

**Table 10-1  
Historic Results for Shallow Lake Energy System  
Westlake Group**

<b>CHEMICAL</b>	<b>DATE</b>	<b>VIOLATION</b>	<b>OUTFALL</b>
Acenaphthene	10/00/1991	Facility was in violation for nonsubmission of the required periodic reports.	101
Acenaphthene	11/00/1991	Facility was in violation for nonsubmission of periodic reports.	1
Acenaphthene	12/00/1997	One excursion was reported.	201A
Acenaphthene (max)	12/00/1997	Recorded value of 0.34 lbs/day was in violation of the permit limit of 0.28 lbs/day. One excursion was reported.	001A
Benzene	9/8/1992	Facility was in violation for failure to monitor benzene components for two successive months.	NS
Benzene	9/8/1992	Facility was in violation for failure to mark each peice of equipment.	NS
Benzene	9/8/1992	Facility was in violation of failure to monitor Benzene components for two successive months before placing them on a quarterly report.	NS
Benzene	9/8/1992	Facility was in violation in failure to distinguish components in Benzene service.	NS
Benzene	11/30/1992	Facility was in violation for failure to distinguishly mark component in benzene service.	NS
Benzene	11/30/1992	Facility was in violation failure to monitor benzene components for a 2 month period and for failure to distinguish mark components in benzene service. Facility also failed to submit test results in a 60 day time frame after the completion of such test.	NS
Benzene	12/7/1992	Failure to distinguish components in benzene service.	NS
Benzene	4/8/1997	Facility was in violation for failing to install appropriate control equipment when emissions exceed 10 Mg/yr. Emissions from facility were 23.58 Mg/yr.	NS
Benzene	11/1/1997	One excursion was reported.	201A
Benzene	2/1/1998	The recorded value of < 0.24 lbswas in violation of the permit limit 0 .18 lbs. The DMR states that, "[t]here was one exceedance from Outfall 001 during the month of February, 1998." The DMR refers to a cover letter, which is not attached, for an explanation of the exceedance.One excursion were reported.	001A
Benzene	2/25/1998	Recorded value of 66 lbs/day was in violation of the permit limit of 65 lbs/day.	1
Benzene	3/3/1998	A release of an unknown amount occurred over an unknown duration.	NS
Benzene	3/4/1998	A release of 154 pounds of Benzene occurred over a period of 4 hours.	NS
Benzene	3/4/1998	A release of 300,000 gallons occurred over an unknown duration.	NS
Benzene	3/17/1998	Recorded value of 0.80 lbs/day was in violation of the permit limit 0.65 lbs/day.	1
Benzene	3/20/1998	Recorded value of 0.75 lbs/day was in violation of the permit limit of 0.65 lbs/day.	1
Benzene	01/ /1998	Recorded value of 0.24 lbs/day was in violation of the permit limit 0.18 lbs/ day.	1
Benzene	03/ /1998	Recorded value of 0.805 lbs/day was in violation of the permit limit of 0.65 lbs/day.	1
Benzene	03/00/1998	Recorded value of 0.805 lbs/day was in violation of the permit limit of 0.650 lbs/day. One excusion was reported.	001A



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Benzene	11/00/1997	One excursion was reported.	301A
Benzene	12/00/1997	One excursion was reported.	201A
Benzene, Avg	11/00/1997	Recorded value of <0.19 lbs/day was in violation of the permit limit of 0.18 lbs/day. One excursion was reported.	001A
Benzene, Avg	12/00/1997	Recorded value of <0.20 lbs/day was in violation of the permit limit of 0.18 lbs/day. One excursion was reported.	001A
Benzene, Max	3/17/1998	Recorded value of 0.80 lbs/day was in violation of permit limit of 0.65 lbs/day.	1
