

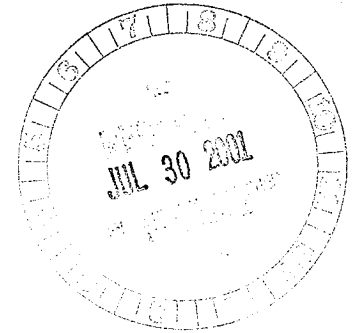


KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 55 - HENDERSON, NEVADA 89009

July 23, 2001

Ms. Valerie King
Nevada Division of Environmental Protection
333 West Nye Lane
Carson City, NV 89706-0851



Dear Ms. King:

Subject: UIC Permit # NEV94218 Permit – Second Quarter 2001

Kerr-McGee Chemical LLC (KMCLLC) maintains an Underground Injection Control (UIC) Permit #NEV94218 for groundwater remediation at its Henderson, Nevada, facility. Pursuant to Section I.A.3, samples of the Lake Mead water injectate were collected and analyzed for April, May and June of 2001. Please see Attachment 1 for analytical information. Included with this submittal is a history of the perchlorate concentration of the injectate.

Section I.A.3 requires quarterly groundwater monitoring. This information is provided in Attachment 2. Section I.A.3 also requires that the injection rate monthly average be less than the extraction rate monthly average. Average flows of Lake Mead water injection and groundwater extraction are listed in Attachment 2.

Please feel free to call me at (702) 651-2234 if you have any questions regarding this request. Thank you.

Sincerely,

Susan M. Crowley
Staff Environmental Specialist

By certified mail

Attachments

cc: PSCorbett

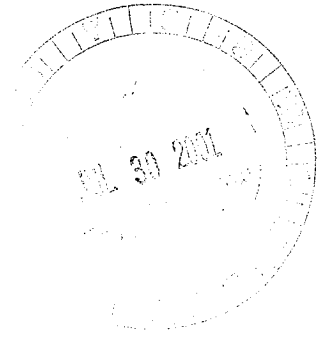
WOGreen

MJPorterfield

FRStater

Doug Zimmerman, NDEP

Brenda Pohlmann, NDEP



ATTACHMENT 1

**Lake Mead Water
Analytical Information**

Perchlorate in Lake Mead Water

Month	Perchlorate (ug/l)
January 1999	11
February	9.3
March	8.5
April	9.3
May	9
June	13
July	10
August	9.8
September	8.8
October	8.4
November	8.1
December 1999	15
January 2000	*
February	9.3
March	9.8
April	11
May	20
June	8.5
July	10
August	7.5
September	8.9
October	7.4
November	28
December 2000	27
January 2001	13
February	9.2
March	7.5
April	4.8
May	8.8
June	8.0

* Sample QC outside acceptable range.

ATTACHMENT 2

UIC Permit
Monitoring

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Water Elevations

Analytical Information

Flow Rates

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
QUARTERLY GROUNDWATER ELEVATIONS (feet)

Date	M-25		M-38		M-80		M-82A		M-86		M-94		M-96		M-98		M-99		M-100		M-102	
	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV
Jan-99	33.30	1726.63	30.90	1728.83	30.90	1715.14	23.20	1717.01	25.20	1719.03	10.00	1685.07	8.40	1685.09	25.80	1706.11	25.68	1705.06	24.08	1706.85	29.90	1710.34
Feb-99	33.35	1726.58	30.94	1728.79	30.50	1715.54	25.00	1717.21	25.00	1719.23	9.87	1685.20	8.29	1685.20	25.80	1706.11	25.65	1705.09	24.14	1706.79	30.00	1710.1
Mar-99	33.40	1726.53	31.00	1728.73	31.95	1714.09	27.00	1715.92	27.00	1717.23	9.80	1685.27	8.29	1685.20	26.22	1705.69	25.98	1704.76	24.57	1706.36	30.75	1709.49
May-99	33.40	1726.53	30.95	1728.78	32.56	1713.48	27.88	1715.49	27.88	1716.35	8.73	1686.34	8.16	1685.33	27.00	1704.91	26.29	1704.45	24.85	1706.08	31.06	1709.18
Aug-99	33.76	1726.17	31.31	1728.42	33.05	1712.99	25.4	1714.81	28.78	1715.45	9.90	1685.17	8.31	1685.18	28.68	1703.23	27.34	1703.40	25.75	1705.18	31.7	1708.54
Nov-99	34	1725.93	34.41	1725.32	31.6	1714.44	29.62	1714.61	30.51	1713.72	10.4	1684.67	8.73	1684.76	29.58	1702.33	27.96	1702.78	26.37	1704.56	32.31	1707.93
Feb-00	33.7	1726.23	31.31	1728.42	33.75	1712.29	30.51	1713.72	30.51	1713.72	10.71	1684.36	9.11	1684.38	30.75	1701.16	28.99	1701.75	27.33	1703.60	33.02	1707.22
May-00	33.53	1726.40	31.30	1728.43	33.60	1712.44	30.80	1714.68	30.80	1713.43	10.18	1684.89	9.20	1684.29	31.24	1700.67	29.57	1701.17	27.86	1703.07	33.51	1706.73
Sept-00	34.11	1725.82	31.91	1727.82	35.07	1710.97	31.9	1712.33	31.9	1712.33	11.43	1683.64	9.53	1683.96	33.03	1698.88	30.32	1700.42	28.25	1702.68	34.37	1705.87
Nov-00	33.95	1725.98	31.40	1728.33	34.80	1711.24	32.03	1714.31	32.03	1712.20	11.60	1683.47	9.70	1683.79	32.37	1699.54	30.50	1700.24	28.27	1702.66	34.59	1705.65
Feb-01	33.93	1726.00	31.42	1728.31	34.77	1711.27	32.52	1714.30	32.52	1711.71	12.00	1683.07	10.00	1683.49	33.33	1698.58	31.45	1699.29	30.09	1700.84	35.20	1705.04
May-01	33.58	1726.35	31.17	1728.56	33.88	1712.16	32.45	1715.10	32.45	1711.78	12.10	1682.97	10.11	1683.38	33.33	1698.58	31.67	1699.07	30.40	1700.53	35.53	1704.71

**KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility**

**UIC PERMIT MONITORING WELLS
TOTAL DISSOLVED SOLIDS (mg/l) ANALYSES**

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
May-01	4,660	12,000	10,600	20,900	9,710	9,350	8,940	9,840

**UIC PERMIT MONITORING WELLS
TOTAL CHROMIUM (mg/l) ANALYSES**

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
May-01	5.50	33	9.80	32	ND	2.10	12.10	8.40

**UIC PERMIT MONITORING WELLS
TOTAL PERCHLORATE (mg/l) ANALYSES**

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
May-01	82	650	1,100	2,800	6,900	1,500	1,300	910

**KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility**

**UIC PERMIT
INJECTION AND EXTRACTION RATES (gpm)**

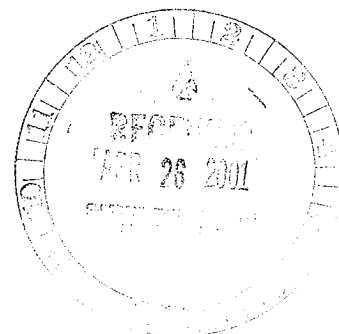
MONTH	EXTRATION RATE	INJECTION RATE
January 1999	59	25
February	54	25
March	45	25
April	51	18
May	42	18
June	24	20
July	27	23
August	29	24
September	26	23
October	26	26
November	26	25
December 1999	26	24
January 2000	34	28
February	34	28
March	34	28
April	34	25
May	35	25
June	34	25
July	27	18
August	27	18
September	27	18
October	29	20
November	29	19
December 2000	28	19
January 2001	24	12
February	26	21
March	26	7
April	25	18
May	27	18
June	26	22



KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 55 - HENDERSON, NEVADA 89009

April 20, 2001



Ms. Valerie King
Nevada Division of Environmental Protection
333 West Nye Lane
Carson City, NV 89706-0851

Dear Ms. King:

Subject: UIC Permit # NEV94218 Permit – First Quarter 2001

Kerr-McGee Chemical LLC (KMCLLC) maintains an Underground Injection Control (UIC) Permit #NEV94218 for groundwater remediation at its Henderson, Nevada, facility. Pursuant to Section I.A.3, samples of the Lake Mead water injectate were collected and analyzed for January, February and March 2001. Please see Attachment 1 for analytical information. Included with this submittal is a history of the perchlorate concentration of the injectate.

Section I.A.3 requires quarterly groundwater monitoring. This information is provided in Attachment 2. Section I.A.3 also requires that the injection rate monthly average be less than the extraction rate monthly average. Average flows of Lake Mead water injection and groundwater extraction are listed in Attachment 2.

Please feel free to call me at (702) 651-2234 if you have any questions regarding this request. Thank you.

Sincerely,

Susan M. Crowley
Staff Environmental Specialist

By certified mail

Attachments

cc: PSCorbett
WOGreen
MJPorterfield
FRStater
Doug Zimmerman, NDEP
Brenda Pohlmann, NDEP

ATTACHMENT 1

Lake Mead Water
Analytical Information

Perchlorate in Lake Mead Water

Month	Perchlorate (ug/l)
January 1999	11
February	9.3
March	8.5
April	9.3
May	9
June	13
July	10
August	9.8
September	8.8
October	8.4
November	8.1
December 1999	15
January 2000	*
February	9.3
March	9.8
April	11
May	20
June	8.5
July	10
August	7.5
September	8.9
October	7.4
November	28
December 2000	27
January 2001	13
February	9.2
March	7.5

* Sample QC outside acceptable range.

ATTACHMENT 2

UIC Permit
Monitoring

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Water Elevations

Analytical Information

Flow Rates

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
QUARTERLY GROUNDWATER ELEVATIONS (feet)

Date	M-25		M-38		M-80		M-82A		M-86		M-94		M-96		M-98		M-99		M-100		M-102			
	TOC	ELEV	TOC	ELEV	TOC	ELEV	DTW	ELEV	TOC	ELEV	DTW	ELEV	TOC	ELEV	DTW	ELEV	TOC	ELEV	DTW	ELEV	TOC	ELEV		
Jan-99	33.30	1726.63	30.90	1715.14	23.20	1717.01	25.20	1719.03	10.00	1685.07	8.40	1685.09	25.80	1706.11	25.68	1705.06	24.08	1706.85	29.90	1710.34				
Feb-99	33.35	1726.58	30.50	1715.54	23.00	1717.21	25.00	1719.23	9.87	1685.20	8.29	1685.20	25.80	1706.11	25.65	1705.09	24.14	1706.79	30.00	1710.24				
Mar-99	33.40	1726.53	31.00	1714.09	24.29	1715.92	27.00	1717.23	9.80	1688.34	8.29	1685.20	26.22	1705.69	25.98	1704.76	24.57	1706.36	30.75	1709.49				
May-99	33.40	1726.53	30.95	1713.48	24.72	1715.49	27.88	1716.35	8.73	1689.41	8.16	1685.33	27.00	1705.51	26.29	1704.45	24.85	1706.08	31.06	1709.18				
Aug-99	33.76	1726.17	31.31	1712.99	25.4	1714.81	28.78	1715.45	9.90	1688.24	8.31	1685.18	28.68	1705.19	27.34	1703.5	25.75	1705.18	31.7	1708.54				
Nov-99	34	1725.93	31.6	1714.44	25.78	1714.43	29.62	1714.61	10.4	1687.74	8.73	1684.76	29.58	1704.29	27.96	1702.88	26.37	1704.56	32.31	1707.93				
Feb-00	33.7	1726.23	31.31	1712.29	25.64	1714.57	30.51	1713.72	10.71	1687.43	9.11	1684.38	30.75	1703.12	28.99	1701.85	27.33	1703.60	33.02	1707.22				
May-00	33.53	1724.29	31.30	1712.13	25.53	1712.82	30.80	1711.93	10.18	1687.96	9.20	1684.29	31.24	1700.67	29.57	1701.17	27.86	1703.07	33.51	1706.73				
Sept-00	34.11	1723.71	31.91	1710.66	26.05	1712.3	31.9	1710.83	11.43	1686.71	9.53	1683.96	33.03	1698.88	30.32	1700.42	28.25	1702.68	34.37	1705.87				
Nov-00	33.95	1723.87	31.40	1710.93	25.90	1712.45	32.03	1710.70	11.60	1686.53	9.70	1783.79	32.37	1684.54	30.50	1700.24	28.27	1702.66	34.59	1705.65				
Feb-01	33.93	1723.89	31.42	1711.96	25.91	1712.44	32.52	1710.21	12.00	1686.13	10.00	1783.49	33.33	1684.58	31.45	1699.29	30.09	1700.84	35.20	1705.04				

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
TOTAL DISSOLVED SOLIDS (mg/l) ANALYSES

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
Feb-01	4,790	13,700	11,300	18,900	9,330	11,100	9,840	7,790

UIC PERMIT MONITORING WELLS
TOTAL CHROMIUM (mg/l) ANALYSES

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
02-01	8.8	31	11	33	0.06	1.7	2.1	5.1

UIC PERMIT MONITORING WELLS
TOTAL PERCHLORATE (mg/l) ANALYSES

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
02-01	76	630	1,100	2,600	7,800	1,500	1,500	900

**KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility**

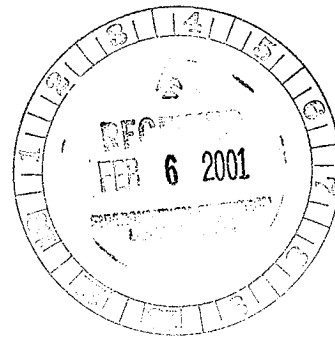
**UIC PERMIT
INJECTION AND EXTRACTION RATES (gpm)**

MONTH	EXTRACTION RATE	INJECTION RATE
January 1999	59	25
February	54	25
March	45	25
April	51	18
May	42	18
June	24	20
July	27	23
August	29	24
September	26	23
October	26	26
November	26	25
December 1999	26	24
January 2000	34	28
February	34	28
March	34	28
April	34	25
May	35	25
June	34	25
July	27	18
August	27	18
September	27	18
October	29	20
November	29	19
December 2000	28	19
January 2001	24	12
February	26	21
March	26	7



KERR-McGEE CHEMICAL LLC
POST OFFICE BOX 66 - HENDERSON, NEVADA 89009

January 26, 2001



Ms. Valerie King
Nevada Division of Environmental Protection
333 West Nye Lane
Carson City, NV 89706-0851

Dear Ms. King:

Subject: UIC Permit # NEV94218 Permit – Fourth Quarter 2000

Kerr-McGee Chemical LLC (KMCLLC) maintains an Underground Injection Control (UIC) Permit #NEV94218 for groundwater remediation at its Henderson, Nevada, facility. Pursuant to Section I.A.3, samples of the Lake Mead water injectate were collected and analyzed for October, November and December 2000. Please see Attachment 1 for analytical information. Included with this submittal is a history of the perchlorate concentration of the injectate. This information has been provided in each of the quarterly reports, in varying locations within the data packages, but is provided here to summarize the information for 2000.

Section I.A.3 requires quarterly groundwater monitoring. This information is provided in Attachment 2. Section I.A.3 also requires that the injection rate monthly average be less than the extraction rate monthly average. Average flows of Lake Mead water injection and groundwater extraction are listed in Attachment 2.

Please feel free to call me at (702) 651-2234 if you have any questions regarding this request. Thank you.

Sincerely,

Susan M. Crowley
Staff Environmental Specialist

By certified mail
Attachments

cc: PSCorbett
WOGreen
MJPorterfield
FRStater
Doug Zimmerman, NDEP
Brenda Pohlmann, NDEP

ATTACHMENT 1

**Lake Mead Water
Analytical Information**

Perchlorate in Lake Mead Water

Month	Perchlorate (ug/l)
January 1999	11
February	9.3
March	8.5
April	9.3
May	9
June	13
July	10
August	9.8
September	8.8
October	8.4
November	8.1
December 1999	15
January 2000	*
February	9.3
March	9.8
April	11
May	20
June	8.5
July	10
August	7.5
September	8.9
October	7.4
November	28
December 2000	27

* Sample QC outside acceptable range.

ATTACHMENT 2

**UIC Permit
Monitoring**

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Water Elevations

Analytical Information

Flow Rates

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
QUARTERLY GROUNDWATER ELEVATIONS (feet)

Date	M-25		M-38		M-80		M-92A		M-86		M-94		M-96		M-98		M-99		M-100		M-102	
	TOC:	ELEV	TOC:	ELEV	TOC:	ELEV	TOC:	ELEV	TOC:	ELEV	TOC:	ELEV	TOC:	ELEV	TOC:	ELEV	TOC:	ELEV	TOC:	ELEV	TOC:	ELEV
Jan-99	33.30	1726.63	30.90	1728.83	30.90	1715.14	23.20	1717.01	25.20	1719.03	10.00	1685.07	8.40	1685.09	25.80	1706.11	25.68	1705.06	24.08	1706.85	29.90	1710.34
Feb-99	33.35	1726.58	30.94	1728.79	30.50	1715.54	23.00	1717.21	25.00	1719.23	9.87	1685.20	8.29	1685.20	25.80	1706.11	25.65	1705.09	24.14	1706.79	30.00	1710.24
Mar-99	33.40	1726.53	31.00	1728.73	31.95	1714.09	24.29	1715.92	27.00	1717.23	9.80	1688.34	8.29	1685.20	26.22	1705.69	25.98	1704.76	24.57	1706.36	30.75	1709.49
May-99	33.40	1726.53	30.95	1728.78	32.56	1713.48	24.72	1715.49	27.88	1716.35	8.73	1689.41	8.16	1685.33	27.00	1705.51	26.29	1704.45	24.85	1706.08	31.06	1709.18
Aug-99	33.76	1726.17	31.31	1728.42	33.05	1712.99	25.4	1714.81	28.78	1715.45	9.90	1688.24	8.31	1685.18	28.68	1705.19	27.34	1703.5	25.75	1705.18	31.7	1708.54
Nov-99	34	1725.93	34.41	1725.32	31.6	1714.44	25.78	1714.43	29.62	1714.61	10.4	1687.74	8.73	1684.76	29.58	1704.29	27.96	1702.88	26.37	1704.56	32.31	1707.93
Feb-00	33.7	1726.23	31.31	1728.63	33.75	1712.29	25.64	1714.57	30.51	1713.72	10.71	1687.43	9.11	1684.38	30.75	1703.12	28.99	1701.85	27.33	1703.60	33.02	1707.22
May-00	33.53	1724.29	31.30	1726.64	33.60	1712.13	25.53	1712.82	30.80	1711.93	10.18	1687.96	9.20	1684.29	31.24	1700.67	29.57	1701.17	27.86	1703.07	33.51	1706.73
Sept-00	34.11	1723.71	31.91	1726.03	35.07	1710.66	26.05	1712.3	31.9	1710.83	11.43	1686.71	9.53	1683.96	33.03	1698.88	30.32	1700.42	28.25	1702.68	34.37	1705.87
Nov-00	33.95	1723.87	31.40	1726.54	34.80	1710.93	25.90	1712.45	32.03	1710.70	11.60	1686.53	9.70	1783.79	32.37	1684.54	30.50	1700.24	28.27	1702.66	34.59	1705.65

**KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility**

**UIC PERMIT MONITORING WELLS
TOTAL DISSOLVED SOLIDS (mg/l) ANALYSES**

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	6,200	18,700	NA	15,900	18,800	11,800	12,000	11,000
5-3-99	6,430	17,600	11,200	20,200	15,300	13,100	11,800	11,400
8-9-99	4,960	20,000	11,040	13,300	10,900	11,600	11,600	16,900
11-8-99	4,570	15,800	10,700	20,100	19,100	12,200	11,600	7,310
2-2-00	4,280	15,100	6,320	16,600	13,200	11,200	12,000	8,270
5-1-00	4,270	18,00	12,600	18,600	16,00	13,600	12,900	8,620
9-18-00	4,510	14,600	12,500	20,100	13,000	11,800	12,000	7,470
11-13-00	4,460	15,100	10,400	19,800	7,360	9,550	10,200	7,330

NA – Not analyzed, monitoring began in 2nd quarter 1999.

**KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility**

**UIC PERMIT MONITORING WELLS
TOTAL CHROMIUM (mg/l) ANALYSES**

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	17	46	8.8	28	0.07	1.8	1.8	4.8
5-3-99	15	42	10	29	0.05	1.80	1.70	4.9
8-9-99	11	49	1.9	29	0.06	12	1.9	4.8
11-8-99	8.3	43	12	32	0.12	2	1.8	3.9
2-2-00	7.5	45	12	33	0.078	1.8	1.8	3
5-1-00	7.2	49	11	29	0.08	1.8	1.8	4.2
9-18-00	7.8	38	13	35	0.10	2.0	2.0	5.1
11-13-00	12	38	12	35	0.12	2.0	2.0	5.1

**KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility**

**UIC PERMIT MONITORING WELLS
TOTAL PERCHLORATE (mg/l) ANALYSES**

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	250	3,000	1,300	3,000	14,000	1,700	2,000	1,400
5-3-99	115	2300	1,200	2,800	12,600	1,200	1,600	1,300
8-9-99	64	2,100	1,500	2,900	3,800	1,600	2,100	120
11-8-99	71	1,500	1,300	2,900	13,000	1,600	1,600	1,100
2-2-00	62	1,400	1,200	3,000	10,000	1,600	1,700	890
5-1-00	72	160	1,300	3,500	9,900	2,000	2,00	990
9-18-00	77	1,100	1,300	3,300	7,100	1,700	1,600	1,000
11-13-00	63	770	1,200	2,700	8,200	1,600	1,500	850

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT
INJECTION AND EXTRACTION RATES (gpm)

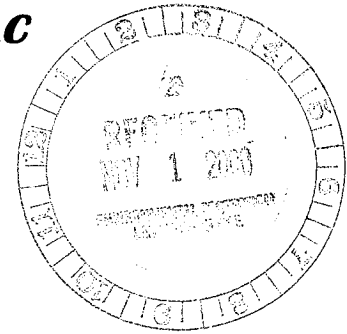
MONTH	EXTRATION RATE	INJECTION RATE
January 1999	59	25
February	54	25
March	45	25
April	51	18
May	42	18
June	24	20
July	27	23
August	29	24
September	26	23
October	26	26
November	26	25
December 1999	26	24
January 2000	34	28
February	34	28
March	34	28
April	34	25
May	35	25
June	34	25
July	27	18
August	27	18
September	27	18
October	29	20
November	29	19
December 2000	28	19



KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 66 - HENDERSON, NEVADA 89009

October 30, 2000



Ms. Jennifer McMartin
State of Nevada
Division of Environmental Protection
Bureau of Water Permits & Compliance
333 W. Nye Lane
Carson City, Nevada 89710

Dear Ms. McMartin:

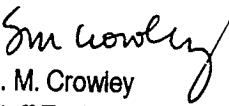
SUBJECT: Discharge Monitoring Report (DMR)
Third Quarter 2000 - NPDES Permit NV 0023060

This report is required by, and prepared specifically for, the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

The attached DMRs (Attachment 1) reflect information associated with the perchlorate remediation efforts, i.e. discharge of treated surface water, ongoing near the Las Vegas Wash. Supporting analytical sheets, including a summary analytical table (Table 1), are included as well (Attachment 2). Please note that analyses of Attachment A analytes, for the treated discharge, indicates that there is no significant increase in "other constituents" due to the IX treatment. This was expected due to the focused nature of IX based perchlorate removal. Listed separately is analytical results for four Las Vegas Wash locations, which require analyses to evaluate the mixing zone (Attachment 3) as well as the upgradient on-site groundwater well (Attachment 3).

Should you have any questions concerning this report, please contact me at (702) 651-2234. Thank you.

Sincerely,


S. M. Crowley
Staff Environmental Specialist

By overnight mail

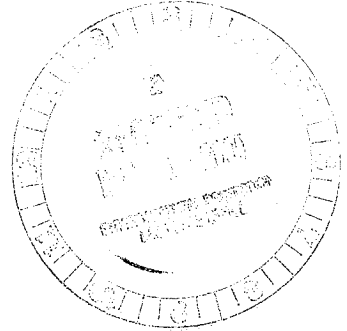
cc: LKBailey
PSCorbett, w/o analytical attachment
WOGreen, w/o analytical attachment
SJMathew, w/o analytical attachment
MJPorterfield, w/o analytical attachment
EMSpore, w/o analytical attachment
FRStater, w/o analytical attachment
Cathe Pool, NDEP
✓ Brenda Pohlmann, NDEP (Las Vegas), w/o analytical attachment
Doug Zimmerman, NDEP, w/o analytical attachment



KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 66 - HENDERSON, NEVADA 89009

October 27, 2000



Ms. Jennifer McMartin
State of Nevada
Division of Environmental Protection
Bureau of Water Permits & Compliance
333 W. Nye Lane
Carson City, Nevada 89710

Dear Ms. McMartin:

SUBJECT: Discharge Monitoring Report (DMR)
Third Quarter 2000 - TNEV 200351

This report is required by, and prepared specifically for, the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

The attached DMRs (Attachment 1) reflect information associated with the perchlorate remediation efforts, ongoing near the Las Vegas Wash. Supporting analytical sheets are included as well (Attachment 2). Please note that analyses of Attachment A analytes, for the treated discharge, indicates that there is no significant increase in "other constituents" due to the IX treatment. This was expected due to the focused nature of IX based perchlorate removal. Listed separately is analytical results for four locations (Attachment 3).

In mid-August 2000, Kerr-McGee received the approved NPDES Permit NV 0023060 covering this same discharge, and so this will be the last TNEV # 200351 DMR submitted. Permit TNEV 200351 is now terminated

Should you have any questions concerning this report, please contact me at (702) 651-2234. Thank you.

Sincerely,

Susan Crowley
Staff Environmental Specialist

By certified mail

cc: LKBailey
PSCorbett, w/o analytical attachment
WOGreen, w/o analytical attachment
SJMathew, w/o analytical attachment
MJPorterfield, w/o analytical attachment
EMSpore, w/o analytical attachment
FRStater, w/o analytical attachment
Catha Pool, NDEP
✓ Brenda Pohmann, NDEP (Las Vegas), w/o analytical attachment
Doug Zimmerman, NDEP, w/o analytical attachment

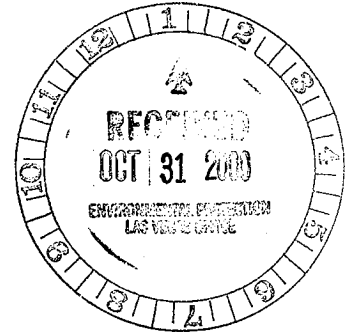


KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 55 - HENDERSON, NEVADA 89009

October 26, 2000

Ms. Valerie King
Nevada Division of Environmental Protection
333 West Nye Lane
Carson City, NV 89706-0851



Dear Ms. King:

Subject: UIC Permit # NEV94218 Permit – Third Quarter 2000

This report is required by, and prepared specifically for, the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

Kerr-McGee Chemical LLC (KMCLLC) maintains an Underground Injection Control (UIC) Permit #NEV94218 for groundwater remediation at its Henderson, Nevada, facility. Pursuant to Section I.A.3, samples of the Lake Mead water injectate were collected and analyzed for July, August and September 2000. Please see Attachment 1 for analytical information. Also, note that the sampling and analytical information gathered on a monthly basis from Lake Mead water does not vary appreciably from month to month. This is expected due to the large capacity of Lake Mead and the fairly consistent inflows. KMCLLC again requests that the frequency of UIC Permit monitoring of the Lake Mead water quality be modified to quarterly.

Section I.A.3 requires quarterly groundwater monitoring. This information is provided in Attachment 2. Section I.A.3 also requires that the injection rate monthly average be less than the extraction rate monthly average. Average flows of Lake Mead water injection and groundwater extraction are listed in Attachment 2.

Please feel free to call me at (702) 651-2234 if you have any questions regarding this request. Thank you.

Sincerely,

Susan M. Crowley
Staff Environmental Specialist

By certified mail
Attachments

cc: PSCorbett
WOGreen
MJPorterfield
FRStater
Doug Zimmerman, NDEP
Brenda Pohlmann, NDEP

ATTACHMENT 2

UIC Permit
Monitoring

-

Water Elevations

Analytical Information

Flow Rates

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
QUARTERLY GROUNDWATER ELEVATIONS (feet)

Date	M-25		M-38		M-80		M-82A		M-86		M-94		M-96		M-98		M-99		M-100		M-102	
	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV
Jan-99	33.30	1726.63	30.90	1728.83	30.90	1715.14	23.20	1717.01	25.20	1719.03	10.00	1685.07	8.40	1685.09	25.80	1706.11	25.68	1705.06	24.08	1706.85	29.90	1710.34
Feb-99	33.35	1726.58	30.94	1728.79	30.50	1715.54	23.00	1717.21	25.00	1719.23	9.87	1685.20	8.29	1685.20	25.80	1706.11	25.65	1705.09	24.14	1706.79	30.00	1710.24
Mar-99	33.40	1726.53	31.00	1728.73	31.95	1714.09	24.29	1715.92	27.00	1717.23	9.80	1688.34	8.29	1685.20	26.22	1705.69	25.98	1704.76	24.57	1706.36	30.75	1709.49
May-99	33.40	1726.53	30.95	1728.78	32.56	1713.48	24.72	1715.49	27.88	1716.35	8.73	1689.41	8.16	1685.33	27.00	1705.51	26.29	1704.45	24.85	1706.08	31.06	1709.18
Aug-99	33.76	1726.17	31.31	1728.42	33.05	1712.99	25.4	1714.81	28.78	1715.45	9.90	1688.24	8.31	1685.18	28.68	1705.19	27.34	1703.5	25.75	1705.18	31.7	1708.54
Nov-99	34	1725.93	34.41	1725.32	31.6	1714.44	25.78	1714.43	29.62	1714.61	10.4	1687.74	8.73	1684.76	29.58	1704.29	27.96	1702.88	26.37	1704.56	32.31	1707.93
Feb-00	33.7	1726.23	31.31	1728.63	33.75	1712.29	25.64	1714.57	30.51	1713.72	10.71	1687.43	9.11	1684.38	30.75	1703.12	28.99	1701.85	27.33	1703.60	33.02	1707.22
May-00	33.53	1724.29	31.30	1726.64	33.60	1712.13	25.53	1712.82	30.80	1711.93	10.18	1687.96	9.20	1684.29	31.24	1700.67	29.57	1701.17	27.86	1703.07	33.51	1706.73
Sept-00	34.11	1723.71	31.91	1726.03	35.07	1710.66	26.05	1712.3	31.9	1710.83	11.43	1686.71	9.53	1683.96	33.03	1698.88	30.32	1700.42	28.25	1702.68	34.37	1705.87

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
TOTAL DISSOLVED SOLIDS (mg/l) ANALYSES

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	6,200	18,700	NA	15,900	18,800	11,800	12,000	11,000
5-3-99	6,430	17,600	11,200	20,200	15,300	13,100	11,800	11,400
8-9-99	4,960	20,000	11,040	13,300	10,900	11,600	11,600	16,900
11-8-99	4,570	15,800	10,700	20,100	19,100	12,200	11,600	7,310
2-2-00	4,280	15,100	6,320	16,600	13,200	11,200	12,000	8,270
5-1-00	4,270	18,00	12,600	18,600	16,00	13,600	12,900	8,620
9-18-00	4,510	14,600	12,500	20,100	13,000	11,800	12,000	7,470

NA – Not analyzed, monitoring began in 2nd quarter 1999.

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
TOTAL CHROMIUM (mg/l) ANALYSES

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	17	46	8.8	28	0.07	1.8	1.8	4.8
5-3-99	15	42	10	29	0.05	1.80	1.70	4.9
8-9-99	11	49	1.9	29	0.06	12	1.9	4.8
11-8-99	8.3	43	12	32	0.12	2	1.8	3.9
2-2-00	7.5	45	12	33	0.078	1.8	1.8	3
5-1-00	7.2	49	11	29	0.08	1.8	1.8	4.2
9-18-00	7.8	38	13	35	0.10	2.0	2.0	5.1

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
TOTAL PERCHLORATE (mg/l) ANALYSES

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	250	3,000	1,300	3,000	14,000	1,700	2,000	1,400
5-3-99	115	2300	1,200	2,800	12,600	1,200	1,600	1,300
8-9-99	64	2,100	1,500	2,900	3,800	1,600	2,100	120
11-8-99	71	1,500	1,300	2,900	13,000	1,600	1,600	1,100
2-2-00	62	1,400	1,200	3,000	10,000	1,600	1,700	890
5-1-00	72	160	1,300	3,500	9,900	2,000	2,00	990
9-18-00	77	1,100	1,300	3,300	7,100	1,700	1,600	1,000

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT
INJECTION AND EXTRACTION RATES (gpm)

MONTH	EXTRATION RATE	INJECTION RATE
January 1999	59	25
February	54	25
March	45	25
April	51	18
May	42	18
June	24	20
July	27	23
August	29	24
September	26	23
October	26	26
November	26	25
December 1999	26	24
January 2000	34	28
February	34	28
March	34	28
April	34	25
May	35	25
June	34	25
July	27	18
August	27	18
September	27	18



KERR-McGEE CHEMICAL LLC
POST OFFICE BOX 66 - HENDERSON, NEVADA 89009

July 27, 2000

Ms. Valerie King
Nevada Division of Environmental Protection
333 West Nye Lane
Carson City, NV 89706-0851



Dear Ms. King:

Subject: UIC Permit # NEV94218 Permit – Second Quarter 2000

This report is required by, and prepared specifically for, the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

Kerr-McGee Chemical LLC (KMCLLC) maintains an Underground Injection Control (UIC) Permit #NEV94218 for groundwater remediation at its Henderson, Nevada, facility. Pursuant to Section I.A.3, samples of the Lake Mead water injectate were collected and analyzed for April, May, and June 2000. Please see Attachment 1 for analytical information. Also, note that the sampling and analytical information gathered on a monthly basis from Lake Mead water does not vary appreciably from month to month. This is expected due to the large capacity of Lake Mead and the fairly consistent inflows. KMCLLC again requests that the frequency of UIC Permit monitoring of the Lake Mead water quality be modified to quarterly.

Section I.A.3 requires quarterly groundwater monitoring. This information is provided in Attachment 2.

Section I.A.3 requires that the injection rate monthly average be less than the extraction rate monthly average. Average flows of Lake Mead water injection and groundwater extraction are listed in Attachment 2.

Please feel free to call Susan Crowley (702) 651-2234 if you have any questions regarding this request. Thank you.

Sincerely,

Susan M. Crowley
Staff Environmental Specialist

By certified mail
Attachments
cc: PSCorbett
WOGreen
MJPorterfield
FRStater
Doug Zimmerman, NDEP
Brenda Pohlmann, NDEP

ATTACHMENT 1

**Lake Mead Water
Analytical Information**

ATTACHMENT 2

UIC Permit
Monitoring

-

Water Elevations

Analytical Information

Flow Rates

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
QUARTERLY GROUNDWATER ELEVATIONS (feet)

Date	M-25		M-38		M-80		M-82A		M-86		M-94		M-96		M-98		M-99		M-100		M-102	
	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV
Jan-99	33.30	1726.63	30.90	1728.63	30.90	1715.14	23.20	1717.01	25.20	1719.03	10.00	1685.07	8.40	1685.09	25.80	1706.11	25.68	1705.06	24.08	1706.85	29.90	1710.34
Feb-99	33.35	1726.58	30.94	1728.79	30.50	1715.54	23.00	1717.21	25.00	1719.23	9.87	1685.20	8.29	1685.20	25.80	1706.11	25.65	1705.09	24.14	1706.79	30.00	1710.24
Mar-99	33.40	1726.53	31.00	1728.73	31.95	1714.09	24.29	1715.92	27.00	1717.23	9.80	1688.34	8.29	1685.20	26.22	1705.69	25.98	1704.76	24.57	1706.36	30.75	1709.49
May-99	33.40	1726.53	30.95	1728.78	32.56	1713.48	24.72	1715.49	27.88	1716.35	8.73	1689.41	8.16	1685.33	27.00	1705.51	26.29	1704.45	24.85	1706.08	31.06	1709.18
Aug-99	33.76	1726.17	31.31	1728.42	33.05	1712.99	25.4	1714.81	28.78	1715.45	9.90	1688.24	8.31	1685.18	28.68	1705.19	27.34	1703.5	25.75	1705.18	31.7	1708.54
Nov-99	34	1725.93	34.41	1725.32	31.6	1714.44	25.78	1714.43	29.62	1714.61	10.4	1687.74	8.73	1684.76	29.58	1704.29	27.96	1702.88	26.37	1704.56	32.31	1707.93
Feb-00	33.7	1726.23	31.31	1728.63	33.75	1712.29	25.64	1714.57	30.51	1713.72	10.71	1687.43	9.11	1684.38	30.75	1703.12	28.99	1701.85	27.33	1703.60	33.02	1707.22
May-00	33.53	1724.29	31.30	1726.64	33.60	1712.13	25.53	1712.82	30.80	1711.93	10.18	1687.96	9.20	1684.29	31.24	1700.67	29.57	1701.17	27.86	1703.07	33.51	1706.73

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
TOTAL DISSOLVED SOLIDS (mg/l) ANALYSES

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	6,200	18,700	NA	15,900	18,800	11,800	12,000	11,000
5-3-99	6,430	17,600	11,200	20,200	15,300	13,100	11,800	11,400
8-9-99	4,960	20,000	11,040	13,300	10,900	11,600	11,600	16,900
11-8-99	4,570	15,800	10,700	20,100	19,100	12,200	11,600	7,310
2-2-00	4,280	15,100	6,320	16,600	13,200	11,200	12,000	8,270
5-1-00	4,270	18,00	12,600	18,600	16,00	13,600	12,900	8,620

NA – Not analyzed, monitoring began in 2nd quarter 1999.

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
TOTAL PERCHLORATE (mg/l) ANALYSES

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	250	3,000	1,300	3,000	14,000	1,700	2,000	1,400
5-3-99	115	2300	1,200	2,800	12,600	1,200	1,600	1,300
8-9-99	64	2,100	1,500	2,900	3,800	1,600	2,100	120
11-8-99	71	1,500	1,300	2,900	13,000	1,600	1,600	1,100
2-2-00	62	1,400	1,200	3,000	10,000	1,600	1,700	890
5-1-00	72	160	1,300	3,500	9,900	2,000	2,00	990

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT
INJECTION AND EXTRACTION RATES (gpm)

MONTH	EXTRATION RATE	INJECTION RATE
January 1999	59	25
February	54	25
March	45	25
April	51	18
May	42	18
June	24	20
July	27	23
August	29	24
September	26	23
October	26	26
November	26	25
December 1999	26	24
January 2000	34	28
February	34	28
March	34	28
April	34	25
May	35	25
June	34	25



KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 66 - HENDERSON, NEVADA 89009

July 27, 2000



Ms. Shannon Bell
State of Nevada
Division of Environmental Protection
Bureau of Water Permits & Compliance
333 W. Nye Lane
Carson City, Nevada 89710

Dear Ms. Bell:

SUBJECT: Discharge Monitoring Report (DMR)
Second Quarter 2000 - TNEV 99106

This report is required by, and prepared specifically for, the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

The attached DMRs (Attachment 1) reflect information associated with the perchlorate remediation efforts, ongoing near the Las Vegas Wash. Supporting analytical sheets are included as well (Attachment 2). Listed separately is the analytical for the four locations which require "Attachment A" analyses (Attachment 3).

