APPENDIX C

Sound Refining, Inc
Permit effective date: July 1, 1999

Values are monthly averages.
pH values are the value furthest from 7.0 during monthly sampling.

Stormwater	Outfall 002					Outfall 003					Outfall 004					Rainfall (inches)		Production
Year1999	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	Maximum	Total	BBLs total
July-99	No discharge					1.7	7.20	2.0	0.25	5.0	1.1	6.92	0.0	0.0	12.1			96038
August	No discharge					1.9	7.01	7.0	0.85	10.0	0.8	6.84	3.5	1.0	12.0	0.5	0.62	0
September	No discharge					0.6	7.00	1.0	1.55	6.0	1.3	6.68	6.0	2.4	0.0	0.12	0.12	19260
October	No discharge					1.1	7.23	14.0	0.55	2.0	1.1	6.86	1.0	1.3	15.1			0
November	No discharge					0.7	7.27	25.0	0.05	4.0	0.2	6.71	3.5	0.3	13.0	1.7	10.2	0
December	No discharge					0.7	7.66	18.5	5.05	30.0	4.0	6.29	7.5	0.0	15.0	1.4	4.15	0
Stormwater	Outfall 002					Outfall 003					Outfall 004					Rainfall (inches)		Production
Year 2000	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	Maximum	Total	Barrels
January-00	No discharge					1.6	6.95	4.0	1.60	2.0	0.4	6.43	2.5	2.3	0.0	1.25	4.96	0
February	No discharge					0.5	6.81	13.0	0.50	2.0	0.9	6.38	4.5	1.3	12.9	0.85	4.35	0
March	No discharge					1.1	6.93	57.5	0.10	0.0	1.4	6.34	1.0	0.1	13.0	0.42	2.17	0
April	No discharge					1.5	7.05	0.0	0.65	1.0	3.0	6.40	4.0	1.3	8.0	0.38	0.90	0
May	No discharge					0.9	7.01	0.0	0.55	2.0	1.0	6.53	7.5	0.0	2.0	0.42	1.86	0
June	No discharge					0.7	7.10	0.0	2.10	0.0	2.5	6.63	2.0	2.0	20.0	0.30	1.20	0
July	No discharge					1.5	6.98	0.0	1.30	5.0	1.8	6.77	8.5	1.1	17.8	0.20	0.31	0
August	No discharge					0.7	6.95	0.0	0.65	4.0	0.7	6.79	1.5	0.2	28.0	0.09	0.25	0
September	No discharge					0.2	4.24	2.5	0.25	2.0	1.1	6.76	0.0	1.6	49.0	0.14	0.48	0
October	No discharge					0.1	7.52	6.5	2.95	14.0	1.3	7.12	14.5	3.9	106.0	0.85	4.03	0
November	No discharge					0.9	6.98	1.0	5.45	8.0	1.5	6.80	2.5	6.5	25.8	0.80	3.30	0
December	No discharge					2.3	7.53	9.0	0.55	4.0	1.1	7.10	1.0	0.8	15.9	0.22	2.17	0
Stormwater	Outfall 002					Outfall 003					Outfall 004					Rainfall (inches)		Production
Year 2001	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	Maximum	Total	Barrels
January-01	No discharge					0.35	7.40	0.0	1.15	2.0	0.2	7.16	3.0	0.70	19.8	0.45	2.45	0
February	No discharge					1.15	7.35	0.8	0.60	2.0	0.1	6.56	2.0	1.60	19.9	0.80	2.20	0
March	No discharge					2.40	6.70	4.5	1.05	2.0	2.2	6.83	9.5	1.75	11.0	0.38	2.63	0
April	No discharge					1.70	7.52	8.5	0.60	2.0	1.2	7.11	4.0	0.60	16.0	0.89	3.07	0
May	No discharge					0.70	7.52	1.5	0.50	4.4	0.2	7.09	1.0	0.55	20.0	0.48	1.25	0
June	No discharge					1.40	7.54	1.5	1.17	0.0	0.8	7.16	2.0	2.15	51.8	0.85	2.96	0
July	No discharge					0.60	7.39	2.5	0.90	2.0	0.0	7.29	1.0	0.85	42.2	0.06	0.20	0
August	No discharge					0.25	7.37	2.0	0.80	3.0	2.3	6.58	2.0	0.80	40.0	0.94	2.25	0
September	No discharge					0.25	7.42	1.0	1.55	6.0	1.7	7.65	0.0	1.30	28.0	0.28	0.57	0
October	No discharge					<0.5	7.61	3.0	<2.0	3.0	<0.5	7.43	2.5	<2.0	24.3	0.54	2.99	0
November	No discharge					0.25	7.57	1.0	<2.0	0.0	0.7	7.01	22.5	<2.0	12.2	2.84	9.53	0
December	No discharge					0.95	7.33	2.5	<2.0	9.8	2.5	7.21	1.0	<2.0	7.04	0.92	6.25	0