Benzene, Max	03/00/1998	Recorded value of 0.805 lbs/day was in violation of permit limit. One excursion was reported.	201A
Benzene, Max	11/00/1997	Recorded value of 0.75 lbs/day was in violation of the permit limit of 0.65 lbs/day. One excursion was reported.	001A
Chloroform	1/13/1997	Recorded value of 0.23 lbs/day was in violation of permit limit of 0.12 lbs/day.	1
Chloroform	1/17/1997	Recorded value of 0.23 lbs/day was in violation of the permit limit of 0.12 lbs/day.	NS
Chloroform	2/25/1998	Recorded value of 25 lbs/day was in violation of the permit limit of 22 lbs/day.	1
Chloroform	01/00/1997	Recorded value was in violation of the permit limit.	1
Fluorene	04/00/1991	Facility was in violation for failure to report data on Fluorene for April, 1991 at outfall 001.	101
Fluorene	04/00/1991	Facility was in violation for failure to report Fluorene on the April, 1991 DMR for outfall 101.	101
Fluorene	12/00/1997	One excursion was reported.	201A
Fluorene (max)	12/00/1997	Recorded value of 0.30 lbs/day was in violation of the permit limit of 0.28 lbs/day. One excursion was reported.	001A
Naphthalene	12/6/1991	Recorded value of 4.42 lbs/day was in violation of the permit limit of 0.1 lbs/day.	101
Naphthalene	12/6/1991	Recorded value of 3.66 mg/l was in violation of the permit limit 0.059 mg/l	101
Naphthalene	12/6/1991	Recorded value of 4.42 lbs/day was in violation of permit limit of 0.1 lbs.	101
Naphthalene	3/12/1993	Recorded value of 98 mg/l was in violation of the permit limit of 22 mg/l.	101
Naphthalene	12/16/1997	Recorded value of 1.15 lbs/day was in violation of the permit limit 0.28 lbs/day.	1
Naphthalene	12/29/1997	Recorded value of 0.73 lbs/day was in violation of the permit limit 0.28 lbs/day.	1
Naphthalene	12/29/1997	Recorded value of 0.73 lbs/day was in violation of the permit limit of 0.28 lbs/day.	NS
Naphthalene	08/00/1991	Recorded value of 0.11 lbs/day was in violation of the permit limit of 0.1 lbs/day. One excursion was reported.	101
Naphthalene	12/00/1997	Three exceedances were reported to have occurred at the Internal Outfall 201 (MWK Sump/Outfall 101) for the parameter of Naphthalene.	1
Naphthalene	12/00/1997	Two unrelated individual occurrences of exceedances of the permitted daily maximum of 0.28 lbs/day for Naphthalene resulted in an exceedance of the permitted monthly average of 0.10 lbs/day for Naphthalene.	1
Naphthalene	12/00/1997	Facility was in violation for exceedence (no data given).	201



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Naphthalene	12/00/1997	Three excursions were reported.	001A
Naphthalene	12/00/1997	Three excursions were reported.	001A
Naphthalene	12/00/1997	Three excursions were reported.	201A
Naphthalene	12/00/1997	Three excursions were reported.	201A
Naphthalene, avg	3/11/1993	Recorded value of .025 mg/l was in violation of the permit limit of .022 mg/l.	101
Naphthalene, avg	03/00/1993	Recorded value of 0.07 lbs/day was in violation of the permit limit of 0.04 lbs/day. Recorded value of 0.025 mg/l was in violation of the permit limit of 0.022 mg/l. Two excursions were reported.	101
Naphthalene, avg	03/00/1993	Recorded value of 0.07 lbs/day was in violation of the permit limit of 0.04 lbs/day. One excursion was reported.	101A
Naphthalene, avg	03/00/1993	Recorded value of 0.025 mg/l was in violation of the permit limit of 0.022 mg/l. One excursion was reported.	101A
Naphthalene, avg	07/00/1991	Recorded value of .057 lbs/dy was in violation of the permit limit of 0.04 lbs/dy. One excursion was reported.	101