Please note that some perchlorate analytical information is pending receipt of results from the perchlorate certified lab, Montgomery & Watson. While these results have not been received yet, process samples taken and analyzed utilizing the ion selective electrode has shown the process to be running within permitted levels. The pending results will be forwarded as they are received.

Should you have any questions concerning this report, please contact Susan M. Crowley at (702) 651-2234. Thank you.

Sincerely,

F.R. Stater
Plant Manager

By certified mail

cc: LKBailey
PSCorbett, w/o analytical attachment
SMCrowley
WOGreen, w/o analytical attachment
SJMather, w/o analytical attachment
MJPorlerfield, w/o analytical attachment
EMSpore, w/o analytical attachment
Cathie Pool, NDEP
Brenda Pohlmann, NDEP (Las Vegas), w/o analytical attachment
Doug Zimmerman, NDEP, w/o analytical attachment

ATTACHMENT 1

Discharge Monitoring Reports (DMR)

PERMITTEE NAME/ADDRESS: KERR-McGEE CHEMICAL CORP.
 NAME: KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION: HENDERSON, NV
 Attn: SUSAN M. CROWLEY

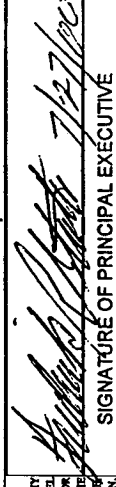
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 TNEV 99106
 PERMIT NUMBER

001
 DISCHARGE NUMBER

MONITORING PERIOD

FROM 99 | 11 | 11 TO 99 | 11 | 30 NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)			
Flow	0.443	0.512	MGD			0	Cont	Flow Meter
Gross Effluent Value	1MGD Maximum	Monitor and Reort						
BOD ₅				ND	ND	0	Weekly	Discr
Influent Gross Value				25 mg/l Maximum	45 mg/l Maximum			
BOD ₅				ND	ND	0	Weekly	Discrete
Effluent Gross Value				25 mg/l Maximum	45 mg/l Maximum			
Perchlorate				59	59	0	Weekly	Discrete
Influent Gross Value					Monitor & Report			
Perchlorate				0.021	0.021	0	Weekly	Discrete
Effluent Gross Value				3 mg/l or 97% removal (whichever is greater)				
pH				8.82	8.75	0	Weekly	Discr
Effluent Gross Value				Max Between 6.5 and 9 standard units				
Dissolved Oxygen				9.9	10.1	0	Weekly	Discrete
Effluent Gross Value				Monitor & Report				
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE			DATE		
Fredrick R. Stater			702-651-2200					
PLANT MANAGER			AREA CODE NUMBER			YEAR MO DAY		
TYPED OR PRINTED			702-651-2200					
COMMENT AND EXPLANATION OF ANY VIOLATIONS			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					
			 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

Sign's date at
 same location on
 each sheet.

NOT BE PREPARED UNDER ANY
 BY THAT QUALIFIED PERSONNEL
 INQUIRY OF THE PERSON OR
 RESPONSIBLE FOR GATHERING THE
 AND BELIEF, TRUE, ACCURATE,
 OMITTING FALSE INFORMATION.

(Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

002 STORMWATER MONITORING

PERMITTEE NAME/ADDRESS:
 NAME: KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

PERMIT NUMBER
 TNEV 99106

DISCHARGE NUMBER
 001

F - FINAL

FACILITY: KERR-McGEE CHEMICAL CORP.

LOCATION:


Attn: PATRICK S. CORBETT Susan Crowley

MONITORING PERIOD

FROM 99 | 11 | 11 TO 99 | 11 | 30

MAJOR NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)				UNIT
Total Phosphorus, as P	---	---		0.033	0.036	0.10	0	Weekly	Discrete	
Influent Gross Value	---	---		Monitor and Reort	Monitor and Reort	20 lb/d				
Total Phosphorus, as P	---	---		0.10	0.11	0.33	0	Weekly	Discr	
Effluent Gross Value	---	---		Monitor and Reort	Monitor and Reort	20 lb/d				
Total Inorganic Nitrogen, as N	---	---		5.7	5.7	---	0	Weekly	Discrete	
Influent Gross Value	---	---		Monitor and Reort	Monitor and Reort	---				
Total Inorganic Nitrogen, as N	---	---		1.6	1.6	---	0	Weekly	Discrete	
Effluent Gross Value	---	---		Monitor and Reort	Monitor and Reort	---				
Nitrate, as N	---	---		0.8	1.5	---	0	Weekly	Discrete	
Effluent Gross Value	---	---		Monitor and Reort	Monitor and Reort	---				
Ammonia, as N	---	---		ND	ND	NO	0	Weekly	Discr	
Effluent Gross Value	---	---		Monitor and Reort	Monitor and Reort	40 lb/d				
Total Suspended Solids	---	---		ND	ND	---	0	Weekly	Discrete	
Effluent Gross Value	---	---		135 mg/l						
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER				SIGNATURE OF PRINCIPAL EXECUTIVE			OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE
Fredrick R. Stater									702-651-2200	
Plant Manager				SIGNATURE OF PRINCIPAL EXECUTIVE			OFFICER OR AUTHORIZED AGENT		AREA CODE NUMBER	YEAR MO DAY
TYPED OR PRINTED									702-651-2200	

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESCRIBED TO AND MY KNOWLEDGE OF THE PERSON OR PERSONS WHO PREPARED AND SUBMITTED THE INFORMATION IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SEVERAL PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.


(Reference all attachments here)

COMMENT AND EXPLANATION OF ANY VIOLATIONS

PERMITTEE NAME/ADDRESS: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 NAME: KERR-MCGEE CHEMICAL CORP. DISCHARGE MONITORING REPORT (DMR)
 ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000
 TNEV 99106 PERMIT NUMBER 001 DISCHARGE NUMBER
 002 STORMWATER MONITORING
 F - FINAL

FACILITY: KERR-MCGEE CHEMICAL CORP. MAJOR NO DISCHARGE
 LOCATION: FROM 99 | 11 | 11 TO 99 | 11 | 30
 Attn: PATRICKS-CORBET SUSAN CROWLEY MONITORING PERIOD

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQ. OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)			
Total Dissolved Solids	SAMPLE MEASUREMENT	-----		6185	6670	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report				
Influent Gross Value	SAMPLE MEASUREMENT	-----		5600	5650	0	Weekly	Disc
	PERMIT REQUIREMENT	-----		Monitor & Report				
Fecal Coliform	SAMPLE MEASUREMENT	-----		N/A	N/A	0	Monthly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report				
Attachment A Influent Gross Value	SAMPLE MEASUREMENT	-----		See Attached Results Table		0	Quarter	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report				
Attachment A Effluent Gross Value	SAMPLE MEASUREMENT	-----		See Attached Results Table		0	Quarter	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report				
Attachment A Wash Upgradient	SAMPLE MEASUREMENT	-----		See Attached Results Table		0	Quarter	Disc
	PERMIT REQUIREMENT	-----		Monitor & Report				
Attachment A Wash Downgradient	SAMPLE MEASUREMENT	-----		See Attached Results Table		0	Quarter	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report				
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER			SIGNATURE OF PRINCIPAL EXECUTIVE			TELEPHONE	DATE	
Fredrick R, Stater						702-651-2200		
TYPED OR PRINTED			OFFICER OR AUTHORIZED AGENT			AREA CODE NUMBER	YEAR MO DAY	
						702-651-2200		

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGED THE SYSTEM, OR THOSE PERSONS WHO MANAGED THE SYSTEM AND THE PERSONS WHO MANAGED THE SYSTEM, I AM NOT AWARE OF ANY FALSE INFORMATION OR MISSTATEMENTS OF FACTS OR OMISSIONS OF FACTS THAT WOULD MATERIALLY AFFECT THE ACCURACY OF THIS REPORT. I AM NOT AWARE OF ANY VIOLATIONS OF THE PERMIT CONDITIONS OR ANY OTHER FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, ORDINANCES, OR DECISIONS THAT WOULD MATERIALLY AFFECT THE ACCURACY OF THIS REPORT. I AM NOT AWARE OF ANY VIOLATIONS OF THE PERMIT CONDITIONS OR ANY OTHER FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, ORDINANCES, OR DECISIONS THAT WOULD MATERIALLY AFFECT THE ACCURACY OF THIS REPORT.

(Reference all attachments here)

00044/961223-1801

FORMS BY WINDOWCHEM(707)854-0845;pm11090v5.01/4/98

PAGE 3 OF 3

PERMITTEE NAME/ADDRESS: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 NAME: KERR-MCGEE CHEMICAL CORP. DISCHARGE MONITORING REPORT (DMR)
 ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000

PERMIT NUMBER: TNEV 99106
 DISCHARGE NUMBER: 001

Stormwater Runoff from Building to Detention Basin

FACILITY: APEX Kerr-McGee Chemical
 LOCATION: APEX, NV Henderson NV
 Attn: PATRICKS-GORBETT Susan Crowley

MONITORING PERIOD
 FROM 99 | 11 | 11 TO 99 | 11 | 30

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Unionized Ammonia, as N	SAMPLE MEASUREMENT	-----		ND	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report	Monitor & Report	Monitor & Report			
Influent Gross Value	SAMPLE MEASUREMENT	-----		ND	ND	ND	0	Weekly	Discr
	PERMIT REQUIREMENT	-----		Monitor & Report	Monitor & Report	Monitor & Report			
Effluent Gross Value	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE			DATE			
Fredrick R. Stater									
PLANT MANAGER			702-651-2200			AREA CODE NUMBER			
TYPED OR PRINTED			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			YEAR MO DAY			
COMMENT AND EXPLANATION OF ANY VIOLATIONS			OFFICER OR AUTHORIZED AGENT			Form by WindowChem(707)864-0845;pm11090v5.01;4/1/98			

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION: HENDERSON, NV
 Attn: SUSAN M. CROWLEY

MONITORING PERIOD
 FROM 99 12 01 TO 99 12 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)			
Flow	SAMPLE MEASUREMENT	0.472	MGD	0.5	2	0	Cont	Flow Meter
	PERMIT REQUIREMENT	1MGD Maximum						
BOD ₅	SAMPLE MEASUREMENT			0.5	2	0	Weekly	Discrete
	PERMIT REQUIREMENT							
BOD ₅	SAMPLE MEASUREMENT			0.5	2	0	Weekly	Discrete
	PERMIT REQUIREMENT							
Perchlorate	SAMPLE MEASUREMENT			59.8	63.0	0	Weekly	Discrete
	PERMIT REQUIREMENT							
Perchlorate	SAMPLE MEASUREMENT			0.50	0.58	0	Weekly	Discrete
	PERMIT REQUIREMENT							
pH	SAMPLE MEASUREMENT			8.81	7.5	0	Weekly	Discrete
	PERMIT REQUIREMENT							
Dissolved Oxygen	SAMPLE MEASUREMENT			8.4	10.7	0	Weekly	Discrete
	PERMIT REQUIREMENT							
Effluent Gross Value	SAMPLE MEASUREMENT							
	PERMIT REQUIREMENT							

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER
 Fredrick R. Stater

PLANT MANAGER
 TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
[Signature]

TELEPHONE

DATE

702-651-2200

AREA CODE NUMBER

YEAR MO DAY

PERMITTEE NAME/ADDRESS: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 NAME: KERR-MCGEE CHEMICAL CORP. DISCHARGE MONITORING REPORT (DMR)
 ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000

001 DISCHARGE NUMBER
 002 STORMWATER MONITORING
 F - FINAL
 MAJOR NO DISCHARGE
 MONITORING PERIOD FROM 99 | 12 | 01 TO 99 | 12 | 31

001 TNEV 99106 PERMIT NUMBER
 002 STORMWATER MONITORING DISCHARGE NUMBER

001 DISCHARGE NUMBER
 002 STORMWATER MONITORING

MONITORING PERIOD FROM 99 | 12 | 01 TO 99 | 12 | 31

FACILITY: KERR-MCGEE CHEMICAL CORP.
 LOCATION:
 Attn: PATRICK S. CORBETT - SUSAN CROWLEY

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Phosphorus, as P	SAMPLE MEASUREMENT	---	---	0.0375	0.038	0.10	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	20 lb/d			
Influent Gross Value	SAMPLE MEASUREMENT	---	---	0.05	0.11	0.20	0	Weekly	Discr
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	20 lb/d			
Total Inorganic Nitrogen, as N	SAMPLE MEASUREMENT	---	---	5.1	5.6	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Total Inorganic Nitrogen, as N	SAMPLE MEASUREMENT	---	---	4.4	5.8	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Nitrate, as N	SAMPLE MEASUREMENT	---	---	4.6	6.3	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Ammonia, as N	SAMPLE MEASUREMENT	---	---	ND	ND	ND	0	Weekly	Discr
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	40 lb/d			
Total Suspended Solids	SAMPLE MEASUREMENT	---	---	ND	ND	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Effluent Gross Value	SAMPLE MEASUREMENT	---	---	135 mg/l	135 mg/l	---			
	PERMIT REQUIREMENT	---	---	---	---	---			
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER: Fredrick R. Stater Plant Manager TYPED OR PRINTED									
CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.									
SIGNATURE OF PRINCIPAL EXECUTIVE								OFFICER OR AUTHORIZED AGENT	
TELEPHONE								DATE	
702-651-2200								AREA CODE NUMBER	
702-651-2200								YEAR MO DAY	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

000441961223-1801

PAGE 2 OF 3

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS:
 NAME: KERR-MCGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

DISCHARGE MONITORING REPORT (DMR)
 TNEV 99106
 PERMIT NUMBER

001
 DISCHARGE NUMBER

002 STORMWATER MONITORING
 F - FINAL

FACILITY: KERR-MCGEE CHEMICAL CORP.

LOCATION:

Attn: PATRICK S. CORBETT Susan Crowley

MONITORING PERIOD
 FROM 99 | 12 | 01 TO 99 | 12 | 31

MAJOR
 NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Dissolved Solids	---	---		578	590	---	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor & Report					
Total Dissolved Solids	---	---		518	540	---	0	Weekly	Discr
Effluent Gross Value	---	---		Monitor & Report					
Fecal Coliform	---	---		42	42	---	0	Monthly	Discrete
Effluent Gross Value	---	---		Monitor & Report					
Attachment A	---	---		See Attached Results Table			0	Quarterl	Discrete
Influent Gross Value	---	---		Monitor & Report					
Attachment A	---	---		See Attached Results Table			0	Quarterl	Discrete
Effluent Gross Value	---	---		Monitor & Report					
Attachment A	---	---		See Attached Results Table			0	Quarterl	Discr
Wash Upgradient	---	---		Monitor & Report					
Attachment A	---	---		See Attached Results Table			0	Quarterl	Discrete
Wash Downgradient	---	---		Monitor & Report					

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER
 Fredrick R, Stater
 Plant Manager
 TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE
 OFFICER OR AUTHORIZED AGENT

TELEPHONE
 DATE
 AREA CODE NUMBER
 702-651-2200
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

Forms by WinkowChem(707)884-0845;pm11090;v.01/4/98

PERMITTEE NAME/ADDRESS: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 NAME: KERR-McGEE CHEMICAL CORP. DISCHARGE MONITORING REPORT (DMR)
 ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000


TNEV 99106 PERMIT NUMBER
 DISCHARGE NUMBER 001

Stormwater Runoff from Building to Detention Basin

FACILITY: APEX Kerr-McGee Chemical
 LOCATION: APEX, NV Henderson NV
 Attn: PATRICK S. GORBETT SUSAN CROWLEY

MONITORING PERIOD
 FROM 99 12 01 TO 99 12 31

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb./day)			
Unionized Ammonia, as N	SAMPLE MEASUREMENT	---		ND	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	---		Monitor & Report	Monitor & Report	Monitor & Report			
Influent Gross Value	SAMPLE MEASUREMENT	---		ND	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	---		Monitor & Report	Monitor & Report	Monitor & Report			
Effluent Gross Value	SAMPLE MEASUREMENT	---		---	---	---			
	PERMIT REQUIREMENT	---		Monitor & Report	Monitor & Report	Monitor & Report			
	SAMPLE MEASUREMENT	---		---	---	---			
	PERMIT REQUIREMENT	---							
	SAMPLE MEASUREMENT	---		---	---	---			
	PERMIT REQUIREMENT	---							
	SAMPLE MEASUREMENT	---		---	---	---			
	PERMIT REQUIREMENT	---							
	SAMPLE MEASUREMENT	---		---	---	---			
	PERMIT REQUIREMENT	---							
	SAMPLE MEASUREMENT	---		---	---	---			
	PERMIT REQUIREMENT	---							
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER				TELEPHONE			DATE		
Fredrick R. Stater									
PLANT MANAGER				702-651-2200					
TYPED OR PRINTED				AREA CODE NUMBER			YEAR MO DAY		
COMMENT AND EXPLANATION OF ANY VIOLATIONS				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			FORMS BY WINDOWCHEM(707)954-0845;PH11090;V5.01/4795		
				 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

(Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: TNEV 99106
 DISCHARGE NUMBER: 001

PERMITTEE NAME/ADDRESS:
 KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

MONITORING PERIOD

FROM: 00 | 01 | 01 TO: 00 | 01 | 31

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION: HENDERSON, NV
 Attn: SUSAN M. CROWLEY

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Flow	SAMPLE MEASUREMENT	0.467	MGD				0	Cont	Flow Meter
	PERMIT REQUIREMENT	1MGD Maximum							
Gross Effluent Value	SAMPLE MEASUREMENT	0.467					0	Weekly	Discrete
	PERMIT REQUIREMENT	Monitor and Reort							
BOD ₅	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
Influent Gross Value	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
BOD ₅	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
Effluent Gross Value	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
Perchlorate	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
Influent Gross Value	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
Perchlorate	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
Effluent Gross Value	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
pH	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
Effluent Gross Value	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
Dissolved Oxygen	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
Effluent Gross Value	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				TELEPHONE	DATE	
Fredrick R. Stater									
PLANT MANAGER			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				702-651-2200		
TYPED OR PRINTED			OFFICER OR AUTHORIZED AGENT				AREA CODE NUMBER	YEAR MO DAY	

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

(Reference all attachments here)

PERMITTEE NAME/ADDRESS: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 NAME: KERR-MCGEE CHEMICAL CORP. DISCHARGE MONITORING REPORT (DMR)
 ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000
 TNEV 99106 PERMIT NUMBER
 001 DISCHARGE NUMBER
 002 STORMWATER MONITORING
 F - FINAL
 MAJOR NO DISCHARGE

FACILITY: KERR-MCGEE CHEMICAL CORP.
 LOCATION: MONITORING PERIOD FROM 00 | 01 | 01 TO 00 | 01 | 31
 Attn: PATRICK S. CORBETT SUSAN CROWLEY
 NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Phosphorus, as P	SAMPLE MEASUREMENT	---	---	0.0218	0.048	0.11	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	20 lb/d			
Influent Gross Value	SAMPLE MEASUREMENT	---	---	0.0552	0.18	0.22	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	20 lb/d			
Total Inorganic Nitrogen, as N	SAMPLE MEASUREMENT	---	---	5.0	5.5	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Influent Gross Value	SAMPLE MEASUREMENT	---	---	5.2	5.5	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Total Inorganic Nitrogen, as N	SAMPLE MEASUREMENT	---	---	4.4	6.4	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Nitrate, as N	SAMPLE MEASUREMENT	---	---	ND	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	40 lb/d			
Effluent Gross Value	SAMPLE MEASUREMENT	---	---	ND	ND	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Ammonia, as N	SAMPLE MEASUREMENT	---	---	ND	ND	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Total Suspended Solids	SAMPLE MEASUREMENT	---	---	ND	ND	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	135 mg/l	135 mg/l	---			
Effluent Gross Value	SAMPLE MEASUREMENT	---	---	---	---	---			
	PERMIT REQUIREMENT	---	---	---	---	---			
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER				SIGNATURE OF PRINCIPAL EXECUTIVE				TELEPHONE	DATE
Fredrick R. Stater				<i>[Signature]</i>				702-651-2200	
Plant Manager				OFFICER OR AUTHORIZED AGENT				AREA CODE NUMBER	YEAR MO DAY
TYPED OR PRINTED									

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE FACILITY, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THESE ARE SEVERE PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPROBATION FOR VIOLATIONS.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

00044/961223-1801
 PAGE 2 OF 3

PERMITTEE NAME/ADDRESS: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 NAME: KERR-MCGEE CHEMICAL CORP. DISCHARGE MONITORING REPORT (DMR)
 ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000

FACILITY: KERR-MCGEE CHEMICAL CORP. MAJOR
 LOCATION: NO DISCHARGE
 Attn: PATRICKS-GORBETT SUSAN CROSLLEY

001 DISCHARGE NUMBER
 002 STORMWATER MONITORING
 F - FINAL
 MONITORING PERIOD
 FROM 00 | 01 | 01 TO 00 | 01 | 31

PARAMETER	QUANTITY OR LOADING				QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)	UNIT			
Total Dissolved Solids	SAMPLE MEASUREMENT	-----	-----	5522	5580	-----	mg/l	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						
Influent Gross Value	SAMPLE MEASUREMENT	-----	-----	5212	5390	-----	mg/l	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						
Total Dissolved Solids	SAMPLE MEASUREMENT	-----	-----	2	2	-----	MPN	0	Monthly	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						
Effluent Gross Value	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table				0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						
Attachment A	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table				0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						
Influent Gross Value	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table				0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						
Attachment A	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table				0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						
Effluent Gross Value	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table				0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						
Wash Upgradient	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table				0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						
Attachment A	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table				0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						
Wash Downgradient	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table				0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report						

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER
 Fredrick R, Stater
 Plant Manager
 TYPED OR PRINTED

TELEPHONE: 702-651-2200
 AREA CODE NUMBER: 702-651-2200
 YEAR: MO: DAY: / /

DATE: / /

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 OFFICER OR AUTHORIZED AGENT

FORMS BY WINDOWCHEM (707)864-0845.ppt 109015.01/4/1990

COMMENT AND EXPLANATION OF ANY VIOLATIONS
 (Reference all attachments here)

FACILITY: APEX Kerr-McGee Chemical
 LOCATION: APEX, NV
 Attn: PATRICK S. GORBETT SUSAN McGrawley
 HENDERSON, NV 89009-7000

MONITORING PERIOD
 FROM 00 | 01 | 01 TO 00 | 01 | 31

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)				UNIT
Unionized Ammonia, as N	SAMPLE MEASUREMENT	---		ND	ND	ND	0	Weekly	Discrete	
	PERMIT REQUIREMENT	---		Monitor & Report	Monitor & Report	Monitor & Report				
Influent Gross Value	SAMPLE MEASUREMENT	---		ND	ND	ND	0	Weekly	Discrete	
	PERMIT REQUIREMENT	---		Monitor & Report	Monitor & Report	Monitor & Report				
Unionized Ammonia, as N	SAMPLE MEASUREMENT	---								
	PERMIT REQUIREMENT	---								
Effluent Gross Value	SAMPLE MEASUREMENT	---								
	PERMIT REQUIREMENT	---								
	SAMPLE MEASUREMENT	---								
	PERMIT REQUIREMENT	---								
	SAMPLE MEASUREMENT	---								
	PERMIT REQUIREMENT	---								
	SAMPLE MEASUREMENT	---								
	PERMIT REQUIREMENT	---								
	SAMPLE MEASUREMENT	---								
	PERMIT REQUIREMENT	---								
	SAMPLE MEASUREMENT	---								
	PERMIT REQUIREMENT	---								
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER		SIGNATURE OF PRINCIPAL EXECUTIVE						TELEPHONE		DATE
Fredrick R. Stater								702-651-2200		
PLANT MANAGER		OFFICER OR AUTHORIZED AGENT						AREA CODE NUMBER		YEAR MO DAY
TYPED OR PRINTED								702-651-2200		
COMMENT AND EXPLANATION OF ANY VIOLATIONS										
(Reference all attachments here)										

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION: HENDERSON, NV
 Attn: SUSAN M. CROWLEY

PERMIT NUMBER: TNEV 99106
 DISCHARGE NUMBER: 001

MONITORING PERIOD
 FROM 00 | 02 | 01 TO 00 | 02 | 28 NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)				30 Day Ave (lb/day)
Flow	SAMPLE MEASUREMENT	0.470	MGD			0	Cont	Flow Meter	
	PERMIT REQUIREMENT	1MGD Maximum							
Gross Effluent Value	SAMPLE MEASUREMENT			7.2		0	Weekly	Discrete	
	PERMIT REQUIREMENT	Monitor and Reort		45 mg/l Maximum					
BOD ₅	SAMPLE MEASUREMENT			7.2		0	Weekly	Discrete	
	PERMIT REQUIREMENT			25 mg/l Maximum					
Influent Gross Value	SAMPLE MEASUREMENT			67.3		0	Weekly	Discrete	
	PERMIT REQUIREMENT			45 mg/l Maximum					
Perchlorate	SAMPLE MEASUREMENT			0.99		0	Weekly	Discrete	
	PERMIT REQUIREMENT			3 mg/l or 97% removal (whichever is greater)					
Influent Gross Value	SAMPLE MEASUREMENT			8.3		0	Weekly	Discrete	
	PERMIT REQUIREMENT			Between 6.5 and 9 standard units					
pH	SAMPLE MEASUREMENT			7.3		0	Weekly	Discrete	
	PERMIT REQUIREMENT			Monitor & Report					
Effluent Gross Value	SAMPLE MEASUREMENT			7.5		0	Weekly	Discrete	
	PERMIT REQUIREMENT			Between 6.5 and 9 standard units					
Dissolved Oxygen	SAMPLE MEASUREMENT			8.1		0	Weekly	Discrete	
	PERMIT REQUIREMENT			Monitor & Report					
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER			SIGNATURE OF PRINCIPAL EXECUTIVE			TELEPHONE		DATE	
Fredrick R. Stater						702-651-2200			
PLANT MANAGER			OFFICER OR AUTHORIZED AGENT			AREA CODE NUMBER		YEAR MO DAY	
TYPED OR PRINTED						702-651-2200			

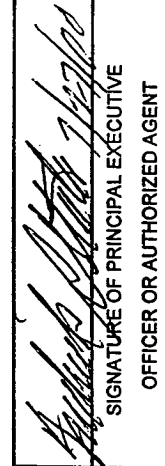
PERMITTEE NAME/ADDRESS: NAME: KERR-MCGEE CHEMICAL CORP. ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000

FACILITY: KERR-MCGEE CHEMICAL CORP. LOCATION: Attn: PATRICK S. GORBETT SUSAN M. GOSLEY

001 DISCHARGE NUMBER
 002 STORMWATER MONITORING
 F - FINAL
 MAJOR NO DISCHARGE

MONITORING PERIOD FROM 00 | 02 | 01 TO 00 | 02 | 28

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Phosphorus, as P	SAMPLE MEASUREMENT	---	---	0.039	0.05	0.16	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	20 lb/d			
Total Phosphorus, as P	SAMPLE MEASUREMENT	---	---	0.033	0.04	0.13	0	Weekly	Discr
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	20 lb/d			
Total Inorganic Nitrogen, as N	SAMPLE MEASUREMENT	---	---	5.0	5.3	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Total Inorganic Nitrogen, as N	SAMPLE MEASUREMENT	---	---	5.1	5.3	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Nitrate, as N	SAMPLE MEASUREMENT	---	---	5.1	5.3	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Ammonia, as N	SAMPLE MEASUREMENT	---	---	ND	ND	ND	0	Weekly	Discr
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	40 lb/d			
Total Suspended Solids	SAMPLE MEASUREMENT	---	---	ND	ND	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	135 mg/l	135 mg/l	---			
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER Fredrick R. Stater Plant Manager TYPED OR PRINTED									
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THE INFORMATION, THE SAME IS TRUE AND CORRECT AND THAT I AM NOT PROVIDING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.									
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  OFFICER OR AUTHORIZED AGENT									
TELEPHONE							DATE		
702-651-2200							AREA CODE NUMBER		
							YEAR MO DAY		

FACILITY: KERR-McGEE CHEMICAL CORP. MAJOR NO DISCHARGE
 LOCATION: FROM 00 | 02 | 01 TO 00 | 02 | 28

Attn: PATRICK S. GORBETT SUSAN Crossley

PERMIT NUMBER: TNEV 99106 DISCHARGE NUMBER: 001

MONITORING PERIOD: 002 STORMWATER MONITORING F - FINAL

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Dissolved Solids	SAMPLE MEASUREMENT	-----		5443	5570	-----	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Influent Gross Value	SAMPLE MEASUREMENT	-----		5340	5400	-----	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Total Dissolved Solids	SAMPLE MEASUREMENT	-----		2	2	-----	0	Monthly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Fecal Coliform	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Effluent Gross Value	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Attachment A	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Influent Gross Value	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Attachment A	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Effluent Gross Value	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Wash Upgradient	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Attachment A	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Wash Downgradient	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER: Fredrick R, Stater
 SIGNATURE OF PRINCIPAL EXECUTIVE: [Signature]
 OFFICER OR AUTHORIZED AGENT: [Signature]
 TELEPHONE: 702-651-2200
 AREA CODE NUMBER: 702-651-2200
 YEAR: MO: DAY: [] [] []

PERMITTEE NAME/ADDRESS: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 NAME: KERR-McGEE CHEMICAL CORP. DISCHARGE MONITORING REPORT (DMR)
 ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000

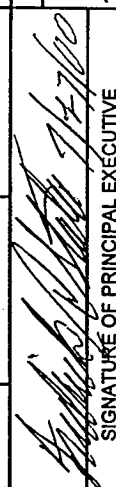
PERMIT NUMBER: TNEV 99106
 DISCHARGE NUMBER: 001

Stormwater Runoff from Building to Detention Basin

FACILITY: APEX Kerr-McGee Chemical
 LOCATION: APEX, NV Henderson
 Attn: PATRICK S. CORBETT Susan M. Conroy

MONITORING PERIOD
 FROM 00 | 02 | 01 TO 00 | 02 | 28

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Unionized Ammonia, as N	SAMPLE MEASUREMENT	-----		ND	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report	Monitor & Report	Monitor & Report			
Influent Gross Value									
Unionized Ammonia, as N	SAMPLE MEASUREMENT	-----		ND	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report	Monitor & Report	Monitor & Report			
Effluent Gross Value									
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
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	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER Fredrick R. Stater PLANT MANAGER TYPED OR PRINTED									
TELEPHONE: 702-651-2200 AREA CODE NUMBER: 702-651-2200 YEAR: MO: DAY:									
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 									
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)									

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS:
 KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

PERMIT NUMBER
 TNEV 99106


DISCHARGE NUMBER
 001

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION: HENDERSON, NV
 Attn: SUSAN M. CROWLEY

MONITORING PERIOD

FROM 00 | 03 | 01 TO 00 | 03 | 31 NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)				UNIT
Flow	SAMPLE MEASUREMENT	0.468	MGD	-----	-----	-----	0	Cont	Flow Meter	
	PERMIT REQUIREMENT	1MGD Maximum	Monitor and Reort	-----	-----	-----				
Gross Effluent Value	SAMPLE MEASUREMENT	-----		4.2	4.2	-----	0	Weekly	Discrete	
	PERMIT REQUIREMENT	-----		25 mg/l Maximum	45 mg/l Maximum	-----				
Influent Gross Value	SAMPLE MEASUREMENT	-----		4.2	4.2	-----	0	Weekly	Discrete	
	PERMIT REQUIREMENT	-----		25 mg/l Maximum	45 mg/l Maximum	-----				
BOD ₅	SAMPLE MEASUREMENT	-----		72.8	76	-----	0	Weekly	Discrete	
	PERMIT REQUIREMENT	-----		-----	-----	-----				
Perchlorate	SAMPLE MEASUREMENT	-----		0.61	1.0	-----	0	Weekly	Discrete	
	PERMIT REQUIREMENT	-----		-----	-----	-----				
Effluent Gross Value	SAMPLE MEASUREMENT	-----		3 mg/l or 97% removal (whichever is greater)			0	Weekly	Discrete	
	PERMIT REQUIREMENT	-----		-----	-----	-----				
pH	SAMPLE MEASUREMENT	-----		7.69	7.48	-----	0	Weekly	Discrete	
	PERMIT REQUIREMENT	-----		Between 6.5 and 9 standard units						
Dissolved Oxygen	SAMPLE MEASUREMENT	-----		7.3	8	-----	0	Weekly	Discrete	
	PERMIT REQUIREMENT	-----		Monitor & Report						
Effluent Gross Value	SAMPLE MEASUREMENT	-----		Monitor & Report						
	PERMIT REQUIREMENT	-----		Monitor & Report						
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER			SIGNATURE OF PRINCIPAL EXECUTIVE			TELEPHONE			DATE	
Fredrick R. Stater						702-651-2200				
PLANT MANAGER			OFFICER OR AUTHORIZED AGENT			AREA CODE NUMBER			YEAR MO DAY	
TYPED OR PRINTED						702-651-2200				

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

Form by WndowChem(7/7)864-0845.ppt 1090x5.01:4/1/98

PERMITTEE NAME/ADDRESS: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 NAME: KERR-MCGEE CHEMICAL CORP. DISCHARGE MONITORING REPORT (DMR)
 ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000

001 TNEV 99106 DISCHARGE NUMBER
 002 STORMWATER MONITORING
 F - FINAL
 MAJOR NO DISCHARGE

FACILITY: KERR-MCGEE CHEMICAL CORP.
 LOCATION: FROM 00 03 01 TO 00 03 31
 Attn: PATRICKS-CORBETT Susan Corder

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)				UNIT
Total Phosphorus, as P	---	---		0.030	0.04	0.12	lb/d	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor and Reort	Monitor and Reort	20 lb/d				
Total Phosphorus, as P	---	---		0.031	0.04	0.12	lb/d	0	Weekly	Discr
Effluent Gross Value	---	---		Monitor and Reort	Monitor and Reort	20 lb/d				
Total Inorganic Nitrogen, as N	---	---		5.1	5.2	---	mg/l	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor and Reort	Monitor and Reort	---				
Total Inorganic Nitrogen, as N	---	---		5.3	5.4	---	mg/l	0	Weekly	Discrete
Effluent Gross Value	---	---		Monitor and Reort	Monitor and Reort	---				
Nitrate, as N	---	---		5.5	6.3	---	mg/l	0	Weekly	Discrete
Effluent Gross Value	---	---		Monitor and Reort	Monitor and Reort	---				
Ammonia, as N	---	---		ND	ND	ND	mg/l	0	Weekly	Discr
Effluent Gross Value	---	---		Monitor and Reort	Monitor and Reort	40 lb/d				
Total Suspended Solids	---	---		ND	ND	---	mg/l	0	Weekly	Discrete
Effluent Gross Value	---	---		Monitor and Reort	Monitor and Reort	135 mg/l				

NAME / TITLE: PRINCIPAL EXECUTIVE OFFICER
 Fredrick R. Stater
 Plant Manager
 TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER: *[Signature]*
 OFFICER OR AUTHORIZED AGENT

TELEPHONE: 702-651-2200
 AREA CODE NUMBER: 702-651-2200
 YEAR MO DAY: 10/05/03

FORMS BY WINDOWCHEM(707)654-0845;P011089;03.01/4798

PERMIT NUMBER: 001
 DISCHARGE NUMBER: 002

MONITORING PERIOD: FROM 00 03 01 TO 00 03 31

NOTE: Read instructions before completing this form.

