

MONTH	FLOWS			BIOCHEMICAL OXYGEN DEMAND				TOTAL SUSPENDED SOLIDS			
	TOTAL X1000m3	AVG.DAY X1000m3	MAX DAY X1000m3	BOD5 INF 24HR COMP mg/L	* CBOD5 EFF 24HR COMP mg/L	PERCENT REMOVAL %	** EFF LOADING kg/day	INF 24HR COMP mg/L	EFF MONTHLY AVG CONC mg/L	PERCENT REMOVAL %	** EFF LOADING kg/day
JAN.	12.170	0.393	0.472	153	3.0	98.04	1.18	160	7	95.63	2.75
FEB.	11.227	0.387	0.526	308	3.0	99.03	1.16	104	7	93.27	2.71
MAR.	14.331	0.462	0.536	135	3.0	97.78	1.39	135	4	97.04	1.85
APR.	17.785	0.593	0.736	79	3.0	96.20	1.78	109	3	97.25	1.78
MAY	17.056	0.550	0.642	61	3.0	95.08	1.65	91	6	93.41	3.30
JUN.	15.474	0.516	0.862	111	3.0	97.30	1.55	132	6	95.45	3.10
JUL.	22.149	0.714	1.198	108	3.0	97.22	2.14	75	6	92.00	4.28
AUG.	17.924	0.578	0.699	167	3.0	98.20	1.73	76	7	90.79	4.05
SEP.	15.294	0.510	0.704	121	3.0	97.52	1.53	143	6	95.80	3.06
OCT.	12.386	0.400	0.504	151	3.0	98.01	1.20	112	6	94.64	2.40
NOV.	12.376	0.413	0.506	83	3.0	96.39	1.24	76	6	92.11	2.48
DEC.	15.247	0.492	0.669	98	3.0	96.94	1.48	108	8	92.59	3.94
TOTAL	183.419										
AVERAGE	15.285	0.501	0.671	131	3.0	97.31	1.50	110	6.0	94.16	2.97
MAX	22.149	0.714	1.198	308	3.0	99.03	2.14	160	8	97.25	4.28
LIMITS		<b>1.080</b>	<b>2.700</b>		<b>25</b>		<b>27</b>		<b>25</b>		<b>27.00</b>
OBJECTIVES					<b>15</b>		<b>16.2</b>		<b>15</b>		<b>16.20</b>

\* CBOD5 - sample analysis reported as <3 mg/L (MDL is 3mg/L)

\*\* EFF Loading - based on monthly average daily flow

Average Daily Flow: 501 m3

CBOD5 Annual Average Concentration: 3 mg/L

CBOD5 Annual Average Loading: 1.50 kg/day

TSS Annual Average Concentration: 6 mg/L

TSS Annual Average Loading: 3.0 kg/day

MONTH	TOTAL PHOSPHORUS				TKN INF 24HR COMP mg/L	pH		
	INF 24HR COMP mg/L	EFF MONTHLY AVG CONC mg/L	PERCENT REMOVAL %	** EFF LOADING kg/day		INFLUENT AVERAGE	EFFLUENT MINIMUM	EFFLUENT MAXIMUM
JAN.	5.29	0.35	93.38	0.14	32.6	8.01	6.54	6.70
FEB.	7.40	0.32	95.68	0.12	76.8	7.92	6.56	6.79
MAR.	7.49	0.24	96.80	0.11	98.2	8.03	6.66	6.88
APR.	4.00	0.24	94.00	0.14	34.5	8.02	6.69	7.32
MAY	4.40	0.27	93.86	0.15	37.6	7.42	6.94	7.14
JUN.	3.80	0.19	95.00	0.10	42.2	7.95	6.59	7.25
JUL.	4.17	0.21	94.96	0.15	37.8	7.79	7.04	7.21
AUG.	4.61	0.31	93.28	0.18	35.9	7.82	6.99	7.28
SEP.	5.38	0.32	94.05	0.16	32.2	7.93	7.07	7.22
OCT.	4.83	0.29	94.00	0.12	56.1	7.99	7.03	7.18
NOV.	4.73	0.37	92.18	0.15	35.3	8.28	7.04	7.24
DEC.	3.50	0.26	92.57	0.13	24.4	8.17	6.95	7.37
AVERAGE	4.97	0.28	94.15	0.14	45.30	7.94	6.84	7.13
MAX(MIN)	7.49	0.37	96.80	0.18			6.54	7.37
LIMITS		1.00		1.10			>6	<8.5
OBJECTIVES		1.00		1.10			>6.5	<8.5

