SFUND RECORDS CTR
2462-00227

SFUND RECORDS CTR
110179

100 West Broadway, Suite 5000, Long Beach, California 90802-4443

Telephone
562.951.2000

Facsimile
562.951.2100

December 28, 2000

Mr. Gerard J. Thibeault
Executive Officer
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Dear Mr. Thibeault:

I am writing on behalf of Lockheed Martin Corporation to report analytical results for water discharges for the month of November 2000 as required under NPDES permit CAG998001 and subsequent modifications to this permit.

Permitted discharges occurred during November 2000, and were associated with perchlorate pilot treatment system operation at the "Gage New 6" well. 336,384 gallons of groundwater were discharged from November 1 to November 30, 2000.

Attachment 1 summarizes daily discharges and analytical results. The water was discharged to a dry portion of the Santa Ana Wash east of Tippecanoe Avenue. The discharge water completely percolated into soil, never reaching any flowing portion of the Santa Ana River.

Attachment 2 summarizes the related laboratory data. Please contact me at 562.951.2129 or Mr. Stephen Evanoff of Lockheed Martin at 303.971.1880 if you or your staff have any questions.

Sincerely,

Barry Molnaa
Senior Program Director

Attachments

Cc: See distribution

Distribution

Kevin Mayer (SFD-73)
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105

Susan Beeson
California Regional Quality Control Board
Santa Ana Region

Kamron Saremi
California Regional Quality Control Board
Santa Ana Region

James H. O'Brien (w/o attachments)
Vice President
Lockheed Martin Corporation
7921 Southpark Plaza, Suite 210
Littleton, CO 80120

Bc: (Letter without Attachements)
S. Evanoff, LMC-Denver
D Goins, LMC-Denver
E. Hodder, LMC-Burbank
G. Matsushita, LMC-Riverside
I. Hutchison, TRC-Irvine
E. Peterson, ET-Long Beach
G. Rymer, LMC-Bethesda
B. Simpson, LMC-Riverside

Attachment 1

Table 1

NPDES Summary--November 2000

Constituent	Limit	11/01/00	11/02/00	11/05/00	11/06/00	11/07/00	11/08/00	11/09/00	11/13/00	11/14/00	11/15/00	11/16/00	11/17/00	11/27/00	11/28/00	11/29/00	11/30/00
Flow (gallons/day)	50400 gpd	21,024	21,024	21,024	21,024	21,024	21,024	21,024	21,024	21,024	21,024	21,024	21,024	21,024	21,024	21,024	21,024
Oil and Grease (mg/l)	15 mg/L	nt	ND	nt	nt	nt	ND	nt	nt	nt	ND	nt	nt	nt	nt	ND	nt
Sulfides (mg/l)	0.4 mg/L	nt	ND	nt	nt	nt	ND	nt	nt	nt	ND	nt	nt	nt	nt	ND	nt
TPH (mg/l)	100 ug/L	nt	ND	nt	nt	nt	ND	nt	nt	nt	ND	nt	nt	nt	nt	ND	nt
TCE (ug/l)[3]	<1 ug/L	nt	ND	nt	nt	nt	ND	nt	nt	nt	ND	nt	nt	nt	nt	ND	nt
pH (Effluent)	6.5 to 8.5	8.1	7.9	8.1	8.0	7.7	7.9	8.0	8.3	7.9	8.2	8.2	8.3	8.2	8.2	8.2	8.1
Perchlorate (ug/l)	18 ug/l	nt	ND	nt	nt	nt	ND	nt	nt	nt	ND	nt	nt	nt	nt	ND	nt
Nitrate as NO_3 (mg/l)	45 mg/l	nt	30	nt	nt	nt	32	nt	nt	nt	27	nt	nt	nt	nt	24	nt
DBCP (ug/l)	0.2 ug/l	nt	ND	nt	nt	nt	ND	nt	nt	nt	ND	nt	nt	nt	nt	ND	nt
TSS (mg/l)		nt	ND	nt	nt	nt	ND	nt	nt	nt	ND	nt	nt	nt	nt	ND	nt

