

Analytical Services, Inc.

P.O. Box 237
Brockway, PA 15824-0237

Laboratory (814) 265-8749
FAX (814) 265-8749

CHEMICAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough
108 Main Street, P.O. Box 149
Ridgway, PA 15853
Attn: Larry Marshall

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SAMPLE DATE: 06/02-06/03/11
RECEIPT DATE: 06/03/11 at 11:40 am

ASI ID: 103699
REPORT DATE: 06/28/11


SAMPLE DESCRIPTION: Ridgway POTW - Chlorine Contact Tanks - Outfall 001

TOTAL ANALYSIS RESULTS:

TEST	RESULT	UNCERT.	MDA	UNITS	METHOD	BY	DATE/TIME
Gross Alpha	1.84	±5.13	22.63	pCi/L	EPA 900.0	BPS-CV	06/10/11 @ 8:55 am, ended 06/14/11
Gross Beta	9.21	±4.94	15.92	pCi/L	EPA 900.0	BPS-CV	06/10/11 @ 8:55 am, ended 06/14/11
Radium-228	-0.57	±0.61	0.79	pCi/L	EPA 903.0	MJS-CV	06/08/11 @ 7:05 pm, ended 06/14/11
Radium-226	1.16	±0.27	1.79	pCi/L	EPA 904.0	BH-CV	06/10/11 @ 11:05 am, ended 06/21/11
Uranium	<0.50			µG/L	EPA 200.8	JRA-CV	06/10/11 @ 5:30 pm, ended 06/13/11
Uranium	<0.34			pCi/L	EPA 200.8	JRA-CV	06/10/11 @ 5:30 pm, ended 06/13/11
Osmotic Pressure	85.0			mOsm/kg	82550	GC-AW	06/07/11

Above Analysis Performed By Benchmark Analytics Lab #39-00401, except Osmotic Pressure Performed by G&C Coal Analysis Lab #33-00325.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

Reviewed and Approved By:  Date: 06/28/11

For: William J. Sabatose, Chief Chemical Analyst

Analytical Services, Inc.

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SAMPLE RECEIVED: 06/23/11 at 9:35 am
SAMPLE DATE: 06/22-06/23/11 (24 Hour)

REPORT DATE: 06/30/11
ASI ID#: 104208

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	BB	06/24/11 @ 11:30 am
	TSS	8	mg/L	2	SM 2540D	JT	06/23/11 at 2:00 pm
	Fecal Coliform 06/23/11 @ 9:00 am	2	per 100 mL	1	SM 9222D	RD	06/23/11 @ 2:05 pm
	Ammonia-N	0.93	mg/L	0.10	SM 4500NH3-B,C	MI	06/27/11 @ 3:45 pm
	Bromide	4.76	mg/L	0.10	300.0	BB	06/24/11 @ 12:35 pm
	Sulfate	52.9	mg/L	5.0	300.0	BB	06/24/11 @ 12:35 pm
	Alkalinity	86	mg/L	1	SM 2320B	CH	06/24/11 @ 11:50 am

CBOD Started 06/24/11 at 11:30 am, Ended 06/29/11 at 11:30 am.

Fecal Coliform Started 06/23/11 at 2:05 pm, Ended 06/24/11 at 2:00 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William J. Sabatose*

Date: 06/30/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

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SAMPLE RECEIVED: 06/16/11 at 1:00 pm
SAMPLE DATE: 06/15-06/16/11 (24 Hour)

REPORT DATE: 06/28/11
ASI ID#: 104024

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	3	mg/L	2	SM 5210B	BB	06/16/11 @ 1:50 pm
	TSS	2	mg/L	2	SM 2540D	JT	06/20/11 at 2:00 pm
	Fecal Coliform 06/16/11 @ 9:45 am	16	per 100 mL	1	SM 9222D	RD	06/16/11 @ 4:38 pm
	Ammonia-N	1.08	mg/L	0.10	SM 4500NH3-B,C	MI	06/17/11 @ 4:30 pm
	Bromide	6.56	mg/L	0.10	300.0	BB	06/20/11 @ 4:43 pm
	Sulfate	50.1	mg/L	5.0	300.0	BB	06/20/11 @ 4:43 pm
	Alkalinity	26	mg/L	1	SM 2320B	AC	06/16/11 @ 3:15 pm

CBOD Started 06/16/11 at 1:50 pm, Ended 06/21/11 at 2:00 pm.

