

TCSTP

Metals Testing - 1998

MEAN TRACE INORGANICS/NURIENTS CONCENTRATION OF

TCSTP D-2

1998

COLLECTION DATE	As (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Zn (mg/kg)	NO3-N (mg/kg)	TKN (mg/kg)	NH3-N (mg/kg)	K (mg/kg)	TS (%)	VS (%)	pH
Jun 06/02	2.8	4.9	44.6	391	83	2.8	25.2	950	22.0	55800	15090	2410	5.04%	2.80%	6.9
Jul n/t															
Aug n/t															
Sep n/t															
Oct n/t															
Nov n/t															
Dec n/t															
Arith Mean	2.8	4.90	44.60	391	83	2.8	25.2	950	22.0	55800	15090	2410	5.04%	2.80%	6.9

D-2 Results per Greg Hetman

MEAN TRACE INORGANICS/NURIENTS CONCENTRATION OF

TCSTP TWAS

1998

COLLECTION DATE	SAMPLE STP#	As (mg/kg)	Cd (mg/kg)	Cr (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)	NH3-N (mg/kg)	P (mg/kg)	TS (%)	VS (%)
May 05/04	982542	0.50	2.47	12.0	325	18.2	0.589	5	6.88	9.00	522	19	4860	23700	5.38%	82.9%
Jun 06/01	983115	0.50	2.64	16.7	309	15.6	0.609	5	8.85	2.69	517	16	5900	24100	6.18%	78.6%
Jul 07/06	983752	0.50	2	14.4	408	16.2	0.704	3.96	9.46	3.17	525	18	8640	30200	5.55%	80.5%
Aug 08/03	984267	0.50	2	11.8	345	9.92	0.48	3.39	8.60	3.10	464	55	4100	30200	5.16%	82.4%
Sep 09/02	984820	0.50	4	8.87	317	13.6	0.596	3.36	6.20	3.05	479	21	4560	27000	4.69%	83.6%
Oct 10/06	986447	0.50	3	13.3	437	18.1	0.68	3.68	7.93	2.64	641	32	5420	29600	5.03%	82.2%
Nov 11/03	986944	0.94	2.21	9.96	349	12.0	0.585	2.77	6.40	1.55	528	19	3990	20000	5.25%	83.2%
Dec 12/07	986528	1.47	2.11	19.9	507	16.4	0.80	2.20	56.7	2.33	484	2	3690	18000	5.68%	75.1%
Arith Mean		0.68	2.55	13.4	375	15.0	0.618	3.7	13.88	3.44	520	23	5,145	25,350	5.37%	81.06%

Bold Values indicate "less than" value stated.

MEAN TRACE INORGANICS/NURIENTS CONCENTRATION OF

TCSTP D-2

1998

COLLECTION DATE	As (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Zn (mg/kg)	NO3-N (mg/kg)	TKN (mg/kg)	NH3-N (mg/kg)	K (mg/kg)	TS (%)	VS (%)	pH
Jun 06/02	2.8	4.9	44.6	391	83	2.8	25.2	950	22.0	55800	15090	2410	5.04 %	2.80 %	6.9
Jul n/t															
Aug n/t															
Sep n/t															
Oot n/t															
Nov n/t															
Dec n/t															
Arith Mean	2.8	4.90	44.60	391	83	2.8	25.2	950	22.0	55800	15090	2410	5.04 %	2.80 %	6.9

D-2 Results per Greg Hetman

MEAN TRACE INORGANICS/NURIENTS CONCENTRATION OF

TCSTP TWAS

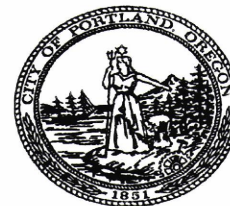
1998

COLLECTION DATE	SAMPLE STP#	As (mg/kg)	Cd (mg/kg)	Cr (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)	NH3-N (mg/kg)	P (mg/kg)	TS (%)	VS (%)
May 05/04	982542	0.50	2.47	12.0	325	18.2	0.589	5	6.88	9.00	522	19	4860	23700	5.38 %	82.9 %
Jun 06/01	983115	0.50	2.64	16.7	309	15.6	0.609	5	8.85	2.69	517	16	5900	24100	6.18 %	78.6 %
Jul 07/06	983752	0.50	2	14.4	408	16.2	0.704	3.96	9.46	3.17	525	18	8640	30200	5.55 %	80.5 %
Aug 08/03	984267	0.50	2	11.8	345	9.92	0.48	3.39	8.60	3.10	464	55	4100	30200	5.16 %	82.4 %
Sep 09/02	984820	0.50	4	8.87	317	13.6	0.596	3.36	6.20	3.05	479	21	4560	27000	4.69 %	83.6 %
Oot 10/06	985447	0.50	3	13.3	437	18.1	0.58	3.68	7.93	2.64	641	32	5420	29600	5.03 %	82.2 %
Nov 11/03	985944	0.94	2.21	9.96	349	12.0	0.585	2.77	6.40	1.55	528	19	3990	20000	5.25 %	83.2 %
Dec 12/07	986528	1.47	2.11	19.9	507	16.4	0.80	2.20	56.7	2.33	484	2	3690	18000	5.68 %	75.1 %
Arith Mean		0.68	2.55	13.4	375	15.0	0.618	3.7	13.88	3.44	520	23	5,145	25,350	5.37 %	81.06 %

Bold Values Indicate "less than" value stated.