APPENDIX C

Stormwater	Outfall 002					Outfall 003					Outfall 004					Rainfall (inches)		Production
Year 2002	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	Maximum	Total	Barrels
January-02	No discharge					1.80	7.50	0.0	0.0	0.0	1.8	7.30	2.5	0.00	6.0	2.48	6.66	0
February	No discharge					2.35	7.48	3.5	9.25	6.0	0.5	7.32	1.0	7.27	3.0	0.76	3.37	0
March	No discharge					0.95	7.51	1.0	<2.0	1.98	<0.5	7.37	1.5	<2.0	11.0	0.98	3.74	25789
April	No discharge					2.80	7.51	1.0	<2.0	5.0	<0.5	7.56	2.0	<2.0	78.0	0.55	3.13	53274
May	No discharge					0.5	7.43	1.5	<2.0	6.0	0.8	7.34	0.0	<2.0	3.98	0.40	1.93	0
June	No discharge					<0.5	7.55	2.0	<2.0	18.0	<0.5	7.27	2.25	<2.0	28.0	0.24	1.00	0
July	No discharge					<0.5	7.27	4.0	<2.0	4.0	<0.5	6.93	3.5	<2.0	15.0	0.16	0.52	0
August	No discharge					<0.5	7.29	1.0	<2.0	3.0	<0.5	7.15	4.0	<2.0	36.1	0.02	0.05	0
September	No discharge					0.5	7.55	1.0	<2.0	8.0	<0.5	7.54	0.0	<2.0	18.1	0.08	0.24	0
October	No discharge					<0.5	7.55	10.5	<2.0	8.0	0.3	7.58	0.1	<2.0	9.0	0.24	0.78	0
November	No discharge					1.2	7.41	14.0	<2.0	0.0	0.7	7.52	4.0	<2.0	3.0	0.35	2.75	0
December	No discharge					0.4	7.66	2.0	<2.0	5.0	0.7	7.67	1.0	<2.0	16.1	0.66	6.58	0
Stormwater	Outfall 002					Outfall 003					Outfall 004					Rainfall (inches)		Production
Year 2003	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	Maximum	Total	Barrels
January-03	No discharge					<0.5	7.28	2.5	<2.0	7.9	0.8	7.12	0.5	<2.0	28.0	0.75	7.22	0
February	No discharge					0.4	7.59	0.0	<2.0	4.0	<0.5	7.29	1.5	<2.0	6.0	0.19	1.31	0
March	No discharge					0.5	7.49	2.0	<2.0	0.0	<0.5	6.99	3.0	<2.0	23.5	0.74	4.35	0
April	No discharge					<0.5	7.49	0.0	<2.0	7.9	0.3	7.28	2.5	<2.0	10.0	0.36	2.91	0
May	No discharge					1.9	7.45	0.5	<2.0	3.0	<0.5	7.52	1.0	<2.0	13.9	0.16	0.50	0
