

SECTION 4

OUTFALL 009 (WS-13 DRAINAGE) ANNUAL 2012 REPORTING SUMMARY

00 (-13 , r.□)

2012 R R R

R R
R 000130

00 (-13 , r.□)

2012 R R R

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r.□ 1 , 31, 2012

			01/23/2012-01/24/2012			03/1 /2012-03/1 /2012		
		r.□ / r.□ r.□		R	R		R	R
Zinc, Dissolved	ug/L	-/-	ANR					

00 (-13 , r.□)

2012 R R R

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R 000130

r.□ 1 , 31, 2012

00 (-13 , r.□)

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			01/23/2012-01/24/2012		03/1 /2012-03/1 /2012	
			R		R	
		r.□ / r.□		R		R

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2012 R R R

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alpha-BHC	ug/L	-/-
Aniline	ug/L	-/-
Anthracene	ug/L	-/-
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2012 R R R

R R R
R 000130

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Asbestos	MFL	-/-
Chloride	mg/L	150/-
Chlorpyrifos	ug/L	-/-
E. Coli	MPN/100mL	-/-
Fecal Coliform	MPN/100mL	-/-
Human Bacteroides	Ces/100 mL	-/-
Fluoride	mg/L	1.6/-

00 (-13 , r.□)

2012 R R R

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R 000130

r.□ 1 , 31, 2012

00 (-13 , r.□)

2012 R R R

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r.□ 1 31, 2012

		r.□ / r.□ r.□	4/11/2012			11/1 /2012-11/1 /2012		
				R	R		R	R
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Methylene chloride	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Methyl-tert-butyl ether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
m-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
N-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
o-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
p-Cresol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pentachlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
p-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
tert-Amyl Methyl Ether (TAME)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

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3.50 -0
4.20 -10

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	(/)	R (/)	R (/)	R	1	r□	r□ (/)
1,2,3,4,6,7,8-HpCDD	3.60E-06	5.00E-05	1.10E-04	--	0.01	0.05	5.50 -0
1,2,3,4,6,7,8-HpCDF	3.80E-06	5.00E-05	2.80E-05	J (DNQ)	0.01	0.01	
1,2,3,4,7,8,9-HpCDF	5.60E-06	5.00E-05	ND	U	0.01	0.4	
1,2,3,4,7,8-HxCDD	3.30E-06	5.00E-05	ND	U	0.1	0.3	
1,2,3,4,7,8-HxCDF	4.60E-06	5.00E-05	ND	U	0.1	0.08	
1,2,3,6,7,8-HxCDD	2.80E-06	5.00E-05	5.00E-06	J (DNQ)	0.1	0.1	
1,2,3,6,7,8-HxCDF	4.20E-06	5.00E-05	ND	U	0.1	0.2	
1,2,3,7,8,9-HxCDD	2.70E-06	5.00E-05	4.70E-06	J (DNQ)	0.1	0.1	
1,2,3,7,8,9-HxCDF	6.10E-06	5.00E-05	ND	U	0.1	0.6	
1,2,3,7,8-PeCDD	6.70E-06	5.00E-05	ND	U	1	0.9	
1,2,3,7,8-PeCDF	7.00E-06	5.00E-05	ND	U	0.05	0.2	
2,3,4,6,7,8-HxCDF	4.30E-06	5.00E-05	ND	U	0.1	0.7	
2,3,4,7,8-PeCDF	7.00E-06	5.00E-05	ND	U	0.5	1.6	
2,3,7,8-TCDD	3.70E-06	1.00E-05	ND	U	1	1	
2,3,7,8-TCDF	6.30E-06	1.00E-05	ND	U	0.1	0.8	
OCDD	1.30E-05	1.00E-04	1.20E-03	--	0.0001	0.01	1.20 -0
OCDF	4.40E-06	1.00E-04	ND	U (B)	0.0001	0.02	

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See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