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 12/7/98 00:00 System ID: AC10731

Sample ID: STP986528

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 12/8/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	3690	mg/Kg	313	EPA 350.1
FIXED SOLIDS	24.9	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.87	g	0.0001	SM 2540 G
NITRATE-NITROGEN	<18	mg/Kg	18	EPA 300.0
TOTAL CYANIDE	5.68	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	18000	mg/Kg	40	EPA 365.1
TOTAL SOLIDS	5.68	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	75.1	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	2.63	g	0.0001	SM 2540 E
MET				
ARSENIC	1.47	mg/Kg	0.500	EPA 200.8
CADMIUM	2.11	mg/Kg	2.0	EPA 3051
CHROMIUM	19.9	mg/Kg	2.0	EPA 3051
COPPER	507	mg/Kg	2.0	EPA 3051
LEAD	16.4	mg/Kg	5	EPA 3051
MERCURY	0.80	mg/Kg	0.1	EPA 7471
MOLYBDENUM	2.20	mg/Kg		EPA 200.8
NICKEL	56.7	mg/Kg	2.5	EPA 3051
SELENIUM	2.33	mg/Kg	0.5	EPA 200.8
SILVER	349	mg/Kg	2.5	EPA 3051
ZINC	484	mg/Kg	2.5	EPA 3051
SUB				
NITRITE-NITROGEN	<2	mg/Kg	2.0	EPA 353.2

End of Report for Sample ID: STP986528



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 12/7/98 00:00 System ID: AC10731

Sample ID: STP986528

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 12/8/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	3690	mg/Kg	313	EPA 350.1
FIXED SOLIDS	24.9	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.87	g	0.0001	SM 2540 G
NITRATE-NITROGEN	<18	mg/Kg	18	EPA 300.0
TOTAL CYANIDE	5.68	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	18000	mg/Kg	40	EPA 365.1
TOTAL SOLIDS	5.68	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	75.1	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	2.63	g	0.0001	SM 2540 E
MET				
ARSENIC	1.47	mg/Kg	0.500	EPA 200.8
CADMIUM	2.11	mg/Kg	2.0	EPA 3051
CHROMIUM	19.9	mg/Kg	2.0	EPA 3051
COPPER	507	mg/Kg	2.0	EPA 3051
LEAD	16.4	mg/Kg	5	EPA 3051
MERCURY	0.80	mg/Kg	0.1	EPA 7471
MOLYBDENUM	2.20	mg/Kg		EPA 200.8
NICKEL	56.7	mg/Kg	2.5	EPA 3051
SELENIUM	2.33	mg/Kg	0.5	EPA 200.8
SILVER	349	mg/Kg	2.5	EPA 3051
ZINC	484	mg/Kg	2.5	EPA 3051
SUB				
NITRITE-NITROGEN	<2	mg/Kg	2.0	EPA 353.2

End of Report for Sample ID: STP986528



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 12/7/98 00:00 System ID: AC10731

Sample ID: STP986528

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 12/8/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	3690	mg/Kg	313	EPA 350.1
FIXED SOLIDS	24.9	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.87	g	0.0001	SM 2540 G
NITRATE-NITROGEN	<18	mg/Kg	18	EPA 300.0
TOTAL CYANIDE	5.68	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	18000	mg/Kg	40	EPA 365.1
TOTAL SOLIDS	5.68	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	75.1	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	2.63	g	0.0001	SM 2540 E
MET				
ARSENIC	1.47	mg/Kg	0.500	EPA 200.8
CADMIUM	2.11	mg/Kg	2.0	EPA 3051
CHROMIUM	19.9	mg/Kg	2.0	EPA 3051
COPPER	507	mg/Kg	2.0	EPA 3051
LEAD	16.4	mg/Kg	5	EPA 3051
MERCURY	0.80	mg/Kg	0.1	EPA 7471
MOLYBDENUM	2.20	mg/Kg		EPA 200.8
NICKEL	56.7	mg/Kg	2.5	EPA 3051
SELENIUM	2.33	mg/Kg	0.5	EPA 200.8
SILVER	349	mg/Kg	2.5	EPA 3051
ZINC	484	mg/Kg	2.5	EPA 3051
SUB				
NITRITE-NITROGEN	<2	mg/Kg	2.0	EPA 353.2

End of Report for Sample ID: STP986528

Post-It® Fax Note 7671		Date 12/15/98	# of pages 2
To	Jim Utberg	From	Hoffman
Co./Dept.		Co.	
Phone #		Phone #	
Fax #		Fax #	

CITY OF
PORTLAND OREGON
BUREAU OF ENVIRONMENTAL SERVICES
LABORATORY ANALYSIS REPORT
TRYON CREEK TREATMENT PLANT
DIGESTER NUMBER 2

2-Jun-98

PARAMETERS	UNITS	RESULTS
✓ Ag	mg/kg	25.1
As	mg/kg	2.8
Cd	mg/kg	4.9
Cr	mg/kg	44.6
Cu	mg/kg	391
Hg	mg/kg	2.8
Ni	mg/kg	25.2
Pb	mg/kg	83
Zn	mg/kg	950
K	mg/kg	2410
T-PO4	mg/kg	17500
NH3-N	mg/kg	15090
NO3-N	mg/kg	22.0
TKN-N	mg/kg	55800
pH	SU	6.9
TOTAL SOLIDS	%dry	5.04
VOLATILE SOLIDS	%dry	2.80

TC-DIG-2

Tryon Creek WTP

TWAS Analysis

1998

Total Metals

Units: mg/Kg

Dry Weight Basis

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Arsenic					<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.94	
Cadmium					2.47	2.64	<2	<2	<4	<3	2.21	
Chromium					12	16.7	14.4	11.8	8.9	13.3	9.96	
Copper					325	309	408	345	317	437	349	
Lead					18.2	15.6	16.2	9.92	13.6	18.1	12	
Mercury					0.589	0.609	0.704	0.480	0.596	0.58	0.585	
Molybden					<5	<5	3.96	3.39	3.36	3.68	2.77	
Nickel					6.88	8.85	9.46	8.60	6.20	7.93	6.4	
Selenium					9	2.69	3.17	3.10	3.05	2.64	1.55	
Silver					18.0	21.1	19.2	16.5	16.9	22.4	18.2	
Zinc					522	517	525	464	479	641	528	
Nitrate					<19	<16	<18	<55	<21	32	<19	
✓ Nitrite					<1.86	<1.61	<1.80	3.68	<3.0	6	<1	
Ammonia					4860	5900	8640	4100	4560	5420	3990	
✓ Phosph					23700	24100	30200	30200	27000	29600	20000	
Cyanide					0.82	0.63	0.97	0.81	1.96	1.29	1.05	

Printed 12/18/98

TC-TWAS

Revised
for
Greg H.