Fecal Coliform Started 06/16/11 at 4:38 pm, Ended 06/17/11 at 4:30 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By:



Date: 06/28/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

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SAMPLE RECEIVED: 06/09/11 at 11:30 am
SAMPLE DATE: 06/08-06/09/11 7-7 am (24 Hour)

REPORT DATE: 06/17/11
ASI ID#: 103827

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	10	mg/L	2	SM 5210B	BB	06/10/11 @ 1:30 pm
	TSS	4	mg/L	2	SM 2540D	JT	06/13/11 at 2:00 pm
	Fecal Coliform 06/09/11 @ 10:15 am	30	per 100 mL	1	SM 9222D	RD	06/09/11 @ 2:40 pm
	Ammonia-N	1.01	mg/L	0.10	SM 4500NH3-B,C	MI	06/09/11 @ 4:00 pm
	Bromide	10.5	mg/L	0.10	300.0	BB	06/10/11 @ 11:52 am
	Sulfate	42.8	mg/L	5.0	300.0	BB	06/10/11 @ 11:52 am
	Alkalinity	49	mg/L	1	SM 2320B	CH	06/10/11 @ 10:20 am

CBOD Started 06/10/11 at 1:30 pm, Ended 06/15/11 at 1:50 pm.

Fecal Coliform Started 06/09/11 at 2:40 pm, Ended 06/10/11 at 2:30 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William Sabatose*

Date: 06/17/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

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SAMPLE RECEIVED: 06/02/11 at 12:30 pm
SAMPLE DATE: 06/01-06/02/11 (24 Hour)

REPORT DATE: 06/09/11
ASI ID#: 103634

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	BB	06/03/11 @ 1:30 pm
	TSS	6	mg/L	2	SM 2540D	JT	06/03/11 at 2:30 pm
	Fecal Coliform 06/02/11 @ 8:30 am	42	per 100 mL	1	SM 9222D	RD	06/02/11 @ 4:18 pm
	Ammonia-N	0.92	mg/L	0.10	SM 4500NH3-B,C	MI	06/03/11 @ 3:00 pm
	Sulfate	41.1	mg/L	5.0	300.0	BB	06/02/11 @ 2:23 pm
	Bromide	7.94	mg/L	0.10	300.0	BB	06/02/11 @ 2:23 pm
	Alkalinity	38	mg/L	1	SM 2320B	AC	06/02/11 @ 4:00 pm

CBOD Started 06/03/11 at 1:30 pm, Ended 06/08/11 at 1:35 pm.

Fecal Coliform Started 06/02/11 at 4:18 pm, Ended 06/03/11 at 4:00 pm.

BOD Data Qualifier K1: The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William J. Sabatose*

Date: 06/09/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

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SAMPLE RECEIVED: 07/28/11 at 12:15 pm
SAMPLE DATE: 07/27-07/28/11 (24 Hour)

REPORT DATE: 08/04/11
ASI ID#: 105075

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	07/29/11 @ 1:00 pm
	TSS	13	mg/L	2	SM 2540D	JT	08/01/11 @ 2:30 pm
	Fecal Coliform 07/28/11 @ 10:30 am	< 1	per 100 mL	1	SM 9222D	RD	07/28/11 @ 2:30 pm
	Ammonia-N	4.50	mg/L	0.10	SM 4500NH3-B,C	MI	07/29/11 @ 4:00 pm
	Bromide	4.95	mg/L	0.10	300.0	BB	07/29/11 @ 12:05 pm
	Alkalinity	170	mg/L	1	SM 2320B	AC	08/02/11 @ 11:00 am
	Sulfate	47.0	mg/L	5.0	300.0	BB	07/29/11 @ 12:05 pm

CBOD Started 07/29/11 at 1:00 pm, Ended 08/03/11 at 1:15 pm.

Fecal Coliform Started 07/28/11 at 2:30 pm, Ended 07/29/11 at 2:30 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William J. Sabatose*

Date: 08/04/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

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SAMPLE RECEIVED: 07/07/11 at 11:30 am
SAMPLE DATE: 07/06- 07/07/11 (24 hr.)