COMMENT AND EXPLANATION OF ANY VIOLATIONS: (Reference all attachments here)

PERMITTEE NAME/ADDRESS:
 NAME: KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: TNEV 99106
 DISCHARGE NUMBER: 001
 002 STORMWATER MONITORING

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION:
 Attn: PATRICK S. CORBETT SUSAN CROWLEY

MONITORING PERIOD
 FROM 00 | 03 | 01 TO 00 | 03 | 31
 MAJOR NO DISCHARGE

F - FINAL
 NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQ. OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Dissolved Solids	SAMPLE MEASUREMENT	-----		5843	6010	-----	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Influent Gross Value	SAMPLE MEASUREMENT	-----		5795	6060	-----	0	Weekly	Discr
	PERMIT REQUIREMENT	-----		Monitor & Report					
Fecal Coliform	SAMPLE MEASUREMENT	-----		L2	L2	-----	0	Monthly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Attachment A Influent Gross Value	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Attachment A Effluent Gross Value	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					
Attachment A Wash Upgradient	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterl	Discr
	PERMIT REQUIREMENT	-----		Monitor & Report					
Attachment A Wash Downgradient	SAMPLE MEASUREMENT	-----		See Attached Results Table			0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report					

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

[Signature]
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER
 Fredrick R, Stater
 Plant Manager
 TYPED OR PRINTED

TELEPHONE: 702-651-2200
 AREA CODE NUMBER: 702-651-2200
 YEAR: MO: DAY

Stormwater Runoff from Building to Detention Basin

FACILITY: APEX ~~Chemical~~ *McGee Chemical*
 LOCATION: APEX, NV ~~Henderson, NV~~
 Attn: PATRICKS-GORBETT ~~SUSAN~~ *CROWLEY*

MONITORING PERIOD
 FROM 00 | 03 | 01 TO 00 | 03 | 31

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Unionized Ammonia, as N	SAMPLE MEASUREMENT	-----		ND	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report	Monitor & Report	Monitor & Report			
Influent Gross Value	SAMPLE MEASUREMENT	-----		ND	ND	ND	0	Weekly	Discr
	PERMIT REQUIREMENT	-----		Monitor & Report	Monitor & Report	Monitor & Report			
Effluent Gross Value	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
	SAMPLE MEASUREMENT	-----							
	PERMIT REQUIREMENT	-----							
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE			DATE			
Fredrick R. Stater			702-651-2200						
PLANT MANAGER			SIGNATURE OF PRINCIPAL EXECUTIVE			AREA CODE NUMBER			
TYPED OR PRINTED			<i>Fredrick R. Stater</i>			702-651-2200			
COMMENT AND EXPLANATION OF ANY VIOLATIONS			OFFICER OR AUTHORIZED AGENT			YEAR MO DAY			

Forms by WindowChem(707)864-0845;pm1109076.014708

(Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: TNEV 99106
 DISCHARGE NUMBER: 001

PERMITTEE NAME/ADDRESS:
 KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION: HENDERSON, NV
 Attn: SUSAN M. CROWLEY

MONITORING PERIOD

FROM 00 | 04 | 01 TO 00 | 04 | 30

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)			
Flow	SAMPLE MEASUREMENT	0.420	MGD			0	Cont	Flow Meter
	PERMIT REQUIREMENT	1MGD Maximum	Monitor and Report					
Gross Effluent Value	SAMPLE MEASUREMENT			42	8	0	Weekly	Discr
	PERMIT REQUIREMENT			25 mg/l Maximum	45 mg/l Maximum			
BOD ₅	SAMPLE MEASUREMENT			4	8	0	Weekly	Discr
	PERMIT REQUIREMENT			25 mg/l Maximum	45 mg/l Maximum			
Influent Gross Value	SAMPLE MEASUREMENT			73	74	0	Weekly	Discr
	PERMIT REQUIREMENT				Monitor & Report			
Perchlorate	SAMPLE MEASUREMENT			1.23	1.5	0	Weekly	Discr
	PERMIT REQUIREMENT			3 mg/l or 97% removal (whichever is greater)				
Effluent Gross Value	SAMPLE MEASUREMENT			8.4	7.3	0	Weekly	Discr
	PERMIT REQUIREMENT			Between 6.5 and 9 standard units				
Dissolved Oxygen	SAMPLE MEASUREMENT			7.3	9.0	0	Weekly	Discr
	PERMIT REQUIREMENT			Monitor & Report				

I CERTIFY UNDER PENALTY OF LAW THAT THE DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A STATUTE DESIGNED TO PROTECT THE QUALITY OF THE ENVIRONMENT AND TO PREVENT POLLUTION. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

[Signature]
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

OFFICER OR AUTHORIZED AGENT

TELEPHONE: _____ DATE: _____

702-651-2200

AREA CODE NUMBER

YEAR MO DAY

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER
 Fredrick R. Stater
 PLANT MANAGER
 TYPED OR PRINTED

COMMENT AND EXPLANATION OF ANY VIOLATIONS
 (Reference all attachments here)

FACILITY: KERR-MCGEE CHEMICAL CORP.
 LOCATION: FROM 00 04 01 TO 00 04 30
 Attn: PATRICK S. CORBETT Susan Crowley
 NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Phosphorus, as P	SAMPLE MEASUREMENT	---	---	0.037	0.52	0.13	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	20 lb/d			
Influent Gross Value	SAMPLE MEASUREMENT	---	---	0.19	0.77	0.68	0	Weekly	Discr
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	20 lb/d			
Total Inorganic Nitrogen, as N	SAMPLE MEASUREMENT	---	---	5.9	6.1	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Influent Gross Value	SAMPLE MEASUREMENT	---	---	3.7	6.5	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Total Inorganic Nitrogen, as N	SAMPLE MEASUREMENT	---	---	2.5	6.2	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Nitrate, as N	SAMPLE MEASUREMENT	---	---	ND	ND	ND	0	Weekly	Discr
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	40 lb/d			
Effluent Gross Value	SAMPLE MEASUREMENT	---	---	ND	ND	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor and Reort	Monitor and Reort	---			
Total Suspended Solids	SAMPLE MEASUREMENT	---	---	135 mg/l	135 mg/l	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	135 mg/l	135 mg/l	---			
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER				SIGNATURE OF PRINCIPAL EXECUTIVE				TELEPHONE	DATE
Fredrick R. Stater				<i>[Signature]</i>				702-651-2200	
Plant Manager				OFFICER OR AUTHORIZED AGENT				AREA CODE NUMBER	YEAR MO DAY
TYPED OR PRINTED								802-651-2200	

PERMITTEE NAME/ADDRESS: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 NAME: KERR-MCGEE CHEMICAL CORP. DISCHARGE MONITORING REPORT (DMR)
 ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000
 TNEV 99106 PERMIT NUMBER 001
 DISCHARGE NUMBER 002 STORMWATER MONITORING
 F - FINAL

FACILITY: KERR-MCGEE CHEMICAL CORP.
 LOCATION: MAJOR NO DISCHARGE
 Atn: ~~PATRICK S. GORBETT~~ *Susan Crowley*
 MONITORING PERIOD FROM 00 | 04 | 01 TO 00 | 04 | 30
 NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Dissolved Solids	SAMPLE MEASUREMENT	-----	-----	5456	8860	-----	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Influent Gross Value	SAMPLE MEASUREMENT	-----	-----	6498	7850	-----	0	Weekly	Discr
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Total Dissolved Solids	SAMPLE MEASUREMENT	-----	-----	42	42	-----	0	Monthly	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Effluent Gross Value	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table			0	Quarterl	Discrete
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Fecal Coliform	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table			0	Quarterl	Discr
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Attachment A	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table			0	Quarterl	Discr
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Influent Gross Value	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table			0	Quarterl	Discr
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Attachment A	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table			0	Quarterl	Discr
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Effluent Gross Value	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table			0	Quarterl	Discr
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Wash Upgradient	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table			0	Quarterl	Discr
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Attachement A	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table			0	Quarterl	Discr
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
Wash Downgradient	SAMPLE MEASUREMENT	-----	-----	See Attached Results Table			0	Quarterl	Discr
	PERMIT REQUIREMENT	-----	-----	Monitor & Report					
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER				SIGNATURE OF PRINCIPAL EXECUTIVE				TELEPHONE	DATE
Fredrick R, Stater				<i>Fredrick R Stater</i>				702-651-2200	
Plant Manager				OFFICER OR AUTHORIZED AGENT				AREA CODE NUMBER	YEAR MO DAY
TYPED OR PRINTED								702-651-2200	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY PERSONAL SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS RESPONSIBLE FOR THE INFORMATION SUBMITTED. I WILL NOT SIGN THIS REPORT UNLESS THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

00044/961223-1801

FORMS BY WINDOWCHEM(707)854-0845;P/M11060;5.01;4/1/98

PAGE 3 OF 3

DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER
TNEV 99106

DISCHARGE NUMBER
001

NAME: KERR-MCGEE CHEMICAL CORP.
ADDRESS: PO BOX 55
HENDERSON, NV 89009-7000

Stormwater Runoff from Building to Detention Basin

MONITORING PERIOD
FROM 00 | 04 | 01 TO 00 | 04 | 30

FACILITY: APEX Kerr-McGee Chemical
LOCATION: APEX, NV Henderson NV
Attn: PATRICK S. CORBETT
Susan M. Craville

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)			
Unionized Ammonia, as N	SAMPLE MEASUREMENT	-----		ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor & Report	Monitor & Report			
Influent Gross Value	SAMPLE MEASUREMENT	-----		ND	ND	0	Weekly	Discr
	PERMIT REQUIREMENT	-----		Monitor & Report	Monitor & Report			
Unionized Ammonia, as N	SAMPLE MEASUREMENT	-----						
	PERMIT REQUIREMENT	-----						
Effluent Gross Value	SAMPLE MEASUREMENT	-----						
	PERMIT REQUIREMENT	-----						
	SAMPLE MEASUREMENT	-----						
	PERMIT REQUIREMENT	-----						
	SAMPLE MEASUREMENT	-----						
	PERMIT REQUIREMENT	-----						
	SAMPLE MEASUREMENT	-----						
	PERMIT REQUIREMENT	-----						
	SAMPLE MEASUREMENT	-----						
	PERMIT REQUIREMENT	-----						
	SAMPLE MEASUREMENT	-----						
	PERMIT REQUIREMENT	-----						
	SAMPLE MEASUREMENT	-----						
	PERMIT REQUIREMENT	-----						
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER					TELEPHONE		DATE	
Fredrick R. Stater								
PLANT MANAGER					702-651-2200			
TYPED OR PRINTED					AREA CODE NUMBER		YEAR MO DAY	

Fredrick R. Stater
7/27/00
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: TNEV 99106
 DISCHARGE NUMBER: 001


PERMITTEE NAME/ADDRESS:
 KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION: HENDERSON, NV
 Attn: SUSAN M. CROWLEY

MONITORING PERIOD

FROM 00 | 05 | 01 TO 00 | 05 | 31 NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)	UNIT				
Flow	SAMPLE MEASUREMENT	0.466	MGD					0	Cont	Flow Meter	
	PERMIT REQUIREMENT	1MGD Maximum	Monitor and Reort								
Gross Effluent Value	SAMPLE MEASUREMENT						mg/l	0	Weekly	Discr	
	PERMIT REQUIREMENT										
BOD ₅	SAMPLE MEASUREMENT				25 mg/l Maximum	45 mg/l Maximum	mg/l	0	Weekly		
	PERMIT REQUIREMENT										
Influent Gross Value	SAMPLE MEASUREMENT				25 mg/l Maximum	45 mg/l Maximum	mg/l	0	Weekly	Discrete	
	PERMIT REQUIREMENT										
BOD ₅	SAMPLE MEASUREMENT				NA	NA	mg/l	0	Weekly	Discrete	
	PERMIT REQUIREMENT										
Perchlorate	SAMPLE MEASUREMENT				NA	NA	mg/l	0	Weekly	Discrete	
	PERMIT REQUIREMENT										
Influent Gross Value	SAMPLE MEASUREMENT				NA	NA	mg/l	0	Weekly	Discrete	
	PERMIT REQUIREMENT										
Perchlorate	SAMPLE MEASUREMENT				3 mg/l or 97% removal (whichever is greater)		mg/l	0	Weekly	Discrete	
	PERMIT REQUIREMENT										
Effluent Gross Value	SAMPLE MEASUREMENT				7.6	7.5	SU	0	Weekly	Discr	
	PERMIT REQUIREMENT										
Effluent Gross Value	SAMPLE MEASUREMENT				Between 6.5 and 9 standard uints		mg/l	0	Weekly	Discrete	
	PERMIT REQUIREMENT										
Dissolved Oxygen	SAMPLE MEASUREMENT				7.3	8.3	mg/l	0	Weekly	Discrete	
	PERMIT REQUIREMENT										
Effluent Gross Value	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER Fredrick R. Stater PLANT MANAGER TYPED OR PRINTED											
SIGNATURE OF PRINCIPAL EXECUTIVE  OFFICER OR AUTHORIZED AGENT											
TELEPHONE: 702-651-2200 AREA CODE NUMBER: 702-651-2200 DATE:											

(Reference all attachments here)

COMMENT AND EXPLANATION OF ANY VIOLATIONS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS:
 NAME: KERR-MCGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

DISCHARGE MONITORING REPORT (DMR)

TNEV 99106
 PERMIT NUMBER

001
 DISCHARGE NUMBER

002 STORMWATER MONITORING

F - FINAL

MONITORING PERIOD

FROM 00 | 05 | 01 TO 00 | 05 | 31

MAJOR


NO DISCHARGE

FACILITY: KERR-MCGEE CHEMICAL CORP.

LOCATION:

Attn: PATRICKS-GORBETT Susan M. Crowley

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Phosphorus, as P	SAMPLE MEASUREMENT	-----		0.015	0.018	0.057	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor and Reort	Monitor and Reort	20 lb/d			
Total Phosphorus, as P	SAMPLE MEASUREMENT	-----		0.027	0.027	0.11	0	Weekly	Discret
	PERMIT REQUIREMENT	-----		Monitor and Reort	Monitor and Reort	20 lb/d			
Total Inorganic Nitrogen, as N	SAMPLE MEASUREMENT	-----		6.6	7.0	-----	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor and Reort	Monitor and Reort	-----			
Total Inorganic Nitrogen, as N	SAMPLE MEASUREMENT	-----		6.8	7.0	-----	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor and Reort	Monitor and Reort	-----			
Nitrate, as N	SAMPLE MEASUREMENT	-----		6.6	6.7	-----	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor and Reort	Monitor and Reort	-----			
Ammonia, as N	SAMPLE MEASUREMENT	-----		ND	ND	ND	0	Weekly	Discret
	PERMIT REQUIREMENT	-----		Monitor and Reort	Monitor and Reort	40 lb/d			
Total Suspended Solids	SAMPLE MEASUREMENT	-----		ND	ND	-----	0	Weekly	Discrete
	PERMIT REQUIREMENT	-----		Monitor and Reort	Monitor and Reort	-----			
Effluent Gross Value	SAMPLE MEASUREMENT	-----		135 mg/l					
	PERMIT REQUIREMENT	-----		135 mg/l					
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER Fredrick R. Stater Plant Manager TYPED OR PRINTED									
SIGNATURE OF PRINCIPAL EXECUTIVE  OFFICER OR AUTHORIZED AGENT									
TELEPHONE 702-651-2200							DATE		
AREA CODE NUMBER 702-651-2200							YEAR MO DAY		

FORMS BY WINDOWCHEM(707)854-0845;pm11090v5.01/4/08

(Reference all attachments here)

COMMENT AND EXPLANATION OF ANY VIOLATIONS

PERMITTEE NAME/ADDRESS: **KERR-McGEE CHEMICAL CORP.**
NAME: KERR-McGEE CHEMICAL CORP.
ADDRESS: PO BOX 55
HENDERSON, NV 89009-7000

FACILITY: **KERR-McGEE CHEMICAL CORP.**
 LOCATION: **MAJOR NO DISCHARGE**

Attn: **PATRICK S. GORBETT** *Susan McCowley*

PERMIT NUMBER: **001**
 DISCHARGE NUMBER: **001**

MONITORING PERIOD: FROM **00 | 05 | 01** TO **00 | 05 | 31**

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Dissolved Solids	-----	-----		6385	6590	-----	0	Weekly	Discrete
Influent Gross Value	-----	-----		Monitor & Report					
Total Dissolved Solids	-----	-----		6230	6560	-----	0	Weekly	Discrete
Effluent Gross Value	-----	-----		Monitor & Report					
Fecal Coliform	-----	-----		L2	L2	-----	0	Monthly	Discrete
Effluent Gross Value	-----	-----		Monitor & Report					
Attachment A	-----	-----		See Attached Results Table			0	Quarterl	Discrete
Influent Gross Value	-----	-----		Monitor & Report					
Attachment A	-----	-----		See Attached Results Table			0	Quarterl	Discrete
Effluent Gross Value	-----	-----		Monitor & Report					
Attachment A	-----	-----		See Attached Results Table			0	Quarterl	Discrete
Wash Upgradient	-----	-----		Monitor & Report					
Attachment A	-----	-----		See Attached Results Table			0	Quarterl	Discrete
Wash Downgradient	-----	-----		Monitor & Report					

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER: **Fredrick R, Stater**
 SIGNATURE OF PRINCIPAL EXECUTIVE: *[Signature]*
 OFFICER OR AUTHORIZED AGENT: **702-651-2200**
 TELEPHONE: **702-651-2200**
 DATE: _____
 AREA CODE NUMBER: _____
 YEAR MO DAY: _____

COMMENT AND EXPLANATION OF ANY VIOLATIONS: _____
 (Reference all attachments here)

PERMITTEE NAME/ADDRESS:
 NAME: KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: TNEV 99106
 DISCHARGE NUMBER: 001

Stormwater Runoff from Building to Detention Basin

FACILITY: *APEX Kerr-McGee Chemical*
 LOCATION: *APEX-NV Henderson NV*
 Attn: *PATRICK S. CORBETT Susan Crowley*

MONITORING PERIOD

FROM 00 | 05 | 01 TO 00 | 05 | 11

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING				QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)	UNIT			
Unionized Ammonia, as N	SAMPLE MEASUREMENT	----			ND	ND	mg/l	0	Weekly	Discrete
	PERMIT REQUIREMENT	----			Monitor & Report	Monitor & Report				
Influent Gross Value	SAMPLE MEASUREMENT	----			ND	ND	mg/l	0	Weekly	Discr.
	PERMIT REQUIREMENT	----			Monitor & Report	Monitor & Report				
Unionized Ammonia, as N	SAMPLE MEASUREMENT	----			ND	ND				
	PERMIT REQUIREMENT	----			Monitor & Report	Monitor & Report				
Effluent Gross Value	SAMPLE MEASUREMENT	----								
	PERMIT REQUIREMENT	----								
	SAMPLE MEASUREMENT	----								
	PERMIT REQUIREMENT	----								
	SAMPLE MEASUREMENT	----								
	PERMIT REQUIREMENT	----								
	SAMPLE MEASUREMENT	----								
	PERMIT REQUIREMENT	----								
	SAMPLE MEASUREMENT	----								
	PERMIT REQUIREMENT	----								
	SAMPLE MEASUREMENT	----								
	PERMIT REQUIREMENT	----								
NAME / TITLE: PRINCIPAL EXECUTIVE OFFICER		TELEPHONE							DATE	
Fredrick R. Stater										
PLANT MANAGER		SIGNATURE OF PRINCIPAL EXECUTIVE							702-651-2200	
TYPED OR PRINTED		OFFICER OR AUTHORIZED AGENT							AREA CODE NUMBER	
									702-651-2200	
									YEAR MO DAY	

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

(Reference all attachments here)

COMMENT AND EXPLANATION OF ANY VIOLATIONS



KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 66 - HENDERSON, NEVADA 89009

July 27, 2000

Ms. Shannon Bell
State of Nevada
Division of Environmental Protection
Bureau of Water Permits & Compliance
333 W. Nye Lane
Carson City, Nevada 89710

Dear Ms. Bell:

SUBJECT: Discharge Monitoring Report (DMR)
Second Quarter 2000 - TNEV 200351

This report is required by, and prepared specifically for, the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

The attached DMRs (Attachment 1) reflect information associated with the perchlorate remediation efforts, ongoing near the Las Vegas Wash. Supporting analytical sheets are included as well (Attachment 2). Listed separately is the analytical for the four locations which require "Attachment A" analyses (Attachment 3).

Please note that some perchlorate analytical information is pending receipt of results from the perchlorate certified lab, Montgomery & Watson. While these results have not been received yet, process samples taken and analyzed utilizing the ion selective electrode has shown the process to be running within permitted levels. The pending results will be forwarded as they are received.

Should you have any questions concerning this report, please contact Susan M. Crowley at (702) 651-2234. Thank you.

Sincerely,

F. R. Stater
Plant Manager

By certified mail

cc: LKBailey
PSCorbett, w/o analytical attachment
SMCrowley
WOGreen, w/o analytical attachment
SJMathew, w/o analytical attachment
MJPorterfield, w/o analytical attachment
EMSpore, w/o analytical attachment
Catherine Pool, NDEP
Brenda Pohlmann, NDEP (Las Vegas), w/o analytical attachment
Doug Zimmerman, NDEP, w/o analytical attachment

ATTACHMENT 1

Discharge Monitoring Reports (DMR)

PERMITTEE NAME/ADDRESS:
 NAME: KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: TNEV 200351
 DISCHARGE NUMBER: 001

ACTIVITY: KERR-McGEE CHEMICAL CORP.
 LOCATION: HENDERSON, NV
 ATTN: SUSAN M. CROWLEY

MONITORING PERIOD

FROM 00 | 05 | 11 TO 00 | 05 | 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Flow	0.41	0.41	MGD				0	Cont	Flow Meter
Gross Effluent Value	1 MGD Maximum	Monitor and Report							
IOD ₅				<2	<2		0	Weekly	Discrete
Influent Gross Value				25 mg/l Maximum	45 mg/l Maximum				
IOD ₅				<2	<2		0	Weekly	Discrete
Influent Gross Value				25 mg/l Maximum	45 mg/l Maximum				
Perchlorate				*	*		0	Weekly	Discrete
Influent Gross Value				Monitor & Report					
Perchlorate				*	*		0	Weekly	Discrete
Influent Gross Value				3 mg/l or 97% removal (whichever is greater)					
pH				7.52	7.41		0	Weekly	Discrete
Influent Gross Value				Between 6.5 and 9 standard units					
Dissolved Oxygen				7.90	8.24		0	Weekly	Discrete
Influent Gross Value				Monitor & Report					
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER	FREDRICK R. STATER			SIGNATURE OF PRINCIPAL EXECUTIVE			702-651-2200	AREA CODE NUMBER	YEAR MO DAY
PLANT MANAGER	FREDRICK R. STATER			OFFICER OR AUTHORIZED AGENT			702-651-2200	AREA CODE NUMBER	YEAR MO DAY
TYPED OR PRINTED	FREDRICK R. STATER			SIGNATURE OF PRINCIPAL EXECUTIVE			702-651-2200	AREA CODE NUMBER	YEAR MO DAY
COMMENT AND EXPLANATION OF ANY VIOLATIONS	Pending lab results from Montgomery & Watso, Pass								

Sign i date
 in same place
 - all sheets

FORMS BY WINDOW CHEM (707) 864-0845; pm11060; 2.01; 4/1/99

ERMITTEE NAME/ADDRESS:
 JAME: KERR-McGEE CHEMICAL CORP.
 DDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION:
 FROM 00 05 11 TO 00 05 31

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 001
 DISCHARGE NUMBER
 002 STORMWATER MONITORING
 F - FINAL
 MAJOR NO DISCHARGE

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Phosphorus, as P	MEASUREMENT	---	---	0.044	0.056	0.15	0	Weekly	Discrete
Influent Gross Value	PERMIT REQUIREMENT	---	---	Monitor and Report	Monitor and Report	20 lb/d			
Total Phosphorus, as P	MEASUREMENT	---	---	0.053	0.062	0.18	0	Weekly	Discrete
Affluent Gross Value	PERMIT REQUIREMENT	---	---	Monitor and Report	Monitor and Report	20 lb/d			
Total Inorganic Nitrogen, as N	MEASUREMENT	---	---	7.00	7.10	---	0	Weekly	Discrete
Influent Gross Value	PERMIT REQUIREMENT	---	---	Monitor and Report	Monitor and Report	---			
Total Inorganic Nitrogen, as N	MEASUREMENT	---	---	7.30	7.60	---	0	Weekly	Discrete
Affluent Gross Value	PERMIT REQUIREMENT	---	---	Monitor and Report	Monitor and Report	---			
Nitrate, as N	MEASUREMENT	---	---	10.50	14.00	---	0	Weekly	Discrete
Affluent Gross Value	PERMIT REQUIREMENT	---	---	Monitor and Report	Monitor and Report	---			
Ammonia, as N	MEASUREMENT	---	---	ND	ND	ND	0	Weekly	Discrete
Affluent Gross Value	PERMIT REQUIREMENT	---	---	Monitor and Report	Monitor and Report	40 lb/d			
Total Suspended Solids	MEASUREMENT	---	---	ND	ND	---	0	Weekly	Discrete
Affluent Gross Value	PERMIT REQUIREMENT	---	---	135 mg/l	---	---			

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER
 Fredrick R. Stater
 PLANT MANAGER
 TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 OFFICER OR AUTHORIZED AGENT

TELEPHONE 702-651-2200
 AREA CODE NUMBER 702-651-2200
 DATE
 YEAR MO DAY

FORMS BY WinflowChem(707)864-8645;pm1190;v.6.01/1/1996

PERMITTEE NAME/ADDRESS:
 KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER
 TNEV 200351

DISCHARGE NUMBER
 001

002 STORMWATER MONITORING

F - FINAL

ACTIVITY: KERR-McGEE CHEMICAL CORP.

MONITORING PERIOD

FROM 00 | 05 | 11 TO 00 | 05 | 31

MAJOR NO DISCHARGE

LOCATION: PATRICKS-CORBETT SUSAN CROWLEY

NOTE: Read Instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Dissolved Solids	SAMPLE MEASUREMENT	---	---	6105	6190	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	---	---			
Influent Gross Value	SAMPLE MEASUREMENT	---	---	6105	6160	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	---	---			
Total Dissolved Solids	SAMPLE MEASUREMENT	---	---	17	17	---	0	Monthly	Discrete
	PERMIT REQUIREMENT	---	---	See Attached Results Table	---	---			
Total Coliform	SAMPLE MEASUREMENT	---	---	See Attached Results Table	---	---	0	Quarterly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	---	---			
Influent Gross Value	SAMPLE MEASUREMENT	---	---	See Attached Results Table	---	---	0	Quarterly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	---	---			
Attachment A	SAMPLE MEASUREMENT	---	---	See Attached Results Table	---	---	0	Quarterly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	---	---			
Influent Gross Value	SAMPLE MEASUREMENT	---	---	See Attached Results Table	---	---	0	Quarterly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	---	---			
Attachment A	SAMPLE MEASUREMENT	---	---	See Attached Results Table	---	---	0	Quarterly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	---	---			
Wash Upgradient	SAMPLE MEASUREMENT	---	---	See Attached Results Table	---	---	0	Quarterly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	---	---			
Attachment A	SAMPLE MEASUREMENT	---	---	See Attached Results Table	---	---	0	Quarterly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	---	---			
Wash Downgradient	SAMPLE MEASUREMENT	---	---	See Attached Results Table	---	---	0	Quarterly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	---	---			
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER				TELEPHONE				DATE	
Fredrick R, Stater				702-651-2200					
PLANT MANAGER				SIGNATURE OF PRINCIPAL EXECUTIVE				AREA CODE NUMBER	
TYPED OR PRINTED				OFFICER OR AUTHORIZED AGENT				YEAR MO DAY	

(Reference all attachments here)

COMMENT AND EXPLANATION OF ANY VIOLATIONS

WRITER NAME/ADDRESS:
 NAME: KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER
 TNEV 200351

DISCHARGE NUMBER
 001

Stormwater Runoff from Building to Detention Basin

ACTIVITY: APEX Kerr McGee Chemical
 LOCATION: APEX, NV
 ATTN: PATRICK S. GORBETT Susan Crowley

MONITORING PERIOD

FROM 00 | 05 | 11 TO 00 | 05 | 31

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Merchlorate	SAMPLE MEASUREMENT	---	---	---	*	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	Monitor & Report	---			
Vash Upgradient	SAMPLE MEASUREMENT	---	---	---	*	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	Monitor & Report	---			
Merchlorate	SAMPLE MEASUREMENT	---	---	---	*	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	Monitor & Report	---			
Vash Downgradient	SAMPLE MEASUREMENT	---	---	---	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	Monitor & Report	---			
Ionized Ammonia, as N	SAMPLE MEASUREMENT	---	---	---	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	Monitor & Report	---			
Effluent Gross Value	SAMPLE MEASUREMENT	---	---	---	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	Monitor & Report	---			
Ionized Ammonia, as N	SAMPLE MEASUREMENT	---	---	---	ND	ND	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	Monitor & Report	---			
Effluent Gross Value	SAMPLE MEASUREMENT	---	---	---	---	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	---	---			
	SAMPLE MEASUREMENT	---	---	---	---	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	---	---			
	SAMPLE MEASUREMENT	---	---	---	---	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	---	---			
	SAMPLE MEASUREMENT	---	---	---	---	---	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	---	---	---			

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER
 Fredrick R. Stater

PLANT MANAGER

TYPED OR PRINTED

COMMENT AND EXPLANATION OF ANY VIOLATIONS

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
Fredrick R. Stater 7/27/00

OFFICER OR AUTHORIZED AGENT

TELEPHONE
 702-651-2200

DATE

AREA CODE NUMBER
 702-651-2200

YEAR MO DAY
 00 05 31

PERMITTEE NAME/ADDRESS:
 NAME: KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 TNEV 200351 PERMIT NUMBER
 001 DISCHARGE NUMBER

PLANT: KERR-McGEE CHEMICAL CORP.
 LOCATION: HENDERSON, NV
 FROM: SUSAN M. CROWLEY

MONITORING PERIOD

FROM 00 | 06 | 01 TO 00 | 06 | 30

NO DISCHARGE

NOTE: Read Instructions before completing this form.

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)				UNIT
Flow	0.33	0.36	MGD					0	Cont	Flow Meter
Effluent Value	1MGD Maximum	Monitor and Report								
OD ₅				<2				0	Weekly	Discrete
Effluent Gross Value				25 mg/l Maximum	45 mg/l Maximum					
OD ₅				<2				0	Weekly	Discrete
Effluent Gross Value				25 mg/l Maximum	45 mg/l Maximum					
Perchlorate				*	*			0	Weekly	Discrete
Effluent Gross Value				Monitor & Report	Monitor & Report					
Perchlorate				*	*			0	Weekly	Discrete
Effluent Gross Value				3 mg/l or 97% removal (whichever is greater)						
pH				7.54	7.35			0	Weekly	Discrete
Effluent Gross Value				Between 6.5 and 9 standard units						
Dissolved Oxygen				7.70	8.60			0	Weekly	Discrete
Effluent Gross Value				Monitor & Report	Monitor & Report					
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER Fredrick R. Stater PLANT MANAGER TYPED OR PRINTED COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)										
							TELEPHONE	702-651-2200	AREA CODE NUMBER	YEAR MO DAY
							SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		DATE	

PERMIT NUMBER: **TNEV 200351** DISCHARGE NUMBER: **001**
 F - FINAL MAJOR NO DISCHARGE

MONITORING PERIOD: FROM **00 | 06 | 01** TO **00 | 06 | 30**
 FACILITY: **KERR-MCGEE CHEMICAL CORP.**
 LOCATION: **HENDERSON, NV 89009-7000**

NAME / TITLE: **Fredrick R. Stater**
 TITLE: **PLANT MANAGER**
 TYPED OR PRINTED

OFFICER OR AUTHORIZED AGENT: *[Signature]*
 SIGNATURE OF PRINCIPAL EXECUTIVE

COMMENT AND EXPLANATION OF ANY VIOLATIONS: **NO DISCHARGE**

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Total Phosphorus, as P	---	---		0.030	0.040	0.08	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor and Report	Monitor and Report	20 lb/d			
Total Phosphorus, as P	---	---		0.035	0.045	0.10	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor and Report	Monitor and Report	20 lb/d			
Total Inorganic Nitrogen, as N	---	---		7.1	7.7	---	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor and Report	Monitor and Report	---			
Total Inorganic Nitrogen, as N	---	---		7.5	7.9	---	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor and Report	Monitor and Report	---			
Nitrate, as N	---	---		7.3	8.5	---	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor and Report	Monitor and Report	---			
Ammonia, as N	---	---		ND	ND	ND	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor and Report	Monitor and Report	40 lb/d			
Total Suspended Solids	---	---		ND	ND	---	0	Weekly	Discrete
Influent Gross Value	---	---		135 mg/l	---	---			


COMMITTEE NAME/ADDRESS: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 NAME: KERR-McGEE CHEMICAL CORP. DISCHARGE MONITORING REPORT (DMR) 001
 ADDRESS: PO BOX 55 HENDERSON, NV 89009-7000 DISCHARGE NUMBER
 TNEV 200351 PERMIT NUMBER
 002 STORMWATER MONITORING
 F - FINAL
 MAJOR NO DISCHARGE

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION: MONITORING PERIOD FROM 00 | 06 | 01 TO 00 | 06 | 30
 ATTN: PATRICK G. GORBETT SUSAN CROWLEY
 NOTE: Read Instructions before completing this form.

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)			
Total Dissolved Solids	---	---		6462	6630	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor & Report				
Total Dissolved Solids	---	---		6422	6560	0	Weekly	Discrete
Influent Gross Value	---	---		Monitor & Report				
ecal Coliform				17	17	0	Monthly	Discrete
Influent Gross Value				---				
Attachment A				See Attached Results Table		0	Quarterly	Discrete
Influent Gross Value				Monitor & Report				
Attachment A				See Attached Results Table		0	Quarterly	Discrete
Influent Gross Value				Monitor & Report				
Attachment A				See Attached Results Table		0	Quarterly	Discrete
Wash Upgradient				Monitor & Report				
Attachment A				See Attached Results Table		0	Quarterly	Discrete
Wash Downgradient				Monitor & Report				
Attachment A				See Attached Results Table		0	Quarterly	Discrete

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND EVALUATE THE INFORMATION NECESSARY FOR ACCURATELY REPORTING THE INFORMATION REQUESTED IN THIS REPORT. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPROBATION FOR RECURRING VIOLATIONS.

NAME / TITLE: PRINCIPAL EXECUTIVE OFFICER
 Fredrick R, Stater
 PLANT MANAGER
 TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT


TELEPHONE: 702-651-2200
 AREA CODE NUMBER: 702-651-2200
 YEAR: MO: DAY:

COMMENT AND EXPLANATION OF ANY VIOLATIONS:

Form By: WinViewChem(707)984-0945:pml100676.01/14/196

PERMIT NUMBER: **TNEV 200351**
 DISCHARGE NUMBER: **001**

STORMWATER RUNOFF FROM BUILDING TO DETENTION BASIN

MONITORING PERIOD
 FROM **00 06 01** TO **00 06 30**

Facility: **APEX Kerr-McGee Chemical**
 Location: **APEX, NV**
 Attn: **PATRICK S. GORBETT** **Susan Crowley**

NOTE: Read Instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)	UNIT			
Perchlorate	SAMPLE MEASUREMENT	---	---	*	*	---	mg/l	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	Monitor & Report	---				
Wash Upgradient	SAMPLE MEASUREMENT	---	---	*	*	---	mg/l	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	Monitor & Report	---				
Ionized Ammonia, as N	SAMPLE MEASUREMENT	---	---	ND	ND	---	mg/l	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	Monitor & Report	---				
Influent Gross Value	SAMPLE MEASUREMENT	---	---	ND	ND	---	mg/l	0	Weekly	Discrete
	PERMIT REQUIREMENT	---	---	Monitor & Report	Monitor & Report	---				
Effluent Gross Value	SAMPLE MEASUREMENT	---	---	---	---	---		0		
	PERMIT REQUIREMENT	---	---	---	---	---				
Perchlorate	SAMPLE MEASUREMENT	---	---	---	---	---		0		
	PERMIT REQUIREMENT	---	---	---	---	---				
Wash Downgradient	SAMPLE MEASUREMENT	---	---	---	---	---		0		
	PERMIT REQUIREMENT	---	---	---	---	---				

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER
 Fredrick R. Stater

PLANT MANAGER
 TYPED OR PRINTED

OFFICER OR AUTHORIZED AGENT
 SIGNATURE OF PRINCIPAL EXECUTIVE
 OFFICER OR AUTHORIZED AGENT

TELEPHONE
 702-651-2200

AREA CODE NUMBER
 702-651-2200

DATE

YEAR MO DAY

CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY KNOWLEDGE OF THE FACTS OR PERSONS WHO MANAGE THE SYSTEM, THAT THESE PERSONS SUBJECT TO THIS PERMIT ARE QUALIFIED TO OBTAIN AND EVALUATE THE INFORMATION SUBMITTED, AND THAT I AM AWARE THAT THERE ARE STATUTORY PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

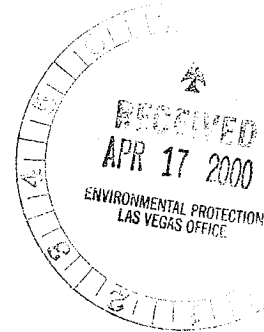
(Reference all attachments here)



KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 55 - HENDERSON, NEVADA 89009

April 13, 2000



Ms. Shannon R. Bell
State of Nevada
Division of Environmental Protection
Bureau of Water Permits & Compliance
333 W. Nye Lane
Carson City, Nevada 89710

Dear Ms. Bell:

SUBJECT: First Quarter Discharge Monitoring Report
Temporary Discharge Permit TNEV 99106

This report is required by, and prepared specifically for, the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

Kerr-McGee received Temporary Discharge Permit, TNEV 99106, regulating the discharge from the perchlorate treatment process in November 1999. For your convenience, that permit is included as Attachment A. This report provides information gathered during that permit's period. Facility monitoring is included in Attachment B. Wash upgradient and downgradient monitoring is included as Attachment C.

Should you have any questions concerning this report, please contact me at (702) 651-2234.

Sincerely,

Susan Crowley
Staff Environmental Specialist

By certified mail

cc: LKBailey
PSCorbett
WOGreen
JDKingery
SJMathew
MJPorterfield
EMSpore
FRStater
WKTaylor
Rick Simon, ENSR
Dave Urban, ENSR
Doug Zimmerman, NDEP
Brenda Pohlmann, NDEP
Cathe Pool, NDEP

smc/Temp CIO4 1st Q.doc

ATTACHMENT A

**Temporary Permit
TNEV 99106**



PETER G. MORROS, Director
ALLEN BIAGGI, Administrator

75) 687-4670
DD 687-4678

Administration
Water Pollution Control
Facsimile 687-5856

Mining Regulation and Reclamation
Facsimile 684-5259

STATE OF NEVADA
KENNY C. GUINN
Governor



Waste Management
Corrective Actions
Federal Facilities

Air Quality
Water Quality Planning
Facsimile 687-6396

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION

333 W. Nye Lane, Room 138
Carson City, Nevada 89706-0851

November 10, 1999

Patrick S. Corbett
Plant Manager
Kerr McGee Chemical Corp.
P.O. Box 55
Henderson, NV 89009

Re: Temporary Permit for the "seep" TNEV99106

Dear Mr. Corbett:

Enclosed please find the temporary permit for the discharge of the perchlorate treated "seep" water as required by the Consent Agreement. As discussed in the synopsis, there are several constituents which do not meet the water quality standards, some of which may be attributed to Kerr McGee and may only be in exceedance of the water quality standards when the influent includes a groundwater component (e.g. chromium). Kerr McGee may be required to provide treatment for these constituents in the permanent permit.

Please feel free to call with any questions you may have regarding this permit at 702/687-4670 ext. 3050.

Sincerely,

A handwritten signature in black ink, appearing to read "Catherine R. Pool".

Catherine R. Pool, P.E.
Supervisor, Permits Branch
Bureau of Water Pollution Control

Enclosure

cc: Shannon Bell (w/enclosure)
Susan Crowley, Kerr McGee (w/enclosure)
Leo Drozdoff, NDEP (w/o enclosure)
Doug Zimmerman, NDEP (w/ enclosure)
Nadir Sous, NDEP LV (w/enclosure)

Nevada Division of Environmental Protection

TEMPORARY AUTHORIZATION TO DISCHARGE

In compliance with the provisions of Chapter 445A of the Nevada Revised Statutes,

Kerr-McGee Chemical Corporation
P.O. Box 55
Henderson, NV 89015

is authorized to discharge from a facility located at

8000 Lake Mead Drive
Henderson, Nevada

to receiving waters named

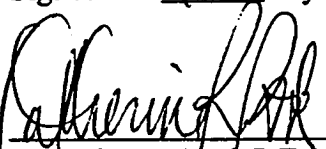
Las Vegas Wash between the confluence of the Clark County and City of Las Vegas wastewater treatment plant discharges and Telephone Line Road

in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Part I, II and III hereof.

This permit shall become effective on November 11, 1999

This permit and the authorization to discharge shall expire at midnight, May 11, 2000.

Signed this 10 day of November 1999.