June	No discharge					2.2	7.42	0.0	<2.0	3.0	0.8	7.54	2.0	<2.0	14.7	0.15	0.27	0
July	No discharge					2.2	7.51	0.5	<2.0	3.0	2.6	7.78	0.0	<2.0	20.0	0.05	0.05	0
August	No discharge					2.3	7.51	1.5	<2.0	3.0	1.4	7.63	4.5	<2.0	19.0	0.09	0.18	0
September	No discharge					2.4	7.37	2.5	<2.0	0.0	2.5	7.43	66.0	<2.0	35.8	0.56	1.11	0
October	No discharge					1.6	7.04	0.5	<2.0	29.9	<0.5	7.22	0.0	<2.0	18.8	3.88	8.27	0
November	No discharge					1.5	7.29	0.0	<2.0	12.9	1.2	6.86	14.5	<2.0	24.8	0.62	5.34	0
December	No discharge					3.8	7.35	5.8	9.9	3.0	3.8	6.75	6.3	9.8	30.8	0.34	4.04	0
Stormwater	Outfall 002					Outfall 003					Outfall 004					Rainfall (inches)		Production
Year 2004	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	Maximum	Total	Barrels
January-04	No discharge					3.9	7.35	4.0	<2.0	7.9	1.1	6.55	0.0	<2.0	0.0	1.25	6.14	0
February	No discharge					5.8	7.36	1.0	<2.0	7.9	1.4	7.09	5.5	<2.0	69.3	0.40	2.29	0
March	No discharge					3.3	7.37	1.5	<2.0	8.9	<0.50	6.67	2.5	<2.0	7.0	0.32	1.75	0
April	No discharge					1.9	7.37	0.0	<2.0	7.0	4.9	6.76	2.5	<2.0	10.0	0.22	0.67	0
May	No discharge					4.5	7.16	29.5	2.6	16.3	2.2	7.20	5.3	2.6	9.9	0.19	1.98	0
June	No discharge					7.8	7.33	4.5	NA	5.96	4.0	6.85	NA	<2.0	<2.0	0.18	0.53	0
July	No discharge					<2.0	7.42	2.0	<2.0	5.0	<2.0	7.56	2.0	<2.0	3.0	0.00	0.00	0
August	No discharge					<2.0	6.91	0.4	<2.0	<2.0	<2.0	7.17	0.5	<2.0	<2.0	0.73	2.89	0
September	No discharge					<2.0	7.70	0.8	<2.0	<2.0	<2.0	7.48	2.2	<2.0	4.0	0.81	2.89	0
October	No discharge					1.2	7.19	1.2	<2.0	<2.0	3.0	7.56	5.8	<2.0	9.0	1.02	3.54	0
November	No discharge					2.8	7.40	49	<2.0	<2.0	3.7	7.23	13.0	<2.0	<2.0	0.68	2.96	0
December	2.1	6.93	28.0	<2.0	<2.0	2.5	7.43	1.7	<2.0	<2.0	6.6	7.46	1.7	<2.0	<2.0	0.52	3.70	0

