

Tryon Ck Sludge Lab Tests

P – Archive in 10 years

9404-07 Biosolids Quality Control Records

Biosolids

2006

MEAN TRACE INORGANICS/NURIENTS CONCENTRATION OF

TCSTP D-2

2006

	COLLECTION DATE	SAMPLE STP#	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Mo (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Zn (mg/kg)	NO3-N (mg/kg)	TKN (mg/kg)	NH3-N (mg/kg)	P (mg/kg)	K (mg/kg)	TS (%)	pH
Feb	2/1 - 2/7	060704	2.65	2.51	329	59.4	5.13	7.53	18.9	6.01	834	25	77,500	33,600	19,300	5,210	2.75%	7.6
Aug	8/1 - 8/7	064055	0.50	2.33	326	33.4	4.30	8.9	23.9	5.77	861	32	84,800	41,100	19,900	5,150	1.94%	8.0
Mean			1.58	2.42	328	46.4	4.72	8.22	21.4	5.89	848	28.5	81,150	37,350	19,600	5,180	2.35%	7.8

D-2 Results per LIMS

Bold Values Indicate "less than" value stated.

TCSTP HISTORY

	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Mo (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Zn (mg/kg)	NO3-N (mg/kg)	TKN (mg/kg)	NH3-N (mg/kg)	P (mg/kg)	K (mg/kg)	TS (%)	pH
2005 MEAN	2.28	2.34	395	61	5.27	7.90	18	6.19	954	23.0	38,250	85,250	5,115	21,250	2.32%	7.6
2004 MEAN	2.44	2.25	365	70	4.17	8.81	17.8	5.82	892	20.0	34,050	78,600	5,090	20,800	2.58%	7.8
2003 MEAN	2.62	2.00	354	62	4.95	8.73	16.6	5.97	796	20.5	42,150	83,700	4,745	20,750	2.66%	7.6
2002 MEAN	1.85	2.14	391	79	4.88	7.22	17.6	4.91	811	10.9	26,400	68,150	3,635	19,600	3.59%	7.5
2001 MEAN	2.33	2.51	447	77	4.90	6.82	16	5.95	941	6.5	87,900	37,500	23,500	5,180	2.36%	7.8
2000 MEAN	3.62	3.26	540	52	3.46	7.69	20	7.36	755	5.05	74,750	33,850	21,900	3,900	3.03%	7.4



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time 8/1/2006 0:00 System ID AK07021 Sample ID STP064055

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Proj./Company Name: TCWTP MONITORING - BIOSOLIDS
Address/Location: TCWTP: DIGESTER 2

Date Received: 8/8/2006

Sample Status: COMPLETE AND
VALIDATED

Proj Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: DIG 2
IMS File/Invoice #: 5040.004

Sample Type: COMP 1WK
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments: THE SAMPLE IS A COMPOSITE OF SAMPLES COLLECTED DAILY FROM 08/01/06-08/07/06.

Test Parameter	Result	Units	MRL	Method
GENERAL				
AMMONIA-NITROGEN	41100	mg/Kg dry wt	1100	EPA 350.1
FIXED SOLIDS	0.59	g/100 mL	0.01	SM 2540 G
NITRATE-NITROGEN	<32	mg/Kg dry wt	32	EPA 300.0
pH	8.0	pH Units	0.1	EPA 9045
TOTAL KJELDAHL NITROGEN (TKN)	84800	mg/Kg dry wt	550	EPA 351.2
TOTAL PHOSPHORUS	19900	mg/Kg dry wt	100	EPA 365.4
TOTAL SOLIDS	1.94	% W/V	0.01	SM 2540 B
VOLATILE SOLIDS	1.35	g/100 ml	0.01	SM 2540 E
METALS				
ARSENIC	0.50	mg/Kg dry wt	0.50	EPA 6020
CADMIUM	2.33	mg/Kg dry wt	0.10	EPA 6020
COPPER	326	mg/Kg dry wt	0.25	EPA 6020
LEAD	33.4	mg/Kg dry wt	0.10	EPA 6020
MERCURY	4.30	mg/Kg dry wt	0.010	EPA 6020
MOLYBDENUM	8.9	mg/Kg dry wt	0.10	EPA 6020
NICKEL	23.9	mg/Kg dry wt	0.25	EPA 6020
POTASSIUM	5150	mg/Kg dry wt	5.0	EPA 6010
SELENIUM	5.77	mg/Kg dry wt	1.0	EPA 6020
ZINC	861	mg/Kg dry wt	0.50	EPA 6020

End of Report for Sample ID: STP064055



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time 2/1/2006 0:00 System ID AK01260 Sample ID STP060704

Page: 1

Proj./Company Name: TCWTP MONITORING - BIOSOLIDS
Address/Location: TCWTP: DIGESTER 2

Date Received: 2/7/2006

Sample Status: COMPLETE AND
VALIDATED

Proj Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: DIG 2
IMS File/Invoice #: 5040.004

Sample Type: COMP 1WK
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
GENERAL				
AMMONIA-NITROGEN	33600	mg/Kg dry wt	800	EPA 350.1
FIXED SOLIDS	1.13	g/100 mL	0.01	SM 2540 G
NITRATE-NITROGEN	<25.0	mg/Kg dry wt	25.0	EPA 300.0
pH	7.6	pH Units	0.1	EPA 9045
TOTAL KJELDAHL NITROGEN (TKN)	77500	mg/Kg dry wt	500	EPA 351.2
TOTAL PHOSPHORUS	19300	mg/Kg dry wt	100	EPA 365.4
TOTAL SOLIDS	2.75	% W/V	0.01	SM 2540 B
VOLATILE SOLIDS	1.61	g/100 ml	0.01	SM 2540 E
METALS				
ARSENIC	2.65	mg/Kg dry wt	0.50	EPA 6020
CADMIUM	2.51	mg/Kg dry wt	0.10	EPA 6020
CHROMIUM	28.5	mg/Kg dry wt	0.50	EPA 6020
COPPER	329	mg/Kg dry wt	0.25	EPA 6020
LEAD	59.4	mg/Kg dry wt	0.10	EPA 6020
MERCURY	5.13	mg/Kg dry wt	0.010	EPA 6020
MOLYBDENUM	7.53	mg/Kg dry wt	0.10	EPA 6020
NICKEL	18.9	mg/Kg dry wt	0.25	EPA 6020
POTASSIUM	5210	mg/Kg dry wt	200	EPA 6020
SELENIUM	6.01	mg/Kg dry wt	1.0	EPA 6020
ZINC	834	mg/Kg dry wt	0.50	EPA 6020

End of Report for Sample ID: STP060704