Catherine R. Pool, P.E.
Supervisor Permitting Branch
Bureau of Water Pollution Control

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PART I- Synopsis

The Permittee is required to treat the "seep" found near the Las Vegas Wash through a Consent Agreement entered into with the State of Nevada on July 26, 1999. The Consent Agreement requires that the Permittee treat recovered "seep" water for perchlorate under an aggressive time schedule. Through the review of the permit application, the Division has become aware that there are certain other constituents which may be related to other industrial activities at the BMI Complex and which exceed the water quality standards. These other constituents are not covered under the Consent Agreement and have not been determined to be the responsibility of the Permittee. There is not enough information at this time, to determine if the other constituents would cause an exceedance of a water quality standard in the receiving water. Additionally, the "seep" is currently entering the receiving water untreated and any perchlorate removal will only improve the water quality. There is also not enough information about the possible effects perchlorate treatment technologies on the concentration of the other constituents. Therefore, the Division has determined it is in the best interest of the receiving water to allow the treatment of perchlorate to begin, with the other constituents being dealt with in the Schedule of Compliance and through negotiations with the other responsible parties. The requirement for the Permittee to not increase the concentration or loading to the Wash (of these other constituents) as a result of the discharge is included in the permit. The Permittee shall comply with the effluent limitations listed in Table I.1; all other water quality standards are addressed in the schedule of compliance as authorized by NAC 445A.244.2.

I.A. EFFLUENT LIMITATIONS, MONITORING REQUIREMENTS AND CONDITIONS

I.A.1. During the period beginning on the effective date of this permit, and lasting until the permit expires, the permittee is authorized to discharge treated "seep" water from Outfall 001. Effluent samples taken in compliance with the monitoring requirements specified below shall be taken after treatment and prior to mixing with the receiving waters. Effluent samples are designated as **EFF**. Influent samples are to be taken at the headworks and are designated as **INF**. Upstream and downstream samples are to be taken in the Las Vegas Wash upstream and downstream of the discharge point.

The discharge shall be limited and monitored by the permittee as specified below:

TABLE I.1

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS</u>		
	30 Day Ave. mg/l	7 day Average mg/l	30 Day Ave. lb/day	Sample Location(s)	Measurement Frequency	Sample Type
Flow	1 MGD	M & R	-----	EFF	Continuous	Flow meter
BOD₅	25 mg/l	45 mg/l	M & R	INF, EFF	Weekly	Discrete
Perchlorate	3 mg/l*	M & R	97%* removal	INF, EFF upstream and downstream	Weekly	Discrete samples taken daily and composited onto one weekly composite.
	*whichever is greater					
Attachment A	The permittee shall demonstrate that there is no increase in the concentration or loading to the Wash of the "other" constituents as a result of the discharge. The permittee shall only be responsible for utilizing results in this demonstration which are greater than the practical quantification limit (PQL), however all data above the method detection limit (MDL) shall be reported.			INF, EFF, upstream and downstream	Quarterly	Discrete

PARAMETERS	EFFLUENT DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS		
	30 Day Ave. mg/l	7 day Average mg/l	30 Day Ave. lb/day	Sample Location(s)	Measurement Frequency	Sample Type
pH	between 6.5 and 9 standard units			EFF	Weekly	Discrete
Dissolved Oxygen	M & R			EFF	Weekly	Discrete
Total Phosphorus as P	M & R	M & R	20 lb/day	INF, EFF	Weekly	Discrete
Total Inorganic Nitrogen as N	M & R			INF, EFF	Weekly	Discrete
Nitrate as N	M & R			EFF	Weekly	Discrete
Total Dissolved Solids	M & R			INF, EFF	Weekly	Discrete
Ammonia as N	M & R	M & R	40 lb/day	EFF	Weekly	Discrete
Un-Ionized Ammonia as N	M & R	M & R	M & R	INF, EFF	Weekly	Calculated
Total Suspended Solids	135 mg/l			EFF	Weekly	Discrete
Fecal Coliform	M & R			EFF	Monthly	Discrete

M & R means Monitor and Report

I.A.2. **Narrative Standards** *NAC 445A.121* Discharges shall not cause the following standards to be violated in any surface waters of the state. Waters must be free from:

- a. substances that will settle to form sludge or bottom deposits in amounts sufficient to be unsightly, putrescent or odorous;
- b. floating debris, oil, grease, scum, and other floating materials in amounts sufficient to be unsightly;
- c. materials in amounts sufficient to produce taste or odor in the water or detectable off-flavor in the flesh of fish or in amounts sufficient to change the existing color, turbidity or other conditions in the receiving stream to such a degree as to create a public nuisance;
- d. high temperature, biocides, organisms pathogenic to human beings, toxic, corrosive or other deleterious substances at levels or combinations sufficient to be toxic to human, animal, plant or aquatic life;
- e. radioactive materials must not result in accumulations of radioactivity in plants or animals that result in a hazard to humans or harm to aquatic life;
- f. untreated or uncontrolled wastes or effluents that are reasonably amenable to treatment or control;
- g. substances or conditions which interfere with the beneficial use of the receiving waters.

- I.A.2.2.h. The narrative standards are not considered violated when the natural conditions of the receiving water are outside the established limits, including periods of high or low flow. Where effluents are discharged to such waters, the discharges are not considered a contributor to substandard conditions provided maximum treatment in compliance with permit requirements is maintained.
- I.A.3. There shall be no objectionable odors from the collection system, treatment facility or disposal area.
- I.A.4. There shall be no discharge of substances that would cause a violation of water quality standards of the State of Nevada.
- I.A.5. There shall be no discharge from the collection, treatment and disposal facilities except as authorized by this permit.
- I.A.6. The treatment and disposal facility shall be fenced, if necessary, and posted.
- I.A.7. The collection, treatment and disposal facilities shall be constructed in conformance with plans approved by the Administrator. The plans shall be approved by the Administrator. All changes to the approved plans must be approved by the Administrator.
- I.A.8. There shall be no discharge of floating solids or visible foam in other than trace amounts.
- I.A.9. **Schedule of Compliance** The permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance.
- a. The permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
 - b. The permittee shall submit a report at the expiration of this temporary permit which discusses any and all progress made on the following issues: 1) Total Dissolved Solids compliance with the Colorado River Salinity Standards (NAC 445A.143); 2) the type of technology which is considered to be the best degree of treatment or control practicable or economically achievable (**BAT**) for each constituent which does not meet the water quality standards listed in NAC 445A.144, 445A.199 and the applicable standards in 40 CFR 131; 3) an evaluation of a mixing zone for each of the constituents for the above compounds; 4) an evaluation of all disposal options including re-injection upgradient of the plume, re-use, production water, infiltration basins, and re-injection.
 - c. The permittee shall continue to participate in regional solutions to the TDS issues in the Las Vegas Wash. The permittee shall submit a report upon expiration of this permit which includes any progress made on reducing the TDS loading to the wash either in directly reducing the loading to the wash from the discharge or regional projects the permittee has participated in which reduce the loading off-site in the same watershed.
 - d. The permittee shall fully cooperate with any persons required by NDEP to treat the discharge subsequent to treatment by the permittee.

I.B. MONITORING AND REPORTING**I.B.1. Reporting**

- a. **Monthly Reporting** Monitoring results obtained pursuant to Section I.A of the permit shall be summarized and reported on a Discharge Monitoring Report (DMR) form. The DMR is to be received in this office no later than the 28th day of the month following the complete reporting period. The Permittee shall also submit the data in electronic format. The first report is due on _____, 19____. Laboratory results for analyses conducted by outside laboratories must accompany the DMR.
- b. **Other information** Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Administrator, it shall promptly submit such facts or information.
- c. **Planned changes** The Permittee shall give notice to the Administrator as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition to a permitted facility;
 - i. may meet one of the criteria for determining whether a facility is a new source (40 CFR 122.29(b)); or
 - ii. Could significantly change the nature or increase the quantity of pollutants discharged; or
 - iii. results in a significant change to the permittee's sludge management practice or disposal sites.
- d. **Anticipated non-compliance** The Permittee shall give advance notice to the Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- e. An original signed copy of these, and all other reports required herein, shall be submitted to the State at the following address:

Division of Environmental Protection
Bureau of Water Pollution Control
ATTN: Compliance Coordinator
333 West Nye Lane
Carson City, Nevada 89706-0851

I.B.2. Monitoring

- a. **Representative Samples** Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.
- b. **Test Procedures** Monitoring for the analysis of pollutants shall be conducted according to test procedures approved under 40 CFR 136 published pursuant to Section 304(h) of the Act, or SW-846, or in the case of sludge disposal, approved under 40 CFR 503, or other procedures as approved by the Administrator in the permit. Analysis shall be performed by a State of Nevada certified laboratory.

- I.B.2.c. **Recording the Results** For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:
- i. the exact place, date, and time of sampling;
 - ii. the dates the analyses were performed;
 - iii. the person(s) who performed the analyses;
 - iv. the analytical techniques or methods used; and
 - v. the results of all required analyses.
- d. **Additional Monitoring by Permittee** If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated on the DMR.
- e. **Records Retention** All records and information resulting from the monitoring activities, permit application, reporting required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years, or longer if required by the Administrator. Records of monitoring information required by this permit related to the permittee's sewage sludge use and/or disposal activities shall be retained for a period of at least 5 years or longer as required by 40 CFR 503.
- g. **Modification of Monitoring Frequency and Sample Type** After considering monitoring data, stream flow, discharge flow and receiving water conditions, the Administrator, may for just cause, modify the monitoring frequency and/or sample type by issuing an order to the permittee.

I.B.3. **Definitions**

- a. The "30-day average discharge" means the total discharge during a month divided by the number of samples in the period that the facility was discharging. Where less than daily sampling is required by this permit, the 30-day average discharge shall be determined by the summation of all the measured discharges divided by the number of samples during the period when the measurements were made.
- b. The "daily maximum" is the highest measurement during the monitoring period.
- c. The "30-day average concentration", other than for fecal coliform bacteria, means the arithmetic mean of measurements made during a month. The "30-day average concentration" for fecal coliform bacteria means the geometric mean of measurements made during a month. The geometric mean is the " n^{th} " root of the product of " n " numbers. Geometric mean calculations where there are non-detect results for fecal coliform shall use the detection limit as the value for the non-detect results.
- d. A "discrete" sample means any individual sample collected in less than 15 minutes.
- e. For flow-rate measurements a "composite" sample means the arithmetic mean of no fewer than six individual measurements taken at equal time intervals for 24 hours, or for the duration of discharge, whichever is shorter.

- I.B.4.e.(cont) For other than flow-rate a "composite" sample means a combination of no fewer than six individual flow-weighted samples obtained at equal time intervals for 24 hours, or for the duration of discharge, whichever is shorter. Flow-weighted sample means that the volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling.

PART II

II.A. MANAGEMENT REQUIREMENTS

- II.A.1. **Change in Discharge** All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, or treatment modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Any changes to the permitted treatment facility must comply with Nevada Administrative Code (NAC) 445A.283 to 445A.285. Pursuant to NAC 445A.263, the permit may be modified to specify and limit any pollutants not previously limited.
- II.A.2. **Facilities Operation-Proper Operation and Maintenance** The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities, collection systems or pump stations installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance/quality control procedures.
- II.A.3. **Adverse Impact-Duty to Mitigate** The permittee shall take all reasonable steps to minimize releases to the environment resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge. The Permittee shall carry out such measures, as reasonable, to prevent significant adverse impacts on human health or the environment.
- II.A.4. **Noncompliance, Unauthorized Discharge, Bypassing and Upset-** Unless otherwise approved by the Bureau of Corrective Action in writing.
- a. Any diversion, bypass, spill, overflow or discharge of treated or untreated wastewater from wastewater treatment or conveyance facilities under the control of the permittee is prohibited except as authorized by this permit. In the event the permittee has knowledge that a diversion, bypass, spill, overflow or discharge not authorized by this permit is probable, the permittee shall notify the Administrator immediately.
 - b. The permittee shall notify the Administrator within twenty-four (24) hours of any diversion, bypass, spill, upset, overflow or release of treated or untreated discharge than that which is authorized by the permit. A written report shall be submitted to the Administrator within five (5) days of diversion, bypass, spill, overflow, upset or discharge, detailing the entire incident including:
 - i. time and date of discharge;
 - ii. exact location and estimated amount of discharge;

- II.A.4.b.
- iii. flow path and any bodies of water which the discharge reached;
 - iv. the specific cause of the discharge; and
 - v. the preventive and/or corrective actions taken.
- c. The following shall be included as information which must be reported within 24 hours:
- i. any unanticipated bypass which exceeds any effluent limitation in the permit;
 - ii. any upset which exceeds any effluent limitation in the permit;
 - iii. violation of a limitation for any toxic pollutant or any pollutant identified as the method to control a toxic pollutant.
- d. The permittee shall report all instances of noncompliance not reported under Part II.A.4.b. at the time monitoring reports are submitted. The reports shall contain the information listed in Part II.A.4.b.
- e. A "bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
- i. **Bypass not exceeding limitations** The Permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs a and b of this section.
 - ii. **Anticipated bypass** If the Permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of bypass.
- f. **Prohibition of Bypass.** Bypass is prohibited, and the Administrator may take enforcement action against a Permittee for bypass, unless:
- i. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage.
 - ii. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment down time. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
 - iii. The Permittee submitted notices as required under paragraph e of this section.
- g. The Administrator may approve an anticipated bypass, after considering its adverse effects, if the Administrator determines that it will meet the three conditions listed in paragraph f of this section.
- h. An "upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- i. **Effect of an upset** An upset constitutes an affirmative defense to an action brought for non-compliance with such technology-based permit effluent limitations if the requirements of paragraph j of this section are met.

- II.A.4.j. **Conditions necessary for a demonstration of an upset** A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
- i. An upset occurred and that the Permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The permittee submitted notice of the upset as required under paragraph c of this section; and
 - iv. The Permittee complied with any remedial measures required under II.A.3.
- k. In selecting the appropriate enforcement option, the Administrator shall consider whether or not the noncompliance was the result of an upset. The burden of proof is on the permittee to establish that an upset occurred.

II.A.5. **Removed Substances** Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of waste waters shall be disposed of in a manner such as to prevent any pollution from such materials from entering any navigable waters.

II.A.6. **Safeguards to Electric Power Failure** In order to maintain compliance with the effluent limitations and prohibitions of this permit the permittee shall either:

- a. provide at the time of discharge an alternative power source sufficient to operate the wastewater control facilities;
- b. halt or reduce all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

II.B. RESPONSIBILITIES

II.B.1. **Right of Entry and Inspection** The permittee shall allow the Administrator and/or his authorized representatives, upon the presentation of credentials, to:

- a. enter at reasonable times upon the Permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. have access to and copy any records required to be kept under the terms and conditions of this permit;
- c. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations required in this permit;
- d. perform any necessary sampling or monitoring to determine compliance with this permit at any location for any parameter.

II.B.2. **Transfer of Ownership or Control** In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit, by letter, a copy of which shall be forwarded to the Administrator. The Administrator may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary. **ALL** transfer of permits shall be approved by the Administrator.

II.B.3. **Availability of Reports** Except for data determined to be confidential under NRS 445A.665, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of the Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NRS 445A.710.

II.B.4. **Furnishing False Information and Tampering with Monitoring Devices** Any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan or other document filed or required to be maintained by the provisions of NRS 445A.300 to 445A.730, inclusive, or by any permit, rule, regulation or order issued pursuant thereto, or who falsifies, tampers with or knowingly renders inaccurate any monitoring device or method required to be maintained under the provisions of NRS 445A.300 to 445A.730, inclusive, or by any permit, rule, regulation or order issued pursuant thereto, is guilty of a gross misdemeanor and shall be punished by a fine of not more than \$10,000 or by imprisonment. This penalty is in addition to any other penalties, civil or criminal, provided pursuant to NRS 445A.300 to 445A.730, inclusive.

II.B.5. **Penalty for Violation of Permit Conditions** Nevada Revised Statutes NRS 445A.675 provides that any person who violates a permit condition is subject to administrative and judicial sanctions as outlined in NRS 445A.690 through 445A.705.

II.B.6. **Permit Modification, Suspension or Revocation**

- a. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - i. violation of any terms or conditions of this permit; or
 - ii obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
 - iv. a determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination; or
 - v. there are material and substantial alterations or additions to the permitted facility or activity; or.
 - vi. the Administrator has received new information; or
 - vii. the standards or regulations have changed; or
 - viii. the Administrator has received notification that the permit will be transferred.
- b. **Minor Modifications** With the consent of the Permittee and without public notice, the Administrator may make minor modifications in a permit to:
 - i. Correct typographical errors;
 - ii. Clarify permit language;
 - iii. require more frequent monitoring or reporting;
 - iv. change an interim compliance date in a schedule of compliance, provided the new date is not more than 120 days after the date specified in the permit and does not interfere with attainment of the final compliance date;
 - v. allow for change in ownership; change the construction schedule for a new discharger provided that all equipment is installed and operational prior to discharge

- II.B.6.b.vi. delete an outfall when the discharge from that outfall is terminated and does not result in discharge of pollutants from other outfalls except in accordance with permit limits.
- II.B.7. **Toxic Pollutants** Notwithstanding Part II.B.6. above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.
- II.B.8. **Liability** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable Federal, State or local laws, regulations, or ordinances.
- II.B.9. **Property Rights** The issuance of this permit does not convey any property rights, in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
- II.B.10. **Severability** The provisions of this permit are severable, and if any provision of this permit, or the application of any provisions of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- II.B.11. **Duty to Comply** The Permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination; revocation and reissuance, or modification; or denial of a permit renewal application.
- II.B.12. **Need to Halt or Reduce Activity Not a Defense** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with this permit.
- II.B.13. **Duty to Provide Information** The Permittee shall furnish to the Administrator, within a reasonable time, any relevant information which the Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this permit. The Permittee shall also furnish to the Administrator, upon request, copies of records required to be kept by this Permit.

PART III

III.A. OTHER REQUIREMENTS

III.A.1. Signatures, certification required on application and reporting forms.

- a. All applications, reports, or information submitted to the Administrator shall be signed and certified by making the following certification.

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- II.A.1.b. All applications, reports or other information submitted to the Administrator shall be signed by one of the following:
- i. A principal executive officer of the corporation (of at least the level of vice president) or his authorized representative who is responsible for the overall operation of the facility from which the discharge described in the application or reporting form originates; or
 - ii. A general partner of the partnership; or
 - iii. The proprietor of the sole proprietorship; or
 - iv. A principal executive officer, ranking elected official or other authorized employee of the municipal, state or other public facility.
- c. **Changes to Authorization.** If an authorization under paragraph b. of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph b. of this section must be submitted to the Administrator prior to or together with any reports, information, or applications to be signed by an authorized representative.
- III.A.2. **Holding Pond Conditions** If any wastewater from the permittee's facility is placed in ponds, such ponds shall be located and constructed so as to:
- a. contain with no discharge the once-in-the twenty-five year 24 hour storm at said location;
 - b. withstand with no discharge the once-in-one-hundred year flood of said location; and
 - c. prevent escape of wastewater by leakage other than as authorized by this permit.

ATTACHMENT A

Parameter	CAS #	1st Quarter	2nd Quarter
All data is in ppb.			
Metals			
Antimony	7440-36-0		
Arsenic	7440-38-2		
Arsenic (III)	22569-72-8		
Barium	7440-39-3		
Beryllium	7440-41-7		
Boron	7440-42-8		
Cadmium	7440-43-9		
Chromium (total)	7440-47-3		
Chromium (VI)	18540-29-9		
Chromium (III)	7440-47-3		
Copper	7440-50-8		
Cyanide (WAD)	57-12-5		
Iron	7439-89-6		
Lead	7439-92-1		
Magnesium	7439-95-4		
Manganese	7439-96-5		
Mercury	7439-97-6		
Molybdenum	7439-98-7		
Nickel	7440-02-0		
Potassium	7440-09-7		
Selenium	7782-49-2		
Silver	7440-22-4		
Sodium	7440-23-5		
Strontium	7440-24-6		
Thallium	7440-28-0		
Vanadium	7440-62-2		
Zinc	7440-66-6		
General Water Quality/Miscellaneous			

Post-it™ brand fax transmittal memo 7671	# of pages ▶
To Tony Sandigo	From SUSAN CROWLEY
Co. N.E.L.	Co. Kerr-McGee
Dept.	Phone # 651-2234
Fax # 657-1577	Fax # 651-2310

Parameter	CAS #	1st Quarter	2nd Quarter
All data is in ppb.			
pH			
ClO4			
ClO3			
TDS			
TSS			
TOC			
Total Organic Nitrogen			
Total Inorganic Nitrogen			
Ammonia	7664-41-7		
BOD			
COD			
Fluoride			
Sulfate			
Sulfide-undissociated HS-			
Total Phosphorous			
Oil and Grease			
Pesticides/Herbicides			
Aldrin	309-00-2		
Alachlor	15972-60-8		
Aldicarb	116-06-3		
Aldicarb sulfoxide	1646-87-3		
Aldicarb sulfone	1646-87-4		
Atrazine	1912-24-9		
Benzidine	92-87-5		
Carbofuran	1563-66-2		
Chlordane Alpha			
Chlordane	57-74-9		
alpha-BHC	319-84-6		
beta-BHC	319-85-7		
delta-BHC	319-86-8		

Parameter	CAS #	1st Quarter	2nd Quarter
All data is in ppb.			
2,4-D	94-75-7		
4,4' -DDT & metabolites			
4-4'-DDT	50-29-3		
4,4'-DDE	72-55-9		
4,4'-DDD	72-54-8		
Dalapon	75-99-0		
Demeton	8065-48-3		
Dicamba	1918-00-9		
Dieldrin	60-57-1		
Dinoseb	88-85-7		
Diquat	85-00-7		
Endosulfan	115-29-7		
Endosulfan I (alpha)	959-98-8		
Endosulfan II (beta)	33213-65-9		
Endosulfan Sulfate	103-10-78		
Endothall	145-73-3		
Endrin	72-20-8		
Endrin Aldehyde	742-19-34		
Di(2-ethylhexyl)adipate	103-23-1		
Guthion	86-50-0		
Heptachlor	76-44-8		
Heptachlor Epoxide	102-45-73		
Lindane(gamma BHC)	58-89-9		
Malathion	121-75-5		
MCPA	9-74-6		
MCPP	93-65-2		
Methoxychlor	74-43-5		
Mirex	2385-85-5		
Oxamyl (Vydate)	23135-22-0		
Parathion	56-38-2		

Parameter	CAS #	1st Quarter	2nd Quarter
All data is in ppb.			
Pentachlorophenol	87-86-5		
Picloram	1918-02-1		
Silvex (2,4,5-TP)	95-95-4		
Simazine	122-34-9		
2,4,5-T	93-76-5		
Toxaphene	8001-35-2		
Volatiles			
Acrolein	107-02-8		
Acrylonitrile	107-13-1		
Benzene	71-43-2		
Bromoform	75-25-2		
Chlorodibromomethane	124-48-1		
Choroethylene(vinyl chloride)	75-01-4		
Chloroform	67-66-3		
2-Chloroethylvinyl ether	110-75-8		
bis(2-chloroisopropyl) ether	108-60-1		
Dibromochloropropane	96-12-8		
m-Dichlorobenzene(1,3)	541-73-1		
o-Dichlorobenzene(1,2)	95-50-1		
p-Dichlorobenzene(1,4)	106-46-7		
Dichlorobromomethane	75-27-4		
1,2-Dichloroethane	107-06-2		
1,1-Dichloroethylene	75-35-4		
cis-1,2-Dichloroethylene	156-59-2		
trans-1,2-Dichloroethylene	156-60-5		
Dichloromethane	75-09-2		
1,2-Dichloropropane	78-87-5		
Ethylbenzene	100-41-4		
Hexachlorocyclo-pentadiene	77-47-4		
Isophorone	78-59-1		

Parameter	CAS #	1st Quarter	2nd Quarter
All data is in ppb.			
Methyl bromide	74-83-9		
Methyl Tert-butyl ether	1634-04-4		
Monochlorobenzene	108-90-7		
Nitrobenzene	98-95-3		
Styrene	100-42-5		
1,1,2,2-Tetrachloroethane	79-34-5		
Tetrachloromethane (carbon tetrachloride)	56-23-5		
Tetrachloroethylene	127-18-4		
1,1,1-Trichloroethane (TCA)	71-55-6		
1,1,2-Trichloroethane	79-00-5		
Trichloroethylene (TCE)	79-01-6		
Toluene	108-88-3		
Xylenes	1330-20-7		
Trihalomethanes	67-66-3		
Semi-Volatiles			
Anthracene	120-12-7		
Benzidine	92-87-5		
Benzo(a)anthracene	56-55-53		
Benzo(a)pyrene	50-32-8		
Benzo(b)fluoranthene	205-99-2		
Benzo(k)fluoranthene	207-08-9		
Bis(2-Chloroethyl)ether	111-44-4		
di-n-Butyl phthlate	84-74-2		
Chrysene	218-01-9		
Dibenzo(a,h)anthracene	53-07-3		
2,4-Dichlorophenol	120-83-2		
Dichloropropenes	26952-23-8		
Dinitrophenols	25550-58-7		
2,4-Dinitrotoluene	121-14-2		

Parameter	CAS #	1st Quarter	2nd Quarter
All data is in ppb.			
4,6-Dinitro-2-methylphenol			
Dibutyl phthalate	84-74-2		
3,3'-Dichlorobenzidine	91-94-1		
Diethyl phthalate	84-66-2		
Dimethyl phthalate	131-11-3		
1,2-Diphenylhydrazine	122-66-7		
di-2-Ethylhexyl phthalate	117-81-7		
Fluoranthene	206-44-0		
Fluorene	86-73-7		
Hexachlorobenzene	118-74-1		
Hexachlorobutadiene	87-68-3		
Hexachloroethane	67-72-1		
Indeno(1,2,3-cd)pyrene	193-39-5		
n-Nitrosodimethylamine	62-75-9		
n-Nitrosodiphenylamine	86-30-6		
Phenol	108-95-2		
Polychlorinated biphenyls (PCBs)			
PCB-1242	5346-92-19		
PCB-1256	1109-76-91		
PCB-1221	1110-42-82		
PCB-1232	1114-11-65		
PCB-1248	1267-22-96		
PCB-1260	1109-68-25		
PCB-1016	1267-41-12		
Pyrene	129-00-0		
Asbestos			
2,3,7,8-TCDD (Dioxin)	174-60-16		
2,4,6-trichlorophenol	88-0-62		
1,2,4-trichlorobenzene	120-82-1		

ATTACHMENT B

Facility Monitoring

Table 1. IX Operation Compliance - Analytical Data (for Permit TNEV 99106)

Composite Date	Discrete Date	Location	Composite ClO ₄ (ug/l)	BOD (mg/l)	pH	Dissolved O ₂ (mg/l)	Total P (mg/l)	Total Inorganic N (as N) (mg/l)	Nitrate (as N) (mg/l)	Ammonia (as N) (mg/l)	Un-Ionized Ammonia (as N) (mg/l)	TDS (mg/l)	TSS (mg/l)	Fecal Coliform (MPN)
		Limits	97%	25 mg/l			20 lb/d			40 lb/d			135 mg/l	
11/13/99 to 11/20/99	11/18/99	FSW DSW	68,000 ND	ND ND	8.75	9.7	0.029 0.096	5.7 1.5		ND ND	ND ND	6620 5650	ND	
11/21/99 to 11/27/99	11/24/99	FSW DSW	64,000 42	ND ND	8.82	10.1	0.036 0.11	5.6 1.6		ND ND	ND ND	5750 5550	ND	
11/28/99 to 12/4/99	12/2/99	FSW DSW	59,000 580	ND ND	8.81	10.7	0.027 0.11	5.5 2		ND ND	ND ND	5900 5340	ND	
12/5/99 to 12/11/99	12/10/99	FSW DSW	59,000 310/230	ND ND	7.56	7.3	0.038 0.026	5.6 5.8		ND ND	ND ND	5690 5250	ND	<2
12/12/99 to 12/18/99	12/17/99	FSW DSW	58,000 520	ND ND	7.5	7.4	0.03 0.03	4.8 4.9		ND ND	ND ND	5420 5320	ND	
12/19/99 to 12/25/99	12/23/99	FSW DSW	63000 570	<2 2	7.59	8.1	0.035 0.035	4.8 5.1		ND ND	ND ND	5860 4810	ND	
12/26/99 to 1/1/00	12/30/99	FSW DSW	63000 97	<2 <2	7.64	7.8	ND ND	5 5.3		ND ND	ND ND	5460 5250	ND	
1/2/00 to 1/8/00	1/7/00	FSW DSW	64000 1100	<2 <2	7.62	8.72	0.016 0.18	5 5.3		ND ND	ND ND	5540 5100	ND	
1/9/00 to 1/15/00	1/14/00	FSW DSW	65000 180	<2 <2	7.56	7.48	0.042 0.032	5.5 5.5		ND ND	ND ND	5580 5160	ND	
1/16/00 to 1/22/00	1/21/00	FSW DSW	* *	<2 <2	7.65	8.09	0.048 0.038	5.1 5.4		ND ND	ND ND	5450 5390	ND	2

Composite Date	Discrete Date	Location	Composite ClO ₄ (ug/l)	BOD (mg/l)	pH	Dissolved O ₂ (mg/l)	Total P (mg/l)	Total Inorganic N (as N) (mg/l)	Nitrate (as N) (mg/l)	Ammonia (as N) (mg/l)	Un-ionized Ammonia (as N) (mg/l)	TDS (mg/l)	Fecal Coliform (MPN)
4/9/00	4/12/00	FSW **	*										
		DSW **	*										
4/15/00													
4/16/00		FSW											
		DSW											
4/22/00													
4/23/00		FSW											
		DSW											
4/29/00													
4/30/00		FSW											
		DSW											
5/6/00													
5/7/00		FSW											
		DSW											
5/13/00													
End of Permit													

* Pending lab results from Montgomery & Watson, Pasadena, CA

** Pending lab results from NEL, Las Vegas, NV

ATTACHMENT C

**First Quarter
Wash Sampling
Analytical Data**

NEL LABORATORIES

Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: Kerr-McGee Chemical Corporation
8000 West Lake Mead Drive
Henderson, NV 89015
ATTN: Susan Crowley

PROJECT NAME: Wash-Upgradient
PROJECT NUMBER: NA

NEL ORDER ID: L9912262

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 12/21/99.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Some results have been flagged as follows:

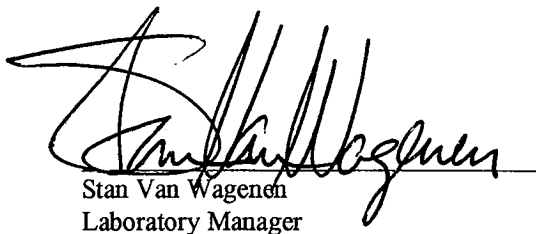
- J - This concentration should be considered an estimate due laboratory control sample failure.
- Jc - This concentration may be biased because the continuing calibration verification (CCV) standard did not meet QC requirements for this analyte. However, overall CCV standard recoveries meet method requirements and analytical results are in control.
- Je - This concentration is below reporting limit, but above method detection limit. It should be considered an approximate value.
- Jl - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Some QA results have been flagged as follows:

- C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.
- J - This concentration should be considered an estimate due laboratory control sample failure.
- Jl - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Some surrogate results have been flagged as follows:

- Sf - This surrogate was outside acceptance limits.



Stan Van Wagenen
Laboratory Manager

1/13/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California		Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605	Idaho	Certified	Certified	
California	1707	2002	2264	Montana	Certified	Certified	
US Army Corps of Engineers	Certified	Certified		Nevada	NV033	NV052	CA084
				L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA

CLIENT ID: Wash-Upgradient
 DATE SAMPLED: 12/21/99
 NEL SAMPLE ID: L9912262-01

TEST: Semi-Volatile Organic Compounds by EPA 625, July 1993

METHOD: EPA 625
 MATRIX: Aqueous
 DILUTION: 1

EXTRACTED: 12/27/99
 ANALYZED: 12/30/99
 ANALYST: JPR - Division

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acenaphthene	ND	3.0 µg/L	Hexachlorobutadiene	ND	3.0 µg/L
Acenaphthylene	ND	3.0 µg/L	Hexachloroethane	ND	3.0 µg/L
Anthracene	ND	3.0 µg/L	Hexachlorocyclopentadiene	ND	3.0 µg/L
Benzo (a) anthracene	ND	3.0 µg/L	Indeno (1,2,3-c,d) pyrene	ND	3.0 µg/L
Benzo (b&k) fluoranthene	ND	3.0 µg/L	Isophorone	ND	3.0 µg/L
Benzo (a) pyrene	ND	3.0 µg/L	4,6-Dinitro-2-methyl phenol	ND	3.0 µg/L
Benzo (g,h,i) perylene	ND	3.0 µg/L	Naphthalene	ND	3.0 µg/L
Butylbenzylphthalate	ND	3.0 µg/L	Nitrobenzene	ND	3.0 µg/L
bis (2-Chloroethyl) ether	ND	3.0 µg/L	2-Nitrophenol	ND	3.0 µg/L
bis (2-Chloroethoxy) methane	ND	3.0 µg/L	4-Nitrophenol	ND	3.0 µg/L
bis (2-chloroisopropyl) ether	ND	3.0 µg/L	N-Nitrosodi-n-propylamine	ND	3.0 µg/L
bis (2-Ethylhexyl)phthalate	ND	3.0 µg/L	N-Nitroso-Dimethylamine	ND	3.0 µg/L
4-Bromophenyl phenyl ether	ND	3.0 µg/L	N-Nitrosodiphenylamine	ND	3.0 µg/L
4-Chloro-3-methyl phenol	ND	3.0 µg/L	Pentachlorophenol	ND	3.0 µg/L
2-Chloronaphthalene	ND	3.0 µg/L	Phenol	ND	3.0 µg/L
2-Chlorophenol	ND	3.0 µg/L	Phenanthrene	ND	3.0 µg/L
4-Chlorophenyl phenyl ether	ND	3.0 µg/L	Pyrene	ND	3.0 µg/L
Chrysene	ND	3.0 µg/L	1,2,4-Trichlorobenzene	ND	3.0 µg/L
Dibenzo (a,h) anthracene	ND	3.0 µg/L	2,4,6-Trichlorophenol	ND	3.0 µg/L
Di-n-butyl phthalate	ND	3.0 µg/L			
1,2-Dichlorobenzene (o-DCB)	ND	3.0 µg/L			
1,3-Dichlorobenzene (m-DCB)	ND	3.0 µg/L			
1,4-Dichlorobenzene (p-DCB)	ND	3.0 µg/L			
2,4-Dichlorophenol	ND	3.0 µg/L			
3,3'-Dichlorobenzidine	ND	3.0 µg/L			
Diethylphthalate	ND	3.0 µg/L			
2,4-Dimethylphenol	ND	3.0 µg/L			
Dimethylphthalate	ND	3.0 µg/L			
2,4-Dinitrotoluene (DNT)	ND	3.0 µg/L			
2,6-Dinitrotoluene (DNT)	ND	3.0 µg/L			
2,4-Dinitrophenol	ND	3.0 µg/L			
Di-n-octyl phthalate	ND	3.0 µg/L			
Fluoranthene	ND	3.0 µg/L			
Fluorene	ND	3.0 µg/L			
Hexachlorobenzene	ND	3.0 µg/L			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	86	33 - 141
2-Fluorobiphenyl	87	43 - 116
2-Fluorophenol	46	21 - 100
Nitrobenzene-d5	87	35 - 114
p-Terphenyl-d14	91	33 - 141
Phenol-d5	29	10 - 94

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA
 TEST: Semi-Volatile Organic Compounds by EPA 625, July 1993
 METHOD: EPA 625
 MATRIX: Waste Water

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: 122799-E2-BLK
 ANALYST: JPR - Division
 EXTRACTED: 12/27/99
 ANALYZED: 12/30/99

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acenaphthene	ND	10 µg/L	Hexachlorobutadiene	ND	10 µg/L
Acenaphthylene	ND	10 µg/L	Hexachloroethane	ND	10 µg/L
Anthracene	ND	10 µg/L	Hexachlorocyclopentadiene	ND	10 µg/L
Benzo (a) anthracene	ND	10 µg/L	Indeno (1,2,3-c,d) pyrene	ND	10 µg/L
Benzo (b&k) fluoranthene	ND	10 µg/L	Isophorone	ND	10 µg/L
Benzo (a) pyrene	ND	10 µg/L	4,6-Dinitro-2-methyl phenol	ND	10 µg/L
Benzo (g,h,i) perylene	ND	10 µg/L	Naphthalene	ND	10 µg/L
Butylbenzylphthalate	ND	10 µg/L	Nitrobenzene	ND	10 µg/L
bis (2-Chloroethyl) ether	ND	10 µg/L	2-Nitrophenol	ND	10 µg/L
bis (2-Chloroethoxy) methane	ND	10 µg/L	4-Nitrophenol	ND	10 µg/L
bis (2-chloroisopropyl) ether	ND	10 µg/L	N-Nitrosodi-n-propylamine	ND	10 µg/L
bis (2-Ethylhexyl)phthalate	ND	10 µg/L	N-Nitroso-Dimethylamine	ND	10 µg/L
4-Bromophenyl phenyl ether	ND	50 µg/L	N-Nitrosodiphenylamine	ND	10 µg/L
4-Chloro-3-methyl phenol	ND	10 µg/L	Pentachlorophenol	ND	10 µg/L
2-Chloronaphthalene	ND	10 µg/L	Phenol	ND	10 µg/L
2-Chlorophenol	ND	10 µg/L	Phenanthrene	ND	50 µg/L
4-Chlorophenyl phenyl ether	ND	20 µg/L	Pyrene	ND	10 µg/L
Chrysene	ND	10 µg/L	1,2,4-Trichlorobenzene	ND	10 µg/L
Dibenzo (a,h) anthracene	ND	10 µg/L	2,4,6-Trichlorophenol	ND	10 µg/L
Di-n-butyl phthalate	ND	10 µg/L			
1,2-Dichlorobenzene (o-DCB)	ND	10 µg/L			
1,3-Dichlorobenzene (m-DCB)	ND	10 µg/L			
1,4-Dichlorobenzene (p-DCB)	ND	10 µg/L			
2,4-Dichlorophenol	ND	10 µg/L			
3,3'-Dichlorobenzidine	ND	10 µg/L			
Diethylphthalate	ND	10 µg/L			
2,4-Dimethylphenol	ND	10 µg/L			
Dimethylphthalate	ND	10 µg/L			
2,4-Dinitrotoluene (DNT)	ND	50 µg/L			
2,6-Dinitrotoluene (DNT)	ND	10 µg/L			
2,4-Dinitrophenol	ND	10 µg/L			
Di-n-octyl phthalate	ND	10 µg/L			
Fluoranthene	ND	10 µg/L			
Fluorene	ND	10 µg/L			
Hexachlorobenzene	ND	10 µg/L			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	66	10 - 123
2-Fluorobiphenyl	75	43 - 116
2-Fluorophenol	39	21 - 100
Nitrobenzene-d5	70	35 - 114
p-Terphenyl-d14	102	33 - 141
Phenol-d5	24	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA

CLIENT ID: Wash-Upgradient
 DATE SAMPLED: 12/21/99
 NEL SAMPLE ID: L9912262-01

TEST: Metals
 MATRIX: Aqueous

ANALYST: JTY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> LIMIT	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Antimony	ND	0.0019 mg/L	5	EPA 6020	12/29/99	12/29/99
Arsenic	0.0071	0.00055 mg/L	5	EPA 6020	12/29/99	12/29/99
Barium	0.040	0.00073 mg/L	1	EPA 6010	12/27/99	12/28/99
Beryllium	ND	0.00014 mg/L	1	EPA 6010	12/27/99	12/28/99
Boron	1.0	0.026 mg/L	1	EPA 6010	12/27/99	12/28/99
Cadmium	ND	0.00078 mg/L	1	EPA 6010	12/27/99	12/28/99
Chromium	ND	0.0021 mg/L	1	EPA 6010	12/27/99	12/28/99
Copper	0.0049	0.0023 mg/L	1	EPA 6010	12/27/99	12/28/99
Hexavalent Chromium	ND	0.002 mg/L	1	SM 3500-Cr D	12/22/99	12/22/99
Iron	0.33	0.051 mg/L	1	EPA 6010	12/27/99	12/28/99
Lead	ND	0.0032 mg/L	5	EPA 6020	12/29/99	12/29/99
Magnesium	84 JI	0.02 mg/L	1	EPA 6010	12/27/99	12/28/99
Manganese	0.049	0.0013 mg/L	1	EPA 6010	12/27/99	12/28/99
Mercury	ND	0.00006 mg/L	1	EPA 7470A	12/27/99	12/27/99
Molybdenum	0.020	0.011 mg/L	1	EPA 6010	12/27/99	12/28/99
Nickel	ND	0.0035 mg/L	1	EPA 6010	12/27/99	12/28/99
Potassium	26	0.4 mg/L	1	EPA 6010	12/27/99	12/28/99
Selenium	0.0087	0.0021 mg/L	5	EPA 6020	12/29/99	12/29/99
Silver	ND	0.0046 mg/L	1	EPA 6010	12/27/99	12/28/99
Sodium	270	2.5 mg/L	1	EPA 6010	12/27/99	12/28/99
Strontium	2.6	0.0007 mg/L	5	EPA 6020	12/29/99	12/29/99
Thallium	0.0070	0.00047 mg/L	5	EPA 6020	12/29/99	12/29/99
Vanadium	0.0063	0.0014 mg/L	1	EPA 6010	12/27/99	12/28/99
Zinc	0.055	0.0088 mg/L	1	EPA 6010	12/27/99	12/28/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Sm 3500-Cr D Hexavalent Chromium

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991222CR6'-BLK

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Hexavalent Chromium	ND	0.01 mg/L	1	SM 3500-Cr D	12/22/99	12/22/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L12262-HG-BLK

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Mercury	ND	0.0002 mg/L	1	EPA 7470A	12/27/99	12/27/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L12262i-B-BLK

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Barium	ND	0.005 mg/L	1	EPA 6010	12/27/99	12/28/99
Beryllium	ND	0.005 mg/L	1	EPA 6010	12/27/99	12/28/99
Boron	ND	0.02 mg/L	1	EPA 6010	12/27/99	12/28/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	12/27/99	12/28/99
Chromium	ND	0.01 mg/L	1	EPA 6010	12/27/99	12/28/99
Copper	ND	0.005 mg/L	1	EPA 6010	12/27/99	12/28/99
Iron	ND	0.1 mg/L	1	EPA 6010	12/27/99	12/28/99
Magnesium	ND	0.5 mg/L	1	EPA 6010	12/27/99	12/28/99
Manganese	ND	0.005 mg/L	1	EPA 6010	12/27/99	12/28/99
Molybdenum	ND	0.01 mg/L	1	EPA 6010	12/27/99	12/28/99
Nickel	ND	0.04 mg/L	1	EPA 6010	12/27/99	12/28/99
Potassium	ND	2. mg/L	1	EPA 6010	12/27/99	12/28/99
Silver	ND	0.02 mg/L	1	EPA 6010	12/27/99	12/28/99
Sodium	ND	0.5 mg/L	1	EPA 6010	12/27/99	12/28/99
Vanadium	ND	0.005 mg/L	1	EPA 6010	12/27/99	12/28/99
Zinc	ND	0.1 mg/L	1	EPA 6010	12/27/99	12/28/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L12262M-BLK

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> LIMIT	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Antimony	ND	0.005 mg/L	5	EPA 6020	12/29/99	12/29/99
Arsenic	ND	0.005 mg/L	5	EPA 6020	12/29/99	12/29/99
Lead	ND	0.005 mg/L	5	EPA 6020	12/29/99	12/29/99
Selenium	ND	0.005 mg/L	5	EPA 6020	12/29/99	12/29/99
Strontium	ND	0.0005 mg/L	5	EPA 6020	12/29/99	12/29/99
Thallium	ND	0.0025 mg/L	5	EPA 6020	12/29/99	12/29/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA

CLIENT ID: Wash-Upgradient
 DATE SAMPLED: 12/21/99
 NEL SAMPLE ID: L9912262-01

TEST: Inorganic Non-Metals
 MATRIX: Aqueous

PARAMETER	RESULT	REPORTING		D. F.	METHOD	UNITS	ANALYZED
			LIMIT				
Ammonia, as N	0.11	Je	0.098	1	SM 4500-NH3 B/E	mg/L-N	12/29/99
Biochemical Oxygen Demand (ND		5.	1	SM5210B	mg/L	12/23/99
COD	23		1.7	1	SM 5520 D	mg/L	12/28/99
Cyanide, TOTAL	ND		0.0064	1	SM 4500-CN E	mg/L	12/27/99
MBAS	0.054		0.0039	1	SM 5540 C	mg/L	12/22/99
Nitrate/Nitrite as N, Total	13		0.063	20	SM 4500-NO3 F	mg/L-N	12/30/99
Oil & Grease	7.0		1.5	1	EPA 413.1	mg/L	12/29/99
Sulfide	0.014	Je	0.011	1	SM 4500-S D	mg/L	12/27/99
TKN (Total Kjeldahl Nitrogen)	0.42		0.025	1	SM 4500-N C/NH3 E	mg/L-N	12/29/99
Total Nitrogen	13		0.3	1	Calculated	mg/L-N	12/30/99
Total Phosphorus	0.36		0.0085	1	SM 4500-P E	mg/L-P	12/27/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991222MBAS2-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
MBAS	ND	0.02	1	SM 5540 C	mg/L	12/22/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991227CN-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Cyanide, TOTAL	ND	0.02	1	SM 4500-CN E	mg/L	12/27/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991227OGW-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Oil & Grease	ND	2	1	EPA 413.1	mg/L	12/29/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991227SULF-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Sulfide	ND	0.03	1	SM 4500-S D	mg/L	12/27/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991227TP-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Total Phosphorus	ND	0.01	1	SM 4500-P E	mg/L-P	12/27/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991228COD-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
COD	ND	10	1	SM 5520 D	mg/L	12/28/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991229NH3-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Ammonia, as N	ND	0.3	1	SM 4500-NH3 B/E	mg/L-N	12/29/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991229TKN-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
TKN (Total Kjeldahl Nitrogen)	ND	0.3	1	SM 4500-N C/NH3 E	mg/L-N	12/29/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation CLIENT ID: Method Blank
PROJECT ID: Wash-Upgradient DATE SAMPLED: NA
PROJECT #: NA NEL SAMPLE ID: 991230NO2NO3D-BLK
TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Nitrate/Nitrite as N, Total	ND	0.05	1	SM 4500-NO3 F	mg/L-N	12/30/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA

CLIENT ID: Wash-Upgradient
 DATE SAMPLED: 12/21/99
 NEL SAMPLE ID: L9912262-01

TEST: Organochlorine Pesticides and PCB's by EPA 608, July 1993

METHOD: EPA 608
 MATRIX: Aqueous
 DILUTION: 1

ANALYST: JRW - Las Vegas Division
 EXTRACTED: 12/27/99
 ANALYZED: 12/30/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aldrin	ND	0.033 µg/L
alpha-BHC	ND	0.016 µg/L
beta-BHC	ND	0.017 µg/L
delta-BHC	ND	0.012 µg/L
Heptachlor	ND	0.028 µg/L
Chlordane	ND	0.1 µg/L
4,4-DDD	ND	0.016 µg/L
4,4-DDE	ND	0.011 µg/L
4,4-DDT	ND	0.019 µg/L
Dieldrin	0.014 Je µg/L	0.013 µg/L
Endosulfan I	ND	0.016 µg/L
Endosulfan II	ND Jc	0.011 µg/L
Endosulfan sulfate	ND	0.087 µg/L
Endrin	0.038 Je µg/L	0.014 µg/L
Endrin aldehyde	ND	0.010 µg/L
Heptachlor epoxide	ND	0.011 µg/L
gamma-BHC (Lindane)	ND	0.017 µg/L
Methoxychlor	ND Jc	0.041 µg/L
Toxaphene	ND	0.1 µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	78	56 - 155
Tetrachloro-m-xylene	96	48 - 136

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA

CLIENT ID: Wash-Upgradient
 DATE SAMPLED: 12/21/99
 NEL SAMPLE ID: L9912262-01

TEST: Organophosphorous Pesticides by EPA 614
 METHOD: EPA 614
 MATRIX: Aqueous
 DILUTION: 1

ANALYST: LLS - Reno Division
 EXTRACTED: 12/23/99
 ANALYZED: 12/30/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Demeton	ND	0.3 µg/L
Diazinon	ND	0.3 µg/L
Disulfoton	ND	0.3 µg/L
Ethion	ND	0.3 µg/L
Ethyl Parathion	ND	0.3 µg/L
Guthion (Azinphos Methyl)	ND	0.3 µg/L
Malathion	ND	0.3 µg/L
Methyl Parathion	ND	0.3 µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>		<u>Acceptable Range</u>
Tributylphosphate	75		65 - 135
Triphenylphosphate	64	Sf	65 - 135

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA

CLIENT ID: Wash-Upgradient
 DATE SAMPLED: 12/21/99
 NEL SAMPLE ID: L9912262-01

TEST: Purgeable Organic Compounds by EPA 624, July 1998
 METHOD: EPA 624
 MATRIX: Aqueous
 DILUTION: 1

ANALYST: BJV - Las Vegas Division
 EXTRACTED: 1/3/00
 ANALYZED: 1/3/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	0.5 µg/L
Bromodichloromethane	0.78 Je µg/L	0.61 µg/L
Bromoform	ND	2.3 µg/L
Bromomethane	ND	0.5 µg/L
Carbon tetrachloride	ND	0.5 µg/L
Chlorobenzene	ND	0.5 µg/L
Chloroethane	ND	0.5 µg/L
Chloroform	ND	0.5 µg/L
Chloromethane	ND	0.84 µg/L
Dibromochloromethane	ND	1.45 µg/L
cis-1,2-Dichloroethene	ND	0.5 µg/L
1,2-Dichlorobenzene (o-DCB)	ND	0.5 µg/L
1,3-Dichlorobenzene (m-DCB)	ND	0.5 µg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.5 µg/L
1,1-Dichloroethane (1,1-DCA)	ND	0.5 µg/L
1,2-Dichloroethane (1,2-DCA)	ND	1.3 µg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.68 µg/L
trans-1,2-Dichloroethene	ND	0.5 µg/L
1,2-Dichloropropane	ND	0.5 µg/L
cis-1,3-Dichloropropene	ND	0.64 µg/L
trans-1,3-Dichloropropene	ND	2.0 µg/L
Ethylbenzene	ND	0.5 µg/L
Methylene chloride (Dichloromethane)	ND	1.2 µg/L
MTBE	ND	4.0 µg/L
Styrene	ND	0.54 µg/L
1,1,2,2-Tetrachloroethane	ND	2.7 µg/L
Tetrachloroethene (PCE)	ND	0.52 µg/L
Toluene	ND	0.5 µg/L
1,1,1-Trichloroethane (1,1,1-TCA)	ND	0.7 µg/L
1,1,2-Trichloroethane (1,1,2-TCA)	ND	2.0 µg/L
Trichloroethene (TCE)	ND	0.5 µg/L
Trichlorofluoromethane (Freon 11)	ND	2.7 µg/L
Vinyl chloride	ND	0.5 µg/L
m,p-Xylene	ND	0.89 µg/L
o-Xylene	ND	0.5 µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	94	86 - 115
Dibromofluoromethane	96	86 - 118
Toluene-d8	97	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Kerr-McGee Chemical Corporation	CLIENT ID:	Method Blank
PROJECT ID:	Wash-Upgradient	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000103AQ24-BLK
TEST:	Purgeable Organic Compounds by EPA 624, July 1998		
METHOD:	EPA 624	ANALYST:	BJV - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	1/3/00
		ANALYZED:	1/3/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	5. µg/L
Bromodichloromethane	ND	5. µg/L
Bromoforn	ND	5. µg/L
Bromomethane	ND	5. µg/L
Carbon tetrachloride	ND	5. µg/L
Chlorobenzene	ND	5. µg/L
Chloroethane	ND	5. µg/L
Chloroform	ND	5. µg/L
Chloromethane	ND	5. µg/L
Dibromochloromethane	ND	5. µg/L
cis-1,2-Dichloroethene	ND	5. µg/L
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/L
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/L
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/L
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/L
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/L
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/L
trans-1,2-Dichloroethene	ND	5. µg/L
1,2-Dichloropropane	ND	5. µg/L
cis-1,3-Dichloropropene	ND	5. µg/L
trans-1,3-Dichloropropene	ND	5. µg/L
Ethylbenzene	ND	5. µg/L
MTBE	ND	5. µg/L
Methylene chloride (Dichloromethane)	ND	5. µg/L
Styrene	ND	5. µg/L
1,1,2,2-Tetrachloroethane	ND	5. µg/L
Tetrachloroethene (PCE)	ND	5. µg/L
Toluene	ND	5. µg/L
1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/L
1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/L
Trichloroethene (TCE)	ND	5. µg/L
Trichlorofluoromethane (Freon 11)	ND	10. µg/L
Vinyl chloride	ND	5. µg/L
m,p-Xylene	ND	5. µg/L
o-Xylene	ND	5. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	90	86 - 115
Dibromofluoromethane	96	86 - 118
Toluene-d8	96	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA

CLIENT ID: **Method Blank**
 DATE SAMPLED: NA
 NEL SAMPLE ID: 122399-E1.614-BLK

TEST: **Organophosphorous Pesticides by EPA 614**
 METHOD: EPA 614
 MATRIX: Aqueous

ANALYST: LLS - Reno Division
 EXTRACTED: 12/23/99
 ANALYZED: 12/30/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Demeton	ND	4. µg/L
Diazinon	ND	4. µg/L
Disulfoton	ND	4. µg/L
Ethion	ND	1. µg/L
Ethyl Parathion	ND	1. µg/L
Guthion (Azinphos Methyl)	ND	4. µg/L
Malathion	ND	2. µg/L
Methyl Parathion	ND	1. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Tributylphosphate	72	65 - 135
Triphenylphosphate	62 Sf	65 - 135

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: 991227PSTW-BLK

TEST: Organochlorine Pesticides and PCB's by EPA 608, July 1993
 METHOD: EPA 608
 MATRIX: Aqueous

ANALYST: JRW - Las Vegas Division
 EXTRACTED: 12/27/99
 ANALYZED: 12/30/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aldrin	ND	0.1 µg/L
alpha-BHC	ND	0.1 µg/L
beta-BHC	ND	0.1 µg/L
delta-BHC	ND	0.1 µg/L
Heptachlor	ND	0.1 µg/L
Chlordane	ND	0.5 µg/L
4,4-DDD	ND	0.1 µg/L
4,4-DDE	ND	0.1 µg/L
4,4-DDT	ND	0.1 µg/L
Dieldrin	ND	0.1 µg/L
Endosulfan I	ND	0.1 µg/L
Endosulfan II	ND	0.1 µg/L
Endosulfan sulfate	ND	0.1 µg/L
Endrin	ND	0.1 µg/L
Endrin aldehyde	ND	0.1 µg/L
Heptachlor epoxide	ND	0.1 µg/L
gamma-BHC (Lindane)	ND	0.1 µg/L
Methoxychlor	ND	0.5 µg/L
Toxaphene	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	56	56 - 155
Tetrachloro-m-xylene	100	48 - 136

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA
 TEST: Semi-Volatile Organic Compounds by EPA 625, July 1993
 MATRIX: Waste Water

PARAMETER	NEL Sample ID	Spike	Spike	Percent	Acceptable	RPD
		Amount	Result	Recovery	Range	
N-Nitroso-Dimethylamine	122799-E2-LCS	100	59.67	60	40 - 60	
N-Nitroso-Dimethylamine	L9912262-01-MS	100	61.09	61	20 - 59	
bis (2-chloroisopropyl) ether	122799-E2-LCS	100	86.62	87	53 - 81	
bis (2-chloroisopropyl) ether	L9912262-01-MS	100	79.83	80	27 - 101	
bis (2-Chloroethyl) ether	122799-E2-LCS	100	76.83	77	50 - 93	
bis (2-Chloroethyl) ether	L9912262-01-MS	100	71.8	72	33 - 99	
Phenol	122799-E2-LCS	100	40.88	41	29 - 44	
Phenol	L9912262-01-MS	100	37.43	37	15 - 44	
2-Chlorophenol	122799-E2-LCS	100	84.31	84	48 - 82	
2-Chlorophenol	122799-E2-LCSD	100	78.73	79	48 - 82	6.8
2-Chlorophenol	L9912262-01-MS	100	77.24	77	34 - 92	
1,3-Dichlorobenzene (m-DCB)	122799-E2-LCS	100	71.99	72	47 - 92	
1,3-Dichlorobenzene (m-DCB)	L9912262-01-MS	100	61.43	61	24 - 97	
1,4-Dichlorobenzene (p-DCB)	122799-E2-LCS	100	74.08	74	52 - 89	
1,4-Dichlorobenzene (p-DCB)	L9912262-01-MS	100	64.59	65	23 - 96	
1,2-Dichlorobenzene (o-DCB)	122799-E2-LCS	100	74.12	74	54 - 89	
1,2-Dichlorobenzene (o-DCB)	L9912262-01-MS	100	65.16	65	25 - 97	
N-Nitrosodi-n-propylamine	122799-E2-LCS	100	86.73	87	65 - 95	
N-Nitrosodi-n-propylamine	L9912262-01-MS	100	83.23	83	65 - 95	
Hexachloroethane	122799-E2-LCS	100	75.13	75	50 - 93	
Hexachloroethane	L9912262-01-MS	100	68.25	68	17 - 99	
Nitrobenzene	122799-E2-LCS	100	88.49	88	67 - 90	
Nitrobenzene	L9912262-01-MS	100	89.15	89	40 - 110	
Isophorone	122799-E2-LCS	100	82.88	83	49 - 106	
Isophorone	L9912262-01-MS	100	81.2	81	35 - 103	
Naphthalene	122799-E2-LCS	100	92.13	92	56 - 91	
Naphthalene	122799-E2-LCSD	100	86.85	87	56 - 91	5.9
Naphthalene	L9912262-01-MS	100	85.34	85	26 - 101	
2-Nitrophenol	122799-E2-LCS	100	82.3	82	55 - 91	
2-Nitrophenol	L9912262-01-MS	100	78.43	78	35 - 93	
2,4-Dimethylphenol	122799-E2-LCS	100	79.22	79	31 - 111	
2,4-Dimethylphenol	L9912262-01-MS	100	82.02	82	5 - 110	
bis (2-Chloroethoxy) methane	122799-E2-LCS	100	97.59	98	51 - 99	
bis (2-Chloroethoxy) methane	L9912262-01-MS	100	90.62	91	31 - 104	
2,4-Dichlorophenol	122799-E2-LCS	100	93.78	94	42 - 99	
2,4-Dichlorophenol	L9912262-01-MS	100	90.97	91	37 - 90	
1,2,4-Trichlorobenzene	122799-E2-LCS	100	80.25	80	53 - 94	
1,2,4-Trichlorobenzene	L9912262-01-MS	100	72.64	73	23 - 100	

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA
 TEST: Semi-Volatile Organic Compounds by EPA 625, July 1993
 MATRIX: Waste Water

PARAMETER	NEL Sample ID	Spike	Spike	Percent	Acceptable	RPD
		Amount	Result	Recovery	Range	
Hexachlorobutadiene	122799-E2-LCS	100	68.22	68	55 - 94	
Hexachlorobutadiene	L9912262-01-MS	100	60.32	60	18 - 100	
4-Chloro-3-methyl phenol	122799-E2-LCS	100	105.42	105 J	49 - 100	
4-Chloro-3-methyl phenol	122799-E2-LCSD	100	103.92	104 J	49 - 100	1.4
4-Chloro-3-methyl phenol	L9912262-01-MS	100	105.22	105 JI	37 - 98	
Hexachlorocyclopentadiene	122799-E2-LCS	100	27.17	27	5 - 61	
Hexachlorocyclopentadiene	L9912262-01-MS	100	41.53	42	5 - 50	
2,4,6-Trichlorophenol	122799-E2-LCS	100	83.08	83	51 - 100	
2,4,6-Trichlorophenol	L9912262-01-MS	100	83.02	83	45 - 88	
Acenaphthene	122799-E2-LCS	100	92.32	92	52 - 99	
Acenaphthene	L9912262-01-MS	100	94.51	95	10 - 110	
Dimethylphthalate	122799-E2-LCS	100	84.72	85	5 - 50	
Dimethylphthalate	L9912262-01-MS	100	86.62	87	5 - 73	
Acenaphthylene	122799-E2-LCS	100	91.43	91	46 - 107	
Acenaphthylene	L9912262-01-MS	100	92.48	92	17 - 108	
2,6-Dinitrotoluene (DNT)	122799-E2-LCS	100	86.99	87	42 - 117	
2,6-Dinitrotoluene (DNT)	L9912262-01-MS	100	91.25	91	35 - 111	
2,4-Dinitrotoluene (DNT)	122799-E2-LCS	100	90.17	90	28 - 131	
2,4-Dinitrotoluene (DNT)	L9912262-01-MS	100	92.09	92	30 - 110	
2,4-Dinitrophenol	122799-E2-LCS	100	69.63	70	6 - 103	
2,4-Dinitrophenol	L9912262-01-MS	100	85.02	85	5 - 110	
Fluorene	122799-E2-LCS	100	74.27	74	43 - 112	
Fluorene	L9912262-01-MS	100	75.38	75	17 - 109	
4-Nitrophenol	122799-E2-LCS	100	43.63	44	14 - 53	
4-Nitrophenol	L9912262-01-MS	100	50.88	51	45 - 99	
Diethylphthalate	122799-E2-LCS	100	98.99	99	5 - 80	
Diethylphthalate	L9912262-01-MS	100	99.29	99	5 - 92	
4-Chlorophenyl phenyl ether	122799-E2-LCS	100	100.08	100	49 - 117	
4-Chlorophenyl phenyl ether	L9912262-01-MS	100	100.23	100 JI	6 - 99	
N-Nitrosodiphenylamine	122799-E2-LCS	100	88.68	89	42 - 109	
N-Nitrosodiphenylamine	L9912262-01-MS	100	89.83	90	22 - 108	
4,6-Dinitro-2-methyl phenol	122799-E2-LCS	100	76.4	76	9 - 113	
4,6-Dinitro-2-methyl phenol	L9912262-01-MS	100	89.45	89	5 - 118	
4-Bromophenyl phenyl ether	122799-E2-LCS	100	95.26	95	53 - 117	
4-Bromophenyl phenyl ether	L9912262-01-MS	100	94.95	95	24 - 113	
Hexachlorobenzene	122799-E2-LCS	100	81.33	81	53 - 114	
Hexachlorobenzene	L9912262-01-MS	100	82.25	82	24 - 111	
Di-n-butyl phthalate	122799-E2-LCS	100	82.33	82	44 - 103	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA
 TEST: Semi-Volatile Organic Compounds by EPA 625, July 1993
 MATRIX: Waste Water

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Di-n-butyl phthalate	L9912262-01-MS	100	82.93	83	12 - 113	
Pentachlorophenol	122799-E2-LCS	100	86.09	86	18 - 104	
Pentachlorophenol	L9912262-01-MS	100	94.35	94	5 - 107	
Phenanthrene	122799-E2-LCS	100	92.99	93	56 - 104	
Phenanthrene	L9912262-01-MS	100	96.78	97	25 - 112	
Anthracene	122799-E2-LCS	100	95.3	95	47 - 106	
Anthracene	L9912262-01-MS	100	96	96	20 - 111	
Fluoranthene	122799-E2-LCS	100	91.16	91	52 - 104	
Fluoranthene	L9912262-01-MS	100	89.62	90	17 - 118	
Pyrene	122799-E2-LCS	100	97.55	98	51 - 105	
Pyrene	L9912262-01-MS	100	98.89	99	18 - 119	
Butylbenzylphthalate	122799-E2-LCS	100	109.1	109	40 - 111	
Butylbenzylphthalate	L9912262-01-MS	100	105.32	105	10 - 115	
Benzo (a) anthracene	122799-E2-LCS	100	101.25	101	48 - 110	
Benzo (a) anthracene	L9912262-01-MS	100	101.2	101	18 - 111	
Chrysene	122799-E2-LCS	100	96.77	97	51 - 109	
Chrysene	L9912262-01-MS	100	97.52	98	21 - 114	
3,3'-Dichlorobenzidine	122799-E2-LCS	100	62.56	63	27 - 119	
3,3'-Dichlorobenzidine	L9912262-01-MS	100	62.17	62	5 - 74	
bis (2-Ethylhexyl)phthalate	122799-E2-LCS	100	95.27	95	47 - 122	
bis (2-Ethylhexyl)phthalate	L9912262-01-MS	100	98.2	98	17 - 128	
Di-n-octyl phthalate	122799-E2-LCS	100	96.8	97	47 - 120	
Di-n-octyl phthalate	L9912262-01-MS	100	104.56	105	11 - 112	
Benzo (b&k) fluoranthene	122799-E2-LCS	200	236.65	118	39 - 135	
Benzo (b&k) fluoranthene	L9912262-01-MS	200	217.77	109	32 - 138	
Benzo (a) pyrene	122799-E2-LCS	100	110.94	111	49 - 126	
Benzo (a) pyrene	L9912262-01-MS	100	110.86	111	25 - 110	Jl
Indeno (1,2,3-c,d) pyrene	122799-E2-LCS	100	88	88	59 - 103	
Indeno (1,2,3-c,d) pyrene	L9912262-01-MS	100	104.84	105	24 - 108	
Dibenzo (a,h) anthracene	122799-E2-LCS	100	88.67	89	59 - 103	
Dibenzo (a,h) anthracene	L9912262-01-MS	100	103.42	103	25 - 110	
Benzo (g,h,i) perylene	122799-E2-LCS	100	86.53	87	53 - 105	
Benzo (g,h,i) perylene	L9912262-01-MS	100	105.94	106	20 - 114	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Hexavalent Chromium	991222CR6'-LCS	0.4	0.398	100	85 - 115	
Hexavalent Chromium	L9912262-01-MS	0.4	0.39	98	80 - 120	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
MBAS	991222MBAS2-LCS	0.1	0.09	90	80 - 120	
MBAS	L9912262-01-MS	0.1	0.148	94	69 - 119	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Drinking Water

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Cyanide, TOTAL	991227CN-LCS	0.1	0.091	91	80 - 120	
Cyanide, TOTAL	991227CN-LCSD	0.1	0.103	103	80 - 120	12.4
Cyanide, TOTAL	L9912214-01-MS	0.1	0.104	104	80 - 120	
Cyanide, TOTAL	L9912214-01-MSD	0.1	0.098	98	80 - 120	5.9

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Oil & Grease	991227OGW-LCS	100	89	89	80 - 120	
Oil & Grease	991227OGW-LCSD	100	102	102	80 - 120	13.6

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA
 TEST: Organochlorine Pesticides and PCB's by EPA 608, July 1993
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Aldrin	991227PSTW-LCS	1	0.82	82	42 - 122	
Aldrin	991227PSTW-LCSD	1	0.78	78	42 - 122	5.
alpha-BHC	991227PSTW-LCS	1	0.84	84	37 - 134	
alpha-BHC	991227PSTW-LCSD	1	0.8	80	37 - 134	4.9
beta-BHC	991227PSTW-LCS	1	0.86	86	17 - 147	
beta-BHC	991227PSTW-LCSD	1	0.78	78	17 - 147	9.8
delta-BHC	991227PSTW-LCS	1	0.84	84	19 - 140	
delta-BHC	991227PSTW-LCSD	1	0.8	80	19 - 140	4.9
Heptachlor	991227PSTW-LCS	1	0.94	94	34 - 111	
Heptachlor	991227PSTW-LCSD	1	0.9	90	34 - 111	4.3
4,4-DDD	991227PSTW-LCS	1	1.1	110	31 - 141	
4,4-DDD	991227PSTW-LCSD	1	1.08	108	31 - 141	1.8
4,4-DDE	991227PSTW-LCS	1	1.08	108	30 - 145	
4,4-DDE	991227PSTW-LCSD	1	1.06	106	30 - 145	1.9
4,4-DDT	991227PSTW-LCS	1	1.06	106	25 - 160	
Dieldrin	991227PSTW-LCS	1	0.94	94	36 - 146	
Dieldrin	991227PSTW-LCSD	1	0.9	90	36 - 146	4.3
Endosulfan I	991227PSTW-LCS	1	0.78	78	45 - 153	
Endosulfan I	991227PSTW-LCSD	1	0.74	74	45 - 153	5.3
Endosulfan II	991227PSTW-LCS	1	0.92	92	0.5 - 202	
Endosulfan II	991227PSTW-LCSD	1	1.08	108	0.5 - 202	16.
Endosulfan sulfate	991227PSTW-LCS	1	0.98	98	26 - 144	
Endosulfan sulfate	991227PSTW-LCSD	1	0.98	98	26 - 144	0.
Endrin	991227PSTW-LCS	1	0.96	96	30 - 147	
Endrin	991227PSTW-LCSD	1	0.94	94	30 - 147	2.1
Endrin aldehyde	991227PSTW-LCS	1	1.54	154	80 - 160	
Endrin aldehyde	991227PSTW-LCSD	1	1.5	150	80 - 160	2.6
Heptachlor epoxide	991227PSTW-LCS	1	0.84	84	37 - 142	
Heptachlor epoxide	991227PSTW-LCSD	1	0.82	82	37 - 142	2.4
gamma-BHC (Lindane)	991227PSTW-LCS	1	0.8	80	32 - 127	
gamma-BHC (Lindane)	991227PSTW-LCSD	1	0.76	76	32 - 127	5.1
Methoxychlor	991227PSTW-LCS	1	1.4	140	70 - 145	
Methoxychlor	991227PSTW-LCSD	1	1.56	156 J	70 - 145	10.8

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Waste Water

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Sulfide	991227SULF-LCS	0.107	0.102	96	85 - 115	
Sulfide	991227SULF-LCSD	0.107	0.104	97	85 - 115	1.9
Sulfide	P9912084-08-MS	0.107	0.05	47 JI	80 - 120	
Sulfide	P9912084-08-MSD	0.107	0.016	15 JI	80 - 120	103.

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Total Phosphorus	991227TP-LCS	0.25	0.24	96	80 - 120	
Total Phosphorus	L9912262-01-MS	0.25	0.609	100	80 - 120	
Total Phosphorus	L9912262-01-MSD	0.25	0.612	101	80 - 120	1.2

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
COD	991228COD-LCS	500	456	91	85 - 115	
COD	L9912198-01-MS	500	359	64 JI	80 - 120	
COD	L9912198-01-MSD	500	355	63 JI	80 - 120	1.3

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Ammonia, as N	991229NH3-LCS	1	1.008	101	85 - 115	
Ammonia, as N	L9912229-07-MS	1	1.14	114	80 - 120	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
TKN (Total Kjeldahl Nitrogen)	991229TKN-LCS	1.25	1.3	104	70 - 130	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA
 TEST: Metals
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Barium	L12262i-B-LCS	1	1.01	101	85 - 115	
Barium	L9912262-01-MS	1	1.05	101	75 - 125	
Barium	L9912262-01-MSD	1	1.05	101	75 - 125	0.
Beryllium	L12262i-B-LCS	0.1	0.103	103	85 - 115	
Beryllium	L9912262-01-MS	0.1	0.0988	99	75 - 125	
Beryllium	L9912262-01-MSD	0.1	0.0986	99	75 - 125	0.2
Boron	L12262i-B-LCS	1	1.05	105	85 - 115	
Boron	L9912262-01-MS	1	1.79	79	75 - 125	
Boron	L9912262-01-MSD	1	1.81	81	75 - 125	2.5
Cadmium	L12262i-B-LCS	0.2	0.208	104	85 - 115	
Cadmium	L9912262-01-MS	0.2	0.214	107	75 - 125	
Cadmium	L9912262-01-MSD	0.2	0.211	106	75 - 125	1.4
Chromium	L12262i-B-LCS	0.5	0.521	104	85 - 115	
Chromium	L9912262-01-MS	0.5	0.508	102	75 - 125	
Chromium	L9912262-01-MSD	0.5	0.504	101	75 - 125	0.8
Copper	L12262i-B-LCS	0.5	0.511	102	85 - 115	
Copper	L9912262-01-MS	0.5	0.528	106	75 - 125	
Copper	L9912262-01-MSD	0.5	0.526	105	75 - 125	0.4
Iron	L12262i-B-LCS	1	1.04	104	85 - 115	
Iron	L9912262-01-MS	1	1.28	95	75 - 125	
Iron	L9912262-01-MSD	1	1.28	95	75 - 125	0.
Magnesium	L12262i-B-LCS	20	20.6	103	85 - 115	
Magnesium	L9912262-01-MS	20	107	115	75 - 125	
Magnesium	L9912262-01-MSD	20	112	140 #	75 - 125	19.6
Manganese	L12262i-B-LCS	0.5	0.518	104	85 - 115	
Manganese	L9912262-01-MS	0.5	0.522	95	75 - 125	
Manganese	L9912262-01-MSD	0.5	0.551	100	75 - 125	5.9
Molybdenum	L12262i-B-LCS	0.1	0.1	100	85 - 115	
Molybdenum	L9912262-01-MS	0.1	0.116	96	75 - 125	
Molybdenum	L9912262-01-MSD	0.1	0.119	99	75 - 125	3.1
Nickel	L12262i-B-LCS	1	1.05	105	85 - 115	
Nickel	L9912262-01-MS	1	1	100	75 - 125	
Nickel	L9912262-01-MSD	1	0.996	100	75 - 125	0.4
Potassium	L12262i-B-LCS	20	20.3	102	85 - 115	
Potassium	L9912262-01-MS	20	47.8	109	75 - 125	
Potassium	L9912262-01-MSD	20	49.3	116	75 - 125	6.7
Silver	L12262i-B-LCS	0.5	0.496	99	85 - 115	
Silver	L9912262-01-MS	0.5	0.469	94	75 - 125	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash-Upgradient
 PROJECT #: NA
 TEST: Metals
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Silver	L9912262-01-MSD	0.5	0.477	95	75 - 125	1.7
Sodium	L12262i-B-LCS	20	20.6	103	85 - 115	
Sodium	L9912262-01-MS	20	297	135 C	75 - 125	
Sodium	L9912262-01-MSD	20	313	215 C	75 - 125	45.7
Vanadium	L12262i-B-LCS	0.5	0.504	101	85 - 115	
Vanadium	L9912262-01-MS	0.5	0.509	101	75 - 125	
Vanadium	L9912262-01-MSD	0.5	0.506	100	75 - 125	0.6
Zinc	L12262i-B-LCS	0.5	0.523	105	85 - 115	
Zinc	L9912262-01-MS	0.5	0.564	113	75 - 125	
Zinc	L9912262-01-MSD	0.5	0.563	113	75 - 125	0.2

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash-Upgradient
PROJECT #: NA
TEST: Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Antimony	L12262M-LCS	0.05	0.0497	99	85 - 115	
Antimony	L9912262-01-MS	0.05	0.0527	105	75 - 125	
Antimony	L9912262-01-MSD	0.05	0.0535	107	75 - 125	1.5
Arsenic	L12262M-LCS	0.1	0.0947	95	85 - 115	
Arsenic	L9912262-01-MS	0.1	0.107	100	75 - 125	
Arsenic	L9912262-01-MSD	0.1	0.107	100	75 - 125	0.
Lead	L12262M-LCS	0.05	0.0475	95	85 - 115	
Lead	L9912262-01-MS	0.05	0.0467	93	75 - 125	
Lead	L9912262-01-MSD	0.05	0.0477	95	75 - 125	2.1
Selenium	L12262M-LCS	0.1	0.0996	100	85 - 115	
Selenium	L9912262-01-MS	0.1	0.108	99	75 - 125	
Selenium	L9912262-01-MSD	0.1	0.109	100	75 - 125	1.
Thallium	L12262M-LCS	0.05	0.0497	99	85 - 115	
Thallium	L9912262-01-MS	0.05	0.0486	97	75 - 125	
Thallium	L9912262-01-MSD	0.05	0.0502	100	75 - 125	3.2

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

January 4, 2000

ELAP No.: 1838

NEL Laboratories
4208 Arcata Way, Ste.A
Las Vegas, NV 89030

ATTN: Mike Empey

Client's Project: #L9912262
Lab No.: 40594-001

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562) 989 - 4045 if I can be of further assistance to your company.

Sincerely,



Cheryl De Los Reyes
Technical Operations Manager
CDR/jh

Enclosures

This cover letter is an integral part of this analytical report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.





Spike Recovery and RPD Summary Report

Method: EPA 377.1 Date: 12/27/99
 Analyst: NS Sample ID: BLANK
 Data File: 9361-1W Matrix: WATER

QC Batch 377.1_991227W-1

ANALYTE	UNITS	LCS Conc	LCS Res	% Rec	METH BLANK	SPL CONC	SPK ADDED	MS RESULT	MSD RESULT	%MSD_REC	%REC_LIMIT	RPD	RPD Limit	MDL
SULFITE	mg/L	N/A	N/A	N/A	ND	ND	20	19	19	95	80 - 120	0	20	1.0

Approved by:  Cheryl De Los Reyes
 Technical Operations Manager Date: 1/10/00

Cover Letter

01/05/2000

Mike Empey
NEL Laboratories, Las Vegas
4208 Arcata Way, Ste A
Las Vegas, NV 89030

BSK Submission Number: 1999120773

Dear Mike Empey:

BSK Analytical Laboratories adheres to a quality assurance plan that has been approved by the State of California Department of Health Services. Our Environmental Laboratory Accreditation Program (ELAP) certification number is 1180.

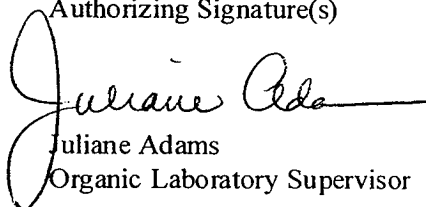
BSK Analytical Laboratories has prepared this certificate of analysis in response to your request for analytical services. All information was taken from your Chain of Custody or related correspondence. BSK completed all sample handling and analytical procedures within the Laboratory's standard acceptability criteria with any exceptions noted below.

