lbs) Total N/Ac
		Volume gallons	V/million V/1000000	Total N 600xCx8.34	
Jan	2018	0	0.0000	0.00	0.00
Feb	2018	6,000	0.0060	30.02	176.61
Mar	2018	5,200	0.0052	26.02	153.06
Apr	2018	0	0.0000	0.00	0.00
May	2018	4,000	0.0040	20.02	117.74
Jun	2018	2,000	0.0020	10.01	58.87
<b>Jan-Jun</b>	<b>Total</b>	<b>17,200</b>			<b>506.29</b>

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Surface Disposal DS&R Site

Cell # 9 Acres 0.28 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2018 Jul - Dec 2016 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge		Total N	N-loading (lbs)
		Volume gallons	V/million V/1000000		
Jan	2018	3,250	0.0032	16.26	58.08
Feb	2018	5,750	0.0058	28.77	102.76
Mar	2018	5,500	0.0055	27.52	98.29
Apr	2018	0	0.0000	0.00	0.00
May	2018	4,000	0.0040	20.02	71.49
Jun	2018	2,000	0.0020	10.01	35.74
<b>Jan-Jun</b>	<b>Total</b>	<b>20,500</b>			<b>366.36</b>

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Surface Disposal DS&NS Septic

Cell # 10 Acres 0.17 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2018 Jul - Dec 2016 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	2018	5,000	0.0050	25.02	147.18
Feb	2018	6,700	0.0067	33.53	197.22
Mar	2018	0	0.0000	0.00	0.00
Apr	2018	5,500	0.0055	27.52	161.89
May	2018	6,000	0.0060	30.02	176.61
Jun	2018	0	0.0000	0.00	0.00
<b>Jan-Jun</b>	<b>Total</b>	<b>23,200</b>			<b>682.90</b>

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**Surface Disposal DS&R Septic**

**Cell # 11 Acres 0.13 SDDS Calculations DP-465**

**Reporting Period: Jan-Jun 2018 Jul - Dec 2016 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	2018	4,000	0.0040	20.02	153.97
Feb	2018	3,500	0.0035	17.51	134.72
Mar	2018	0	0.0000	0.00	0.00
Apr	2018	7,400	0.0074	37.03	284.84
May	2018	5,000	0.0050	25.02	192.46
Jun	2018	0	0.0000	0.00	0.00
<b>Jan-Jun</b>	<b>Total</b>	<b>19,900</b>			<b>766.00</b>

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Surface Disposal DS&R Septic

Cell # 12 Acres 0.18 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2018 Jul - Dec 2016 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	2018	4,000	0.0040	20.02	111.20
Feb	2018	4,700	0.0047	23.52	130.66
Mar	2018	1,000	0.0010	5.00	27.80
Apr	2018	7,000	0.0070	35.03	194.60
May	2018	3,000	0.0030	15.01	83.40
Jun	2018	0	0.0000	0.00	0.00
<b>Jan-Jun</b>	<b>Total</b>	<b>19,700</b>			<b>547.66</b>

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Surface Disposal DS&R Septic

Cell # 13 Acres 0.11 SDDS Calculations DP-465

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

Month	Year	Discharge			N-loading (lbs) Total N/Ac
		Volume gallons	V/million V/1000000	Total N 600xCx8.34	
Jan	2018	6,500	0.0065	32.53	295.69
Feb	2018	0	0.0000	0.00	0.00
Mar	2018	6,700	0.0067	33.53	304.79
Apr	2018	2,000	0.0020	10.01	90.98
May	2018	4,200	0.0042	21.02	191.06
Jun	2018	0	0.0000	0.00	0.00
<b>Jan-Jun</b>	<b>Total</b>	<b>19,400</b>			<b>882.52</b>

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Surface Disposal DS&NS Septic

Cell # 14 Acres 0.14 SDDS Calculations DP-465

Reporting Period: Jan-Jun 2018 Jul-Dec 2016 Assumes 600 mg/L Nitrogen Concentration

Month	Year	Discharge		Total N	Sludge	N-loading (lbs)
		Volume gallons	V/million V/1000000			
Jan	2018	5,200	0.0052	26.02		123.91
Feb	2018	0	0.0000	0.00		0.00
Mar	2018	5,200	0.0052	26.02		123.91
Apr	2018	0	0.0000	0.00		0.00
May	2018	5,200	0.0052	26.02		123.91
Jun	2018	0	0.0000	0.00		0.00
<b>Jan-Jun</b>	<b>Total</b>	<b>15,600</b>				<b>371.73</b>

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**Surface Disposal DS&N Septic**

**Cell # 15 Acres 0.10 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	Sludge	N-loading (lbs) Total N/Ac
		Volume gallons	V/million V/1000000			
Jan	2018	0	0.0000	0.00		0.00
Feb	2018	5,200	0.0052	26.02		123.91
Mar	2018	0	0.0000	0.00		0.00
Apr	2018	5,200	0.0052	26.02		123.91
May	2018	0	0.0000	0.00		0.00
Jun	2018	5,200	0.0052	26.02		123.91
<b>Jan-Jun</b>	<b>Total</b>	<b>15,600</b>				<b>371.73</b>

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