Naphthalene, avg	07/00/1991	Recorded value of 0.057 lbs/day was in violation of the permit limit of 0.04 lbs/day. One excursion was reported.	101
Naphthalene, avg	12/00/1991	Recorded value of 1.12 lbs/day was in violation of the permit limit of 0.04 lbs/day. One excursion was reported.	101
Naphthalene, avg	12/00/1991	Recorded value of 0.92 mg/l was in violation of the permit limit of 0.022 mg/l. One excursion was reported.	101
Naphthalene, avg	12/00/1991	Recorded value of 1.12 lbs/day was in violation of the permit limit of 0.04 lbs/day. Recorded value of 0.92 mg/l was in violation of the permit limit of 0.022 mg/l. Two excursions were reported.	101A
Naphthalene, avg	12/00/1997	Recorded value of <0.17 lbs/day was in violation of the permit limit of 0.10 lbs/day.	001A
Naphthalene, avg	12/00/1997	Recorded value of <0.28 lbs/day was in violation of the permit limit of 0.10 lbs/day.	001A
Naphthalene, daily avg.	12/6/1991	The recorded value of 1.12 mg/l was in violation of the permit limit of 0.04 mg/l.	101
Naphthalene, daily avg.	03/00/1993	Recorded value of 0.07 lbs was in violation of the permit limit of 0.04 lbs.	101
Naphthalene, daily avg.	03/00/1993	Recorded value of .025 mg/l was in violation of permit limit of .022 mg/l.	101
Naphthalene, daily avg.	07/00/1991	The recorded value of 0.084 lbs was in violation of the permit limit of 0.04 lbs.	101
Naphthalene, daily avg.	07/00/1991	Recorded value of 0.032 lbs was in violation of the permit limit of 0.04 lbs.	101
Naphthalene, daily avg.	08/00/1991	Recorded value of 0.11 lbs was in violation of the permit limit of 0.04 lbs.	101
Naphthalene, daily avg.	12/00/1991	Recorded value of 1.12 lbs/day was in violation of the permit limit of 0.04 lbs/day.	101A
Naphthalene, daily avg.	12/00/1991	Recorded value of 0.92 mg/l was in violation of the permit limit of 0.022 mg/l.	101A
Naphthalene, max	12/6/1991	Recorded value of 3.66 mg/l was in violation of permit limit of .059 mg/l.	101
Naphthalene, max	3/11/1993	The recorded value of .3 lbs was in violation of the permit limit of 0.1 lbs.	101
Naphthalene, max	3/11/1993	The recorded value of .07 lbs was in violation of the permit limit of .04 lbs.	101



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Naphthalene, max	3/11/1993	Recorded value of .098 mgwas in violation of the permit limit of .059 mg.	101
Naphthalene, max	03/00/1993	Recorded value of 0.3 lbs/day was in violation of the permit limit of 0.1 lbs/day. Recorded value of 0.098 mg/l was in violation of the permit limit of 0.059 mg/l. Two excursions were reported.	101
Naphthalene, max	03/00/1993	Recorded value of 0.3 lbs/day was in violation of the permit limit of 0.1 lbs.day. One excursion was reported.	101A
Naphthalene, max	03/00/1993	Recorded value of 0.098 mg/l was in violation of the permit limit of 0.059 mg/l. One excursion was reported.	101A
Naphthalene, max	07/00/1991	Recorded value of .101 lbs/dy was in violation of the permit limit of 0.1 lbs/dy. One excursion was reported.	101
Naphthalene, max	07/00/1991	Recorded value of 0.101 lbs/day was in violation of the permit limit of 0.1 lbs/day. One excursion was reported.	101
Naphthalene, max	10/00/1991	Recorded value of .328 mg/l was in violation of the permit limit of .059 mg/l. One excursion was reported.	101
Naphthalene, max	10/00/1991	Recorded value of 0.328 mg/l was in violation of the permit limit of 0.059 mg/l. One excursion was reported.	101A
Naphthalene, max	12/00/1991	Recorded value of 4.42 lbs/day was in violation of the permit limit of 0.1 lbs/day. One excursion was reported.	101