REPORT DATE: 07/29/11
ASI ID#: 104517

DESCRIPTION OF SAMPLE: Wastewater - Final Effluent

TOTAL ANALYSIS RESULTS:

PARAMETER	RESULT	UNIT	QUANTITATION LIMIT	METHOD	BY	DATE & TIME
CBOD ₅	< 2	mg/L	2	SM 5210B	JT	07/08/11 @ 7:45 am
TSS	4	mg/L	2	SM 2540D	JT	07/11/11 @ 2:00 pm
Ammonia-N	0.31	mg/L	0.10	SM 4500NH3-B,C	MI	07/09/11 @ 1:00 pm
Fluoride	102.2	mg/L	0.5	SM 4500F-C	CC	07/11/11 @ 3:06 pm
Nickel	0.0124	mg/L	0.005	200.8	BB	07/18/11 @ 9:56 am
Fecal Coliform	< 1	per 100 mL	1	SM 9222D	RD	07/07/11 @ 1:41 pm
TDS	1,976	mg/L	10	SM 2540C	JT	07/11/11 @ 2:00 pm
Chloride	704	mg/L	3.0	300.0	BB	07/19/11 @ 2:34 pm
Copper	0.0129	mg/L	0.010	200.8	BB	07/18/11 @ 9:56 am
Osmotic Pressure	63.5	mOsm/Kg	--	82550	GC	07/18/11
Barium	0.374	mg/L	0.005	200.8	BB	07/18/11 @ 9:56 am
Strontium	0.637	mg/L	0.010	200.8	BB	07/20/11 @ 10:22 am

CBOD₅ started on 07/08/11 at 7:45 am, Ended on 07/13/11 at 8:00 am

Osmotic Pressure performed by G&C Lab #33-00325.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

BY: *William Sabatose*

DATE: 07/29/11

FOR: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

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SAMPLE RECEIVED: 07/07/11 at 11:30 am
SAMPLE DATE: 07/06-07/07/11 (24 Hr.)

REPORT DATE: 07/29/11
ASI ID#: 104517

DESCRIPTION OF SAMPLE: Wastewater - Final Effluent

TOTAL ANALYSIS RESULTS:

TEST	RESULT	UNCERT.	MDA	UNITS	METHOD	BY	DATE/TIME
Gross Alpha	12.60	±7.37	22.13	pCi/L	EPA 900.0	BPS-CV	07/12/11 @ 9:10 am, ended 07/15/11
Gross Beta	20.47	±5.48	15.50	pCi/L	EPA 900.0	BPS-CV	07/12/11 @ 9:10 am, ended 07/15/11
Radium-226	1.27	±0.54	7.23	pCi/L	EPA 903.0	MJS-CV	07/15/11 @ 8:40 am, ended 07/26/11
Radium-228	-6.58	±8.60	11.08	pCi/L	EPA 904.0	MJS-CV	07/12/11 @ 11:00 am, ended 07/27/11
Uranium	<0.63			µG/L	EPA 200.8	JRA-CV	07/15/11 @ 3:20 pm, ended 07/17/11
Uranium	<0.43			pCi/L	EPA 200.8	JRA-CV	07/15/11 @ 3:20 pm, ended 07/17/11

Analysis performed by Benchmark Analytics.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

BY: *William J. Sabatose*

DATE: 07/29/11

FOR: William J. Sabatose, Chief Chemical Analyst

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SAMPLE RECEIVED: 07/21/11 at 1:00 pm
SAMPLE DATE: 07/20-07/21/11 (24 Hour)

REPORT DATE: 07/29/11
ASI ID#: 104918

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	07/22/11 @ 1:00 pm
	TSS	17	mg/L	2	SM 2540D	JT	07/25/11 @ 3:30 pm
	Fecal Coliform 07/21/11 @ 10:30 am	46	per 100 mL	1	SM 9222D	RD	07/21/11 @ 3:12 pm
	Ammonia-N	0.30	mg/L	0.10	SM 4500NH3-B,C	MI	07/28/11 @ 9:00 am
	Alkalinity	184	mg/L	1	SM 2320B	CH	07/28/11 @ 9:00 am
	Sulfate	53.8	mg/L	5.0	300.0	BB	07/27/11 @ 11:23 am
	Bromide	11.5	mg/L	0.10	300.0	BB	07/27/11 @ 11:23 am

CBOD Started 07/22/11 at 1:00 pm, Ended 07/27/11 at 1:15 pm.

Fecal Coliform Started 07/21/11 at 3:12 pm, Ended 07/22/11 at 3:00 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William J. Sabatose*

Date: 07/29/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

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SAMPLE RECEIVED: 07/14/11 at 1:30 pm
SAMPLE DATE: 07/13-07/14/11 (24 Hour)

REPORT DATE: 07/21/11
ASI ID#: 104724

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	07/15/11 @ 10:30 am
	TSS	8	mg/L	2	SM 2540D	JT	07/18/11 @ 3:00 pm
	Fecal Coliform 07/14/11 @ 10:30 am	4	per 100 mL	1	SM 9222D	RD	07/14/11 @ 2:08 pm
	Ammonia-N	2.90	mg/L	0.10	SM 4500NH3-B,C	MI	07/18/11 @ 3:30 pm
	Alkalinity	108	mg/L	1	SM 2320B	AC	07/14/11 @ 4:00 pm
	Sulfate	49.2	mg/L	5.0	300.0	BB	07/19/11 @ 3:45 pm
	Bromide	9.76	mg/L	0.10	300.0	BB	07/19/11 @ 3:45 pm

CBOD Started 07/15/11 at 10:30 am. Ended 07/20/11 at 10:30 am.