Tryon Creek WTP

TWAS Analysis

1998

Total Metals

Units: mg/Kg

Dry Weight Basis

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Arsenic					<0.500	<0.500	<0.500	<0.500	<0.500	<0.500		
Cadmium					2.47	2.64	<2	<2	<4	<3		
Chromium					12	16.7	14.4	11.8	8.9	13.3		
Copper					325	309	408	345	317	437		
Lead					18.2	15.6	16.2	9.92	13.6	18.1		
Mercury					0.589	0.609	0.704	0.480	0.596	0.58		
Molybden					<5	<5	3.96	3.39	3.36	3.68		
Nickel					6.88	8.85	9.46	8.60	6.20	7.93		
Selenium					9	2.69	3.17	3.10	3.05	2.64		
Silver					18.0	21.1	19.2	16.5	16.9	22.4		
Zinc					522	517	525	464	479	641		
Nitrate					<19	<16	<18	<55	<21	32		
Nitrite					<1.86	<1.61	<1.80	3.68	<3.0	6		
Ammonia					4860	5900	8640	4100	4560	5420		
Phosph					23700	24100	30200	30200	27000			
Cyanide					0.82	0.63	0.97	0.81	1.96	1.29		

Printed 12/15/98

Sample Cross Reference Search Results

Portland Water Pollution Control Lab
User: Utberg, Jim
Date: 01-12-1999 Time: 07:43:19

Search routine: JIM
Search performed: 01/12/99 at 07:42
Samples found: 5

No.	Project Sample No.	Sample ID	proj_ind	Matrix	Sample Status	Col Date	Sort Date
1	STP986528	AC10731	TC_TWAS	BIOSOLID	Inactive	12/07/1998	
2	STP986651	AC10923	TC_TWAS	BIOSOLID	Inactive	12/15/1998	
3	STP986777	AC11090	TC_TWAS	BIOSOLID	Inactive	12/22/1998	
4	STP986844	AC11197	TC_TWAS	BIOSOLID	Inactive	12/27/1998	
5	STP990076	AD00104	TC_TWAS	BIOSOLID	Incomplete	01/04/1999	

Sample Cross Reference Search Results

Portland Water Pollution Control Lab

User: Utberg, Jim

: 12-14-1998 Time: 13:25:43

TCSTP

Search routine: JIM

Search performed: 12/14/98 at 13:25

Samples found: 35

No.	Project Sample ID	Sample ID	proj_ind	Matrix	Sample Status	Col Date	Sort Date
1	STP982542	AC03938	TC_TWAS	BIOSOLID	Inactive	05/03/1998	
2	STP982702	AC04212	TC_TWAS	BIOSOLID	Inactive	05/10/1998	
3	STP982836	AC04453	TC_TWAS	BIOSOLID	Inactive	05/17/1998	
4	STP982981	AC04720	TC_TWAS	BIOSOLID	Inactive	05/25/1998	
5	STP983115	AC04978	TC_TWAS	BIOSOLID	Inactive	06/01/1998	
6	STP983272	AC05203	TC_TWAS	BIOSOLID	Inactive	06/08/1998	
7	STP983398	AC05401	TC_TWAS	BIOSOLID	Inactive	06/15/1998	
8	STP983500	AC05574	TC_TWAS	BIOSOLID	Inactive	06/21/1998	
9	STP983644	AC05813	TC_TWAS	BIOSOLID	Inactive	06/29/1998	
10	STP983696	AC05912	TC_TWAS	BIOSOLID	Inactive	07/03/1998	
11	STP983752	AC05960	TC_TWAS	BIOSOLID	Inactive	07/06/1998	
12	STP983873	AC06198	TC_TWAS	BIOSOLID	Inactive	07/13/1998	
13	STP983997	AC06408	TC_TWAS	BIOSOLID	Inactive	07/20/1998	
14	STP984136	AC06697	TC_TWAS	BIOSOLID	Inactive	07/27/1998	
15	STP984267	AC06921	TC_TWAS	BIOSOLID	Inactive	08/03/1998	
16	STP984391	AC07159	TC_TWAS	BIOSOLID	Inactive	08/10/1998	
17	STP984525	AC07409	TC_TWAS	BIOSOLID	Inactive	08/17/1998	
	STP984650	AC07661	TC_TWAS	BIOSOLID	Inactive	08/24/1998	
	STP984783	AC07841	TC_TWAS	BIOSOLID	Inactive	08/31/1998	
20	STP984820	AC07901	TC_TWAS	BIOSOLID	Inactive	09/02/1998	
21	STP984908	AC08026	TC_TWAS	BIOSOLID	Inactive	09/07/1998	
22	STP985040	AC08265	TC_TWAS	BIOSOLID	Inactive	09/14/1998	
23	STP985165	AC08500	TC_TWAS	BIOSOLID	Inactive	09/21/1998	
24	STP985289	AC08686	TC_TWAS	BIOSOLID	Inactive	09/28/1998	
25	STP985447	AC08956	TC_TWAS	BIOSOLID	Inactive	10/06/1998	
26	STP985557	AC09119	TC_TWAS	BIOSOLID	Inactive	10/12/1998	
27	STP985682	AC09316	TC_TWAS	BIOSOLID	Inactive	10/19/1998	
28	STP985811	AC09514	TC_TWAS	BIOSOLID	Inactive	10/26/1998	
29	STP985944	AC09737	TC_TWAS	BIOSOLID	Inactive	11/03/1998	
30	STP986088	AC09960	TC_TWAS	BIOSOLID	Inactive	11/11/1998	
31	STP986183	AC10093	TC_TWAS	BIOSOLID	Inactive	11/16/1998	
32	STP986244	AC10230	CB_DIG8	BIOSOLID	Inactive	11/21/1998	
33	STP986292	AC10312	TC_TWAS	BIOSOLID	Inactive	11/23/1998	
34	STP986409	AC10491	TC_TWAS	BIOSOLID	Val Queue	11/30/1998	
35	STP986528	AC10731	TC_TWAS	BIOSOLID	Incomplete	12/07/1998	