APPENDIX C

Stormwater	Outfall 002					Outfall 003					Outfall 004					Rainfall (inches)		Production
Year 2005	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	Maximum	Total	Barrels
January-05	4.5	7.42	34.2	7.0	41	<2.0	6.85	<0.5	<2.0	7.0	<2.0	7.18	<0.5	<2.0	12.0	1.10	3.67	0
February	<2.0	6.7	24.0	3.0	140	<2.0	7.45	0.7	<2.0	<2.0	<2.0	7.25	<0.5	<2.0	<2.0	0.44	0.97	0
March	No discharge					1.4	6.78	1.3	<2.0	<2.0	2.0	6.75	10.0	<2.0	<2.0	0.38	3.87	0
April	3.3	6.16	27.0	<2.0	20	2.0	7.27	0.7	<2.0	<5.0	<2.0	7.06	1.0	<2.0	10.0	0.77	4.38	0
May	1.3	6.4	29.0	3.0	40	2.1	7.53	1.0	<2.0	<5.0	<2.0	7.19	1.3	<2.0	5.0	0.98	3.98	0
June	1.3	7.1	14.0	9.0	42	<2.0	7.27	1.0	<2.0	<5.0	<2.0	6.93	1.0	<2.0	7.0	0.31	1.80	0
July	<2.0	5.57	3.0	17.0	27	<2.0	7.05	1.0	4.0	<5.0	<2.0	6.96	1.0	4.0	<5.0	0.44	1.69	0
August	No discharge					8.0	7.23	1.0	<2.0	<2.0	<2.0	7.19	<0.5	<2.0	<2.0	0.02	0.02	0
September	No discharge					<2.0	7.43	2	3	7	No discharge					0.65	0.93	0
October	No discharge					2.2	7.22	1.5	<2.0	4	2.2	6.41	5	<2.0	10	0.95	3.42	0
November	2.8	5.86	7.8	2	23	<2.0	7.08	2	<2.0	39	2.5	6.10	5.5	<2.0	<2.0	0.93	5.43	0
December	<2.0	7.16	8.3	<2.0	8	<2.0	7.54	4.2	3	40	4.5	7.29	17	<2.0	18	1.50	7.54	0
Stormwater	Outfall 002					Outfall 003					Outfall 004					Rainfall (inches)		Production
Year 2006	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	Maximum	Total	Barrels
January-06	<2.0	6.46	21	3	22	<2.0	6.65	6	<2.0	14	<2.0	6.72	11	<2.0	<2.0	1.90	12.43	0
February	No discharge					2.9	7.78	4	<2.0	2	<2.0	7.07	6.4	<2.0	16	0.44	2.43	0
March	No discharge					<2.0	6.84	2.8	<2.0	<2.0	No discharge					0.42	2.59	0
April	No discharge					<2.0	7.41	2.4	<2.0	<2.0	<2.0	6.78	10	<2.0	8	0.88	2.58	0
May	<2.0	7.4	31	<2.0	<2.0	<2.0	7.59	<2.0	2	3	No discharge					0.57	2.11	0
June	<2.0	8.1	21	17	101	<2.0	7.8	2	<2.0	<2.0	No discharge					0.34	2.34	0
July	<2.0	7.8	6	<2.0	14	<2.0	7.6	<2.0	<2.0	<2.0	No discharge					0.06	0.13	0
August	2.1	7.6	1.2	<2.0	<2.0	<2.0	7.9	2.8	<2.0	<2.0	No discharge					0.00	0.00	0
September	2.4	7.65	2.8	19	37	2.8	7.7	<2.0	7.0	<2.0	<2.0	7.40	<2.0	7.0	10	0.36	0.92	0
October	2.8	7.6	41	3	13	<2.0	7.8	1.3	<2.0	10	4	8.20	4	3	26	0.53	1.58	0
November	3	8	47	8	10	2.1	7.8	22	2	4	2.4	7.20	68	3	24	3.44	16.46	0
December																		
Stormwater	Outfall 002					Outfall 003					Outfall 004					Rainfall (inches)		Production
Year 2007	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	O&G	pH	TSS	BOD	COD	Maximum	Total	Barrels
January-07																		
February																		
March																		
April																		
May																		
June																		
July																		
August																		
September																		
October																		
November																		
December																		

Stormwater First Flush Sampling Sound Refining, Inc.