Fecal Coliform Started 07/14/11 at 2:08 pm, Ended 07/15/11 at 3:20 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William Sabatose*

Date: 07/21/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

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SAMPLE RECEIVED: 07/06/11 at 2:15 pm
SAMPLE DATE: 07/05-07/06/11 (24 Hr.)

REPORT DATE: 07/13/11
ASI ID#: 104492

DESCRIPTION OF SAMPLE: Wastewater Effluent

TOTAL ANALYSIS RESULTS:

PARAMETER	RESULT	UNIT	QUANTITATION LIMIT	METHOD	BY	DATE & TIME
CBOD ₅	< 2	mg/L	2	SM 5210B	JT	07/07/11 @ 7:45 AM
TSS	2	mg/L	2	SM 2540D	JT	07/08/11 @ 1:00 PM
Fecal Coliform 07/06/11 @ 12:15 pm	28	per 100 ml	1	SM 9222D	RD	07/06/11 @ 3:11 PM
Ammonia-N	0.53	mg/L	0.10	SM 4500NH3-B,C	MI	07/09/11 @ 1:00 PM
Alkalinity	49	mg/L	1	2320 B	AC	07/08/11 @ 9:10 AM
Sulfate	45.4	mg/L	5	300.0	BB	07/08/11 @ 12:06 AM
Bromide	5.90	mg/L	0.10	300.0	BB	07/08/11 @ 12:06 AM

CBOD₅ Started 07/07/11 at 7:45 am, Ended 07/12/11 at 8:00 am.

Fecal Coliform Started 07/06/11 at 3:11 pm, Ended 07/07/11 at 3:00 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

BY: *Brianna Foxard*

DATE: 07/13/11

FOR: William J. Sabatose, Chief Chemical Analyst

Analytical Services, Inc.

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SAMPLE RECEIVED: 09/01/11 at 12:00 pm
SAMPLE DATE: 08/31-09/01/11 (24 Hr.)

REPORT DATE: 09/08/11
ASI ID#: 105856

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	09/02/11 @ 1:00 pm
	TSS	4	mg/L	2	SM 2540D	JT	09/02/11 @ 2:00 pm
	Fecal Coliform 09/01/11 @ 10:29 am	< 1	per 100 mL	1	SM 9222D	RD	09/01/11 @ 4:02 pm
	Ammonia-N	0.64	mg/L	0.10	SM 4500NH3-B,C	MI	09/01/11 @ 3:00 pm
	Alkalinity	34	mg/L	1	2320B	CH	09/01/11 @ 1:30 pm
	Bromide	4.60	mg/L	0.10	300.0	BB	09/01/11 @ 4:27 pm
	Sulfate	39.7	mg/L	5.0	300.0	BB	09/01/11 @ 4:27 pm

CBOD Started 09/02/11 at 1:00 pm, Ended 09/07/11 at 1:30 pm.

Fecal Coliform Started 09/01/11 at 4:02 pm, Ended 09/02/11 at 4:00 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William Sabatose*

Date: 09/08/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

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SAMPLE RECEIVED: 08/25/11 at 1:00 pm
SAMPLE DATE: 08/24-08/25/11 (24 Hr.)

REPORT DATE: 09/01/11
ASI ID#: 105734

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	08/26/11 @ 10:00 am
	TSS	3	mg/L	2	SM 2540D	JT	08/30/11 @ 3:00 pm
	Fecal Coliform 08/25/11 @ 10:45 am	3	per 100 mL	1	SM 9222D	RD	08/25/11 @ 3:53 pm
	Ammonia-N	0.40	mg/L	0.10	SM 4500NH3-B,C	MI	08/26/11 @ 2:00 pm
	Alkalinity	34	mg/L	1	2320B	AC	08/30/11 @ 1:30 pm
	Bromide	4.89	mg/L	0.10	300.0	BB	08/26/11 @ 4:56 pm
	Sulfate	36.4	mg/L	5.0	300.0	BB	08/26/11 @ 4:56 pm

CBOD Started 08/26/11 at 10:00 am, Ended 08/31/11 at 10:00 am.