If additional clarification of any information is required, please contact our Client Services Department at (800)877-8310 or (559)497-2888.

Sincerely,

BSK Analytical Laboratories

Authorizing Signature(s)


Juliane Adams
Organic Laboratory Supervisor

Ko Yang
Inorganic Laboratory Supervisor

Cynthia Pigman
QA/QC Supervisor

Mike Empey
NEL Laboratories, Las Vegas
4208 Arcata Way, Ste A
Las Vegas, NV 89030

Certificate of Analysis

Report Issue Date: 01/05/2000

BSK Submission #: 1999120773

BSK Sample ID #: 17628

Project ID: L9912262

Project Desc:

Submission Comments:

Sample Type: Liquid

Date Sampled: 12/21/1999

Sample Description: Wash - Upgradient

Time Sampled:

Sample Comments:

Date Received: 12/23/1999

Organics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date	Analysis Date
2,4,5-T	EPA 615	ND	µg/L	0.02	1	0.02	12/27/1999	01/02/2000
2,4,5-TP (Silvex)	EPA 615	ND	µg/L	0.01	1	0.01	12/27/1999	01/02/2000
2,4-D	EPA 615	ND	µg/L	0.04	1	0.04	12/27/1999	01/02/2000
2,4-DB	EPA 615	ND	µg/L	0.1	1	0.1	12/27/1999	01/02/2000
Dichloroprop	EPA 615	ND	µg/L	0.1	1	0.1	12/27/1999	01/02/2000
Dinoseb (DNBP)	EPA 615	ND	µg/L	0.01	1	0.01	12/27/1999	01/02/2000

mg/L: milligrams/liter (ppm)
mg/Kg: milligrams/kilogram (ppm)
µg/L: micrograms/liter (ppb)
µg/Kg: micrograms/kilogram (ppb)
%Rec: percent recovered (surrogates)

PQL: practical quantitation limit
DLR: detection limit for reporting
: PQL x Dilution
ND: none detected at DLR

H: analyzed outside of hold time
P: preliminary result
S: suspect result

BSK ANALYTICAL LABORATORIES

QC Summary Report

01/11/2000

BSK Submission : 1999120773
 Client : NEL Laboratories, Las Vegas
 Date Submitted : 12/23/1999
 Project ID : L9912262
 Project Desc :

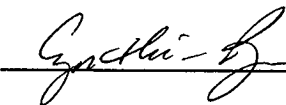
BSK Star Lims Run #: 3564

Analyte Results

Analyte	QC Type	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	UCL	LCL	Date	
2,4,5-T	LCS	1	µg/L	83		1.2	130	70	01/02/00	Acceptable
2,4,5-TP (Silvex)	LCS	0.6	µg/L	100		.6	130	70	01/02/00	Acceptable
2,4-D	LCS	2.5	µg/L	104		2.4	130	70	01/02/00	Acceptable
2,4-DB	LCS	5.8	µg/L	96		6	130	70	01/02/00	Acceptable
Dichloroprop	LCS	5.3	µg/L	88		6	130	70	01/02/00	Acceptable
Dinoseb (DNBP)	LCS	0.7	µg/L	116		.6	130	70	01/02/00	Acceptable
2,4,5-T	LCSD	1.1	µg/L	91	9.6	1.2	130	70	01/02/00	Acceptable
2,4,5-TP (Silvex)	LCSD	0.6	µg/L	100	0.0	.6	130	70	01/02/00	Acceptable
2,4-D	LCSD	2.8	µg/L	116	11	2.4	130	70	01/02/00	Acceptable
2,4-DB	LCSD	5.7	µg/L	95	1.8	6	130	70	01/02/00	Acceptable
Dichloroprop	LCSD	5.5	µg/L	91	3.8	6	130	70	01/02/00	Acceptable
Dinoseb (DNBP)	LCSD	0.7	µg/L	116	0.0	.6	130	70	01/02/00	Acceptable
2,4,5-T	RBLK	0	µg/L	< 0.02			0.02	N/A	01/02/00	Acceptable
2,4,5-TP (Silvex)	RBLK	0	µg/L	< 0.01			0.01	N/A	01/02/00	Acceptable
2,4-D	RBLK	0	µg/L	< 0.04			0.04	N/A	01/02/00	Acceptable
2,4-DB	RBLK	0	µg/L	< 0.1			0.1	N/A	01/02/00	Acceptable
Dichloroprop	RBLK	0	µg/L	< 0.1			0.1	N/A	01/02/00	Acceptable
Dinoseb (DNBP)	RBLK	0	µg/L	< 0.01			0.01	N/A	01/02/00	Acceptable

Surrogate Results

Analyte	QC Type	Surr. Result	UCL	LCL	Date	
DCPAA	LCS	95 % Rec	130	70	01/02/00	Acceptable
DCPAA	LCSD	91.7 % Rec	130	70	01/02/00	Acceptable
DCPAA	RBLK	71.5 % Rec	130	70	01/02/00	Acceptable

Approved by: 

%Rec: Percent Recovered
 RPD: Relative Percent Difference
 UCL: Upper Control Limit
 LCL: Lower Control Limit

Parent Sample: Sample used as background matrix for MS/MSD
 OOS-High: QC Result Above UCL
 OOS-Low: QC Result Below LCL



Acculabs Inc.

G o l d e n 4663 Table Mountain Drive, Golden CO 80403 ■ 303-277-9514 ■ Fax 277-9512

Date: 01/17/00

Page 1 - A

CASE NARRATIVE

Mr Mike Empy
NEL Laboratories
4208 Arcata Way
Ste A
Las Vegas, NV 89030

Lab Job Number: 035594 NEL004
Date Samples Received: 12/23/99

The following samples were received at the laboratory:

99-A27538 Water

The samples were received within EPA recommended holding times and in good condition. The radioactivity screen was performed at sample login, if required, and all results were within acceptable limits. If required, a pH screen confirmed that all samples were preserved to acceptable pH levels. Samples were analyzed within holding times as prescribed by the analytical method. Exceptions to these statements, additional information and any analytical anomalies are noted below.

The temperature of the samples upon arrival was 9 degrees C. In general, the EPA recommends the samples be maintained at a temperature range of 2 to 6 degrees C.

Sections A, B and C of this report contain a total of 3 pages.

Trudy L. Scott
Laboratory Manager

Acculabs Inc.



Date: 01/17/00
Page 1 - B

REPORT OF ANALYSIS

Mr Mike Empy
NEL Laboratories
4208 Arcata Way
Ste A
Las Vegas, NV 89030

Lab Job Number: 035594 NEL004
Date Samples Received: 12/23/99

Acculabs Designation: 99-A27538
Client Designation: WASH UPGRADIENT
Sample Location:
Location FI:
Date/Time Collected: 12/21/99

General Chemistry (results in mg/L unless noted):
Total Organic Carbon 8

NOTES:

Scheduled sample disposal/return date: February 16, 2000.

Trudy L. Scott
Trudy L. Scott
Laboratory Manager



Acculabs Inc.

Date: 01/17/00
Page 1 - C

QA/QC Report for Acculabs Job Number 035594

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Total Organic Carbon	1 mg/L	1/11/00	0:30	SRB	415.1

Lab Sample Number: 99-A27538

Client Sample ID: WASH UPGRADEMENT

Total Organic Carbon

Approved by : TJ Date : 1-17-00

Page 1 of 1

December 27, 1999

**WEST LAKES
LABORATORY****LABORATORY ANALYSIS REPORT****TO:**

NEVADA ENVIRONMENTAL LABORATORY
ATTN: Vanessa
4208 Arcata Way, Suite A
Las Vegas, NV 89030

FROM:

Suzanne Paulson
Laboratory Manager

Date Sampled	Date Analyzed	Sample Location	Sample C-of-C #	Analysis	Results	Detection Limit
12-21-99	12-21-99	Wash - Up Gradient	L9912262-01	Total Coliform	> 1600 MPN/ 100 ml	2 MPN/ 100 ml

Total Coliform's are analyzed according to Standard Methods 18th Edition, Method #9221-B.

Nevada State Certification: NV047

Thank You



Suzanne Paulson

2545 Chandler Avenue, Suite #8
Las Vegas, NV 89120
Tel: 702-739-8786 Fax: 702-739-8875

NEL LABORATORIES

Reno • Las Vegas
Phoenix • So. California

Las Vegas Division • 4208 Arcata Way, Ste. A • Las Vegas, NV 89030
(702) 657-1010 • FAX: (702) 657-1577 • 1-888-368-3282

Company: Kerr-McCoke Chemical LLC Attention: SM Crowley

Address:

Phone Number: 651-2234 Fax Number: 651-2310

Billing Address: _____ Expected Due Date: 12/29

Requested Turnaround: X 5-day 2-day 1-day Other

Time/Date Sampled _____ Customer Sample Identification _____ N.E.L. Identification _____

12-12-99 Wash f/0 Opgradient 01

Custody Seal intact? Y N None Temp. 18°C

Condition when received good

CHAIN OF CUSTODY

NEL Work Order: L99/2262

Project Name: WASH - GRADIENT Project Number: _____
Purchase Order Number: _____ Sampled By: SM Crowley

# of Containers	Matrix (Box #1)	Preservative (Box #2)	Analysis	Remarks
?	AGF		635 (2) (4)(2) (2) (2) P.L.S. grade (2) (2) COD, TBC, BOD, MBAS Misc Inorganics + Misc Nitr Total N Sulfide, Carb, Sulfite Total P, Carb, Sulfite 624 (6) per vials	LEU Fel 4

Box #1	DW - Drinking Water	SD - Solid	Box #2	A. HCl	E. Ice Only
	WW - Waste Water <td>AQ - Aqueous <td></td> <td>B. HNO₃ <td>F. Other _____</td> </td></td>	AQ - Aqueous <td></td> <td>B. HNO₃ <td>F. Other _____</td> </td>		B. HNO ₃ <td>F. Other _____</td>	F. Other _____
	OL - Oil/Organic Liquid <td>A - Air <td></td> <td>C. H₂SO₄ <td>G. Not Preserved</td> </td></td>	A - Air <td></td> <td>C. H₂SO₄ <td>G. Not Preserved</td> </td>		C. H ₂ SO ₄ <td>G. Not Preserved</td>	G. Not Preserved

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
<u>1 SUSAN CROWLEY</u>	<u>SM Crowley</u>	<u>12-21-99 (1530)</u>	<u>Will Balicic</u>	<u>Will Balicic</u>	<u>12/21/99 15:30</u>
<u>2 Will Balicic</u>	<u>Will Balicic</u>	<u>12/21/99 17:05</u>	<u>JALIA FOTEN</u>	<u>Jalija Foten</u>	<u>12/21/99 17:07</u>
<u>3</u>					

The liability of NEL Laboratories Inc. is limited strictly to the price of sample analysis for those samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including adequate sample volume and number of containers. Customer signature of this CoC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard List Prices for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround times are measured in regular working days. Samples received at the laboratory after 16:30 will be considered received on the next working day. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.

NEL LABORATORIES

Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: Kerr-McGee Chemical Corporation
8000 West Lake Mead Drive
Henderson, NV 89015
ATTN: Susan Crowley

PROJECT NAME: Wash Down
PROJECT NUMBER: NA

NEL ORDER ID: L9912208

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 12/17/99.

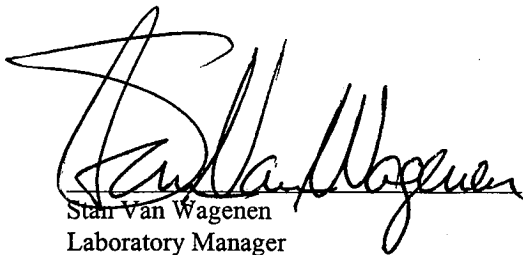
Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Some results have been flagged as follows:

- He - Sample was extracted beyond holding time for this parameter.
- J - This concentration should be considered an estimate due laboratory control sample failure.
- Jc - This concentration should be considered an estimate. The continuing calibration check standard did not meet QC requirements for this analyte.
- Je - This concentration is below reporting limit, but above method detection limit. It should be considered an approximate value.

Some QA results have been flagged as follows:

- C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.
- Hr - Sample was received beyond holding time for this parameter.
- J - This concentration should be considered an estimate due laboratory control sample failure.
- JI - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.



Stan Van Wagenen
Laboratory Manager

1/13/00
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA

CLIENT ID: Wash - Downgradient
 DATE SAMPLED: 12/17/99
 NEL SAMPLE ID: L9912208-01

TEST: Semi-Volatile Organic Compounds by EPA 625, July 1993

METHOD: EPA 625
 MATRIX: Aqueous
 DILUTION: 1

EXTRACTED: 12/22/99
 ANALYZED: 12/23/99
 ANALYST: JPR - Division

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acenaphthene	ND	3.0 µg/L	Hexachlorobutadiene	ND ^J	3.0 µg/L
Acenaphthylene	ND	3.0 µg/L	Hexachloroethane	ND	3.0 µg/L
Anthracene	ND	3.0 µg/L	Hexachlorocyclopentadiene	ND	3.0 µg/L
Benzo (a) anthracene	ND	3.0 µg/L	Indeno (1,2,3-c,d) pyrene	ND	3.0 µg/L
Benzo (b&k) fluoranthene	ND	3.0 µg/L	Isophorone	ND	3.0 µg/L
Benzo (a) pyrene	ND	3.0 µg/L	4,6-Dinitro-2-methyl phenol	ND	3.0 µg/L
Benzo (g,h,i) perylene	ND	3.0 µg/L	Naphthalene	ND	3.0 µg/L
Butylbenzylphthalate	ND	3.0 µg/L	Nitrobenzene	ND	3.0 µg/L
bis (2-Chloroethyl) ether	ND	3.0 µg/L	2-Nitrophenol	ND	3.0 µg/L
bis (2-Chloroethoxy) methane	ND	3.0 µg/L	4-Nitrophenol	ND	3.0 µg/L
bis (2-chloroisopropyl) ether	ND	3.0 µg/L	N-Nitrosodi-n-propylamine	ND	3.0 µg/L
bis (2-Ethylhexyl)phthalate	ND	3.0 µg/L	N-Nitroso-Dimethylamine	ND	3.0 µg/L
4-Bromophenyl phenyl ether	ND	3.0 µg/L	N-Nitrosodiphenylamine	ND	3.0 µg/L
4-Chloro-3-methyl phenol	ND	3.0 µg/L	Pentachlorophenol	ND	3.0 µg/L
2-Chloronaphthalene	ND	3.0 µg/L	Phenol	ND	3.0 µg/L
2-Chlorophenol	ND	3.0 µg/L	Phenanthrene	ND	3.0 µg/L
4-Chlorophenyl phenyl ether	ND	3.0 µg/L	Pyrene	ND	3.0 µg/L
Chrysene	ND	3.0 µg/L	1,2,4-Trichlorobenzene	ND	3.0 µg/L
Dibenzo (a,h) anthracene	ND	3.0 µg/L	2,4,6-Trichlorophenol	ND	3.0 µg/L
Di-n-butyl phthalate	ND	3.0 µg/L			
1,2-Dichlorobenzene (o-DCB)	ND	3.0 µg/L			
1,3-Dichlorobenzene (m-DCB)	ND	3.0 µg/L			
1,4-Dichlorobenzene (p-DCB)	ND	3.0 µg/L			
2,4-Dichlorophenol	ND	3.0 µg/L			
3,3'-Dichlorobenzidine	ND	3.0 µg/L			
Diethylphthalate	ND	3.0 µg/L			
2,4-Dimethylphenol	ND	3.0 µg/L			
Dimethylphthalate	ND	3.0 µg/L			
2,4-Dinitrotoluene (DNT)	ND	3.0 µg/L			
2,6-Dinitrotoluene (DNT)	ND	3.0 µg/L			
2,4-Dinitrophenol	ND	3.0 µg/L			
Di-n-octyl phthalate	ND	3.0 µg/L			
Fluoranthene	ND	3.0 µg/L			
Fluorene	ND	3.0 µg/L			
Hexachlorobenzene	ND	3.0 µg/L			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	60	33 - 141
2-Fluorobiphenyl	50	43 - 116
2-Fluorophenol	33	21 - 100
Nitrobenzene-d5	47	35 - 114
p-Terphenyl-d14	62	33 - 141
Phenol-d5	28	10 - 94

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA
 TEST: Semi-Volatile Organic Compounds by EPA 625, July 1993
 METHOD: EPA 625
 MATRIX: Aqueous

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: 122299-E2-BLK
 ANALYST: JPR - Division
 EXTRACTED: 12/22/99
 ANALYZED: 12/23/99

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acenaphthene	ND	10 µg/L	Hexachlorobutadiene	ND	10 µg/L
Acenaphthylene	ND	10 µg/L	Hexachloroethane	ND	10 µg/L
Anthracene	ND	10 µg/L	Hexachlorocyclopentadiene	ND	10 µg/L
Benzo (a) anthracene	ND	10 µg/L	Indeno (1,2,3-c,d) pyrene	ND	10 µg/L
Benzo (b&k) fluoranthene	ND	10 µg/L	Isophorone	ND	10 µg/L
Benzo (a) pyrene	ND	10 µg/L	4,6-Dinitro-2-methyl phenol	ND	10 µg/L
Benzo (g,h,i) perylene	ND	10 µg/L	Naphthalene	ND	10 µg/L
Butylbenzylphthalate	ND	10 µg/L	Nitrobenzene	ND	10 µg/L
bis (2-Chloroethyl) ether	ND	10 µg/L	2-Nitrophenol	ND	10 µg/L
bis (2-Chloroethoxy) methane	ND	10 µg/L	4-Nitrophenol	ND	10 µg/L
bis (2-chloroisopropyl) ether	ND	10 µg/L	N-Nitrosodi-n-propylamine	ND	10 µg/L
bis (2-Ethylhexyl)phthalate	ND	10 µg/L	N-Nitroso-Dimethylamine	ND	10 µg/L
4-Bromophenyl phenyl ether	ND	50 µg/L	N-Nitrosodiphenylamine	ND	10 µg/L
4-Chloro-3-methyl phenol	ND	10 µg/L	Pentachlorophenol	ND	10 µg/L
2-Chloronaphthalene	ND	10 µg/L	Phenol	ND	10 µg/L
2-Chlorophenol	ND	10 µg/L	Phenanthrene	ND	50 µg/L
4-Chlorophenyl phenyl ether	ND	20 µg/L	Pyrene	ND	10 µg/L
Chrysene	ND	10 µg/L	1,2,4-Trichlorobenzene	ND	10 µg/L
Dibenzo (a,h) anthracene	ND	10 µg/L	2,4,6-Trichlorophenol	ND	10 µg/L
Di-n-butyl phthalate	ND	10 µg/L			
1,2-Dichlorobenzene (o-DCB)	ND	10 µg/L			
1,3-Dichlorobenzene (m-DCB)	ND	10 µg/L			
1,4-Dichlorobenzene (p-DCB)	ND	10 µg/L			
2,4-Dichlorophenol	ND	10 µg/L			
3,3'-Dichlorobenzidine	ND	10 µg/L			
Diethylphthalate	ND	10 µg/L			
2,4-Dimethylphenol	ND	10 µg/L			
Dimethylphthalate	ND	10 µg/L			
2,4-Dinitrotoluene (DNT)	ND	50 µg/L			
2,6-Dinitrotoluene (DNT)	ND	10 µg/L			
2,4-Dinitrophenol	ND	10 µg/L			
Di-n-octyl phthalate	ND	10 µg/L			
Fluoranthene	ND	10 µg/L			
Fluorene	ND	10 µg/L			
Hexachlorobenzene	ND	10 µg/L			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	58	33 - 141
2-Fluorobiphenyl	66	43 - 116
2-Fluorophenol	50	21 - 100
Nitrobenzene-d5	63	35 - 114
p-Terphenyl-d14	72	33 - 141
Phenol-d5	39	10 - 94

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA

CLIENT ID: Wash - Downgradient
 DATE SAMPLED: 12/17/99
 NEL SAMPLE ID: L9912208-01

TEST: Metals
 MATRIX: Aqueous

ANALYST: JTY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Antimony	ND	0.0019 mg/L	5	EPA 6020	12/22/99	12/23/99
Arsenic	0.011	0.00055 mg/L	5	EPA 6020	12/22/99	12/23/99
Barium	0.039	0.00073 mg/L	1	EPA 6010	12/22/99	12/23/99
Beryllium	ND	0.00014 mg/L	1	EPA 6010	12/22/99	12/23/99
Boron	0.85	0.026 mg/L	1	EPA 6010	12/22/99	12/23/99
Cadmium	ND	0.00078 mg/L	1	EPA 6010	12/22/99	12/23/99
Chromium	ND	0.0021 mg/L	1	EPA 6010	12/22/99	12/23/99
Copper	ND	0.0023 mg/L	1	EPA 6010	12/22/99	12/23/99
Hexavalent Chromium	ND	0.01 mg/L	1	SM 3500-Cr D	12/19/99	12/19/99
Iron	0.15	0.051 mg/L	1	EPA 6010	12/22/99	12/23/99
Lead	ND	0.0032 mg/L	5	EPA 6020	12/22/99	12/23/99
Magnesium	100	0.02 mg/L	1	EPA 6010	12/22/99	12/23/99
Manganese	0.062	0.0013 mg/L	1	EPA 6010	12/22/99	12/23/99
Mercury	ND	0.00007 mg/L	1	EPA 7470A	12/23/99	12/23/99
Molybdenum	0.023	0.011 mg/L	1	EPA 6010	12/22/99	12/23/99
Nickel	ND	0.0035 mg/L	1	EPA 6010	12/22/99	12/23/99
Potassium	27	0.4 mg/L	1	EPA 6010	12/22/99	12/23/99
Selenium	0.0088	0.0021 mg/L	5	EPA 6020	12/22/99	12/23/99
Silver	ND	0.0046 mg/L	1	EPA 6010	12/22/99	12/23/99
Sodium	290	2.5 mg/L	1	EPA 6010	12/22/99	12/23/99
Strontium	3.5	0.0007 mg/L	5	EPA 6020	12/22/99	12/23/99
Thallium	ND	0.00047 mg/L	5	EPA 6020	12/22/99	12/23/99
Vanadium	0.0092	0.0014 mg/L	1	EPA 6010	12/22/99	12/23/99
Zinc	ND	0.0088 mg/L	1	EPA 6010	12/22/99	12/23/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Sm 3500-Cr D Hexavalent Chromium

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991219CR-BLK

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Hexavalent Chromium	ND	0.01 mg/L	1	SM 3500-Cr D	12/19/99	12/19/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L12198I-BLK

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Barium	ND	0.005 mg/L	1	EPA 6010	12/22/99	12/23/99
Beryllium	ND	0.005 mg/L	1	EPA 6010	12/22/99	12/23/99
Boron	ND	0.02 mg/L	1	EPA 6010	12/22/99	12/23/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	12/22/99	12/23/99
Chromium	ND	0.01 mg/L	1	EPA 6010	12/22/99	12/23/99
Copper	ND	0.005 mg/L	1	EPA 6010	12/22/99	12/23/99
Iron	ND	0.1 mg/L	1	EPA 6010	12/22/99	12/23/99
Magnesium	ND	0.5 mg/L	1	EPA 6010	12/22/99	12/23/99
Manganese	ND	0.005 mg/L	1	EPA 6010	12/22/99	12/23/99
Molybdenum	ND	0.01 mg/L	1	EPA 6010	12/22/99	12/23/99
Nickel	ND	0.04 mg/L	1	EPA 6010	12/22/99	12/23/99
Potassium	ND	2. mg/L	1	EPA 6010	12/22/99	12/23/99
Silver	ND	0.02 mg/L	1	EPA 6010	12/22/99	12/23/99
Sodium	ND	0.5 mg/L	1	EPA 6010	12/22/99	12/23/99
Vanadium	ND	0.005 mg/L	1	EPA 6010	12/22/99	12/23/99
Zinc	ND	0.1 mg/L	1	EPA 6010	12/22/99	12/23/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: **Metals**

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: L12208M4-BLK

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Antimony	ND	0.005 mg/L	5	EPA 6020	12/22/99	12/23/99
Arsenic	ND	0.005 mg/L	5	EPA 6020	12/22/99	12/23/99
Lead	ND	0.005 mg/L	5	EPA 6020	12/22/99	12/23/99
Selenium	ND	0.005 mg/L	5	EPA 6020	12/22/99	12/23/99
Strontium	ND	0.0005 mg/L	5	EPA 6020	12/22/99	12/23/99
Thallium	ND	0.0025 mg/L	5	EPA 6020	12/22/99	12/23/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: **Metals**

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: S12035i-Hg-BLK

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Mercury	ND	0.0002 mg/L	1	EPA 7470A	12/23/99	12/23/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA

CLIENT ID: Wash - Downgradient
 DATE SAMPLED: 12/17/99
 NEL SAMPLE ID: L9912208-01

TEST: Inorganic Non-Metals
 MATRIX: Aqueous

PARAMETER	RESULT	REPORTING		D. F.	METHOD	UNITS	ANALYZED
		LIMIT					
Ammonia, as N	0.39	0.098		1	SM 4500-NH3 B/E	mg/L-N	12/27/99
Biochemical Oxygen Demand (ND	5.		1	SM5210B	mg/L	12/18/99
COD	19	1.7		1	SM 5520 D	mg/L	12/28/99
Color	15	0.		1	SM 2120B	Color Units	12/17/99
Cyanide, TOTAL	0.018	0.0064	Je	1	SM 4500-CN E	mg/L	12/22/99
MBAS	0.050	0.0039		1	SM 5540 C	mg/L	12/18/99
Nitrate/Nitrite as N, Total	13	0.031		10	SM 4500-NO3 F	mg/L-N	12/30/99
Oil & Grease	19	1.5		1	EPA 413.1	mg/L	12/22/99
Sulfide	ND	0.011		1	SM 4500-S D	mg/L	12/23/99
TKN (Total Kjeldahl Nitrogen)	0.28	0.025	Je	1	SM 4500-N C/NH3 E	mg/L-N	12/23/99
Total Nitrogen	13	0.3		1	Calculated	mg/L-N	12/30/99
Total Phosphorus	0.42	0.0085		1	SM 4500-P E	mg/L-P	12/19/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991217COLOR-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Color	0	0	1	SM 2120B	Color Un	12/17/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991218MBAS-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
MBAS	ND	0.02	1	SM 5540 C	mg/L	12/18/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation CLIENT ID: Method Blank
PROJECT ID: Wash Down DATE SAMPLED: NA
PROJECT #: NA NEL SAMPLE ID: 991219TP-BLK
TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Total Phosphorus	ND	0.01	1	SM 4500-P E	mg/L-P	12/19/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991221OGW-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Oil & Grease	ND	2	1	EPA 413.1	mg/L	12/22/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991222CN-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Cyanide, TOTAL	ND	0.02	1	SM 4500-CN E	mg/L	12/22/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991223SULF-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Sulfide	ND	0.03	1	SM 4500-S D	mg/L	12/27/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991223tkn-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
TKN (Total Kjeldahl Nitrogen)	ND	0.3	1	SM 4500-N C/NH3 E	mg/L-N	12/23/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991227NH3-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Ammonia, as N	ND	0.3	1	SM 4500-NH3 B/E	mg/L-N	12/27/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991228COD-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
COD	ND	10	1	SM 5520 D	mg/L	12/28/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 991230NO2NO3A-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Nitrate/Nitrite as N, Total	ND	0.05	1	SM 4500-NO3 F	mg/L-N	12/30/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA

CLIENT ID: Wash - Downgradient
 DATE SAMPLED: 12/17/99
 NEL SAMPLE ID: L9912208-01

TEST: Organochlorine Pesticides and PCB's by EPA 608, July 1993

METHOD: EPA 608
 MATRIX: Aqueous
 DILUTION: 1

ANALYST: JRW.- Las Vegas Division
 EXTRACTED: 12/27/99
 ANALYZED: 12/30/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aldrin	ND He	0.033 µg/L
alpha-BHC	ND	0.016 µg/L
beta-BHC	ND	0.017 µg/L
delta-BHC	ND	0.012 µg/L
Heptachlor	ND	0.028 µg/L
Chlordane	ND	0.1 µg/L
4,4-DDD	ND	0.016 µg/L
4,4-DDE	ND	0.011 µg/L
4,4-DDT	ND	0.019 µg/L
Dieldrin	ND	0.013 µg/L
Endosulfan I	ND	0.016 µg/L
Endosulfan II	ND Jc	0.011 µg/L
Endosulfan sulfate	ND	0.087 µg/L
Endrin	ND	0.014 µg/L
Endrin aldehyde	ND	0.010 µg/L
Heptachlor epoxide	ND	0.011 µg/L
gamma-BHC (Lindane)	ND	0.017 µg/L
Methoxychlor	ND Jc	0.041 µg/L
Toxaphene	ND	0.1 µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	83	56- 155
Tetrachloro-m-xylene	94	48- 136

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA

CLIENT ID: Wash - Downgradient
 DATE SAMPLED: 12/17/99
 NEL SAMPLE ID: L9912208-01

TEST: Purgeable Organic Compounds by EPA 624, July 1998

METHOD: EPA 624
 MATRIX: Aqueous
 DILUTION: 1

ANALYST: BJV - Las Vegas Division
 EXTRACTED: 12/23/99
 ANALYZED: 12/23/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	0.5 µg/L
Bromodichloromethane	1.1 Je µg/L	0.61 µg/L
Bromoform	ND	2.3 µg/L
Bromomethane	ND	0.5 µg/L
Carbon tetrachloride	ND	0.5 µg/L
Chlorobenzene	ND	0.5 µg/L
Chloroethane	ND	0.5 µg/L
Chloroform	2.5 Je µg/L	0.5 µg/L
Chloromethane	ND	0.84 µg/L
Dibromochloromethane	0.66 Je µg/L	1.45 µg/L
cis-1,2-Dichloroethene	ND	0.5 µg/L
1,2-Dichlorobenzene (o-DCB)	ND	0.5 µg/L
1,3-Dichlorobenzene (m-DCB)	ND	0.5 µg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.5 µg/L
1,1-Dichloroethane (1,1-DCA)	ND	0.5 µg/L
1,2-Dichloroethane (1,2-DCA)	ND	1.3 µg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.68 µg/L
trans-1,2-Dichloroethene	ND	0.5 µg/L
1,2-Dichloropropane	ND	0.5 µg/L
cis-1,3-Dichloropropene	ND	0.64 µg/L
trans-1,3-Dichloropropene	ND	2.0 µg/L
Ethylbenzene	ND	0.5 µg/L
Methylene chloride (Dichloromethane)	ND	1.2 µg/L
MTBE	ND	4.0 µg/L
Styrene	ND	0.54 µg/L
1,1,2,2-Tetrachloroethane	ND	2.7 µg/L
Tetrachloroethene (PCE)	ND	0.52 µg/L
Toluene	ND	0.5 µg/L
1,1,1-Trichloroethane (1,1,1-TCA)	ND	0.7 µg/L
1,1,2-Trichloroethane (1,1,2-TCA)	ND	2.0 µg/L
Trichloroethene (TCE)	ND	0.5 µg/L
Trichlorofluoromethane (Freon 11)	ND	2.7 µg/L
Vinyl chloride	ND	0.5 µg/L
m,p-Xylene	ND	0.89 µg/L
o-Xylene	ND	0.5 µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	96	86 - 115
Dibromofluoromethane	96	86 - 118
Toluene-d8	93	88 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA

CLIENT ID: **Method Blank**
 DATE SAMPLED: NA
 NEL SAMPLE ID: 122399-E1.614-BLK

TEST: **Organophosphorous Pesticides by EPA 614**
 METHOD: EPA 614
 MATRIX: Aqueous

ANALYST: LLS - Reno Division
 EXTRACTED: 1/3/00
 ANALYZED: 12/30/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Demeton	ND	4. µg/L
Diazinon	ND	4. µg/L
Disulfoton	ND	4. µg/L
Ethion	ND	1. µg/L
Ethyl Parathion	ND	1. µg/L
Guthion (Azinphos Methyl)	ND	4. µg/L
Malathion	ND	2. µg/L
Methyl Parathion	ND	1. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Tributylphosphate	72	65 - 135
Triphenylphosphate	62 Sf	65 - 135

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation CLIENT ID: Method Blank
 PROJECT ID: Wash Down DATE SAMPLED: NA
 PROJECT #: NA NEL SAMPLE ID: 991223AQ24-BLK

TEST: Purgeable Organic Compounds by EPA 624, July 1998
 METHOD: EPA 624 ANALYST: BJV - Las Vegas Division
 MATRIX: Aqueous EXTRACTED: 12/23/99
 ANALYZED: 12/23/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	5. µg/L
Bromodichloromethane	ND	5. µg/L
Bromoform	ND	5. µg/L
Bromomethane	ND	5. µg/L
Carbon tetrachloride	ND	5. µg/L
Chlorobenzene	ND	5. µg/L
Chloroethane	ND	5. µg/L
Chloroform	ND	5. µg/L
Chloromethane	ND	5. µg/L
Dibromochloromethane	ND	5. µg/L
cis-1,2-Dichloroethene	ND	5. µg/L
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/L
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/L
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/L
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/L
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/L
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/L
trans-1,2-Dichloroethene	ND	5. µg/L
1,2-Dichloropropane	ND	5. µg/L
cis-1,3-Dichloropropene	ND	5. µg/L
trans-1,3-Dichloropropene	ND	5. µg/L
Ethylbenzene	ND	5. µg/L
Methylene chloride (Dichloromethane)	ND	5. µg/L
MTBE	ND	5. µg/L
Styrene	ND	5. µg/L
1,1,2,2-Tetrachloroethane	ND	5. µg/L
Tetrachloroethene (PCE)	ND	5. µg/L
Toluene	ND	5. µg/L
1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/L
1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/L
Trichloroethene (TCE)	ND	5. µg/L
Trichlorofluoromethane (Freon 11)	ND	10. µg/L
Vinyl chloride	ND	5. µg/L
m,p-Xylene	ND	5. µg/L
o-Xylene	ND	5. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	93	86 - 115
Dibromofluoromethane	94	86 - 118
Toluene-d8	93	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA

CLIENT ID: **Method Blank**
 DATE SAMPLED: NA
 NEL SAMPLE ID: 991227PSTW-BLK

TEST: **Organochlorine Pesticides and PCB's by EPA 608, July 1993**
 METHOD: EPA 608
 MATRIX: Aqueous

ANALYST: JRW - Las Vegas Division
 EXTRACTED: 12/27/99
 ANALYZED: 12/30/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aldrin	ND	0.1 µg/L
alpha-BHC	ND	0.1 µg/L
beta-BHC	ND	0.1 µg/L
delta-BHC	ND	0.1 µg/L
Heptachlor	ND	0.1 µg/L
Chlordane	ND	0.5 µg/L
4,4-DDD	ND	0.1 µg/L
4,4-DDE	ND	0.1 µg/L
4,4-DDT	ND	0.1 µg/L
Dieldrin	ND	0.1 µg/L
Endosulfan I	ND	0.1 µg/L
Endosulfan II	ND	0.1 µg/L
Endosulfan sulfate	ND	0.1 µg/L
Endrin	ND	0.1 µg/L
Endrin aldehyde	ND	0.1 µg/L
Heptachlor epoxide	ND	0.1 µg/L
gamma-BHC (Lindane)	ND	0.1 µg/L
Methoxychlor	ND	0.5 µg/L
Toxaphene	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	56	56- 155
Tetrachloro-m-xylene	100	48- 136

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA

CLIENT ID: Wash - Downgradient
 DATE SAMPLED: 12/17/99
 NEL SAMPLE ID: L9912208-01

TEST: Organophosphorous Pesticides by EPA 614
 METHOD: EPA 614
 MATRIX: Aqueous
 DILUTION: 1

ANALYST: LLS - Reno Division
 EXTRACTED: 12/23/99
 ANALYZED: 12/30/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Demeton	ND	0.3 µg/L
Diazinon	ND	0.3 µg/L
Disulfoton	ND	0.3 µg/L
Ethion	ND	0.3 µg/L
Ethyl Parathion	ND	0.3 µg/L
Guthion (Azinphos Methyl)	ND	0.3 µg/L
Malathion	ND	0.3 µg/L
Methyl Parathion	ND	0.3 µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Tributylphosphate	82	65 - 135
Triphenylphosphate	69	65 - 135

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: 122399-E1.614-BLK

TEST: Organophosphorous Pesticides by EPA 614
 METHOD: EPA 614
 MATRIX: Aqueous

ANALYST: LLS - Reno Division
 EXTRACTED: 12/23/99
 ANALYZED: 12/30/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Demeton	ND	4. µg/L
Diazinon	ND	4. µg/L
Disulfoton	ND	4. µg/L
Ethion	ND	1. µg/L
Ethyl Parathion	ND	1. µg/L
Guthion (Azinphos Methyl)	ND	4. µg/L
Malathion	ND	2. µg/L
Methyl Parathion	ND	1. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>		<u>Acceptable Range</u>
Tributylphosphate	72		65 - 135
Triphenylphosphate	62	Sf	65 - 135

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA
 TEST: Semi-Volatile Organic Compounds by EPA 625, July 1993
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
N-Nitroso-Dimethylamine	122299-E2-LCS	100	47.14	47	40 - 60	
N-Nitroso-Dimethylamine	L9912198-01-MS	100	36.3	36	20 - 59	
bis (2-chloroisopropyl) ether	122299-E2-LCS	100	77.91	78	53 - 81	
bis (2-chloroisopropyl) ether	L9912198-01-MS	100	58.34	58	27 - 101	
bis (2-Chloroethyl) ether	122299-E2-LCS	100	65.32	65	50 - 93	
bis (2-Chloroethyl) ether	L9912198-01-MS	100	50.94	51	33 - 99	
Phenol	122299-E2-LCS	100	36.02	36	5 - 107	
Phenol	L9912198-01-MS	100	17.17	17	15 - 44	
2-Chlorophenol	122299-E2-LCS	100	69.12	69	48 - 82	
2-Chlorophenol	L9912198-01-MS	100	50.6	51	34 - 92	
1,3-Dichlorobenzene (m-DCB)	122299-E2-LCS	100	58.41	58	47 - 92	
1,3-Dichlorobenzene (m-DCB)	L9912198-01-MS	100	34.62	35	24 - 97	
1,4-Dichlorobenzene (p-DCB)	122299-E2-LCS	100	61.11	61	52 - 89	
1,4-Dichlorobenzene (p-DCB)	L9912198-01-MS	100	36.78	37	23 - 96	
1,2-Dichlorobenzene (o-DCB)	122299-E2-LCS	100	59.73	60	54 - 89	
1,2-Dichlorobenzene (o-DCB)	L9912198-01-MS	100	37.53	38	25 - 97	
N-Nitrosodi-n-propylamine	122299-E2-LCS	100	70.42	70	65 - 95	
N-Nitrosodi-n-propylamine	L9912198-01-MS	100	57.18	57	65 - 95	
Hexachloroethane	122299-E2-LCS	100	54.76	55	50 - 93	
Hexachloroethane	L9912198-01-MS	100	28.38	28	17 - 99	
Nitrobenzene	122299-E2-LCS	100	70.36	70	67 - 90	
Nitrobenzene	L9912198-01-MS	100	84.64	85	40 - 110	
Isophorone	122299-E2-LCS	100	68.28	68	49 - 106	
Isophorone	L9912198-01-MS	100	49.95	50	35 - 103	
Naphthalene	122299-E2-LCS	100	66.25	66	56 - 91	
Naphthalene	L9912198-01-MS	100	48.5	49	26 - 101	
2-Nitrophenol	122299-E2-LCS	100	70.95	71	55 - 91	
2-Nitrophenol	L9912198-01-MS	100	57.96	58	35 - 93	
2,4-Dimethylphenol	122299-E2-LCS	100	74.23	74	31 - 111	
2,4-Dimethylphenol	L9912198-01-MS	100	0	0	Jl 5 - 110	
bis (2-Chloroethoxy) methane	122299-E2-LCS	100	69.25	69	51 - 99	
bis (2-Chloroethoxy) methane	L9912198-01-MS	100	55.3	55	31 - 104	
2,4-Dichlorophenol	122299-E2-LCS	100	74.78	75	42 - 99	
2,4-Dichlorophenol	L9912198-01-MS	100	58.29	58	37 - 90	
1,2,4-Trichlorobenzene	122299-E2-LCS	100	63.96	64	53 - 94	
1,2,4-Trichlorobenzene	L9912198-01-MS	100	41.86	42	23 - 100	
Hexachlorobutadiene	122299-E2-LCS	100	49.66	50	J 55 - 94	
Hexachlorobutadiene	122299-E2-LCSD	100	41.83	42	J 55 - 94	17.1