Date		Metals - Priority Pollutant Parameters units in ug/L												
		Sb	As	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
10/9/2000	003	<50	<50	<1	<3	<7	<10	<40	<0.5	<15	<80	<7	<2	18
10/9/2000	004	<50	<50	<1	<3	<7	<10	<40	<0.5	17	<80	<7	<2	160
12/16/2003	003	<30	<50	<1	<3	<7	9	<40	<0.5	<15	<80	<7	<40	39
12/16/2003	004	<30	<50	<1	<3	<7	13	<40	1000	<15	<80	<7	<40	85
5/26/2004	003	<30	<50	<1	<3	<7	<6	<40	<0.2	<15	<80	<7	<1	13
5/26/2004	004	<30	<50	<1	<3	<7	<6	<40	<0.2	<15	<80	<7	<1	24
5/27/2004	003	<30	<2	<1	<3	35	20	8	<0.4	16	<5	<7	<1	110
5/27/2004	004	<30	<2	<1	<3	20	8	<1	<0.4	<15	<5	<7	<1	60
2/28/2005	002	<5	<2	NA	NA	NA	NA	NA	<0.2	<15	NA	NA	<1	NA
2/28/2005	003	<5	<2	NA	NA	NA	NA	NA	<0.2	<15	NA	NA	<1	NA
2/28/2005	004	<5	<2	NA	NA	NA	NA	NA	<0.2	<15	NA	NA	<1	NA
10/6/2005	003	<30	<50	<1	<3	<7	<6	<40	<0.2	<15	<80	<7	<1	<6
10/6/2005	004	<30	<50	<1	<3	<7	7	<40	<0.2	<15	<80	<7	<1	100
12/19/2005	003	<1	<2	<1	<3	<7	<6	<2	<0.0002	<15	<5	<7	<2	17
12/19/2005	004	<2	<2	<1	<3	<7	<6	<2	<0.0002	<15	<5	<7	<1	88
4/3/2006	003	<5	<2	<1	<3	<7	<6	<1	<0.2	<15	<5	<7	<1	8
4/3/2006	004	<5	<2	<1	<3	15	6	<1	<0.2	<15	<5	<7	<1	96
11/2/2006	002	<2	<2	<1	<3	<7	10	32	<0.2	<15	<5	<7	<1	12
11/2/2006	003	<30	<50	<1	<3	<7	8	<40	<0.2	<15	<80	<7	<1	47
11/2/2006	004	<30	<50	<1	<3	<7	15	<40	<0.2	<15	<80	<7	<1	270
Benchmark value							**63.6**	**81.6**						**117**

	As	Be	Cd	Cr		Pb	Hg	Ni	Se	Ag	Tl	Zn
WQ Acute Criteria	69		42	10300		210	1.8	74		1.9	2130	90
WQ Chronic Criteria	36		9.3			8.1	0.03	8.2	2130		6.3	81
Human Health Criteria		4300					0.15	4600				

In stormwater permitting guidelines, benchmark values are established for lead, copper and zinc. Action is taken when samples exceed the benchmark value.

The high value for mercury at outfall 004 on 12/16/2003 appears to be an anomaly. It may have been a contaminated sample. All other samples were non-detect.