Sample Cross Reference Search Results

Portland Water Pollution Control Lab

User: Utberg, Jim

: 12-14-1998 Time: 13:25:46

Search routine: JIM

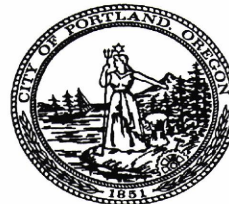
Search performed: 12/14/98 at 13:25

Samples found: 35

No.	Project Sample	Sample ID	proj_ind	Matrix	Sample Status	Col Date	Sort Date
1	STP982542	AC03938	TC_TWAS	BIOSOLID	Inactive	05/03/1998	
2	STP982702	AC04212	TC_TWAS	BIOSOLID	Inactive	05/10/1998	
3	STP982836	AC04453	TC_TWAS	BIOSOLID	Inactive	05/17/1998	
4	STP982981	AC04720	TC_TWAS	BIOSOLID	Inactive	05/25/1998	
5	STP983115	AC04978	TC_TWAS	BIOSOLID	Inactive	06/01/1998	
6	STP983272	AC05203	TC_TWAS	BIOSOLID	Inactive	06/08/1998	
7	STP983398	AC05401	TC_TWAS	BIOSOLID	Inactive	06/15/1998	
8	STP983500	AC05574	TC_TWAS	BIOSOLID	Inactive	06/21/1998	
9	STP983644	AC05813	TC_TWAS	BIOSOLID	Inactive	06/29/1998	
10	STP983696	AC05912	TC_TWAS	BIOSOLID	Inactive	07/03/1998	
11	STP983752	AC05960	TC_TWAS	BIOSOLID	Inactive	07/06/1998	
12	STP983873	AC06198	TC_TWAS	BIOSOLID	Inactive	07/13/1998	
13	STP983997	AC06408	TC_TWAS	BIOSOLID	Inactive	07/20/1998	
14	STP984136	AC06697	TC_TWAS	BIOSOLID	Inactive	07/27/1998	
15	STP984267	AC06921	TC_TWAS	BIOSOLID	Inactive	08/03/1998	
16	STP984391	AC07159	TC_TWAS	BIOSOLID	Inactive	08/10/1998	
17	STP984525	AC07409	TC_TWAS	BIOSOLID	Inactive	08/17/1998	
	STP984650	AC07661	TC_TWAS	BIOSOLID	Inactive	08/24/1998	
	STP984783	AC07841	TC_TWAS	BIOSOLID	Inactive	08/31/1998	
20	STP984820	AC07901	TC_TWAS	BIOSOLID	Inactive	09/02/1998	
21	STP984908	AC08026	TC_TWAS	BIOSOLID	Inactive	09/07/1998	
22	STP985040	AC08265	TC_TWAS	BIOSOLID	Inactive	09/14/1998	
23	STP985165	AC08500	TC_TWAS	BIOSOLID	Inactive	09/21/1998	
24	STP985289	AC08686	TC_TWAS	BIOSOLID	Inactive	09/28/1998	
25	STP985447	AC08956	TC_TWAS	BIOSOLID	Inactive	10/06/1998	
26	STP985557	AC09119	TC_TWAS	BIOSOLID	Inactive	10/12/1998	
27	STP985682	AC09316	TC_TWAS	BIOSOLID	Inactive	10/19/1998	
28	STP985811	AC09514	TC_TWAS	BIOSOLID	Inactive	10/26/1998	
29	STP985944	AC09737	TC_TWAS	BIOSOLID	Inactive	11/03/1998	
30	STP986088	AC09960	TC_TWAS	BIOSOLID	Inactive	11/11/1998	
31	STP986183	AC10093	TC_TWAS	BIOSOLID	Inactive	11/16/1998	
32	STP986244	AC10230	CB_DIG8	BIOSOLID	Inactive	11/21/1998	
33	STP986292	AC10312	TC_TWAS	BIOSOLID	Inactive	11/23/1998	
34	STP986409	AC10491	TC_TWAS	BIOSOLID	Val Queue	11/30/1998	
35	STP986528	AC10731	TC_TWAS	BIOSOLID	Incomplete	12/07/1998	



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 5/3/98 00:00 System ID: AC03938

Sample ID: STP982542

Page: 1

Proj./Company Name: TCWTP MONITORING

Date Received: 5/4/98

Address/Location: TCWTP: TWAS

Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)