Notes:

1. Weekly analysis of the discharge was granted by the RWQCB and was implemented beginning 9/12/00.
2. na = not analyzed.
3. All method volatile organic constituents ND (non-detect).
4. nt = not tested

Attachment 2

Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

Report Date: *Thursday, November 30, 2000*
Received Date: *Thursday, November 02, 2000*
Log By: tn
Log Time: 11:51

Client: Earth Tech, Inc.
100 West Broadway, Suite 5000
Long Beach, CA 90802-4443
Attn.: Barry Molnaa

Phone: (562) 951-2129
FAX: (562) 951-2086

Project: LMC POP

P.O. #: 2000S-0086-LB9
Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A007764-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/2/00 **Time:** 8:00

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Nitrate as NO3	30		mg/L	1	0.20	EPA 300.0	11/2/00	tc	WS19303
Prep. SPE									
Oil & Grease	ND		mg/L	1	5	EPA 1664	11/2/00	sl	WS19326
Sulfide, dissolved	ND		mg/L	1	0.10	SM 4500S2 D	11/3/00	td	WS19260
Total Suspended Solids	ND		mg/L	1	5	EPA 160.2	11/3/00	aw	WS19267
Prep. Direct Inj.									
Perchlorate	ND		ug/L	1	4.0	EPA 314	11/13/00	dc	WS19668
Prep. EPA 3510C									
Diesel range hydrocarbons (C10-C23)	ND		mg/L	1	1.1	EPA 8015B	11/9/00	tl	WS19753
Prep. P&T									
Gasoline range hydrocarbons (C6-C10)	ND		mg/L	1	0.10	EPA 8015B	11/8/00	tl	WS19577
Prep. P&T									
Dichlorodifluoromethane	ND		ug/L	1	1.0	EPA 524.2	11/2/00	rt	WS19276
Chloromethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
Vinyl chloride	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
Bromomethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
Chloroethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	5.0	EPA 524.2	11/2/00	rt	WS19276
Trichlorotrifluoroethane (Freon 113)	ND		ug/L	1	10	EPA 524.2	11/2/00	rt	WS19276
1,1-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
Methylene chloride (Dichloromethane)	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
trans-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
Methyl tert-Butyl Ether	ND		ug/L	1	1.0	EPA 524.2	11/2/00	rt	WS19276
1,1-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5.0	EPA 524.2	11/2/00	rt	WS19276
2,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
cis-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
Bromochloromethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
Chloroform	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
1,1,1-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
Carbon tetrachloride	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276
1,1-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/2/00	rt	WS19276

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www.wecklabs.com

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Thursday, November 30, 2000*

CERTIFICATE OF ANALYSIS

Lab#: A007764-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/2/00 **Time:** 8:00

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Benzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,2-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Trichloroethene (TCE)	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Dibromomethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Bromodichloromethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
cis-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
4-Methyl-2-pentanone (MiBK)	ND		ug/L	1	5.0	EPA 524.2	11/2/00 rt	WS19276
2-Chloroethylvinyl ether	ND		ug/L	1	1.0	EPA 524.2	11/2/00 rt	WS19276
Toluene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
trans-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,1,2-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Tetrachloroethene (PCE)	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,3-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Dibromochloromethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Chlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Ethyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
m/p-Xylenes	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
o-Xylene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Styrene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Bromoform	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Isopropylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Bromobenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,1,2,2-Tetrachloroethane	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,2,3-Trichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
n-Propyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
2-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
4-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,3,5-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
tert-Butyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,2,4-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
bis(2-Chloroethyl) Ether	ND		ug/L	1	5.0	EPA 524.2	11/2/00 rt	WS19276
sec-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,3-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
4-isopropyltoluene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,4-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,2-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
n-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	1.0	EPA 524.2	11/2/00 rt	WS19276
1,2,4-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Hexachlorobutadiene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Naphthalene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
1,2,3-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276
Total 1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/2/00 rt	WS19276