Fecal Coliform Started 08/25/11 at 3:53 pm, Ended 08/26/11 at 3:30 pm.

CBOD Data Qualifier K1: The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William J. Sabatose*

Date: 09/01/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

Analytical Services, Inc.

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SAMPLE RECEIVED: 08/18/11 at 12:30 pm
SAMPLE DATE: 08/17-08/18/11 (24 Hour)

REPORT DATE: 08/24/11
ASI ID#: 105596

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	08/19/11 @ 2:00 pm
	TSS	2	mg/L	2	SM 2540D	JT	08/22/11 @ 2:30 pm
	Fecal Coliform 08/18/11 @ 10:30 am	< 1	per 100 mL	1	SM 9222D	RD	08/18/11 @ 3:29 pm
	Ammonia-N	0.39	mg/L	0.10	SM 4500NH3-B,C	MI	08/19/11 @ 3:00 pm
	Sulfate	41.6	mg/L	5.0	300.0	CH	08/18/11 @ 7:42 pm
	Bromide	3.99	mg/L	0.10	300.0	CH	08/18/11 @ 7:42 pm
	Alkalinity	111	mg/L	1	SM 2320B	AC	08/18/11 @ 3:16 pm

CBOD Started 08/19/11 at 2:00 pm, Ended 08/24/11 at 2:00 pm.

Fecal Coliform Started 08/18/11 at 3:29 pm, Ended 08/19/11 at 3:30 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William J. Sabatose*

Date: 08/24/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

Analytical Services, Inc.

P.O. Box 237
Brockway, PA 15824-0237

Laboratory (814) 265-8749
FAX (814) 265-8749

GENERAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough
108 Main St.
Ridgway, PA 15853
Attn: Larry Marshall

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SAMPLE RECEIVED: 08/11/11 at 11:00 am
SAMPLE DATE: 08/10-08/11/11 (24 Hour)

REPORT DATE: 08/18/11
ASI ID#: 105426

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	08/12/11 @ 1:00 pm
	TSS	4	mg/L	2	SM 2540D	JT	08/15/11 @ 2:30 pm
	Fecal Coliform 08/04/11 @ 9:30 am	< 1	per 100 mL	1	SM 9222D	RD	08/11/11 @ 3:35 pm
	Ammonia-N	0.30	mg/L	0.10	SM 4500NH3-B,C	MI	08/15/11 @ 2:30 pm
	Bromide	6.23	mg/L	0.10	300.0	BB	08/11/11 @ 2:05 pm
	Sulfate	43.2	mg/L	5.0	300.0	BB	08/11/11 @ 2:05 pm
	Alkalinity	135	mg/L	1	SM 2320B	AC	08/11/11 @ 3:25 pm

CBOD Started 08/12/11 at 1:00 pm, Ended 08/17/11 at 1:15 pm.

Fecal Coliform Started 08/11/11 at 3:35 pm, Ended 08/12/11 at 3:30 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William Sabatose*

Date: 08/18/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

Analytical Services, Inc.

P.O. Box 237
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GENERAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough
108 Main St.
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Attn: Larry Marshall

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SAMPLE RECEIVED: 08/04/11 at 1:00 pm
SAMPLE DATE: 08/03-08/04/11 (24 Hour)

REPORT DATE: 08/10/11
ASI ID#: 105261

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	08/05/11 @ 2:00 pm
	TSS	22	mg/L	2	SM 2540D	JT	08/08/11 @ 3:00 pm
	Fecal Coliform 08/04/11 @ 9:30 am	51	per 100 mL	1	SM 9222D	RD	08/04/11 @ 4:00 pm
	Ammonia-N	0.16	mg/L	0.10	SM 4500NH3-B,C	MI	08/10/11 @ 9:15 am
	Alkalinity	153	mg/L	1	SM 2320B	CH	08/05/11 @ 11:30 am
	Sulfate	44.7	mg/L	5.0	300.0	BB	08/05/11 @ 10:54 am
	Bromide	5.58	mg/L	0.10	300.0	BB	08/05/11 @ 10:54 am

CBOD Started 08/05/11 at 2:00 pm, Ended 08/10/11 at 1:45 pm.

Fecal Coliform Started 08/04/11 at 4:00 pm, Ended 08/05/11 at 4:00 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By:



Date: 08/10/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

Analytical Services, Inc.