Sample Type: GRAB

Sample Point Code: TWAS

Sample Matrix: BIOSOLID

IMS File/Invoice #: 5040.001

Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	4860	mg/Kg	580	EPA 350.1
FIXED SOLIDS	17.1	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.69	g	0.0001	SM 2540 G
NITRATE-NITROGEN	<19	mg/Kg	19	EPA 300.0
TOTAL CYANIDE	0.82	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	23700	mg/Kg	23	EPA 365.1
TOTAL SOLIDS	5.38	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	82.9	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.35	g	0.0001	SM 2540 E
MET				
CADMIUM	2.47	mg/Kg	1.0	EPA 3051
CHROMIUM	12.0	mg/Kg	1.0	EPA 3051
COPPER	325	mg/Kg	1.0	EPA 3051
LEAD	18.2	mg/Kg	1.0	EPA 3051
MERCURY	0.589	mg/Kg	0.1	EPA 7471
MOLYBDENUM	<5	mg/Kg	5.0	EPA 3051
NICKEL	6.88	mg/Kg	2.0	EPA 3051
SELENIUM	9.00	mg/Kg	5.0	EPA 3051
SILVER	18.0	mg/Kg	2.5	EPA 3051
ZINC	522	mg/Kg	1.0	EPA 3051
SUB				
ARSENIC	<0.500	mg/Kg	0.500	EPA 6020
NITRITE-NITROGEN	<1.86	mg/Kg	1.86	EPA 353.2

End of Report for Sample ID: STP982542



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 6/1/98 06:34 **System ID:** AC04978

Sample ID: STP983115

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 6/2/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	5900	mg/Kg	370	EPA 350.1
FIXED SOLIDS	21.4	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	1.11	g	0.0001	SM 2540 G
NITRATE-NITROGEN	<16	mg/Kg	16	EPA 300.0
TOTAL CYANIDE	0.63	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	24100	mg/Kg	23	EPA 365.1
TOTAL SOLIDS	6.18	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	78.6	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	4.07	g	0.0001	SM 2540 E
MET				
CADMIUM	2.64	mg/Kg	1.0	EPA 3051
CHROMIUM	16.7	mg/Kg	1.0	EPA 3051
COPPER	309	mg/Kg	1.0	EPA 3051
LEAD	15.6	mg/Kg	1.0	EPA 3051
MERCURY	0.609	mg/Kg	0.1	EPA 7471
MOLYBDENUM	<5	mg/Kg	5.0	EPA 3051
NICKEL	8.85	mg/Kg	2.0	EPA 3051
SELENIUM	2.69	mg/Kg	0.5	EPA 200.8
SILVER	21.1	mg/Kg	2.5	EPA 3051
ZINC	517	mg/Kg	1.0	EPA 3051
SUB				
ARSENIC	<0.500	mg/Kg	0.500	EPA 6020
NITRITE-NITROGEN	<1.61	mg/Kg	1.61	EPA 353.2

End of Report for Sample ID: STP983115



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 7/6/98 00:00 System ID: AC05960

Sample ID: STP983752

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 7/6/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	8640	mg/Kg	410	EPA 350.1
FIXED SOLIDS	19.5	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.82	g	0.0001	SM 2540 G
NITRATE-NITROGEN	<18	mg/Kg	18	EPA 300.0
TOTAL CYANIDE	0.97	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	30200	mg/Kg	42	EPA 365.1
TOTAL SOLIDS	5.55	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	80.5	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.38	g	0.0001	SM 2540 E
MET				
CADMIUM	<2	mg/Kg	2.0	EPA 3051
CHROMIUM	14.4	mg/Kg	2.0	EPA 3051
COPPER	408	mg/Kg	2.0	EPA 3051
LEAD	16.2	mg/Kg	5	EPA 3051
MERCURY	0.704	mg/Kg	0.1	EPA 7471
MOLYBDENUM	3.96	mg/Kg	0.1	EPA 200.8
NICKEL	9.46	mg/Kg	2.5	EPA 3051
SELENIUM	3.17	mg/Kg	0.5	EPA 200.8
SILVER	19.2	mg/Kg	2.5	EPA 3051
ZINC	525	mg/Kg	2.5	EPA 3051
SUB				
ARSENIC	<0.500	mg/Kg	0.500	EPA 6020
NITRITE-NITROGEN	<1.80	mg/Kg	1.80	EPA 353.2

End of Report for Sample ID: STP983752



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 8/3/98 00:00 System ID: AC06921

Sample ID: STP984267

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 8/4/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

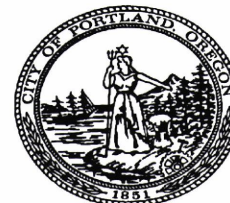
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	4100	mg/Kg	390	EPA 350.1
FIXED SOLIDS	17.6	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.70	g	0.0001	SM 2540 G
NITRATE-NITROGEN	<55	mg/Kg	55	EPA 300.0
TOTAL CYANIDE	0.81	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	30200	mg/Kg	44	EPA 365.1
TOTAL SOLIDS	5.16	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	82.4	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.27	g	0.0001	SM 2540 E
MET				
CADMIUM	<2	mg/Kg	2.0	EPA 3051
CHROMIUM	11.8	mg/Kg	2.0	EPA 3051
COPPER	345	mg/Kg	2.0	EPA 3051
LEAD	9.92	mg/Kg	5	EPA 3051
MERCURY	0.48	mg/Kg	0.1	EPA 7471
MOLYBDENUM	3.39	mg/Kg		EPA 200.8
NICKEL	8.60	mg/Kg	2.5	EPA 3051
SELENIUM	3.10	mg/Kg	0.5	EPA 200.8
SILVER	16.5	mg/Kg	2.5	EPA 3051
ZINC	464	mg/Kg	2.5	EPA 3051
SUB				
ARSENIC	<0.500	mg/Kg	0.500	EPA 6020
NITRITE-NITROGEN	3.68	mg/Kg	0.300	EPA 353.2

End of Report for Sample ID: STP984267



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 9/2/98 00:00 System ID: AC07901