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Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Thursday, November 30, 2000*

CERTIFICATE OF ANALYSIS

Lab#: A007764-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/2/00 **Time:** 8:00

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Tert-amyl Methyl Ether	ND		ug/L	1	3.0	EPA 524.2	11/2/00 rt	WS19276
Ethyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	11/2/00 rt	WS19276
1,1,1,2-Tetrachloroethane	ND		ug/L	1	0.5	EPA 524.2	11/2/00 rt	WS19276

Authorized Signature

ELAP # 1132
LACSD # 10143
AZ0526

Flags for Data Qualifiers:

B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
J = Estimated value, detected but below the reporting limit.
H = Estimated value, result over the calibration range
R = Result is suspect, LCS recovery greater than the upper control limit.
L = Result is suspect, LCS recovery lower than the control limit.
Q = QC result out of acceptance limits.
T = Trace detection, detected but below the reporting limit.

Notes:

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless specified.
RL = Reporting Limit.
ND = Not detected, below the reporting limit.
Sub = Subcontracted analysis, original report enclosed.

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Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

Report Date: *Wednesday, December 13, 2000*
Received Date: *Wednesday, November 08, 2000*
Log By: tn
Log Time: 11:18

Client: Earth Tech, Inc.
100 West Broadway, Suite 5000
Long Beach, CA 90802-4443
Attn.: Barry Molnaa

Phone: (562) 951-2129
FAX: (562) 951-2086

Project: LMC POP

P.O. #: 2000S-0086-LB9
Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A007918-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/8/00 **Time:** 8:00

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Nitrate as NO3	32		mg/L	1	0.20	EPA 300.0	11/8/00	kk	WS19471
Prep. SPE									
Oil & Grease	ND		mg/L	1	5	EPA 1664	11/14/00	sl	WS19633
Sulfide, dissolved	ND		mg/L	1	0.10	SM 4500S2 D	11/8/00	td	WS19378
Total Suspended Solids	ND		mg/L	1	5	EPA 160.2	11/9/00	aw	WS19519
Prep. Direct Inj.									
Perchlorate	ND		ug/L	1	4.0	EPA 314	11/16/00	dc	WS19946
Prep. EPA 3510C									
Diesel range hydrocarbons (C10-C23)	ND		mg/L	1	0.10	EPA 8015B	11/16/00	wm	WS19889
Prep. P&T									
Gasoline range hydrocarbons (C6-C10)	ND		mg/L	1	0.10	EPA 8015B	11/8/00	tl	WS19577
Prep. P&T									
Dichlorodifluoromethane	ND		ug/L	1	1.0	EPA 524.2	11/11/00	rt	WS19625
Chloromethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
Vinyl chloride	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
Bromomethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
Chloroethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	5.0	EPA 524.2	11/11/00	rt	WS19625
Trichlorotrifluoroethane (Freon 113)	ND		ug/L	1	10	EPA 524.2	11/11/00	rt	WS19625
1,1-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
Methylene chloride (Dichloromethane)	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
trans-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
Methyl tert-Butyl Ether	ND		ug/L	1	1.0	EPA 524.2	11/11/00	rt	WS19625
1,1-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5.0	EPA 524.2	11/11/00	rt	WS19625
2,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
cis-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
Bromochloromethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
Chloroform	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
1,1,1-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
Carbon tetrachloride	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625
1,1-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/11/00	rt	WS19625

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Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Wednesday, December 13, 2000*

CERTIFICATE OF ANALYSIS

Lab#: A007918-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/8/00 **Time:** 8:00