P.O. Box 237
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GENERAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough
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Attn: Larry Marshall

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SAMPLE RECEIVED: 08/03/11 at 1:45 pm
SAMPLE DATE: 08/02-08/03/11 (24 Hour)

REPORT DATE: 08/26/11
ASI ID#: 105192

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	08/04/11 @ 9:00 am
	TSS	< 2	mg/L	2	SM 2540D	JT	08/09/11 @ 2:00 pm
	Ammonia-N	0.70	mg/L	0.10	SM 4500NH3-B,C	MI	08/04/11 @ 4:00 pm
	Fluoride	56.6	mg/L	0.5	SM 4500 F-C	CC	08/09/11 @ 8:46 am
	Nickel	0.0104	mg/L	0.005	200.8	BB	08/09/11 @ 4:29 pm
	Fecal Coliform 08/03/11 @ 11:15 am	4	per 100 mL	1	SM 9222D	RD	08/03/11 @ 2:44 pm
	T.D.S.	1,674	mg/L	10	SM 2540C	JT	08/09/11 @ 2:00 pm
	Chloride	629	mg/L	3.0	300.0	BB	08/04/11 @ 12:27 pm
	Copper	<0.010	mg/L	0.010	200.8	BB	08/09/11 @ 4:29 pm
	Osmotic Pressure	109.5	mOsm/Kg	--	82550	GC	08/11/11
	Barium	0.657	mg/L	0.005	200.8	BB	08/09/11 @ 4:29 pm
	Strontium	3.19	mg/L	0.010	200.8	BB	08/10/11 @ 11:58 am

CBOD Started 08/04/11 at 9:00 am, Ended 08/09/11 at 9:00 am.

Fecal Coliform Started 08/03/11 at 2:44 pm, Ended 08/04/11 at 3:00 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William J. Sabatose*

Date: 08/26/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

Analytical Services, Inc.

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Brockway, PA 15824-0237

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GENERAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough POTW
108 Main St.
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SAMPLE RECEIVED: 08/03/11 at 1:45 pm
SAMPLE DATE: 08/02-08/03/11 (24 Hr.)

REPORT DATE: 08/26/11
ASI ID#: 105192

DESCRIPTION OF SAMPLE: Wastewater - Final Effluent

TOTAL ANALYSIS RESULTS:

TEST	RESULT	UNCERT.	MDA	UNITS	METHOD	BY	DATE/TIME
Gross Alpha	17.72	±9.81	29.01	pCi/L	EPA 900.0	BPS-CV	08/08/11 @ 9:15 am, ended 08/11/11
Gross Beta	30.40	±11.36	34.63	pCi/L	EPA 900.0	BPS-CV	08/08/11 @ 9:15 am, ended 08/11/11
Radium-226	1.26	±0.25	1.66	pCi/L	EPA 903.0	BH-CV	08/10/11 @ 10:30 am, ended 08/22/11
Radium-228	1.00	±0.92	1.74	pCi/L	EPA 904.0	BH-CV	08/19/11 @ 9:00 am, ended 08/23/11
Uranium	<0.63			µG/L	EPA 200.8	NLB-CV	08/10/11 @ 10:30 am, ended 08/16/11
Uranium	<0.43			pCi/L	EPA 200.8	NLB-CV	08/10/11 @ 10:30 am, ended 08/16/11

Analysis performed by Benchmark Analytics.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

BY: *William J. Sabatose*

DATE: 08/26/11

FOR: William J. Sabatose, Chief Chemical Analyst

Analytical Services, Inc.

P.O. Box 237
Brockway, PA 15824-0237

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GENERAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough
108 Main St.
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SAMPLE RECEIVED: 09/29/11 at 12:30 pm
SAMPLE DATE: 09/28-09/29/11 (24 Hr.)

REPORT DATE: 10/05/11
ASI ID#: 106512

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	09/29/11 @ 1:30 pm
	TSS	2	mg/L	2	SM 2540D	JT	09/30/11 @ 11:00 am
	Fecal Coliform 09/29/11 @ 10:30 am	54	per 100 mL	1	SM 9222D	RD	09/29/11 @ 4:22 pm
	Ammonia-N	3.66	mg/L	0.10	SM 4500NH3-B,C	MI	09/29/11 @ 4:00 pm
	Bromide	4.76	mg/L	0.10	300.0	CH	09/29/11 @ 8:49 pm
	Sulfate	33.5	mg/L	5.0	300.0	CH	09/29/11 @ 9:06 pm
	Alkalinity	80	mg/L	1	2320B	CH	10/04/11 @ 8:45 am

CBOD Started 09/29/11 at 1:30 pm, Ended 10/04/11 at 1:30 pm.

Fecal Coliform Started 09/29/11 at 4:22 pm, Ended 09/30/11 at 4:30 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: 

Date: 10/05/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

Analytical Services, Inc.