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA
 TEST: Semi-Volatile Organic Compounds by EPA 625, July 1993
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Hexachlorobutadiene	L9912198-01-MS	100	26.92	27	18 - 100	
4-Chloro-3-methyl phenol	122299-E2-LCS	100	80.23	80	49 - 100	
4-Chloro-3-methyl phenol	L9912198-01-MS	100	51.09	51	37 - 98	
Hexachlorocyclopentadiene	122299-E2-LCS	100	19.76	20	5 - 61	
Hexachlorocyclopentadiene	L9912198-01-MS	100	18.82	19	5 - 50	
2,4,6-Trichlorophenol	122299-E2-LCS	100	76.09	76	51 - 100	
2,4,6-Trichlorophenol	L9912198-01-MS	100	56.98	57	45 - 88	
Acenaphthene	122299-E2-LCS	100	71.29	71	52 - 99	
Acenaphthene	L9912198-01-MS	100	35.06	35	10 - 110	
Dimethylphthalate	122299-E2-LCS	100	67.38	67	5 - 50	
Dimethylphthalate	L9912198-01-MS	100	59.9	60	5 - 73	
Acenaphthylene	122299-E2-LCS	100	62.87	63	46 - 107	
Acenaphthylene	L9912198-01-MS	100	0	0	17 - 108	J1
2,6-Dinitrotoluene (DNT)	122299-E2-LCS	100	67.53	68	42 - 117	
2,6-Dinitrotoluene (DNT)	L9912198-01-MS	100	58.55	59	35 - 111	
2,4-Dinitrotoluene (DNT)	122299-E2-LCS	100	67.78	68	28 - 131	
2,4-Dinitrotoluene (DNT)	L9912198-01-MS	100	57.8	58	30 - 110	
2,4-Dinitrophenol	122299-E2-LCS	100	45.64	46	6 - 103	
2,4-Dinitrophenol	L9912198-01-MS	100	52.33	52	5 - 110	
Fluorene	122299-E2-LCS	100	59.27	59	43 - 112	
Fluorene	L9912198-01-MS	100	49.73	50	17 - 109	
4-Nitrophenol	122299-E2-LCS	100	39.02	39	14 - 53	
4-Nitrophenol	L9912198-01-MS	100	44.3	44	45 - 99	
Diethylphthalate	122299-E2-LCS	100	71.26	71	5 - 80	
Diethylphthalate	L9912198-01-MS	100	59.21	59	5 - 92	
4-Chlorophenyl phenyl ether	122299-E2-LCS	100	72.85	73	49 - 117	
4-Chlorophenyl phenyl ether	L9912198-01-MS	100	57.84	58	6 - 99	
N-Nitrosodiphenylamine	122299-E2-LCS	100	69.65	70	42 - 109	
N-Nitrosodiphenylamine	L9912198-01-MS	100	48.34	48	22 - 108	
4,6-Dinitro-2-methyl phenol	122299-E2-LCS	100	56.91	57	9 - 113	
4,6-Dinitro-2-methyl phenol	L9912198-01-MS	100	58.07	58	5 - 118	
4-Bromophenyl phenyl ether	122299-E2-LCS	100	68.35	68	53 - 117	
4-Bromophenyl phenyl ether	L9912198-01-MS	100	58.9	59	24 - 113	
Hexachlorobenzene	122299-E2-LCS	100	61.83	62	53 - 114	
Hexachlorobenzene	L9912198-01-MS	100	55.19	55	24 - 111	
Di-n-butyl phthalate	122299-E2-LCS	100	63.89	64	44 - 103	
Di-n-butyl phthalate	L9912198-01-MS	100	59.22	59	12 - 113	
Pentachlorophenol	122299-E2-LCS	100	50.19	50	18 - 104	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA
 TEST: Semi-Volatile Organic Compounds by EPA 625, July 1993
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Pentachlorophenol	L9912198-01-MS	100	52.98	53	5 - 107	
Phenanthrene	122299-E2-LCS	100	65.69	66	56 - 104	
Phenanthrene	L9912198-01-MS	100	57.78	58	25 - 112	
Anthracene	122299-E2-LCS	100	63.87	64	47 - 106	
Anthracene	L9912198-01-MS	100	46.67	47	20 - 111	
Fluoranthene	122299-E2-LCS	100	66.25	66	52 - 104	
Fluoranthene	L9912198-01-MS	100	59.34	59	17 - 118	
Pyrene	122299-E2-LCS	100	66.13	66	51 - 105	
Pyrene	L9912198-01-MS	100	55.4	55	18 - 119	
Butylbenzylphthalate	122299-E2-LCS	100	68.61	69	40 - 111	
Butylbenzylphthalate	L9912198-01-MS	100	59.14	59	10 - 115	
Benzo (a) anthracene	122299-E2-LCS	100	72.04	72	48 - 110	
Benzo (a) anthracene	L9912198-01-MS	100	64.39	64	18 - 111	
Chrysene	122299-E2-LCS	100	71.22	71	51 - 109	
Chrysene	L9912198-01-MS	100	61.67	62	21 - 114	
3,3'-Dichlorobenzidine	122299-E2-LCS	100	47.6	48	27 - 119	
3,3'-Dichlorobenzidine	L9912198-01-MS	100	0	0	5 - 74	Jl
bis (2-Ethylhexyl)phthalate	122299-E2-LCS	100	68.26	68	47 - 122	
bis (2-Ethylhexyl)phthalate	L9912198-01-MS	100	60.55	61	17 - 128	
Di-n-octyl phthalate	122299-E2-LCS	100	70.5	71	47 - 120	
Di-n-octyl phthalate	L9912198-01-MS	100	61.55	62	11 - 112	
Benzo (b&k) fluoranthene	122299-E2-LCS	200	142.88	71	39 - 135	
Benzo (b&k) fluoranthene	L9912198-01-MS	200	127.84	64	32 - 138	
Benzo (a) pyrene	122299-E2-LCS	100	77.8	78	49 - 126	
Benzo (a) pyrene	L9912198-01-MS	100	65.4	65	25 - 110	
Indeno (1,2,3-c,d) pyrene	122299-E2-LCS	100	70.15	70	59 - 103	
Indeno (1,2,3-c,d) pyrene	L9912198-01-MS	100	61.01	61	24 - 108	
Dibenzo (a,h) anthracene	122299-E2-LCS	100	72.62	73	59 - 103	
Dibenzo (a,h) anthracene	L9912198-01-MS	100	63.14	63	25 - 110	
Benzo (g,h,i) perylene	122299-E2-LCS	100	71.15	71	53 - 105	
Benzo (g,h,i) perylene	L9912198-01-MS	100	61.58	62	20 - 114	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
MBAS	991218MBAS-LCS	0.1	0.099	99	80 - 120	
MBAS	L9912208-01-MS	0.1	0.153	103	69 - 119	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Hexavalent Chromium	991219CR-LCS	0.4	0.393	98	85 - 115	
Hexavalent Chromium	P9912061-01-MS	0.4	0.408	102 Hr	80 - 120	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Oil & Grease	991221OGW-LCS	100	115	115	80 - 120	
Oil & Grease	991221OGW-LCSD	100	113	113	80 - 120	1.8

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Waste Water

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Cyanide, TOTAL	991222CN-LCS	0.1	0.099	99	80 - 120	
Cyanide, TOTAL	991222CN-LCSD	0.1	0.101	101	80 - 120	2.
Cyanide, TOTAL	R9912037-01-MS	0.1	0.104	104	80 - 120	
Cyanide, TOTAL	R9912037-01-MSD	0.1	0.101	101	80 - 120	2.9

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Sulfide	991223SULF-LCS	0.107	0.095	89	85 - 115	
Sulfide	991223SULF-LCSD	0.107	0.101	95	85 - 115	6.1
Sulfide	L9912198-01-MS	0.107	0	0 JI	80 - 120	
Sulfide	L9912198-01-MSD	0.107	0	0 JI	80 - 120	0.

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
TKN (Total Kjeldahl Nitrogen)	991223tkn-LCS	1.25	1.4	112	70 - 130	
TKN (Total Kjeldahl Nitrogen)	L9912136-48-MS	1.25	1.3	0	70 - 130	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Ammonia, as N	991227NH3-LCS	1	1	100	85 - 115	
Ammonia, as N	L9912114-03-MS	1	0.99	99	80 - 120	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA
 TEST: Organochlorine Pesticides and PCB's by EPA 608, July 1993
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Aldrin	991227PSTW-LCS	1	0.82	82	42 - 122	
Aldrin	991227PSTW-LCSD	1	0.78	78	42 - 122	5.
alpha-BHC	991227PSTW-LCS	1	0.84	84	37 - 134	
alpha-BHC	991227PSTW-LCSD	1	0.8	80	37 - 134	4.9
beta-BHC	991227PSTW-LCS	1	0.86	86	17 - 147	
beta-BHC	991227PSTW-LCSD	1	0.78	78	17 - 147	9.8
delta-BHC	991227PSTW-LCS	1	0.84	84	19 - 140	
delta-BHC	991227PSTW-LCSD	1	0.8	80	19 - 140	4.9
Heptachlor	991227PSTW-LCS	1	0.94	94	34 - 111	
Heptachlor	991227PSTW-LCSD	1	0.9	90	34 - 111	4.3
4,4-DDD	991227PSTW-LCS	1	1.1	110	31 - 141	
4,4-DDD	991227PSTW-LCSD	1	1.08	108	31 - 141	1.8
4,4-DDE	991227PSTW-LCS	1	1.08	108	30 - 145	
4,4-DDE	991227PSTW-LCSD	1	1.06	106	30 - 145	1.9
4,4-DDT	991227PSTW-LCS	1	1.06	106	25 - 160	
Dieldrin	991227PSTW-LCS	1	0.94	94	36 - 146	
Dieldrin	991227PSTW-LCSD	1	0.9	90	36 - 146	4.3
Endosulfan I	991227PSTW-LCS	1	0.78	78	45 - 153	
Endosulfan I	991227PSTW-LCSD	1	0.74	74	45 - 153	5.3
Endosulfan II	991227PSTW-LCS	1	0.92	92	0.5 - 202	
Endosulfan II	991227PSTW-LCSD	1	1.08	108	0.5 - 202	16.
Endosulfan sulfate	991227PSTW-LCS	1	0.98	98	26 - 144	
Endosulfan sulfate	991227PSTW-LCSD	1	0.98	98	26 - 144	0.
Endrin	991227PSTW-LCS	1	0.96	96	30 - 147	
Endrin	991227PSTW-LCSD	1	0.94	94	30 - 147	2.1
Endrin aldehyde	991227PSTW-LCS	1	1.54	154	80 - 160	
Endrin aldehyde	991227PSTW-LCSD	1	1.5	150	80 - 160	2.6
Heptachlor epoxide	991227PSTW-LCS	1	0.84	84	37 - 142	
Heptachlor epoxide	991227PSTW-LCSD	1	0.82	82	37 - 142	2.4
gamma-BHC (Lindane)	991227PSTW-LCS	1	0.8	80	32 - 127	
gamma-BHC (Lindane)	991227PSTW-LCSD	1	0.76	76	32 - 127	5.1
Methoxychlor	991227PSTW-LCS	1	1.4	140	70 - 145	
Methoxychlor	991227PSTW-LCSD	1	1.56	156 J	70 - 145	10.8

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
COD	991228COD-LCS	500	456	91	85 - 115	
COD	L9912198-01-MS	500	359	64 JI	80 - 120	
COD	L9912198-01-MSD	500	355	63 JI	80 - 120	1.3

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA
 TEST: Metals
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Barium	L12198I-LCS	1	1	100	85 - 115	
Barium	L9912198-01-MS	1	1.01	99	75 - 125	
Barium	L9912198-01-MSD	1	1.01	99	75 - 125	0.
Beryllium	L12198I-LCS	0.1	0.103	103	85 - 115	
Beryllium	L9912198-01-MS	0.1	0.103	103	75 - 125	
Beryllium	L9912198-01-MSD	0.1	0.103	103	75 - 125	0.
Boron	L12198I-LCS	1	1.06	106	85 - 115	
Boron	L9912198-01-MS	1	6.14	124	75 - 125	
Boron	L9912198-01-MSD	1	6.11	121	75 - 125	2.4
Cadmium	L12198I-LCS	0.2	0.218	109	85 - 115	
Cadmium	L9912198-01-MS	0.2	0.228	114	75 - 125	
Cadmium	L9912198-01-MSD	0.2	0.229	115	75 - 125	0.4
Chromium	L12198I-LCS	0.5	0.544	109	85 - 115	
Chromium	L9912198-01-MS	0.5	1.49	114	75 - 125	
Chromium	L9912198-01-MSD	0.5	1.48	112	75 - 125	1.8
Copper	L12198I-LCS	0.5	0.504	101	85 - 115	
Copper	L9912198-01-MS	0.5	0.543	103	75 - 125	
Copper	L9912198-01-MSD	0.5	0.54	102	75 - 125	0.6
Iron	L12198I-LCS	1	1.06	106	85 - 115	
Iron	L9912198-01-MS	1	1.04	104	75 - 125	
Iron	L9912198-01-MSD	1	1.03	103	75 - 125	1.
Magnesium	L12198I-LCS	20	20.7	103	85 - 115	
Magnesium	L9912198-01-MS	20	300	150	C 75 - 125	
Magnesium	L9912198-01-MSD	20	303	165	C 75 - 125	9.5
Manganese	L12198I-LCS	0.5	0.531	106	85 - 115	
Manganese	L9912198-01-MS	0.5	1.62	104	75 - 125	
Manganese	L9912198-01-MSD	0.5	1.61	102	75 - 125	1.9
Molybdenum	L12198I-LCS	0.1	0.104	104	85 - 115	
Molybdenum	L9912198-01-MS	0.1	0.192	108	75 - 125	
Molybdenum	L9912198-01-MSD	0.1	0.19	106	75 - 125	1.9
Nickel	L12198I-LCS	1	1.08	108	85 - 115	
Nickel	L9912198-01-MS	1	1.04	104	75 - 125	
Nickel	L9912198-01-MSD	1	1.05	105	75 - 125	1.
Potassium	L12198I-LCS	20	19.8	99	85 - 115	
Potassium	L9912198-01-MS	20	58.1	111	75 - 125	
Potassium	L9912198-01-MSD	20	58.6	113	75 - 125	2.2
Silver	L12198I-LCS	0.5	0.502	100	85 - 115	
Silver	L9912198-01-MS	0.5	0.515	103	75 - 125	

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA
 TEST: Metals
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Silver	L9912198-01-MSD	0.5	0.515	103	75 - 125	0.
Sodium	L12198I-LCS	20	20	100	85 - 115	
Sodium	L9912198-01-MS	100	1690	90	75 - 125	
Sodium	L9912198-01-MSD	100	1680	80	75 - 125	11.8
Vanadium	L12198I-LCS	0.5	0.51	102	85 - 115	
Vanadium	L9912198-01-MS	0.5	0.581	103	75 - 125	
Vanadium	L9912198-01-MSD	0.5	0.579	102	75 - 125	0.4
Zinc	L12198I-LCS	0.5	0.54	108	85 - 115	
Zinc	L9912198-01-MS	0.5	0.598	120	75 - 125	
Zinc	L9912198-01-MSD	0.5	0.596	119	75 - 125	0.3

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: Wash Down
 PROJECT #: NA
 TEST: Metals
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Antimony	L12208M4-LCS	0.05	0.0516	103	85 - 115	
Antimony	L9912208-01-MS	0.05	0.0515	103	75 - 125	
Antimony	L9912208-01-MSD	0.05	0.0544	109	75 - 125	5.5
Arsenic	L12208M4-LCS	0.1	0.106	106	85 - 115	
Arsenic	L9912208-01-MS	0.1	0.118	107	75 - 125	
Arsenic	L9912208-01-MSD	0.1	0.123	112	75 - 125	4.6
Lead	L12208M4-LCS	0.05	0.0539	108	85 - 115	
Lead	L9912208-01-MS	0.05	0.0498	100	75 - 125	
Lead	L9912208-01-MSD	0.05	0.0522	104	75 - 125	4.7
Selenium	L12208M4-LCS	0.1	0.112	112	85 - 115	
Selenium	L9912208-01-MS	0.1	0.118	109	75 - 125	
Selenium	L9912208-01-MSD	0.1	0.125	116	75 - 125	6.2
Thallium	L12208M4-LCS	0.05	0.0532	106	85 - 115	
Thallium	L9912208-01-MS	0.05	0.0494	99	75 - 125	
Thallium	L9912208-01-MSD	0.05	0.0543	109	75 - 125	9.5

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Wash Down
PROJECT #: NA
TEST: Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Mercury	S12035i-Hg-LCS	0.005	0.00518	104	85 - 115	
Mercury	S9912035-01-MS	0.005	0.00527	105	70 - 130	
Mercury	S9912035-01-MSD	0.005	0.00536	107	70 - 130	1.7

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

December 27, 1999

ELAP No.: 1838

NEL Laboratories
4208 Arcata Way, Ste.A
Las Vegas, NV 89030


ATTN: Mike Empey

Client's Project: L9912208
Lab No.: 40511-001

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562) 989 - 4045 if I can be of further assistance to your company.

Sincerely,


Cheryl De Los Reyes
Technical Operations Manager
CDR/se

Enclosures

This cover letter is an integral part of this analytical report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.



Advanced Technology
Laboratories

1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: NEL Laboratories
Attn: Mike Empey

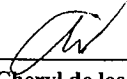
Client's Project: L9912208

Date Received: 12/21/99

Date Sampled: 12/17/99

Lab No.	Sample ID.	Analysis	Date Analyzed	Results	Matrix, Units	MDL	DLR	Analyst
40511-011	Wash Down Gradient	EPA 377.1 (Sulfite)	12/21/99	1.2	Water, mg/L	1.0	1.0	NS

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DF = Dilution Factor (DLR/MDL)

Reviewed/Approved By: 
Cheryl de los Reyes
Technical Operations Manager

Date: 12/21/99



The cover letter is an integral part of this analytical report.

Advanced Technology
Laboratories

1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Cover Letter

01/05/2000

Mike Empey
NEL Laboratories, Las Vegas
4208 Arcata Way, Ste A
Las Vegas, NV 89030

BSK Submission Number: 1999120678

Dear Mike Empey:

BSK Analytical Laboratories adheres to a quality assurance plan that has been approved by the State of California Department of Health Services. Our Environmental Laboratory Accreditation Program (ELAP) certification number is 1180.

BSK Analytical Laboratories has prepared this certificate of analysis in response to your request for analytical services. All information was taken from your Chain of Custody or related correspondence. BSK completed all sample handling and analytical procedures within the Laboratory's standard acceptability criteria with any exceptions noted below.

Samples Comments

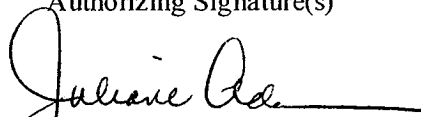
Submission Order	Test / Analyte	Comment
1999120678 17202	615 - Chlorinated Herbicides	Sample hold time exceeded due to lab error.

If additional clarification of any information is required, please contact our Client Services Department at (800)877-8310 or (559)497-2888.


Sincerely,

BSK Analytical Laboratories

Authorizing Signature(s)


Juliane Adams
Organic Laboratory Supervisor

Ko Yang
Inorganic Laboratory Supervisor


Cynthia Pignatelli
QA/QC Supervisor

Mike Empey
 NEL Laboratories, Las Vegas
 4208 Arcata Way, Ste A
 Las Vegas, NV 89030

Certificate of Analysis

Report Issue Date: 01/05/2000

BSK Submission #: 1999120678

BSK Sample ID #: 17202

Project ID: 9912208

Project Desc:

Submission Comments:

Sample Type: Liquid

Date Sampled: 12/17/1999

Sample Description: Wash Downgradient

Time Sampled:

Sample Comments:

Date Received: 12/21/1999

Organics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date	Analysis Date	
2,4,5-T	EPA 615	ND	µg/L	0.02	1	0.02	12/27/1999	01/02/2000	H
2,4,5-TP (Silvex)	EPA 615	ND	µg/L	0.01	1	0.01	12/27/1999	01/02/2000	H
2,4-D	EPA 615	ND	µg/L	0.04	1	0.04	12/27/1999	01/02/2000	H
2,4-DB	EPA 615	ND	µg/L	0.1	1	0.1	12/27/1999	01/02/2000	H
Dichloroprop	EPA 615	ND	µg/L	0.1	1	0.1	12/27/1999	01/02/2000	H
Dinoseb (DNBP)	EPA 615	ND	µg/L	0.01	1	0.01	12/27/1999	01/02/2000	H

mg/L: milligrams/liter (ppm)
 mg/Kg: milligrams/kilogram (ppm)
 µg/L: micrograms/liter (ppb)
 µg/Kg: micrograms/kilogram (ppb)
 %Rec: percent recovered (surrogates)

PQL: practical quantitation limit
 DLR: detection limit for reporting
 : PQL x Dilution
 ND: none detected at DLR

H: analyzed outside of hold time
 P: preliminary result
 S: suspect result

BSK ANALYTICAL LABORATORIES

QC Summary Report

01/06/2000

BSK Submission : 1999120678
Client : NEL Laboratories, Las Vegas
Date Submitted : 12/21/1999
Project ID : 9912208
Project Desc :

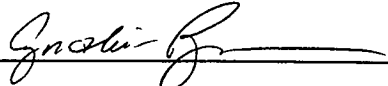
BSK StarLims Run #: 3564

Analyte Results

Analyte	QC Type	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	UCL	LCL	Date	
2,4,5-T	LCS	1	µg/L	83		1.2	130	70	01/02/00	Acceptable
2,4,5-TP (Silvex)	LCS	0.6	µg/L	100		.6	130	70	01/02/00	Acceptable
2,4-D	LCS	2.5	µg/L	104		2.4	130	70	01/02/00	Acceptable
2,4-DB	LCS	5.8	µg/L	96		6	130	70	01/02/00	Acceptable
Dichloroprop	LCS	5.3	µg/L	88		6	130	70	01/02/00	Acceptable
Dinoseb (DNBP)	LCS	0.7	µg/L	116		.6	130	70	01/02/00	Acceptable
2,4,5-T	LCSD	1.1	µg/L	91	9.6	1.2	130	70	01/02/00	Acceptable
2,4,5-TP (Silvex)	LCSD	0.6	µg/L	100	0.0	.6	130	70	01/02/00	Acceptable
2,4-D	LCSD	2.8	µg/L	116	11	2.4	130	70	01/02/00	Acceptable
2,4-DB	LCSD	5.7	µg/L	95	1.8	6	130	70	01/02/00	Acceptable
Dichloroprop	LCSD	5.5	µg/L	91	3.8	6	130	70	01/02/00	Acceptable
Dinoseb (DNBP)	LCSD	0.7	µg/L	116	0.0	.6	130	70	01/02/00	Acceptable
2,4,5-T	RBLK	0	µg/L	< 0.02			0.02	N/A	01/02/00	Acceptable
2,4,5-TP (Silvex)	RBLK	0	µg/L	< 0.01			0.01	N/A	01/02/00	Acceptable
2,4-D	RBLK	0	µg/L	< 0.04			0.04	N/A	01/02/00	Acceptable
2,4-DB	RBLK	0	µg/L	< 0.1			0.1	N/A	01/02/00	Acceptable
Dichloroprop	RBLK	0	µg/L	< 0.1			0.1	N/A	01/02/00	Acceptable
Dinoseb (DNBP)	RBLK	0	µg/L	< 0.01			0.01	N/A	01/02/00	Acceptable

Surrogate Results

Analyte	QC Type	Surr. Result	UCL	LCL	Date	
DCPAA	LCS	95 % Rec	130	70	01/02/00	Acceptable
DCPAA	LCSD	91.7 % Rec	130	70	01/02/00	Acceptable
DCPAA	RBLK	71.5 % Rec	130	70	01/02/00	Acceptable

Approved by: 

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL

**Acculabs Inc.****Golden** 4663 Table Mountain Drive, Golden CO 80403 ■ 303-277-9514 ■ Fax 277-9512

Date: 01/17/00

Page 1 - A

CASE NARRATIVE

Mr Mike Empy
NEL Laboratories
4208 Arcata Way
Ste A
Las Vegas, NV 89030

Lab Job Number: 035572 NEL004
Date Samples Received: 12/21/99

The following samples were received at the laboratory:

99-A27443

Water

The samples were received within EPA recommended holding times and in good condition. The radioactivity screen was performed at sample login, if required, and all results were within acceptable limits. If required, a pH screen confirmed that all samples were preserved to acceptable pH levels. Samples were analyzed within holding times as prescribed by the analytical method. Exceptions to these statements, additional information and any analytical anomalies are noted below.

The temperature of the samples upon arrival was 6 degrees C. In general, the EPA recommends the samples be maintained at a temperature range of 2 to 6 degrees C.

Sections A, B and C of this report contain a total of 3 pages.

Trudy L. Scott
Laboratory Manager

Acculabs Inc.

Date: 01/17/00
Page 1 - B

REPORT OF ANALYSIS

Mr Mike Empy
NEL Laboratories
4208 Arcata Way
Ste A
Las Vegas, NV 89030Lab Job Number: 035572 NEL004
Date Samples Received: 12/21/99

Acculabs Designation:	99-A27443
Client Designation:	01
Sample Location:	Wash-Downgradient
Location II:	
Date/Time Collected	12/17/99

General Chemistry (results in mg/L unless noted):
Total Organic Carbon 6

NOTES:

Scheduled sample disposal/return date: February 16, 2000.

Trudy L. Scott
Laboratory Manager



Acculabs Inc.

Date: 01/17/00
Page 1 - C

QA/QC Report for Acculabs Job Number 035572

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Total Organic Carbon	1 mg/L	1/11/00	0:30	SRB	415.1

Lab Sample Number: 99-A27443
Client Sample ID: 01

Approved by : TH Date : 1-17-00

December 21, 1999

**WEST LAKES
LABORATORY**

LABORATORY ANALYSIS REPORT

TO:

**NEVADA ENVIRONMENTAL LABORATORY
ATTN: Vanessa
4208 Arcata Way, Suite A
Las Vegas, NV 89030**

FROM:

**Suzanne Paulson
Laboratory Manager**

Date Sampled	Date Analyzed	Sample Location	Sample C-of-C #	Analysis	Results	Detection Limit
12-17-99	12-17-99	Wash - Down Gradient	L9912208-01	Total Coliform	1600 MPN/ 100 ml	2 MPN/ 100 ml

Total Coliform's are analyzed according to Standard Methods 18th Edition, Method #9221-B.

Nevada State Certification: NV047

Thank You



Suzanne Paulson

2545 Chandler Avenue, Suite #8
Las Vegas, NV 89120
Tel: 702-739-8786 Fax: 702-739-8875

NEL LABORATORIES

Reno • Las Vegas
Phoenix • So. California

Las Vegas Division • 4208 Arcata Way, Ste. A • Las Vegas, NV 89030
(702) 657-1010 • FAX: (702) 657-1577 • 1-888-368-3282

Company: Kerr-McGee Chemical LLC Attention: SUSAN CROWLEY
Address: 12/27

Phone Number: 651-2234 Fax Number: 651-2310

Billing Address: 12/27 Expected Due Date:

Requested Turnaround: 5-day 2-day 1-day Other

Time/Date Sampled: 12-17-99 Customer Sample Identification: Wash - Down gradient Identification: 01 N.E.L.

Custody Seal intact? Y N None Temp. 10°C
Condition when received good

CHAIN OF CUSTODY

NEL Work Order: 69912208

Project Name:	Project Number:	Sampled By:	Remarks
<u>WASH DDON</u>		<u>SmLunley</u>	
Purchase Order Number:			
# of Containers	<u>30</u>		
Matrix (Box #1)	<u>F</u>		
Preservative (Box #2)			
Analysis			
<u>625 @ 644 (2) 608 @ 645 (2)</u>			
<u>oil grease (2)</u>			
<u>COD, TOC (2)</u>			
<u>Misc. Inorganics, MISC</u>			
<u>Meth BOD, MBRS</u>			
<u>Phenol</u>			
<u>NH3, Total N, Cyanide</u>			
<u>Sulfide, Color, Sulfite</u>			
<u>Total P, Color, Sulfite</u>			
<u>624 (to use vials)</u>			
			<u>REMOVED ONE</u>
			<u>SPARE SAMPLED</u>
			<u>Received 30 Bottles</u>
			<u>altogether including</u>
			<u>The spare TF</u>
			<u>LABOR 4</u>

Box #1	Box #2
DW - Drinking Water WW - Waste Water OL - Oil/Organic Liquid	A. HCl B. HNO ₃ C. H ₂ SO ₄ D. NaOH
SD - Solid AQ - Aqueous A - Air	E. Ice Only F. Other G. Not Preserved

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
<u>SUSAN CROWLEY</u>	<u>SmLunley</u>	<u>12/17/99 11:20</u>	<u>Will Balick</u>	<u>Will Balick</u>	<u>12/17/99 11:20</u>
<u>Will Balick</u>	<u>Will Balick</u>	<u>12/17/99 11:45</u>	<u>TALIA FOTEV</u>	<u>Talia Fotev</u>	<u>12/17/99 11:45</u>

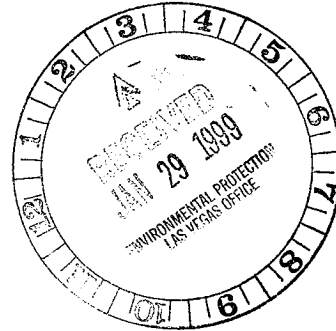
The liability of NEL Laboratories Inc. is limited strictly to the price of sample analysis for those samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including adequate sample volume and number of containers. Customer signature of this CoC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard List Prices for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround times are measured in regular working days. Samples received at the laboratory after 16:30 will be considered received on the next working day. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.



KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 55 - HENDERSON, NEVADA 89009

January 27, 1999



Ms. Valerie King
Nevada Division of Environmental Protection
333 West Nye Lane
Carson City, NV 89706-0851

Dear Ms. King:

Subject: UIC Permit # NEV94218 Permit – Fourth Quarter 1999

This report is required by and prepared specifically for the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

Kerr-McGee Chemical LLC (KMCLLC) maintains an Underground Injection Control (UIC) Permit #NEV94218 for groundwater remediation at the Henderson, Nevada facility. KMCLLC has recently received approval from the NDEP for modification of its UIC Permit to allow the introduction of Lake Mead water into the injection/recharge trenches. This introduction started December 30, 1998. Pursuant to Section I.A.3, a sample of the Lake Mead water injectate was collected and analyzed for December, 1998. Please see Attachment 1 for analytical information. Note that due to the abbreviated nature of the December use of Lake Mead water as injectate, perchlorate analysis is not available at the time. These analyses typically required 4 to 6 weeks. This information will be submitted as it is received.

Section I.A.3 also requires quarterly groundwater monitoring, which will begin in the first quarter of 1999.

Please feel free to call Susan Crowley at (702) 651-2234 if you have any questions regarding this request. Thank you.

Sincerely,

Patrick S. Corbett
Plant Manager

Attachment
By certified mail

cc: SMCrowley
G Davis
ALDooley
WOGreen
MJPorterfield
Doug Zimmerman, NDEP
Brenda Pohlmann, NDEP

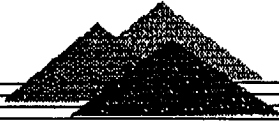
ATTACHMENT 1

Lake Mead Water
Analytical Information

NEL LABORATORIES

Reno • Las Vegas
Phoenix • Burbank

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282



CLIENT: Kerr-McGee Chemical Corporation
8000 West Lake Mead Drive
Henderson, NV 89015
ATTN: Mark Porterfield

PROJECT NAME: GWTP-UIC
PROJECT NUMBER: NA

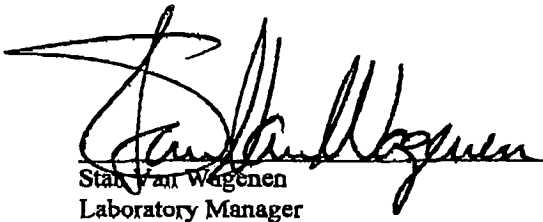
NEL ORDER ID: L9901126

Attached are the analytical results for samples in support of the above referenced project.

Samples were received by NEL in good condition, under chain of custody on 1/15/99.

Samples were analyzed as received.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.