\*\* EFF Loading - based on monthly average daily flow

Total Phosphorus Annual Average Loading: 0.14 kg/day

MONTH	Total Flow X1000m3	Sodium Hypochlorite			* E. coli	Pre Hydr Alum Sulphate		Sodium Bisulphite		Number of By-passes
		Kg Used	Dosage mg/l	Effluent Residual mg/l	Counts per 100ml	Kg Used	Dosage mg/l	Kg Used	Dosage mg/l	
JAN.	12.170	75.96	6.24	0.0	1	551.19	45.29	33.82	2.78	0
FEB.	11.227	71.10	6.33	0.0	1	513.07	45.70	69.92	6.23	0
MAR.	14.331	81.96	5.72	0.0	2	644.93	45.00	86.94	6.07	0
APR.	17.785	99.96	5.62	0.0	1	823.66	46.31	82.86	4.66	0
MAY	17.056	101.76	5.97	0.0	2	826.79	48.48	79.49	4.66	0
JUN.	15.474	104.64	6.76	0.0	3	729.92	47.17	73.54	4.75	0
JUL.	22.149	132.00	5.96	0.0	1	1039.30	46.92	83.11	3.75	0
AUG.	17.924	110.64	6.17	0.0	3	769.92	42.95	60.17	3.36	0
SEP.	15.294	106.92	6.99	0.0	4	770.54	50.38	59.91	3.92	0
OCT.	12.386	88.20	7.12	0.0	3	476.20	38.45	53.63	4.33	0
NOV.	12.376	85.32	6.89	0.0	2	519.32	41.96	54.55	4.41	0
DEC.	15.247	88.32	5.79	0.0	2	689.93	45.25	66.37	4.35	0
TOTAL	183.419	1146.78				8354.77		804.31		
AVERAGE	15.285	95.57	6.30	0.0	2	696.23	45.32	67.03	4.44	
MAX	22.149	132	7.12		4	1039.30	50.38	86.94	6.23	
LIMITS					<200					
OBJECTIVES					<200					

\* E. coli - monthly geometric mean density

Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3	Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3	Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3
	mg/l	kg/day			ug/l	mg/l			kg/day	ug/l	
Jan.3	0.06	0.02	0.04	Mar.6	0.07	0.03	0.08	May 1	0.05	0.03	0.12
Jan.9	0.05	0.02	0.03	Mar.12	0.05	0.02	0.06	May 8	0.04	0.02	0.11
Jan.17	0.03	0.01	0.02	Mar.20	0.09	0.04	0.09	May 14	0.04	0.02	0.11
Jan.24	0.03	0.01	0.02	Mar.27	0.07	0.03	0.07	May 22	0.04	0.02	0.11
Jan.31	0.07	0.03	0.04					May 29	0.04	0.02	0.10
Feb.7	0.04	0.02	0.02	Apr.3	0.04	0.02	0.04	Jun. 5	0.04	0.02	0.07
Feb.13	0.03	0.01	0.03	Apr.9	0.04	0.02	0.05	Jun. 11	0.11	0.06	0.18
Feb.21	0.08	0.03	0.04	Apr.17	0.05	0.03	0.11	Jun.19	0.05	0.03	0.13
Feb.28	0.06	0.02	0.04	Apr.24	0.05	0.03	0.12	Jun. 26	0.05	0.03	0.27
MAX.	0.08	0.03	0.04		0.09	0.04	0.12		0.11	0.06	0.27
<b>LIMITS</b>	<b>5.00</b>	<b>5.40</b>	<b>20</b>		<b>5.00</b>	<b>5.40</b>	<b>20</b>		<b>5.00</b>	<b>5.40</b>	<b>20</b>

Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3 ug/l	Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3 ug/l	Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3 ug/l
	mg/l	kg/day			mg/l	kg/day			mg/l	kg/day	
Jul. 3	0.04	0.03	0.20	Sep. 4	0.02	0.01	0.10	Nov. 6	0.02	0.01	0.07
Jul. 9	0.04	0.03	0.17	Sep. 10	0.03	0.02	0.12	Nov. 12	0.05	0.02	0.16
Jul. 17	0.04	0.03	0.21	Sep. 18	0.02	0.01	0.08	Nov. 20	0.05	0.02	0.11
Jul. 24	0.05	0.04	0.20	Sep. 27	0.04	0.02	0.17	Nov. 27	0.06	0.02	0.23
Jul.31	0.03	0.02	0.14								
Aug. 7	0.03	0.02	0.14	Oct. 2	0.02	0.01	0.11	Dec. 4	0.02	0.01	0.07
Aug. 13	0.04	0.02	0.22	Oct. 8	0.02	0.01	0.09	Dec. 10	0.02	0.01	0.05
Aug. 21	0.04	0.02	0.31	Oct. 16	0.02	0.01	0.06	Dec. 18	0.05	0.02	0.16
Aug. 28	0.04	0.02	0.27	Oct. 23	0.03	0.01	0.09	Dec. 27	0.02	0.01	0.05
				Oct.30	0.04	0.02	0.11				
MAX.	0.05	0.04	0.31		0.04	0.02	0.17		0.06	0.02	0.23
LIMITS	5.00	5.40	20		5.00	5.40	20		5.00	5.40	20