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Benzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,2-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Trichloroethene (TCE)	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Dibromomethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Bromodichloromethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
cis-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
4-Methyl-2-pentanone (MiBK)	ND		ug/L	1	5.0	EPA 524.2	11/11/00 rt	WS19625
2-Chloroethylvinyl ether	ND		ug/L	1	1.0	EPA 524.2	11/11/00 rt	WS19625
Toluene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
trans-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,1,2-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Tetrachloroethene (PCE)	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,3-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Dibromochloromethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Chlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Ethyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
m/p-Xylenes	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
o-Xylene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Styrene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Bromoform	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Isopropylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Bromobenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,1,2,2-Tetrachloroethane	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,2,3-Trichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
n-Propyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
2-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
4-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,3,5-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
tert-Butyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,2,4-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
bis(2-Chloroethyl) Ether	ND		ug/L	1	5.0	EPA 524.2	11/11/00 rt	WS19625
sec-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,3-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
4-isopropyltoluene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,4-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,2-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
n-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	1.0	EPA 524.2	11/11/00 rt	WS19625
1,2,4-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Hexachlorobutadiene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Naphthalene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
1,2,3-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625
Total 1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/11/00 rt	WS19625

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Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Wednesday, December 13, 2000*

CERTIFICATE OF ANALYSIS

Lab#: A007918-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/8/00 **Time:** 8:00

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Tert-amyl Methyl Ether	ND		ug/L	1	3.0	EPA 524.2	11/11/00 rt	WS19625
Ethyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	11/11/00 rt	WS19625
1,1,1,2-Tetrachloroethane	ND		ug/L	1	0.5	EPA 524.2	11/11/00 rt	WS19625

Authorized Signature

ELAP # 1132
LACSD # 10143
AZ0526

Flags for Data Qualifiers:

B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
J = Estimated value, detected but below the reporting limit.
H = Estimated value, result over the calibration range
R = Result is suspect, LCS recovery greater than the upper control limit.
L = Result is suspect, LCS recovery lower than the control limit.
Q = QC result out of acceptance limits.
T = Trace detection, detected but below the reporting limit.

Notes:

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless specified.
RL = Reporting Limit.
ND = Not detected, below the reporting limit.
Sub = Subcontracted analysis, original report enclosed.

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Report Date: *Wednesday, December 13, 2000*
Received Date: *Wednesday, November 15, 2000*
Log By: tn
Log Time: 11:39

Client: Earth Tech, Inc.
100 West Broadway, Suite 5000
Long Beach, CA 90802-4443
Attn.: Barry Molnaa

Phone: (562) 951-2129
FAX: (562) 951-2086

Project: LMC POP

P.O. #: 2000S-0086-LB9
Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A008104-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/15/00 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Nitrate as NO3	27		mg/L	1	0.20	EPA 300.0	11/15/00	kk	WS19618
Prep. SPE									
Oil & Grease	ND		mg/L	1	5	EPA 1664	11/28/00	sl	WS19954
Sulfide, dissolved	ND		mg/L	1	0.10	SM 4500S2 D	11/15/00	td	WS19605
Total Suspended Solids	ND		mg/L	1	5	EPA 160.2	11/17/00	aw	WS19713
Prep. Direct Inj.									
Perchlorate	ND		ug/L	1	4.0	EPA 314	12/1/00	dc	WS20293
Prep. EPA 3510C									
Diesel range hydrocarbons (C10-C23)	ND		mg/L	1	0.10	EPA 8015B	11/22/00	tl	WS20072
Prep. P&T									
Gasoline range hydrocarbons (C6-C10)	ND		mg/L	1	0.10	EPA 8015B	11/25/00	tl	WS19993
Prep. P&T									
Dichlorodifluoromethane	ND		ug/L	1	1.0	EPA 524.2	11/18/00	rt	WS19712
Chloromethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
Vinyl chloride	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
Bromomethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
Chloroethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	5.0	EPA 524.2	11/18/00	rt	WS19712
Trichlorotrifluoroethane (Freon 113)	ND		ug/L	1	10	EPA 524.2	11/18/00	rt	WS19712
1,1-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
Methylene chloride (Dichloromethane)	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
trans-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
Methyl tert-Butyl Ether	ND		ug/L	1	1.0	EPA 524.2	11/18/00	rt	WS19712
1,1-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5.0	EPA 524.2	11/18/00	rt	WS19712
2,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
cis-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
Bromochloromethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
Chloroform	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
1,1,1-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
Carbon tetrachloride	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712
1,1-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/18/00	rt	WS19712