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R 000130

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	(/)	R (/)	R (/)	R	1	□ □
1,2,3,4,6,7,8-HpCDD	5.90E-07	5.00E-05	7.30E-05	--	0.01	0.05
1,2,3,4,6,7,8-HpCDF	4.60E-07	5.00E-05	ND	U (B)	0.01	0.01
1,2,3,4,7,8,9-HpCDF	5.60E-07	5.00E-05	ND	U (B)	0.01	0.4
1,2,3,4,7,8-HxCDD	4.70E-07	5.00E-05	ND	U (B)	0.1	0.3
1,2,3,4,7,8-HxCDF	7.00E-08	5.00E-05	ND	U (B)	0.1	0.08
1,2,3,6,7,8-HxCDD	4.60E-07	5.00E-05	ND	UJ (*III)	0.1	0.1
1,2,3,6,7,8-HxCDF	7.00E-08	5.00E-05	4.90E-06	J (DNQ)	0.1	0.2
1,2,3,7,8,9-HxCDD	4.00E-07	5.00E-05	ND	U (B)	0.1	0.1
1,2,3,7,8,9-HxCDF	7.00E-08	5.00E-05	ND	U (B)	0.1	0.6
1,2,3,7,8-PeCDD	6.20E-07	5.00E-05	ND	UJ (*III)	1	0.9
1,2,3,7,8-PeCDF	6.60E-07	5.00E-05	ND	U (B)	0.05	0.2
2,3,4,6,7,8-HxCDF	3.00E-06	5.00E-05	ND	U	0.1	0.7
	6.60E-07	5.00E-05	ND	UJ (*III)	0.5	1.6
	8.00E-07	1.00E-05	ND	U	1	1
	1.90E-06	1.00E-05	ND	UJ (*III)	0.1	0.8
	1.80E-06	1.00E-04	7.30E-04	--	0.0001	0.01
	3.90E-07	1.00E-04	ND	U (B)	0.0001	0.02

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definitions, and other explanations for the data presented in this table.

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2012 R R R

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R 000130

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			01/24/2012 ()			03/1 /2012 ()		
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Gross Alpha	pCi/L	15/-	0.275 ± 0.26	0.45	UJ (C)	1.37 ± 0.36	0.308	J (DNQ)
Gross Beta	pCi/L	50/-	1.5 ± 0.60	0.964	J (DNQ)	2.46 ± 0.61	0.885	J (DNQ)
Strontium-90	pCi/L	8.0/-	-0.056 ± 0.39	0.946	U	-0.107 ± 0.37	0.803	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.43 ± 0.39	1.17	U	0.122 ± 0.37	0.945	U
Tritium	pCi/L	20000/-	-78.4 ± 110	195	U	-34.6 ± 85	146	U
Potassium-40	pCi/L	-/-	ND < 21.1	21.1	U	-7.99 ± 20	34.7	U
Uranium, Total	pCi/L	20/-	0.057 ± 0.011	0.02	J (DNQ)	0.117	0.017	J (DNQ)
Cesium 137	pCi/L	200/-	ND < 1.97	1.97	U	-1.39 ± 2.2	3.83	U

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Gross Alpha	pCi/L	15/-	2.31 ± 0.45	0.328	J (DNQ)	1.23 ± 0.36	0.347	J (DNQ)
Gross Beta	pCi/L	50/-	2.88 ± 0.62	0.885	J (DNQ)	2.29 ± 0.72	1.08	J (DNQ)
Strontium-90	pCi/L	8.0/-	-0.094 ± 0.43	1.02	U	-0.156 ± 0.36	0.943	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.239 ± 0.405	1.089	U	0.24 ± 0.32	0.89	U
Tritium	pCi/L	20000/-	9.52 ± 95	161	U	-72.3 ± 100	176	U
Potassium-40	pCi/L	-/-	7.55 ± 16	27.8	U	1.85 ± 32	57.4	U
Uranium, Total	pCi/L	20/-	0.137 ± 0.016	0.017	J (DNQ)	0.074 ± 0.012	0.019	J (DNQ)
Cesium 137	pCi/L	200/-	-0.34 ± 1.7	3.06	U	0.386 ± 2.8	4.96	U

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2012 R R R

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R 000130

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2012 R R R

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Max Discharge for event	MGD	17.8
Chloride	LBS/DAY	22,268/-
Fluoride	LBS/DAY	238/-
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-
Oil & Grease	LBS/DAY	2,227/-
Perchlorate	LBS/DAY	0.89/-
Sulfate	LBS/DAY	37,113/-
Total Cyanide	LBS/DAY	1.4/-
Total Dissolved Solids	LBS/DAY	126,184/-
Antimony		

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Max Discharge for event	MGD	17.8
Chloride	LBS/DAY	22,268/-
Fluoride	LBS/DAY	238/-
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-
Oil & Grease	LBS/DAY	2,227/-
Perchlorate	LBS/DAY	0.89/-
Sulfate	LBS/DAY	37,113/-
Total Cyanide	LBS/DAY	1.4/-
Total Dissolved Solids	LBS/DAY	126,184/-
Antimony	LBS/DAY	0.89/-
Boron	LBS/DAY	148/-
Cadmium	LBS/DAY	0.59/-
Copper	LBS/DAY	2.1/-
Lead	LBS/DAY	0.77/-
Mercury	LBS/DAY	0.02/-
Nickel	LBS/DAY	14.9/-
Thallium	LBS/DAY	0.3/-
TCDD TEQ_NoDNQ	LBS/DAY	4.20E-09/-