ANALYSIS FOR GRAB SAMPLE OF ACTIVATED SLUDGE FROM AEROBIC DIGESTER #1																
MONTH	SLUDGE	PHOS.	TOTAL	VOLATILE	AMMONIA	Arsenic	Cadm.	Cobalt	Chrom.	Copper	Merc.	Moly	Nickel	Lead	Selen.	Zinc
	Processed		SOLIDS	SOLIDS	NITRATE	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
	m3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
JAN.	63															
FEB.	30															
MAR.	46	675	19,900	13,600	14.00	0.10	0.03	0.03	0.18	6.50	0.010	0.18	0.16	0.2	0.10	5.30
APR.	131															
MAY	54															
JUN.	82															
JUL.	43															
AUG.	92															
SEPT.	51															
OCT.	199	1150	23,200	13,900	1.00	0.10	0.03	3.00	0.34	10.40	0.023	0.18	0.29	0.30	0.10	9.62
NOV.	94															
DEC.	80															
<b>TOTAL</b>	<b>965</b>															
<b>AVG.</b>	<b>80</b>	<b>913</b>	<b>21550</b>	<b>13750</b>	<b>7.50</b>	<b>0.10</b>	<b>0.03</b>	<b>1.52</b>	<b>0.26</b>	<b>8.45</b>	<b>0.02</b>	<b>0.18</b>	<b>0.23</b>	<b>0.25</b>	<b>0.10</b>	<b>7.46</b>

ANALYSIS FOR COMPOSITE SAMPLE OF DEWATERED SLUDGE PRIOR TO REMOVAL FROM GEOTUBES																
Geotube	Volume	% Solids	% V.S.	Total P	Ammonia (N)	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
#	m3			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
2B-9	66	9.00	61.4	37400	75	2	0.5	2	18	413	0.61	4	13	15	2	336
3B-9	83	10.10	60.7	18000	59	2	0.5	1	15	411	0.74	4	13	13	2	326
<b>TOTAL</b>	<b>149</b>															
<b>AVG.</b>		<b>9.55</b>	<b>61.05</b>	<b>27700</b>	<b>67</b>	<b>2.0</b>	<b>0.50</b>	<b>1.5</b>	<b>16.5</b>	<b>412.00</b>	<b>0.68</b>	<b>4.0</b>	<b>13.0</b>	<b>14.0</b>	<b>2.0</b>	<b>331.0</b>

METALS	MAXIMUM PERMISSIBLE METAL CONCENTRATIONS (AGRICULTURAL USE) (mg/kg of solids)	AVERAGE METAL CONCENTRATIONS IN DIGESTER SLUDGE (mg/kg of solids)	AVERAGE METAL CONCENTRATIONS IN GEOTUBE SLUDGE (mg/kg of solids)	DEWATERED BIOSOLIDS HAULED TO SNODRIFTER ROAD WASTE DISPOSAL SITE				
				DATE	Geotube #	Volume m3	%Total Solids	E. coli cts/100ml
ARSENIC (As)	170	4.64	2					
CADMIUM (Cd)	34	1.39	0.50					
COBALT (Co)	340	70.30	1.50	Sept.17/24	2B-9	66	9.00	11100
CHROMIUM (Cr)	2800	12.06	16.50	Sept.17/24	3B-9	83	10.10	9950
COPPER (Cu)	1700	392.11	412.00					
MERCURY (Hg)	11	0.77	0.68					
MOLYBDENUM (Mo)	94	8.35	4.00	<b>TOTAL</b>		149		
NICKEL (Ni)	420	10.44	13.00					
LEAD (Pb)	1100	11.60	14.00					
SELENIUM (Se)	34	4.64	2.00					
ZINC (Zc)	4200	346.17	331.0					