Sample ID: STP984820

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 9/3/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	4560	mg/Kg	440	EPA 350.1
FIXED SOLIDS	16.4	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.63	g	0.0001	SM 2540 G
NITRATE-NITROGEN	<21	mg/Kg	21	EPA 300.0
TOTAL CYANIDE	1.96	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	27000	mg/Kg	52	EPA 365.1
TOTAL SOLIDS	4.69	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	83.6	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.21	g	0.0001	SM 2540 E
MET				
CADMIUM	<4	mg/Kg	4.0	EPA 3051
CHROMIUM	8.87	mg/Kg	2.0	EPA 3051
COPPER	317	mg/Kg	2.0	EPA 3051
LEAD	13.6	mg/Kg	5	EPA 3051
MERCURY	0.596	mg/Kg	0.1	EPA 7471
MOLYBDENUM	3.36	mg/Kg		EPA 200.8
NICKEL	6.20	mg/Kg	2.5	EPA 3051
SELENIUM	3.05	mg/Kg	0.5	EPA 200.8
SILVER	16.9	mg/Kg	2.5	EPA 3051
ZINC	479	mg/Kg	2.5	EPA 3051
SUB				
ARSENIC	<0.500	mg/Kg	0.500	EPA 6020
NITRITE-NITROGEN	<3	mg/Kg	3	EPA 353.2

End of Report for Sample ID: STP984820



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 10/6/98 00:00 System ID: AC08956

Sample ID: STP985447

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 10/7/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	5420	mg/Kg	430	EPA 350.1
FIXED SOLIDS	17.8	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.36	g	0.0001	SM 2540 G
NITRATE-NITROGEN	32	mg/Kg	20	EPA 300.0
TOTAL CYANIDE	1.29	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	29600	mg/Kg	48	EPA 365.1
TOTAL SOLIDS	5.03	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	82.2	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	1.66	g	0.0001	SM 2540 E
MET				
CADMIUM	<3	mg/Kg	3.0	EPA 3051
CHROMIUM	13.3	mg/Kg	2.0	EPA 3051
COPPER	437	mg/Kg	2.0	EPA 3051
LEAD	18.1	mg/Kg	5	EPA 3051
MERCURY	0.58	mg/Kg	0.1	EPA 7471
MOLYBDENUM	3.68	mg/Kg		EPA 200.8
NICKEL	7.93	mg/Kg	2.5	EPA 3051
SELENIUM	2.64	mg/Kg	0.5	EPA 200.8
SILVER	22.4	mg/Kg	2.5	EPA 3051
ZINC	641	mg/Kg	2.5	EPA 3051
SUB				
ARSENIC	<0.500	mg/Kg	0.500	EPA 6020
NITRITE-NITROGEN	6.0	mg/Kg	0.300	EPA 353.2

End of Report for Sample ID: STP985447



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 11/3/98 00:00 **System ID:** AC09737

Sample ID: STP985944

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 11/3/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

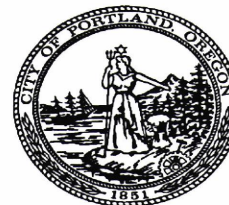
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	3990	mg/Kg	333	EPA 350.1
FIXED SOLIDS	16.8	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.45	g	0.0001	SM 2540 G
NITRATE-NITROGEN	<19	mg/Kg	19	EPA 300.0
TOTAL CYANIDE	1.05	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	20000	mg/Kg	45	EPA 365.1
TOTAL SOLIDS	5.25	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	83.2	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	2.23	g	0.0001	SM 2540 E
MET				
ARSENIC	0.94	mg/Kg	0.500	EPA 200.8
CADMIUM	2.21	mg/Kg	2.0	EPA 3051
CHROMIUM	9.96	mg/Kg	2.0	EPA 3051
COPPER	349	mg/Kg	2.0	EPA 3051
LEAD	12.0	mg/Kg	5	EPA 3051
MERCURY	0.585	mg/Kg	0.1	EPA 7471
MOLYBDENUM	2.77	mg/Kg		EPA 200.8
NICKEL	6.40	mg/Kg	2.5	EPA 3051
SELENIUM	1.55	mg/Kg	0.5	EPA 200.8
SILVER	18.2	mg/Kg	2.5	EPA 3051
ZINC	528	mg/Kg	2.5	EPA 3051
SUB				
NITRITE-NITROGEN	<1	mg/Kg	1.0	EPA 353.2

End of Report for Sample ID: STP985944



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 12/7/98 00:00 System ID: AC10731

Sample ID: STP986528

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 12/8/98
Sample Status: INCOMPLE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

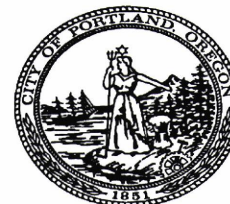
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
AMMONIA-NITROGEN	PENDING	mg/Kg		EPA 350.1
FIXED SOLIDS	PENDING	% W/W		SM 2540 G
FIXED SOLIDS (grams)	PENDING	g		SM 2540 G
NITRATE-NITROGEN	PENDING	mg/Kg		EPA 300.0
TOTAL CYANIDE	5.68	mg/Kg	0.50	SM 4500-CN C
TOTAL PHOSPHORUS	PENDING	mg/Kg		EPA 365.1
TOTAL SOLIDS	PENDING	% W/W		SM 2540 B
VOLATILE SOLIDS	PENDING	% W/W		SM 2540 G
VOLATILE SOLIDS (grams)	PENDING	g		SM 2540 E
MET				
CADMIUM	PENDING	mg/Kg		EPA 3051
CHROMIUM	PENDING	mg/Kg		EPA 3051
COPPER	PENDING	mg/Kg		EPA 3051
LEAD	PENDING	mg/Kg		EPA 3051
MERCURY	PENDING	mg/Kg		EPA 7471
NICKEL	PENDING	mg/Kg		EPA 3051
SILVER	PENDING	mg/Kg		EPA 3051
ZINC	PENDING	mg/Kg		EPA 3051
SUB				
ARSENIC	PENDING	mg/Kg		EPA 6020
NITRITE-NITROGEN	<2	mg/Kg	2.0	EPA 353.2