APPENDIX C

Stormwater First Flush Sampling **Sound Refining, Inc.**

		General Parameters in mg/L							
Date		TSS	BOD	pH	diesel	oil	gasoline	COD	O&G
10/9/2000	003	6.5	2.95	7.52	<0.25	<1.0	<0.25	14	0.1
10/9/2000	004	14.5	3.9	7.12	<0.25	<1.0	<0.25	106	1.3
12/16/2003	003	4	9.9	7.39	<0.05	<0.5	0.072	2.97	<0.5
12/16/2003	004	8	9.8	6.51	<0.05	<0.5	<0.05	30.8	1.3
5/26/2004	003	3.5	<2	7.27	<0.05	<0.5	<0.05	5	<2
5/26/2004	004	1	<2	7.1	<0.05	<0.5	<0.05	12	<2
5/27/2004	003	84	2.57	6.75	<0.1	<0.5	<0.05	33.8	<2
5/27/2004	004	11	2.6	7.24	<0.1	<0.5	<0.05	9.9	<2
2/28/2005	002	1.3	<2	7.23	<0.1	<0.5	<0.05	<2	<2
2/28/2005	003	0.7	<2	7.36	<0.1	<0.5	<0.05	<2	<2
2/28/2005	004	3	<2	7.17	<0.1	<0.5	<0.05	<2	<2
10/6/2005	003	1.5	<2	7.22	<0.1	<0.5	<0.05	4	2.2
10/6/2005	004	5	<2	6.41	<0.1	<0.5	<0.05	10	2.2
12/19/2005	003	5	<2	6.81	<0.1	<0.5	<0.05	<2	<2
12/19/2005	004	17	<2	7.53	<0.1	<0.5	<0.05	18	<2
4/3/2006	003	2.4	<2	7.44	<0.1	<0.5	<0.05	<2	<2
4/3/2006	004	10	<2	6.95	<0.1	<0.5	<0.05	8	<2
11/2/2006	002	47	8	6.04	<0.1	<0.5	<0.05	10	2.5
11/2/2006	003	22	2	7.09	<0.1	<0.5	<0.05	4	2.2
11/2/2006	004	68	3	6.87	<0.1	<0.5	<0.05	24	2.8

Sound Refining
Class 2 Inspection

Priority Pollutant Metal		Outfall 003 Grab			Outfall 004 Grab		WQ Criteria	WQ Criteria	Human Health Criteria
Parameter	**Unit**	**13-Feb-01**	**19-May-04**	**10 May 2006**	**13-Feb-01**	**19-May-04**	**Acute**	**Chronic**	
Antimony	ug/L	0.13	0.2 UJ	0.20 U	0.893	0.2			
Arsenic	ug/L	1 U	0.91	0.83	1 U	0.72	69.00	36.00	
Beryllium	ug/L	0.5 U	0.1 U	0.10 U	0.5 U	0.1 U			4300.00
Cadmium	ug/L	0.1 U	0.1 U	0.10 U	1.66	0.1	42.00	9.30	
Chromium	ug/L	1 U	1.5	1.10	1.7	0.4	10300.00		
Copper	ug/L	0.58	1.32	0.89	18.6	1.86			
Lead	ug/L	0.28	0.11	0.10 U	0.866	0.43	210.00	8.10	
Mercury	ug/L	0.04 U	0.5 U	0.0020 U	0.04 U	0.5 U	1.80	0.03	0.15
Nickel	ug/L	1.47	0.5	0.10 U	73	0.63	74.00	8.20	4600.00
Selenium	ug/L	1 U	2.4	0.50 U	1 U	0.5 U		2130.00	
Silver	ug/L	0.1 U	0.1 U	0.10 U	0.1 U	0.1 U	1.90		
Thallium	ug/L	0.1 U	0.1 U	0.10 U	0.1 U	0.1 U	2130.00		6.30
Zinc	ug/L	3.25	6.1	5.00 U	521	11	90.00	81.00	
Parameter	**Unit**						**Permit Limit**		
Phenols	mg/L	0.05 U	0.03 U	0.04 U	0.137	0.03 U			
pH	pH	7.5	7.7	7.9	6.4	7.5	6.0 to 9.0		
BOD	mg/L	4 U	4 U	4 U	4 U	4 U			
TOC	mg/L	1 U	1 U	1 U	1.3	1.4			
TSS	mg/L	3	1 U	1 U	6	1 U			
Oil & Grease	mg/L	5 UJ	5 U	8 U	5 UJ	5 U	15		
#2 Diesel	mg/L	0.5 U	0.046 U	0.046 U	0.48 U	0.047 U			
Hex chrome	ug/L	2 UJ			2 UJ				
COD	mg/L	12 U		5 U	31				

Data Qualifiers

U The analyte was not detected at or above the reported result.

UJ The analyte was not detected at or above the reported estimated result.