Naphthalene, max	12/00/1991	Recorded value of 3.66 mg/l was in violation of the permit limit of 0.059 mg/l. One excursion was reported.	101
Naphthalene, max	12/00/1991	Recorded value of 4.42 lbs/day was in violation of the permit limit of 0.1 lbs/day. Recorded value of 3.66 mg/l was in violation of the permit limit of 0.059 mg/l. Two excursions were reported.	101A
Naphthalene, max	12/00/1997	Recorded value of 1.15 lbswas in violation of the permit limit 0.28 lbs.	001A
Naphthalene, max	12/00/1997	Recorded value of 1.91 lbs/day was in violation of the permit limit of 0.28 lbs/ day.	001A
Napthhalene, daily max	3/11/1993	Recorded value of .098 mg/l was in violation of permit limit of .059 mg/l.	101
Napthhalene, daily max	3/11/1993	Recorded value of 0.3 lbs/day was in violation of permit limit of 0.1 lbs/day.	101
Napthhalene, daily max	3/11/1993	Recorded value of .098 mg/l was in violation of the permit limit of .059 mg/l.	101
Napthhalene, daily max	3/11/1993	Recorded value of .2850 lbs/day was in violation of the permit limit of 0.1 lbs/day.	101
Napthhalene, daily max	09/00/1991	Recorded value of 0.13 lbs/day was in violation of the permit limit of 0.1 lbs/day.	101A
Napthhalene, daily max	10/00/1991	Recorded value of 0.328 mg/l was in violation of the permit limit of 0.059 mg/l.	101A
Napthhalene, daily max	12/00/1991	Recorded value of 3.66 mg/l was in violation of the permit limit of 0.059 mg/l.	101A
Napthhalene, daily max	12/00/1991	Recorded value of 4.42 lbs/day was in violation of the permit limit of 0.1 lbs/day.	101A
Naththalene	08/00/1991	Recorded value of 0.025 lbs/day was in violation of the permit limit of 0.022 lbs/day. One excursion was reported.	101
Phenanthrene	04/00/1991	Facility was in violation for failure to report data on Phenanthrene for April, 1991 at outfall 001.	1
Phenanthrene	04/00/1991	Facility was in violation for failure to report Phenathrene on the April, 1991 DMR for outfall 101.	101
Phenol	7/11/1991	Recorded value of .03 mg/l was in violation of the permit limit of .026 mg/l	101



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Phenol	7/18/1991	Recorded value of .032 mg/l was in violation of the permit limit of .026 mg/l.	101
Phenol	8/9/1991	Recorded value of .028 mg/l was in violation of the permit limit of .026 mg/l.	101
Phenol	8/16/1991	Recorded value of .0384 mg/l was in violation of the permit limit of .026 mg/l.	101
Phenol	10/25/1991	There were high concentrations of phenol on Outfall 101, 10-25-91. The mass limitation was exceeded for phenol on the same day.	101
Phenol	07/00/1991	Two excursions were reported.	101A
Phenol	09/00/1991	One excursion was reported.	101A
Phenol	10/00/1991	Two excursions were reported.	101A
Phenol, Avg	1/17/1992	The recorded value of 0.08 lbs was in violation of the permit limit of .04 lbs.	101
Phenol, Avg	07/00/1991	Recorded value of 0.08 lbs/day was in violation of the permit limit of 0.03 lbs/day. One excursion was reported.	101
Phenol, Avg	07/00/1991	Recorded value of 0.031 mg/l was in violation of the permit limit of 0.015 mg/l. One excursion was reported.	101
Phenol, Avg	07/00/1991	Recorded value of .08 lbs/dy was in violation of the permit limit of 0.03 lbs/dy. Recorded value of .031 mg/l was in violation of the permit limit of 0.015 mg/l.	101A
Phenol, Avg	08/00/1991	Recorded value of 0.02 mg/l was in violation of the permit limit of 0.015 mg/l. One excursion was reported.	101