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GENERAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough
108 Main St.
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Attn: Larry Marshall

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SAMPLE RECEIVED: 09/22/11 at 1:00 pm
SAMPLE DATE: 09/22/11 (24 Hr.)

REPORT DATE: 09/28/11
ASI ID#: 106346

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	2	mg/L	2	SM 5210B	JT	09/23/11 @ 1:00 pm
	TSS	< 2	mg/L	2	SM 2540D	JT	09/23/11 @ 12:00 pm
	Fecal Coliform 09/22/11 @ 10:08 am	< 1	per 100 mL	1	SM 9222D	RD	09/22/11 @ 3:11 pm
	Ammonia-N	0.68	mg/L	0.10	SM 4500NH3-B,C	MI	09/27/11 @ 4:30 pm
	Bromide	8.44	mg/L	0.10	300.0	BB	09/23/11 @ 4:45 pm
	Sulfate	34.7	mg/L	5.0	300.0	BB	09/23/11 @ 4:45 pm
	Alkalinity	46	mg/L	1	2320B	AC	09/27/11 @ 2:10 pm

CBOD Started 09/23/11 at 1:00 pm, Ended 09/28/11 at 1:00 pm.

Fecal Coliform Started 09/22/11 at 3:11 pm, Ended 09/23/11 at 3:30 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William J. Sabatose*

Date: 09/28/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

Analytical Services, Inc.

P.O. Box 237
Brockway, PA 15824-0237

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GENERAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough
108 Main St.
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Attn: Larry Marshall

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SAMPLE RECEIVED: 09/15/11 at 1:00 pm
SAMPLE DATE: 09/14-09/15/11 (24 Hr.)

REPORT DATE: 09/22/11
ASI ID#: 106204

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

SAMPLE ID	PARAMETER	RESULT	UNITS	QUANTITATION LIMITS	METHOD	BY	DATE & TIME
Effluent	CBOD ₅	< 2	mg/L	2	SM 5210B	JT	09/16/11 @ 1:00 pm
	TSS	< 2	mg/L	2	SM 2540D	JT	09/19/11 @ 10:00 am
	Fecal Coliform 09/15/11 @ 10:50 am	96	per 100 mL	1	SM 9222D	RD	09/15/11 @ 2:27 pm
	Ammonia-N	0.88	mg/L	0.10	SM 4500NH3-B,C	MI	09/22/11 @ 10:00 am
	Bromide	3.69	mg/L	0.10	300.0	BB	09/16/11 @ 4:47 pm
	Sulfate	33.0	mg/L	5.0	300.0	BB	09/16/11 @ 4:47 pm
	Alkalinity	148	mg/L	1	2320B	CH	09/19/11 @ 10:20 am

CBOD Started 09/16/11 at 1:00 pm, Ended 09/21/11 at 1:15 pm.

Fecal Coliform Started 09/15/11 at 2:27 pm, Ended 09/16/11 at 2:30 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *William J. Sabatose*

Date: 09/22/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411

Analytical Services, Inc.

P.O. Box 237
Brockway, PA 15824-0237

Laboratory (814) 265-8749
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GENERAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough POTW
108 Main St.
Ridgway, PA 15853
Attn: Larry Marshall

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SAMPLE RECEIVED: 09/08/11 at 1:15 pm
SAMPLE DATE: 09/07-09/08/11 (24 Hr.)

REPORT DATE: 09/14/11
ASI ID#: 106028

DESCRIPTION OF SAMPLE: Wastewater Effluent

TOTAL ANALYSIS RESULTS:

PARAMETER	RESULT	UNIT	QUANTITATION LIMIT	METHOD	BY	DATE & TIME
CBOD ₅	< 2	mg/L	2	SM 5210B	JT	09/09/11 @ 7:50 AM
TSS	7	mg/L	2	SM 2540D	MI	09/08/11 @ 2:40 PM
Fecal Coliform 09/08/11 @ 11:20 am	330	per 100 ml	1	SM 9222D	RD	09/08/11 @ 3:28 PM
Ammonia-N	2.86	mg/L	0.10	SM 4500NH3-B,C	MI	09/09/11 @ 2:30 PM
Alkalinity	22	mg/L	1	2320 B	CH	09/08/11 @ 2:55 PM
Bromide	2.88	mg/L	0.10	300.0	CH	09/09/11 @ 5:12 PM
Sulfate	37.6	mg/L	5	300.0	CH	09/09/11 @ 5:29 PM

CBOD₅ Started 09/09/11 at 7:50 am, Ended 09/14/11 at 8:15 am.