Stan Paul Wagener
Laboratory Manager

1/25/99
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>		<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0583	Idaho	Certified	Certified	
California	1707	2002	2264	Montana	Certified	Certified	
US Army Corps of Engineers	Certified	Certified	Certified	Nevada	NV033	NV052	CA084
				L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT NAME: GWTP-UIC
 PROJECT NUMBER: NA

CLIENT ID: GWTP-UIC
 DATE SAMPLED: 1/15/99
 NEL SAMPLE ID: L9901126-01

TEST: Metals
 MATRIX: Drinking Water

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	ND	0.025 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Antimony	ND	0.001 mg/L	1	EPA 200.8	1/21/99	1/21/99
Arsenic	ND	0.001 mg/L	1	EPA 200.8	1/21/99	1/21/99
Barium	0.096	0.0025 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Boron	0.13	0.01 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Calcium	76	0.25 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Copper	ND	0.0025 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Iron	0.15	0.05 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Lead	ND	0.001 mg/L	1	EPA 200.8	1/21/99	1/21/99
Magnesium	27	0.25 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Manganese	0.038	0.0025 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Mercury	ND	0.0002 mg/L	1	EPA 245.1	1/19/99	1/19/99
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Potassium	4.4	1. mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Selenium	0.0024	0.001 mg/L	1	EPA 200.8	1/21/99	1/21/99
Silver	ND	0.005 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Sodium	86	0.25 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Thallium	ND	0.0005 mg/L	1	EPA 200.8	1/21/99	1/21/99
Zinc	0.90	0.05 mg/L	0.5	EPA 200.7	1/18/99	1/19/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT NAME: GWTP-UIC
PROJECT NUMBER: NA

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L01126-Hg-BLK

TEST: Metals

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Mercury	ND	0.0002 mg/L	1	EPA 245.1	1/19/99	1/19/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT NAME: GWTP-UIC
 PROJECT NUMBER: NA

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: L01126i-BLK

TEST: Metals

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	ND	0.025 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Barium	ND	0.0025 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Boron	ND	0.01 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Calcium	ND	0.25 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Copper	ND	0.0025 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Iron	ND	0.05 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Magnesium	ND	0.25 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Manganese	ND	0.0025 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Potassium	ND	1. mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Silver	ND	0.005 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Sodium	ND	0.25 mg/L	0.5	EPA 200.7	1/18/99	1/19/99
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	1/18/99	1/19/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT NAME: GWTP-UIC
 PROJECT NUMBER: NA

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: L01126M-BLK

TEST: Metals

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Antimony	ND	0.001 mg/L	1	EPA 200.8	1/21/99	1/21/99
Arsenic	ND	0.001 mg/L	1	EPA 200.8	1/21/99	1/21/99
Lead	ND	0.001 mg/L	1	EPA 200.8	1/21/99	1/21/99
Selenium	ND	0.001 mg/L	1	EPA 200.8	1/21/99	1/21/99
Thallium	ND	0.0005 mg/L	1	EPA 200.8	1/21/99	1/21/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT NAME: GWTP-UIC
 PROJECT NUMBER: NA

CLIENT ID: GWTP-UIC
 DATE SAMPLED: 1/15/99 4:03:
 NEL SAMPLE ID: L9901126-01

TEST: Volatile Organic Compounds by EPA 8260B, Dec. 1996

METHOD: EPA 8260

MATRIX: Drinking Water

DILUTION: 1

EXTRACTED: 1/20/99

ANALYZED: 1/20/99

ANALYST: SEJ

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acetone	ND	25. µg/L	2,2-Dichloropropane	ND	10. µg/L
Benzene	ND	5. µg/L	1,1-Dichloropropene	ND	5. µg/L
Bromobenzene	ND	5. µg/L	cis-1,3-Dichloropropene	ND	5. µg/L
Bromochloromethane	ND	5. µg/L	trans-1,3-Dichloropropene	ND	5. µg/L
Bromodichloromethane	ND	5. µg/L	Ethylbenzene	ND	5. µg/L
Bromoform	ND	5. µg/L	Hexachlorobutadiene	ND	5. µg/L
Bromomethane	ND	5. µg/L	2-Hexanone	ND	25. µg/L
2-Butanone	ND	25. µg/L	Iodomethane	ND	5. µg/L
n-Butylbenzene	ND	5. µg/L	Isopropylbenzene	ND	5. µg/L
sec-Butylbenzene	ND	5. µg/L	p-Isopropyltoluene	ND	5. µg/L
tert-Butylbenzene	ND	5. µg/L	Methylene chloride (Dichloromethane)	ND	5. µg/L
Carbon disulfide	ND	5. µg/L	4-Methyl-2-pentanone	ND	25. µg/L
Carbon tetrachloride	ND	5. µg/L	MTBE	ND	5. µg/L
Chlorobenzene	ND	5. µg/L	Naphthalene	ND	10. µg/L
Chloroethane	ND	5. µg/L	n-Propylbenzene	ND	5. µg/L
Chloroform	ND	5. µg/L	Styrene	ND	5. µg/L
Chloromethane	ND	5. µg/L	1,1,1,2-Tetrachloroethane	ND	5. µg/L
2-Chlorotoluene	ND	5. µg/L	1,1,2,2-Tetrachloroethane	ND	5. µg/L
4-Chlorotoluene	ND	5. µg/L	Tetrachloroethene (PCE)	ND	5. µg/L
Dibromochloromethane	ND	5. µg/L	Toluene	ND	5. µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/L	1,2,3-Trichlorobenzene	ND	5. µg/L
1,2-Dibromoethane (EDB)	ND	5. µg/L	1,2,4-Trichlorobenzene	ND	5. µg/L
Dibromomethane	ND	5. µg/L	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/L
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/L	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/L
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/L	Trichloroethene (TCE)	ND	5. µg/L
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/L	Trichlorofluoromethane (Freon 11)	ND	10. µg/L
Dichlorodifluoromethane (Freon 12)	ND	5. µg/L	1,2,3-Trichloropropane	ND	5. µg/L
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/L	1,2,4-Trimethylbenzene	ND	5. µg/L
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/L	1,3,5-Trimethylbenzene	ND	5. µg/L
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/L	Vinyl chloride	ND	5. µg/L
cis-1,2-Dichloroethene	ND	5. µg/L	o-Xylene	ND	5. µg/L
trans-1,2-Dichloroethene	ND	5. µg/L	m,p-Xylene	ND	5. µg/L
1,2-Dichloropropane	ND	5. µg/L			
1,3-Dichloropropane	ND	5. µg/L			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	102	86 - 115
Dibromofluoromethane	106	86 - 118
Toluene-d8	101	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT NAME: GWTP-UIC
 PROJECT NUMBER: NA

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: 9901201W60-BLK

TEST: Volatile Organic Compounds by EPA 8260B, Dec. 1996
 MATRIX: Drinking Water

EXTRACTED: 1/20/99
 ANALYZED: 1/20/99

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acetone	ND	25 µg/L	1,1-Dichloropropene	ND	5 µg/L
Benzene	ND	5 µg/L	cis-1,3-Dichloropropene	ND	5 µg/L
Bromobenzene	ND	5 µg/L	trans-1,3-Dichloropropene	ND	5 µg/L
Bromochloromethane	ND	5 µg/L	Ethylbenzene	ND	5 µg/L
Bromodichloromethane	ND	5 µg/L	Hexachlorobutadiene	ND	5 µg/L
Bromoform	ND	5 µg/L	2-Hexanone	ND	25 µg/L
Bromomethane	ND	5 µg/L	Iodomethane	ND	5 µg/L
2-Butanone	ND	25 µg/L	Isopropylbenzene	ND	5 µg/L
n-Butylbenzene	ND	5 µg/L	p-Isopropyltoluene	ND	5 µg/L
sec-Butylbenzene	ND	5 µg/L	Methylene chloride (Dichloromethane)	ND	5 µg/L
tert-Butylbenzene	ND	5 µg/L	4-Methyl-2-pentanone	ND	25 µg/L
Carbon disulfide	ND	5 µg/L	MTBE	ND	5 µg/L
Carbon tetrachloride	ND	5 µg/L	Naphthalene	ND	10 µg/L
Chlorobenzene	ND	5 µg/L	n-Propylbenzene	ND	5 µg/L
Chloroethane	ND	5 µg/L	Styrene	ND	5 µg/L
Chloroform	ND	5 µg/L	1,1,1,2-Tetrachloroethane	ND	5 µg/L
Chloromethane	ND	5 µg/L	1,1,2,2-Tetrachloroethane	ND	5 µg/L
2-Chlorotoluene	ND	5 µg/L	Tetrachloroethene (PCE)	ND	5 µg/L
4-Chlorotoluene	ND	5 µg/L	Toluene	ND	5 µg/L
Dibromochloromethane	ND	5 µg/L	1,2,3-Trichlorobenzene	ND	5 µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	5 µg/L	1,2,4-Trichlorobenzene	ND	5 µg/L
1,2-Dibromoethane (EDB)	ND	5 µg/L	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5 µg/L
Dibromomethane	ND	5 µg/L	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5 µg/L
1,2-Dichlorobenzene (o-DCB)	ND	5 µg/L	Trichloroethene (TCE)	ND	5 µg/L
1,3-Dichlorobenzene (m-DCB)	ND	5 µg/L	Trichlorofluoromethane (Freon 11)	ND	10 µg/L
1,4-Dichlorobenzene (p-DCB)	ND	5 µg/L	1,2,3-Trichloropropane	ND	5 µg/L
Dichlorodifluoromethane (Freon 12)	ND	5 µg/L	1,2,4-Trimethylbenzene	ND	5 µg/L
1,1-Dichloroethane (1,1-DCA)	ND	5 µg/L	1,3,5-Trimethylbenzene	ND	5 µg/L
1,2-Dichloroethane (1,2-DCA)	ND	5 µg/L	Vinyl chloride	ND	5 µg/L
1,1-Dichloroethene (1,1-DCE)	ND	5 µg/L	o-Xylene	ND	5 µg/L
cis-1,2-Dichloroethene	ND	5 µg/L	m,p-Xylene	ND	5 µg/L
trans-1,2-Dichloroethene	ND	5 µg/L			
1,2-Dichloropropane	ND	5 µg/L			
1,3-Dichloropropane	ND	5 µg/L			
2,2-Dichloropropane	ND	10 µg/L			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	100	86 - 115
Dibromofluoromethane	104	86 - 118
Toluene-d8	101	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kert-McGee Chemical Corporation
 PROJECT ID: GWTP-UIC/NA
 PROJECT #: NA

CLIENT ID: GWTP-UIC
 DATE SAMPLED: 1/15/99
 NEL SAMPLE ID: L9901126-01

TEST: Inorganic Non-Metals
 MATRIX: Drinking Water

PARAMETER	RESULT	REPORTING		METHOD	UNITS	ANALYZED
		LIMIT	D. F.			
Alkalinity - Bicarbonate	140	25.	1	SM 2320 B	mg/L	1/21/99
Alkalinity - Carbonate	ND	25.	1	SM 2320 B	mg/L	1/21/99
Alkalinity - Hydroxide	ND	25.	1	SM 2320 B	mg/L	1/21/99
Alkalinity, Total	140	25.	1	SM 2320 B	mg/L	1/21/99
Chloride	72	5.	50	EPA 300.0	mg/L	1/19/99
Cyanide, WAD	ND	0.02	1	SM 4500-CN I	mg/L	1/20/99
Fluoride	0.43	0.4	1	SM 4500-F C	mg/L	1/19/99
Nitrate, as N	ND	0.2	1	EPA 300.0	mg/L-N	1/15/99
pH	7.50	2.	1	EPA 150.1	pH Units	1/15/99
pH Temperature	14.7	1.	1	EPA 150.1	°C	1/15/99
Sulfate	210	5.	50	EPA 300.0	mg/L	1/19/99
Total Dissolved Solids	510	25.	1	SM 2540 C	mg/L	1/18/99
Total Phosphorous	0.010	0.01	1	SM 4500-P E	mg/L-P	1/18/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: GWTP-UIC/NA
 PROJECT #: NA

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: 990115ICDW-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Bromide	ND	0.2	1	EPA 300.0	mg/L	1/15/99
Chloride	ND	0.1	1	EPA 300.0	mg/L	1/15/99
Fluoride	ND	0.1	1	EPA 300.0	mg/L	1/15/99
Nitrate, as N	ND	0.2	2	EPA 300.0	mg/L-N	1/15/99
Nitrite, as N	ND	0.1	1	EPA 300.0	mg/L-N	1/15/99
Sulfate	ND	0.1	1	EPA 300.0	mg/L	1/15/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: GWTP-UIC/NA
PROJECT #: NA

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 990118TDS-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Total Dissolved Solids	ND	25	1	SM 2540 C	mg/L	1/18/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: GWTP-UIC/NA
PROJECT #: NA
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 990118TP-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Total Phosphorous	ND	0.01	1	SM 4500-P E	mg/L-P	1/18/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
 PROJECT ID: GWTP-UIC/NA
 PROJECT #: NA
 TEST: Non-Metals

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: 990119ICAQ-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Bromide	ND	0.2	1	EPA 300.0	mg/L	1/19/99
Chloride	ND	0.1	1	EPA 300.0	mg/L	1/19/99
Fluoride	ND	0.1	1	EPA 300.0	mg/L	1/19/99
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	1/19/99
Nitrite, as N	ND	0.1	1	EPA 300.0	mg/L-N	1/19/99
Sulfate	ND	0.1	1	EPA 300.0	mg/L	1/19/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: GWTP-UIC/NA
PROJECT #: NA

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 990120CNWAD-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Cyanide, WAD	ND	0.02	1	SM 4500-CN I	mg/L	1/20/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: GWTP-UIC/NA
PROJECT #: NA

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 990121ALK-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Alkalinity - Bicarbonate	ND	25	1	SM 2320 B	mg/L	1/21/99
Alkalinity - Carbonate	ND	25	1	SM 2320 B	mg/L	1/21/99
Alkalinity - Hydroxide	ND	25	1	SM 2320 B	mg/L	1/21/99
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	1/21/99

D.F. - Dilution Factor

ND - Not Detected

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Las Vegas Division • 4208 Arcata Way, Ste. A • Las Vegas, NV 89030
(702) 657-1010 • FAX: (702) 657-1577 • 1-888-368-3282

Company: Kerr-McGee Attn: M Porterheld
Address: P.O. Box 55
HENDERSON, NV 89009
Phone No.: 651-2200 Fax No.: 651-2310
Billing Address: _____
Expected Due Date: 1/22

Requested Turnaround: X 5 Day (Normal) 48 Hr. 24 Hr. Other _____
Sample Date/Time _____ Sample ID _____ N.E.L. Identification L990126-01

CHAIN OF CUSTODY

Project Name: GWTP-UIC Project No.: _____
P.O. No.: _____ Sampled By: Joel
Analysis
Expected Concentration (Box #3) _____
Preservative (Box #2) _____
Matrix (Box #1) _____
of Containers _____

Box #1	Box #2	Box #3	Box #4	Box #5	Box #6	Box #7	Box #8	Box #9	Box #10	Box #11	Box #12	Box #13	Box #14	Box #15	Box #16	Box #17	Box #18	Box #19	Box #20	
7	N	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VOC - 8260 Perchlorate I Perchlorate to Mont. Watson along w/ level 4 report received & contains 1/15/99 15:45																				

Box #1: DW - Drinking Water, WW - Waste Water, RW - RCRA Water, CL - Oil, SG - Sludge
Box #2: SO - Sol, SD - Solid, AQ - Aqueous, A - All
Box #3: A - HCl, B - HNO₃, C - H₂SO₄, D - NaOH
Box #4: E - Ice Only, F - Other, G - Not Preserved
Box #5: M - High, N - Medium, L - Low, U - Unknown

Custody Seal intact? Y N None Temp. 8°C
Condition when received good

Received by (Print)	(Signature)	Date/Time
1 Mark Porterheld	<i>M Porterheld</i>	1/15/99 15:00
2 Ric Onlaesa	<i>Ric Onlaesa</i>	1/15/99 15:45
3 Ric Casanova	<i>Ric Casanova</i>	1/15/99 15:05
4 M. Galvan	<i>M. Galvan</i>	1/15/99 15:45

This report is applicable only to the sample received by the laboratory. The liability of this laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.



KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 55 - HENDERSON, NEVADA 89009

January 26, 2000



Ms. Valerie King
Nevada Division of Environmental Protection
333 West Nye Lane
Carson City, NV 89706-0851

Dear Ms. King:

Subject: UIC Permit # NEV94218 Permit - Fourth Quarter 1999

This report is required by, and prepared specifically for, the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

Kerr-McGee Chemical LLC (KMCLLC) maintains an Underground Injection Control (UIC) Permit #NEV94218 for groundwater remediation at its Henderson, Nevada, facility. Pursuant to Section I.A.3, samples of the Lake Mead water injectate were collected and analyzed for October, November, and December 1999. Please see Attachment 1 for analytical information. Also, note that the sampling and analytical information gathered on a monthly basis from Lake Mead water does not vary appreciably from month to month. This is expected due to the large capacity of Lake Mead and the fairly consistent inflows. KMCLLC again requests that the frequency of UIC Permit monitoring of the Lake Mead water quality be modified to quarterly.

Section I.A.3 requires quarterly groundwater monitoring, which began in the first quarter 1999. This information is provided in Attachment 2, with the exception of total perchlorate analyses. Total perchlorate analytical results have not yet been received from the lab (Montgomery and Watson, Pasadena, California). These will be provided as they are available.

Section I.A.3 requires that the injection rate monthly average be less than the extraction rate monthly average. Average flows of Lake Mead water injection and groundwater extraction are listed in Attachment 2.

Also included with this report, as Attachment 3, is a map of the facility with wells noted which are associated with Permit # NEV94218.

Please feel free to call Susan Crowley (702) 651-2234 if you have any questions regarding this request. Thank you.

Sincerely,

F. R. Stater for
F. R. Stater
Plant Manager

By certified mail
Attachments

cc: PSCorbett
SMCrowley
WOGreen
MJPorterfield
Doug Zimmerman, NDEP
Brenda Pohlmann, NDEP ✓

ATTACHMENT 2

UIC Permit
Monitoring

-

Water Elevations

Analytical Information

Flow Rates

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
QUARTERLY GROUNDWATER ELEVATIONS (feet)

Date	M-25		M-38		M-80		M-82A		M-86		M-94		M-96		M-98		M-99		M-100		M-102	
	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV
Jan-99	33.30	1726.63	30.90	1728.83	30.90	1715.14	23.20	1717.01	25.20	1719.03	10.00	1685.07	8.40	1685.09	25.80	1706.11	25.68	1705.06	24.08	1706.85	29.90	1710.34
Feb-99	33.35	1726.58	30.94	1728.79	30.50	1715.54	23.00	1717.21	25.00	1719.23	9.87	1685.20	8.29	1685.20	25.80	1706.11	25.65	1705.09	24.14	1706.79	30.00	1710.24
Mar-99	33.40	1726.53	31.00	1728.73	31.95	1714.09	24.29	1715.92	27.00	1717.23	9.80	1688.34	8.29	1685.20	26.22	1705.69	25.98	1704.76	24.57	1706.36	30.75	1709.49
May-99	33.40	1726.53	30.95	1728.78	32.56	1713.48	24.72	1715.49	27.88	1716.35	8.73	1689.41	8.16	1685.33	27.00	1705.51	26.29	1704.45	24.85	1706.08	31.06	1709.18
Aug-99	33.76	1726.17	31.31	1728.42	33.05	1712.99	25.4	1714.81	28.78	1715.45	9.90	1688.24	8.31	1685.18	28.68	1705.19	27.34	1703.5	25.75	1705.18	31.7	1708.54
Nov-99	34	1725.93	34.41	1725.32	31.6	1714.44	25.78	1714.43	29.62	1714.61	10.4	1687.74	8.73	1684.76	29.58	1704.29	27.96	1702.88	26.37	1704.56	32.31	1707.93

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
TOTAL DISSOLVED SOLIDS (mg/l) ANALYSES

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	6,200	18,700	NA	15,900	18,800	11,800	12,000	11,000
5-3-99	6,430	17,600	11,200	20,200	15,300	13,100	11,800	11,400
8-9-99	4,960	20,000	11,040	13,300	10,900	11,600	11,600	16,900
11-8-99	4,570	15,800	10,700	20,100	19,100	12,200	11,600	7,310

NA – Not analyzed, monitoring began in 2nd quarter 1999.

**KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility**

**UIC PERMIT MONITORING WELLS
TOTAL PERCHLORATE (mg/l) ANALYSES**

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	250	3,000	1,300	3,000	14,000	1,700	2,000	1,400
5-3-99	115	2300	1,200	2,800	12,600	1,200	1,600	1,300
8-9-99	64	2,100	1,500	2,900	3,800	1,600	2,100	120
11-8-99	*	*	*	*	*	*	*	*

* Not yet received from the lab.

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT
INJECTION AND EXTRACTION RATES (gpm)

MONTH	EXTRATION RATE	INJECTION RATE
January 1999	59	25
February	54	25
March	45	25
April	51	18
May	42	18
June	24	20
July	27	23
August	29	24
September	26	23
October	26.5	26.3
November	25.7	25.5
December 1999	25.5	24.4
January 2000		
February		
March		

ATTACHMENT 3

Facility Well Map

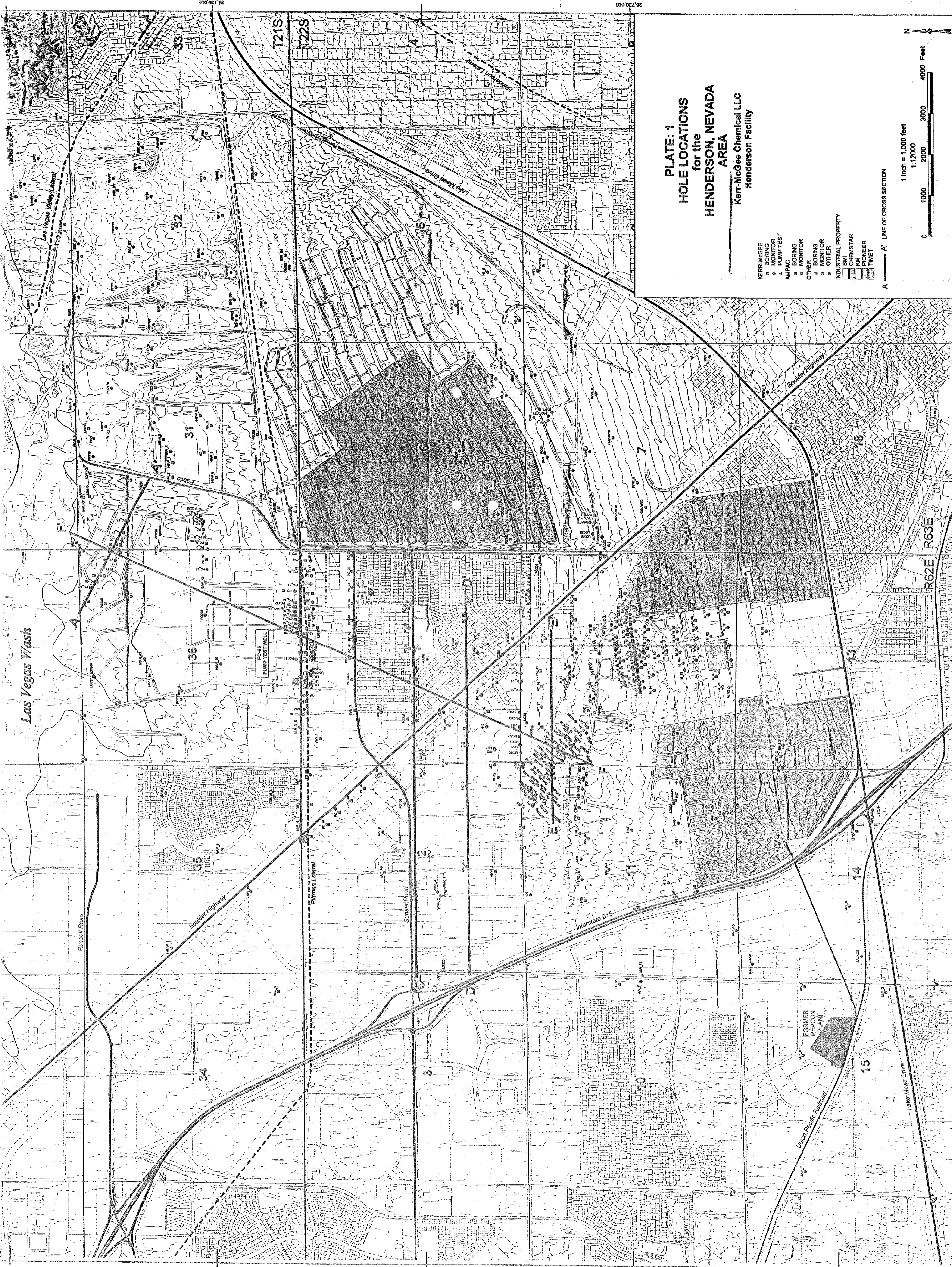
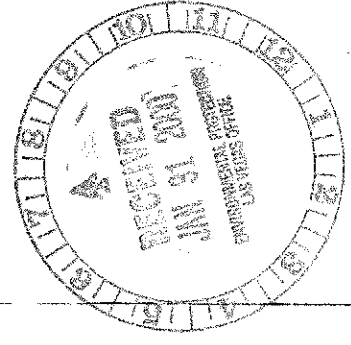
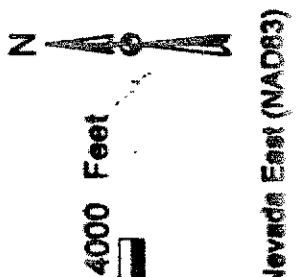
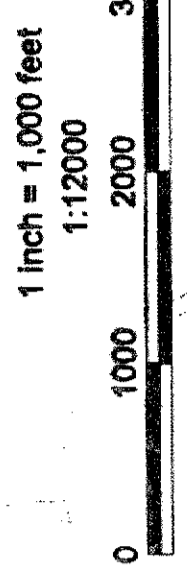


PLATE: 1
HOLE LOCATIONS
 for the
HENDERSON, NEVADA
AREA
 Kerr-McGee Chemical LLC
 Henderson Facility

- KERR-MCGEE
- BORING
- MONITOR
- PUMP TEST
- AMPAC
- BORING
- MONITOR
- OTHER
- BORING
- MONITOR
- OTHER
- INDUSTRIAL PROPERTY
- BMI
- CHEMSTAR
- KM
- POWER
- TRINET

A — LINE OF CROSS SECTION





KERR-McGEE CHEMICAL L.L.C.
POST OFFICE BOX 55 - HENDERSON, NEVADA 89009

October 28, 1999



Ms. Valerie King
Nevada Division of Environmental Protection
333 West Nye Lane
Carson City, NV 89706-0851

Dear Ms. King:

Subject: UIC Permit # NEV94218 Permit - Third Quarter 1999

This report is required by, and prepared specifically for, the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

Kerr-McGee Chemical LLC (KMCLLC) maintains an Underground Injection Control (UIC) Permit #NEV94218 for groundwater remediation at its Henderson, Nevada, facility. KMCLLC received approval from the Division for modification of its UIC Permit to allow the introduction of Lake Mead water into the injection/recharge trenches. This introduction started December 30, 1998. Pursuant to Section I.A.3, samples of the Lake Mead water injectate were collected and analyzed for July, August and September of 1999. Please see Attachment 1 for analytical information. Please note that the sampling and analytical information gathered on a monthly basis from Lake Mead water does not appreciably vary from month to month. This is expected due to the large capacity of Lake Mead and the fairly consistent inflows. KMCLLC requests that the frequency of UIC Permit monitoring of the Lake Mead water quality be modified to quarterly.

Section I.A.3 requires quarterly groundwater monitoring, which began in the first quarter 1999. This information is provided in Attachment 2.

Section I.A.3 requires that the injection rate monthly average be less than the extraction rate monthly average. Average flows of Lake Mead water injection and groundwater extraction are listed in Attachment 2.

Please feel free to call me at (702) 651-2234 if you have any questions regarding this request. Thank you.

Sincerely,


Susan Crowley
Staff Environmental Specialist

By certified mail
Attachments

cc: PSCorbett
WOGreen
MJPorterfield
FRStater
Doug Zimmerman, NDEP
Brenda Pohlmann, NDEP ✓

ATTACHMENT 2

UIC Permit
Monitoring

-

Water Elevations

Analytical Information

Flow Rates

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
QUARTERLY GROUNDWATER ELEVATIONS (feet)

Date	M-25		M-38		M-80		M-82A		M-36		M-94		M-96		M-98		M-99		M-100		M-102	
	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV	TOC	ELEV
Jan-99	33.30	1726.63	30.90	1728.83	30.90	1715.14	23.20	1717.01	25.20	1719.03	10.00	1685.07	8.40	1685.09	25.80	1706.11	25.68	1705.06	24.08	1706.85	29.90	1710.34
Feb-99	33.35	1726.58	30.94	1728.79	30.50	1715.54	23.00	1717.21	25.00	1719.23	9.87	1685.20	8.29	1685.20	25.80	1706.11	25.65	1705.09	24.14	1706.79	30.00	1710.2
Mar-99	33.40	1726.53	31.00	1728.73	31.95	1714.09	24.29	1715.92	27.00	1717.23	9.80	1688.34	8.29	1685.20	26.22	1705.69	25.98	1704.76	24.57	1706.36	30.75	1709.49
May-99	33.40	1726.53	30.95	1728.78	32.56	1713.48	24.72	1715.49	27.88	1716.35	8.73	1689.41	8.16	1685.33	27.00	1705.51	26.29	1704.45	24.85	1706.08	31.06	1709.18
Aug-99	33.76	1726.17	31.31	1728.42	33.05	1712.99	25.4	1714.81	28.78	1715.45	9.90	1688.24	8.31	1685.18	28.68	1705.19	27.34	1703.5	25.75	1705.18	31.7	1708.54

**KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility**

**UIC PERMIT MONITORING WELLS
TOTAL DISSOLVED SOLIDS (mg/l) ANALYSES**

Date	M-11	M-12A	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	6,200	18,700	NA	15,900	18,800	11,800	12,000	11,000
5-3-99	6,430	17,600	11,200	20,200	15,300	13,100	11,800	11,400
8-9-99	4,960	20,000	11,040	13,300	10,900	11,600	11,600	16,900

NA – Not analyzed, monitoring will begin in 2nd quarter 1999.

**KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility**

**UIC PERMIT
INJECTION AND EXTRACTION RATES (gpm)**

MONTH	EXTRATION RATE	INJECTION RATE
January 1999	59	25
February	54	25
March	45	25
April	51	18
May	42	18
June	24	20
July	27	23
August	29	24
September	26	23
October		
November		
December 1999		

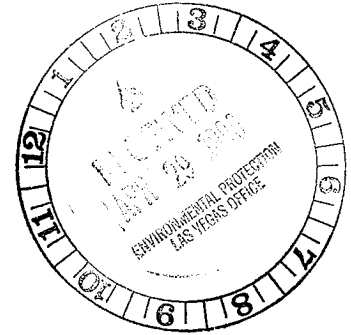


KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 55 - HENDERSON, NEVADA 89009

April 28, 1999

Ms. Valerie King
Nevada Division of Environmental Protection
333 West Nye Lane
Carson City, NV 89706-0851



Dear Ms. King:

Subject: UIC Permit # NEV94218 Permit – First Quarter 1999

This report is required by, and prepared specifically for, the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

Kerr-McGee Chemical LLC (KMCLLC) maintains an Underground Injection Control (UIC) Permit #NEV94218 for groundwater remediation at its Henderson, Nevada, facility. KMCLLC has recently received approval from the Division for modification of its UIC Permit to allow the introduction of Lake Mead water into the injection/recharge trenches. This introduction started December 30, 1998. Pursuant to Section I.A.3, samples of the Lake Mead water injectate were collected and analyzed for January, February, and March of 1999. Please see Attachment 1 for analytical information. Note that due to the abbreviated nature of the December 1998 use of Lake Mead water as injectate, perchlorate analysis were not available for submission with the fourth quarter report. This information is also included in Attachment 1.

Section I.A.3 requires quarterly groundwater monitoring, which began in the first quarter 1999. This information is provided in Attachment 2. Note that well M-27 was dry and no sample could be drawn. Information is provided for nearby well M-84 to monitor groundwater in the M-27 vicinity. KMCLLC requests NDEP approval to replace M-27 monitoring requirements with M-84.

Section I.A.3 requires that the injection rate monthly average be less than the extraction rate monthly average. Average flows of Lake Mead water injection and groundwater extraction are listed in Attachment 2.

Please feel free to call Susan Crowley (702) 651-2234 if you have any questions regarding this request. Thank you.

Sincerely,

Patrick S. Corbett
Plant Manager

By certified mail

Attachments

cc: SMCrowley

G Davis

ALDooley

WOGreen

MJPorterfield

Doug Zimmerman, NDEP

Brenda Pohlmann, NDEP

ATTACHMENT 2

**UIC Permit
Monitoring**

Water Elevations

Analytical Information

Flow Rates

KERR-McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
GROUNDWATER ELEVATIONS (feet)

Date	M-25		M-38		M-80		M-82A		M-86		M-94		M-96		M-98		M-99		M-100		M-102	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
Jan-99	33.30	1726.63	30.90	1728.83	30.90	1715.14	23.20	1717.01	25.20	1719.03	10.00	1685.07	8.40	1685.09	25.80	1706.11	25.68	1705.06	24.08	1706.85	29.90	1710.34
Feb-99	33.35	1726.58	30.94	1728.79	30.50	1715.54	23.00	1717.21	25.00	1719.23	9.87	1685.20	8.29	1685.20	25.80	1706.11	25.65	1705.09	24.14	1706.79	30.00	1710.24
Mar-99	33.40	1726.53	31.00	1728.73	31.95	1714.09	24.29	1715.92	27.00	1717.23	9.80	1688.34	8.29	1685.20	26.22	1705.69	25.98	1704.76	24.57	1706.36	30.75	1709.49

KERR McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS
TOTAL DISSOLVED SOLIDS (mg/l) ANALYSES

Date	M-11	M-12A	M-27	M-84	M-36	M-37	M-44	M-94	M-100
2-1-99	6,200	18,700	Dry	NA	15,900	18,800	11,800	12,000	11,000

NA – Not analyzed, monitoring will begin in 2nd quarter 1999.

KERR McGEE CHEMICAL LLC
Henderson, Nevada Facility

UIC PERMIT
INJECTION AND EXTRACTION RATES (gpm)

MONTH	EXTRATION RATE	INJECTION RATE
January 1999	59	25
February	54	25
March	45	25

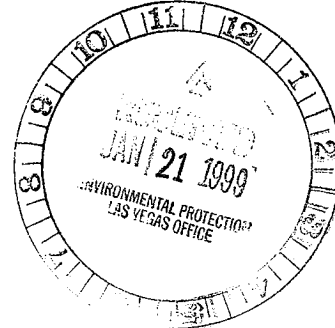


KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 55 - HENDERSON, NEVADA 89009

January 18, 1999

Ms. Shannon R. Bell
State of Nevada
Division of Environmental Protection
Bureau of Water Permits & Compliance
333 W. Nye Lane
Carson City, Nevada 89710



Dear Ms. Bell:

SUBJECT: December 1998 Discharge Monitoring Report (DMR)
Henderson Facility – Temporary Discharge Permit #TNEV98115

This report is required by and prepared specifically for the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

The attached Discharge Monitoring Report (Attachment 1) reflects discharge from the Kerr-McGee Chemical LLC (KMCLLC) Henderson facility as monitored by requirements of Temporary Discharge Permit #TNEV98115. Discharge of the liner integrity testing water (Lake Mead water) from the groundwater basin began in late November 1998 and continued until mid-December 1998. The flow remained fairly constant at about 1,400 gpm. A total of about 51.4 million gallons were discharged. Please see Attachment 2 for discharge area photos. A discharge sample was collected for total suspended solids (TSS) with the analysis performed by NEL Laboratories in Las Vegas. Results indicate that there were no detectable suspended solids. Please see Attachment 3 for the analytical report.

The purpose for the Temporary Discharge Permit #TNEV98115 was to allow KMCLLC to discharge Lake Mead water that had been used to facilitate a pond's top liner integrity testing. This purpose has been fulfilled, and the authorized discharge has been eliminated. Per Section II.B.6 of the Temporary Permit, KMCLLC requests that the Permit be terminated.

Should you have any questions concerning this report, please contact Susan M. Crowley at (702) 651-2234.

Sincerely,

Patrick S. Corbett
Plant Manager

Attachment

By certified mail

cc: SMCrowley
WOGreen
ALDooley
SJMathew
MJPorterfield
EMSpore
FRStater
B. Pohlmann, NDEP
D. Zimmerman, NDEP
C. Houk (W-5-3), U.S. EPA Region

ATTACHMENT 1

**Discharge Monitoring
Report**

-

DMR

ATTACHMENT 2

**Discharge Location
Photos**



Photo 1. Discharge pipe flow into the Beta Ditch

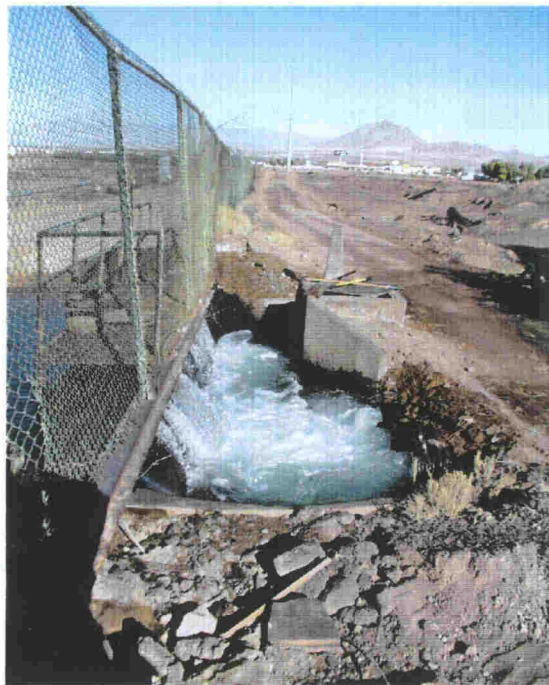


Photo 2. Beta Ditch Flow into the BMI Siphon

ATTACHMENT 3
NEL Analytical Report

NEL LABORATORIES

CLIENT: Kerr-McGee Chemical Corporation
PROJECT ID: Temp Discharge Permit/98-568
PROJECT #: 98-568

CLIENT ID: Temp Discharge Permit
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812227-01

TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Total Suspended Solids	ND	Hr 2.	1	SM 2540 D	mg/L	12/22/98

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

STATE OF NEVADA

ACCOUNTABLE MAIL

CERTIFIED

REGISTRY

Agency Name..... EPA

Addressed to.....

Accountable Number..... 2 445 377779

Date..... 1-21-99

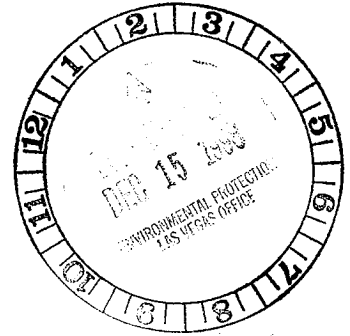
Signature.....





KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 55 - HENDERSON, NEVADA 89009



December 9, 1998

Ms. Shannon R. Bell
State of Nevada
Division of Environmental Protection
Bureau of Water Permits & Compliance
333 W. Nye Lane
Carson City, Nevada 89710

Dear Ms. Bell:

SUBJECT: November 1998 Discharge Monitoring Report (DMR)
Henderson Facility – Temporary Discharge Permit #TNE98115

This report is required by and prepared specifically for the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

The attached Discharge Monitoring Report (Attachment 1) reflects discharge from the Kerr-McGee Chemical LLC (KMCLLC) Henderson facility as monitored by requirements of Temporary Discharge Permit #TNE98115. There was no discharge from the facility related to this temporary permit.

Should you have any questions concerning this report, please contact Susan M. Crowley at (702) 651-2234.

Sincerely,

Patrick S. Corbett
Plant Manager

Attachment
By Certified Mail

cc: SMCrowley
WOGreen
ALDooley
SJMathew
MJPorterfield
EMSpore
FRStater
B. Pohlmann, NDEP
D. Zimmerman, NDEP
C. Houk (W-5-3), U.S. EPA Region

ATTACHMENT 1

**Discharge Monitoring
Report**

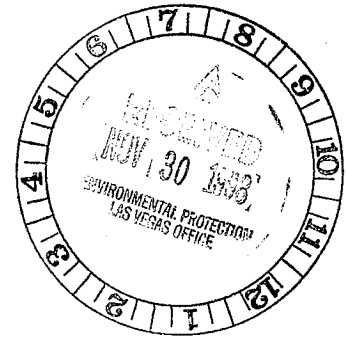


KERR-McGEE CHEMICAL LLC

POST OFFICE BOX 55 - HENDERSON, NEVADA 89009

November 25, 1998

Ms. Shannon R. Bell
State of Nevada
Division of Environmental Protection
Bureau of Water Permits & Compliance
333 W. Nye Lane
Carson City, Nevada 89710



Dear Ms. Bell:

Subject: October 1998 Discharge Monitoring Report (DMR)
Henderson Facility – Temporary Discharge Permit #TNE98115

This report is required by and prepared specifically for the State of Nevada Division of Environmental Protection (NDEP). It presents the observed results of measurements required to be performed by the NDEP. It is not intended as an assertion of the accuracy of any instrument, readings, or analytical results, nor is it an endorsement of the suitability of any analytical measurement procedure.

The attached DMRs (Attachment 1) reflect discharge from the Kerr-McGee Chemical LLC (KMCLLC) Henderson facility as monitored by requirements of Temporary Discharge Permit #TNE98115. There was no discharge from the facility related to this temporary permit.

Should you have any questions concerning this report, please contact Susan M. Crowley at (702) 651-2234.

Sincerely,

Patrick S. Corbett
Plant Manager

Attachment

By certified mail

cc: SMCrowley
WOGreen
ALDooley
SJMathew
MJPorterfield
EMSpore
FRStater
Brenda Pohlmann, NDEP
Doug Zimmerman, NDEP
Mr. Carey Houk (W-5-3)/U.S. EPA Region

smc:\Temp Permit DMR Oct98.doc

ATTACHMENT 1

**Discharge Monitoring
Report**

DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: TNE 98115
 DISCHARGE NUMBER: 001

MONITORING PERIOD

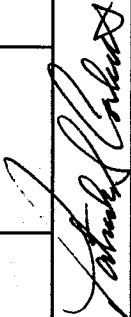
FROM 98 | 10 | 01 TO 98 | 10 | 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PERMITTEE NAME/ADDRESS:
 NAME: KERR-McGEE CHEMICAL CORP.
 ADDRESS: PO BOX 55
 HENDERSON, NV 89009-7000

FACILITY: KERR-McGEE CHEMICAL CORP.
 LOCATION: HENDERSON, NV
 Attn: SUSAN M. CROWLEY

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT							0		
	PERMIT REQUIREMENT							0		
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
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	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER		SIGNATURE OF PRINCIPAL EXECUTIVE			OFFICER OR AUTHORIZED AGENT			TELEPHONE	DATE	
PATRICK S. CORBETT					GMC			702-651-220	98/11/25	
PLANT MANAGER		SIGNATURE OF PRINCIPAL EXECUTIVE			OFFICER OR AUTHORIZED AGENT			AREA CODE NUMBER	YEAR	MO DAY
TYPED OR PRINTED								702-651-220	98	11 25

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

(Reference all attachments here)

COMMENT AND EXPLANATION OF ANY VIOLATIONS

NO DISCHARGE