Phenol, Avg	08/00/1991	Recorded value of 0.020 mg/l was in violation of the permit limit of 0.015 mg/l. One excursion was reported.	101A
Phenol, Avg	09/00/1991	Recorded value of 0.12 lbs/day was in violation of the permit limit of 0.04 lbs/day. One excursion was reported.	101
Phenol, Avg	09/00/1991	Recorded value of 0.036 mg/l was in violation of the permit limit of 0.026 mg/l. One excursion was reported.	101
Phenol, Avg	09/00/1991	Recorded value of 0.04 lbs/dy was in violation of the permit limit of 0.03 lbs/dy. Recorded value of 0.020 mg/l was in violation of the permit limit of 0.015 mg/l.	101A
Phenol, Avg	10/00/1991	Recorded value of 0.04 lbs/day was in violation of the permit limit of 0.03 lbs/day. One excursion was reported.	101
Phenol, Avg	10/00/1991	Recorded value of 0.04 lbs/day was in violation of the permit limit of 0.03 lbs/day.	101A
Phenol, Daily Avg.	07/00/1991	Recorded value of 0.08 lbs was in violation of the permit limit of 0.03 lbs.	101
Phenol, Daily Avg.	08/00/1991	Recorded value of 0.02 mg was in violation of the permit limit of 0.015 mg.	101
Phenol, Daily Avg.	09/00/1991	Recorded value of 0.04 lbs/day was in violation of the permit limit of 0.03 lbs/day.	101A
Phenol, Daily Avg.	09/00/1991	Recorded value of 0.02 mg/l was in violation of the permit limit of .015 mg/l.	101A
Phenol, Daily Avg.	10/00/1991	Recorded value of 0.04 lbs/day was in violation of the permit limit of 0.03 lbs/day.	101A
Phenol, Daily Max.	01/00/1992	Recorded value of 0.08 lbs was in violation of the permit limit of 0.04 lbs.	101
Phenol, Daily Max.	07/00/1991	Recorded value of 0.032 mg was in violation of the permit limit of 0.026 mg.	101
Phenol, Daily Max.	07/00/1991	Recorded value of 0.09 lbs was in violation of the permit limit of 0.04 lbs.	101



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Phenol, Daily Max.	07/00/1991	Recorded value of 0.031 mgwas in violation of the permit limit of 0.026 mg.	101
Phenol, Daily Max.	08/00/1991	Recorded value of 0.02 mgwas in violation of the permit limit of 0.026 mg.	101
Phenol, Daily Max.	08/00/1991	Recorded value of 0.028 mgwas in violation of the permit limit of 0.026mg.	101
Phenol, Daily Max.	09/00/1991	Recorded value of 0.036 mg/l was in violation of the permit limit of 0.026 mg/l.	101A
Phenol, Daily Max.	09/00/1991	Recorded value of 0.12 lbs/day was in violation of the permit limit of 0.1 lbs/day.	101A
Phenol, Daily Max.	10/00/1991	Recorded value of 0.05 lbs/day was in violation of the permit limit of 0.04 lbs/day.	101A
Phenol, Daily Max.	10/00/1991	Recorded value of 0.297 mg/l was in violation of the permit limit of .026 mg/l.	101A
Phenol, Max	11/15/1991	The recorded value of .03 mgwas in violation of the permit limit of 0.02 mg.	101
Phenol, Max	11/15/1991	Recorded value of .03 mg/l was in violation of the permit limit .026 mg/l.	101
Phenol, Max	11/15/1991	Recorded value of .06 lbs/day was in violation of the permit limit of .04 lbs/day.	101
Phenol, Max	1/17/1992	Recorded value of 0.08 lbs/day was in violation of the permit limit 0.04 lbs/day.	101
Phenol, Max	07/00/1991	Recorded value of 0.09 lbs/day was in violation of the permit limit of 0.04 lbs/day. One excursion was reported.	101
Phenol, Max	07/00/1991	Recorded value of 0.032 mg/l was in violation of the permit limit of 0.026 mg/l. One excursion was reported.	101
Phenol, Max	07/00/1991	Recorded value of .09 lbs/dy was in violation of the permit limit of 0.04 lbs/dy. Recorded value of .032 mg/l was in violation of the permit limit of 0.026 mg/l.	101A