Fecal Coliform Started 09/08/11 at 3:28 pm, Ended 09/09/11 at 3:30 pm.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

BY: *Brianna Kovand*

DATE: 09/14/11

FOR: William J. Sabatose, Chief Chemical Analyst

Analytical Services, Inc.

P.O. Box 237
Brockway, PA 15824-0237

Laboratory (814) 265-8749
FAX (814) 265-8749

GENERAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough POTW
108 Main St.
Ridgway, PA 15853
Attn: Larry Marshall

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SAMPLE RECEIVED: 09/07/11 at 1:30 pm
SAMPLE DATE: 09/06-09/07/11 (24 Hr.)

REPORT DATE: 10/03/11
ASI ID#: 105998

DESCRIPTION OF SAMPLE: Wastewater - Final Effluent

TOTAL ANALYSIS RESULTS:

TEST	RESULT	UNCERT.	MDA	UNITS	METHOD	BY	DATE/TIME
Gross Alpha	-1.66	±6.99	42.42	pCi/L	EPA 900.0	MJS-CV	09/16/11 @ 4:45 pm, ended 09/20/11
Gross Beta	23.04	±21.47	73.05	pCi/L	EPA 900.0	MJS-CV	09/16/11 @ 4:45 pm, ended 09/20/11
Radium-226	1.30	±0.26	1.48	pCi/L	EPA 903.0	BH-CV	09/16/11 @ 12:10 pm, ended 09/27/11
Radium-228	-1.05	±4.96	6.65	pCi/L	EPA 904.0	MJS-CV	09/18/11 @ 9:40 am, ended 09/25/11
Uranium	<0.63			µG/L	EPA 200.8	JRA-CV	09/28/11 @ 1:10 pm, ended 09/30/11
Uranium	<0.43			pCi/L	EPA 200.8	JRA-CV	09/28/11 @ 1:10 pm, ended 09/30/11

Analysis performed by Benchmark Analytics LAB ID#: 39-00401*CV.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

BY: *Brianna Forward*

DATE: 10/03/11

FOR: William J. Sabatose, Chief Chemical Analyst

Analytical Services, Inc.

P.O. Box 237
Brockway, PA 15824-0237

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GENERAL ANALYSIS REPORT

CUSTOMER: Ridgway Borough
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SAMPLE RECEIVED: 09/07/11 at 1:30 pm
SAMPLE DATE: 09/06-09/07/11 (24 Hour)

REPORT DATE: 10/03/11
ASI ID#: 105998

DESCRIPTION OF SAMPLE: Ridgway POTW - Effluent

TOTAL ANALYSIS RESULTS:

PARAMETER	RESULT	UNITS	QUANTITATION LIMIT	METHOD	BY	DATE & TIME
CBOD ₅	< 2	mg/L	2	SM 5210B	JT	09/08/11 @ 1:00 pm
TSS	3	mg/L	2	SM 2540D	MI	09/08/11 @ 2:40 pm
Ammonia-N	0.33	mg/L	0.10	SM 4500NH3-B,C	MI	09/09/11 @ 2:30 pm
Fluoride	106	mg/L	0.5	SM 4500 F-C	CC	09/13/11 @ 10:22 am
Nickel	0.0083	mg/L	0.005	200.8	BB	09/14/11 @ 3:04 pm
Fecal Coliform 09/07/11 @ 11:55 am	13	per 100 mL	1	SM 9222D	RD	09/07/11 @ 2:03 pm
T.D.S.	1,798	mg/L	10	SM 2540C	BB	09/08/11 @ 2:30 pm
Chloride	546	mg/L	3.0	300.0	CH	09/07/11 @ 5:40 pm
Copper	0.0131	mg/L	0.010	200.8	BB	09/14/11 @ 3:04 pm
Osmotic Pressure	57.0	mOsm/Kg	--	82550	GC	09/12/11
Barium	0.366	mg/L	0.005	200.8	BB	09/14/11 @ 3:04 pm
Strontium	0.356	mg/L	0.010	200.8	BB	09/15/11 @ 3:33 pm

CBOD Started 09/08/11 at 1:00 pm, Ended 09/13/11 at 1:30 pm.
Fecal Coliform Started 09/07/11 at 2:03 pm, Ended 09/08/11 at 2:00 pm.
Osmotic Pressure performed by G&C Laboratories Lab ID#: 33-00325.

We certify that the above reported values were obtained by use of procedures appropriate for the sample as submitted.

By: *Brianna Foucard*

Date: 10/03/11

For: William J. Sabatose, Chief Chemical Analyst

PADEP LAB ID#: 33-00411