End of Report for Sample ID: STP986528



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 5/10/98 00:00 **System ID:** AC04212

Sample ID: STP982702

Page: 1

Proj./Company Name: TCWTP MONITORING

Date Received: 5/11/98

Address/Location: TCWTP: TWAS

Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)

Sample Type: COMPOSITE

Sample Point Code: TWAS

Sample Matrix: BIOSOLID

IMS File/Invoice #: 5040.001

Collected By: PLANT

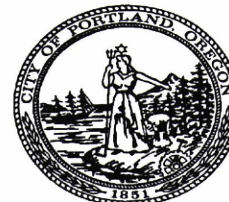
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	16.9	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.83	g	0.0001	SM 2540 G
TOTAL SOLIDS	6.12	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	83.1	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	4.09	g	0.0001	SM 2540 E

End of Report for Sample ID: STP982702



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 5/17/98 00:00 **System ID:** AC04453

Sample ID: STP982836

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 5/18/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

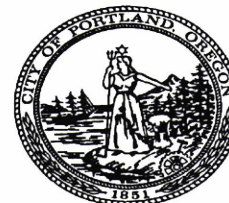
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	20.5	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.95	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.87	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	79.5	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.69	g	0.0001	SM 2540 E

End of Report for Sample ID: STP982836



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 5/25/98 00:00 System ID: AC04720

Sample ID: STP982981

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 5/26/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	24.2	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	1.37	g	0.0001	SM 2540 G
TOTAL SOLIDS	6.80	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	75.8	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	4.28	g	0.0001	SM 2540 E

End of Report for Sample ID: STP982981



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 6/8/98 00:00 **System ID:** AC05203

Sample ID: STP983272

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 6/9/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	19.9	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.93	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.97	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	80.1	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.75	g	0.0001	SM 2540 E

End of Report for Sample ID: STP983272



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 6/15/98 00:00 System ID: AC05401

Sample ID: STP983398

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 6/16/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	18.6	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.80	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.30	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	81.4	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.49	g	0.0001	SM 2540 E
End of Report for Sample ID: STP983398				



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 6/21/98 00:00 System ID: AC05574

Sample ID: STP983500

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 6/22/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	18.4	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.82	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.90	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	81.6	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.64	g	0.0001	SM 2540 E

End of Report for Sample ID: STP983500



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 6/29/98 00:00 System ID: AC05813

Sample ID: STP983644

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 6/30/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

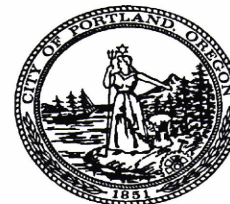
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	18.6	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.79	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.42	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	81.4	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.45	g	0.0001	SM 2540 E

End of Report for Sample ID: STP983644



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 7/3/98 00:00 **System ID:** AC05912

Sample ID: STP983696

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 7/3/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	19.4	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.73	g	0.0001	SM 2540 G
TOTAL SOLIDS	6.17	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	80.6	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.04	g	0.0001	SM 2540 E

End of Report for Sample ID: STP983696



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 7/13/98 00:00 System ID: AC06198

Sample ID: STP983873

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 7/13/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	19.6	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.45	g	0.0001	SM 2540 G
TOTAL SOLIDS	3.02	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	80.4	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	1.85	g	0.0001	SM 2540 E
End of Report for Sample ID: STP983873				



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 7/20/98 00:00 **System ID:** AC06408

Sample ID: STP983997

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 7/20/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

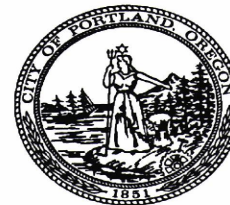
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	18.7	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.56	g	0.0001	SM 2540 G
TOTAL SOLIDS	3.96	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	81.3	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	2.44	g	0.0001	SM 2540 E

End of Report for Sample ID: STP983997



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 7/27/98 00:00 System ID: AC06697

Sample ID: STP984136

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 7/28/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	17.7	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.53	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.19	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	82.3	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	2.47	g	0.0001	SM 2540 E
End of Report for Sample ID: STP984136				



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 8/10/98 00:00 **System ID:** AC07159

Sample ID: STP984391

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 8/11/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

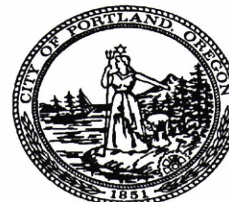
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	17.0	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.69	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.28	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	83.0	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.38	g	0.0001	SM 2540 E

End of Report for Sample ID: STP984391



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 8/17/98 00:00 **System ID:** AC07409

Sample ID: STP984525

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 8/18/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

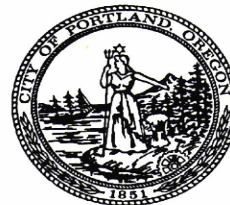
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	17.4	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.63	g	0.0001	SM 2540 G
TOTAL SOLIDS	4.70	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	82.6	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.00	g	0.0001	SM 2540 E

End of Report for Sample ID: STP984525



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 8/24/98 00:00 System ID: AC07661

Sample ID: STP984650

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 8/25/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	16.3	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.40	g	0.0001	SM 2540 G
TOTAL SOLIDS	4.91	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	83.7	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	2.05	g	0.0001	SM 2540 E