Phenol, Max	08/00/1991	Recorded value of 0.028 mg/l was in violation of the permit limit of 0.026 mg/l. One excursion was reported.	101
Phenol, Max	08/00/1991	Recorded value of 0.028 mg/l was in violation of the permit limit of 0.026 mg/l. One excursion was reported.	101A
Phenol, Max	09/00/1991	Recorded value of 0.04 lbs/day was in violation of the permit limit of 0.03 lbs/day. One excursion was reported.	101
Phenol, Max	09/00/1991	Recorded value of 0.02 mg/l was in violation of the permit limit of 0.015 mg/l. One excursion was reported.	101
Phenol, Max	09/00/1991	Recorded value of 0.12 lbs/dy was in violation of the permit limit of 0.04 lbs/dy. Recorded value of 0.036 mg/l was in violation of the permit limit of 0.026 mg/l.	101A
Phenol, Max	10/00/1991	Recorded value of 0.05 lbs/day was in violation of the permit limit of 0.04 lbs/day. One excursion was reported.	101
Phenol, Max	10/00/1991	Recorded value of .297 mg/l was in violation of the permit limit of 0.026 mg/l. One excursion was reported.	101
Phenol, Max	10/00/1991	Recorded value of 0.05 lbs/day was in violation of the permit limit of 0.04 lbs/day. Recorded value of 0.297 mg/l was in violation of the permit limit of 0.026 mg/l.	101A
Phenol, Max	11/00/1991	Recorded value of 0.06 lbs/day was in violation of the permit limit of 0.04 lbs/day. Two excursion was reported.	101
Phenol, Max	11/00/1991	Recorded value of 0.03 mg/l was in violation of the permit limit of 0.026 mg/l.	101



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Phenol, Max	11/00/1991	Recorded value of 0.03 mg/l was in violation of the permit limit of 0.026 mg/l. One excursion was reported.	101A
Phenol, Max	11/00/1991	Recorded value of 0.06 lbs/day was in violation of the permit limit of 0.04 lbs/day. One excursion was reported.	101A
Phenol, Max.	11/15/1991	The recorded value of 0.06 mg was in violation of the permit limit of 0.04 mg.	101
Toluene	3/17/1998	Recorded value of 0.59 lbs/day was in violation of the permit limit 0.38 lbs/day.	1
Toluene	3/20/1998	Recorded value of 0.59 lbs/day was in violation of the permit limit of 0.19 lbs/day.	1
Toluene	03/ /1998	Recorded value of 0.59 lbs/day was in violation of the permit limit 0.38 lbs/day.	1
Toluene, Avg	00/00/0000	Recorded value of 0.04 mg was in violation of the permit limit of 0.26 mg/l.	101
Toluene, Avg	00/00/0000	Recorded value of 0.05 lbs/day was in violation of the permit limit of 0.04 lbs/day.	102
Toluene, Avg	03/00/1991	Recorded value of 0.05 lbs/dy was in violation of permit limit of 0.04 lbs/dy. Recorded value of 0.04 mg/l was in violation of the permit limit of 0.026 mg/l. Two excursions were reported.	101A
Toluene, Avg	09/00/1992	Recorded value of 0.04 mg/l was in violation of the permit limit of 0.026 mg/l. One excursion was reported.	101
Toluene, Avg	09/00/1992	Recorded value of 0.05 lbs/day was in violation of permit limit of 0.04 lbs/day. One excursion was reported.	101
Toluene, Max	9/4/1992	Recorded value of 0.105 mg/l was in violation of the permit limit of 0.080 mg/l.	101
Toluene, Max	9/4/1992	Recorded value of 0.10 mg/l was in violation of the permit limit of 0.08 mg/l.	101
Toluene, Max	3/17/1998	Recorded value of 0.59 lbs/day was in violation of permit limit of 0.38 lbs/day.	1
Toluene, Max	03/00/1991	Recorded value of 0.10 mg/l was in violation of permit limit of 0.08 mg/l. One excursion was reported.	101A
Toluene, Max	09/00/1992	Recorded value of 0.10 mg/l was in violation of the permit limit of 0.08 mg/l. One excursion was reported.	101

NS - Not Specified

Information obtained from permit files.