End of Report for Sample ID: STP984650



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 8/31/98 00:00 **System ID:** AC07841

Sample ID: STP984783

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 9/1/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	16.2	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.65	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.23	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	83.8	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.36	g	0.0001	SM 2540 E

End of Report for Sample ID: STP984783



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 9/7/98 00:00 System ID: AC08026

Sample ID: STP984908

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 9/8/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

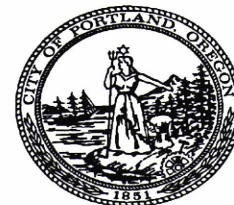
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	17.2	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.73	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.53	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	82.8	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.52	g	0.0001	SM 2540 E

End of Report for Sample ID: STP984908



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 9/14/98 00:00 **System ID:** AC08265

Sample ID: STP985040

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 9/15/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	17.0	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.70	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.29	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	83.0	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.42	g	0.0001	SM 2540 E
End of Report for Sample ID: STP985040				



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 9/21/98 00:00 **System ID:** AC08500

Sample ID: STP985165

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 9/22/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

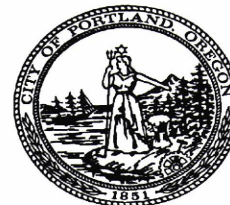
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	17.7	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.88	g	0.0001	SM 2540 G
TOTAL SOLIDS	6.16	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	82.3	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	4.08	g	0.0001	SM 2540 E

End of Report for Sample ID: STP985165



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 9/28/98 00:00 System ID: AC08686

Sample ID: STP985289

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 9/29/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

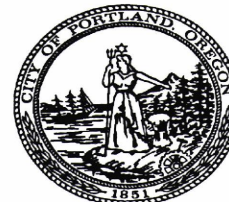
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	16.0	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.68	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.42	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	84.0	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.57	g	0.0001	SM 2540 E

End of Report for Sample ID: STP985289



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 10/12/98 00:00 **System ID:** AC09119

Sample ID: STP985557

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 10/13/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	17.9	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.39	g	0.0001	SM 2540 G
TOTAL SOLIDS	4.11	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	82.1	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	1.79	g	0.0001	SM 2540 E

End of Report for Sample ID: STP985557



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 10/19/98 00:00 **System ID:** AC09316

Sample ID: STP985682

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 10/20/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	18.1	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.72	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.23	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	81.9	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.25	g	0.0001	SM 2540 E

End of Report for Sample ID: STP985682



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 10/26/98 00:00 **System ID:** AC09514

Sample ID: STP985811

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 10/27/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	17.0	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.66	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.02	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	83.0	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.22	g	0.0001	SM 2540 E

End of Report for Sample ID: STP985811



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 11/11/98 00:00 **System ID:** AC09960

Sample ID: STP986088

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 11/11/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

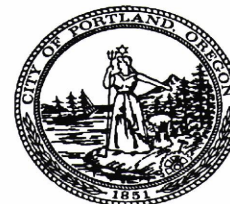
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	23.4	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.79	g	0.0001	SM 2540 G
TOTAL SOLIDS	4.47	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	76.6	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	2.59	g	0.0001	SM 2540 E

End of Report for Sample ID: STP986088



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 11/16/98 00:00 System ID: AC10093

Sample ID: STP986183

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 11/17/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	18.2	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.80	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.62	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	81.8	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	3.60	g	0.0001	SM 2540 E

End of Report for Sample ID: STP986183



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 11/21/98 05:00 System ID: AC10230

Sample ID: STP986244

Proj./Company Name: CBWTP MONITORING
Address/Location: CBWTP: DIGESTER 8

Page: 1
Date Received: 11/21/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: DIG8
IMS File/Invoice #: 5010.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

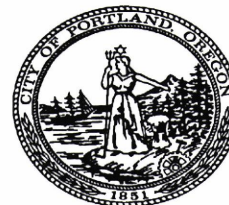
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
ALKALINITY	3750	mg CaCO ₃ /L	0.5	SM 2320 B
pH (LAB)	7.4	pH Units	0.1	SM 4500-H B
VOLATILE ACIDS	56	mg CH ₃ COOH	2.0	SM 5560

End of Report for Sample ID: STP986244



**City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report**



Sample Date/Time: 11/23/98 00:00 **System ID:** AC10312

Sample ID: STP986292

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 11/24/98
Sample Status: INACTIVE

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

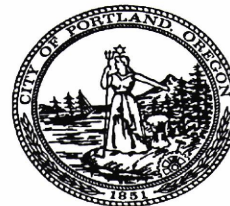
Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	23.3	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.84	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.66	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	76.7	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	2.76	g	0.0001	SM 2540 E

End of Report for Sample ID: STP986292



City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report



Sample Date/Time: 11/30/98 00:00 System ID: AC10491

Sample ID: STP986409

Proj./Company Name: TCWTP MONITORING
Address/Location: TCWTP: TWAS

Page: 1
Date Received: 12/1/98
Sample Status: VALIDAT Q

Proj. Subcategory: MONTHLY REPORTING (NPDES 503'S)
Sample Point Code: TWAS
IMS File/Invoice #: 5040.001

Sample Type: GRAB
Sample Matrix: BIOSOLID
Collected By: PLANT

Comments:

Test Parameter	Result	Units	MRL	Method
WETCHEM				
FIXED SOLIDS	26.6	% W/W	0.01	SM 2540 G
FIXED SOLIDS (grams)	0.96	g	0.0001	SM 2540 G
TOTAL SOLIDS	5.02	% W/W	0.01	SM 2540 B
VOLATILE SOLIDS	73.4	% W/W	0.01	SM 2540 G
VOLATILE SOLIDS (grams)	2.65	g	0.0001	SM 2540 E

End of Report for Sample ID: STP986409