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Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Wednesday, December 13, 2000*

CERTIFICATE OF ANALYSIS

Lab#: A008104-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/15/00 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Benzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,2-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Trichloroethene (TCE)	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Dibromomethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Bromodichloromethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
cis-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
4-Methyl-2-pentanone (MiBK)	ND		ug/L	1	5.0	EPA 524.2	11/18/00 rt	WS19712
2-Chloroethylvinyl ether	ND		ug/L	1	1.0	EPA 524.2	11/18/00 rt	WS19712
Toluene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
trans-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,1,2-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Tetrachloroethene (PCE)	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,3-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Dibromochloromethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Chlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Ethyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
m/p-Xylenes	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
o-Xylene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Styrene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Bromoform	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Isopropylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Bromobenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,1,2,2-Tetrachloroethane	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,2,3-Trichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
n-Propyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
2-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
4-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,3,5-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
tert-Butyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,2,4-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
bis(2-Chloroethyl) Ether	ND		ug/L	1	5.0	EPA 524.2	11/18/00 rt	WS19712
sec-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,3-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
4-isopropyltoluene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,4-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,2-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
n-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	1.0	EPA 524.2	11/18/00 rt	WS19712
1,2,4-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Hexachlorobutadiene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Naphthalene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
1,2,3-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712
Total 1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/18/00 rt	WS19712

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Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Wednesday, December 13, 2000*

CERTIFICATE OF ANALYSIS

Lab#: A008104-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/15/00 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Tert-amyl Methyl Ether	ND		ug/L	1	3.0	EPA 524.2	11/18/00 rt	WS19712
Ethyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	11/18/00 rt	WS19712
1,1,1,2-Tetrachloroethane	ND		ug/L	1	0.5	EPA 524.2	11/18/00 rt	WS19712

Authorized Signature

ELAP # 1132
LACSD # 10143
AZ0526

Flags for Data Qualifiers:

B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
J = Estimated value, detected but below the reporting limit.
H = Estimated value, result over the calibration range
R = Result is suspect, LCS recovery greater than the upper control limit.
L = Result is suspect, LCS recovery lower than the control limit.
Q = QC result out of acceptance limits.
T = Trace detection, detected but below the reporting limit.

Notes:

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless specified.
RL = Reporting Limit.
ND = Not detected, below the reporting limit.
Sub = Subcontracted analysis, original report enclosed.

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Report Date: *Thursday, December 21, 2000*
Received Date: *Wednesday, November 29, 2000*
Log By: tn
Log Time: 12:03

Client: Earth Tech, Inc.
100 West Broadway, Suite 5000
Long Beach, CA 90802-4443

Attn.: Barry Molnaa

Phone: (562) 951-2129
FAX: (562) 951-2086

Project: LMC POP

P.O. #: 2000S-0086-LB9
Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A008390-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/29/00 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Nitrate as NO3	24		mg/L	1	0.20	EPA 300.0	11/29/00	kk	WS20023
Prep. SPE									
Oil & Grease	ND		mg/L	1	5	EPA 1664	12/1/00	sl	WS20087
Prep. EPA 3510C									
Diesel range hydrocarbons (C10-C23)	ND		mg/L	1	0.10	EPA 8015B	12/6/00	tl	WS20203
Prep. P&T									
Gasoline range hydrocarbons (C6-C10)	ND		mg/L	1	0.10	EPA 8015B	12/5/00	tl	WS20335
Sulfide, dissolved	ND		mg/L	1	0.10	SM 4500S2 D	11/29/00	td	WS19966
Total Suspended Solids	ND		mg/L	1	5	EPA 160.2	11/30/00	aw	WS19963
Prep. Direct Inj.									
Perchlorate	ND		ug/L	1	4.0	EPA 314	12/13/00	dc	WS20530
Prep. P&T									
Dichlorodifluoromethane	ND		ug/L	1	1.0	EPA 524.2	11/30/00	rt	WS20098
Chloromethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
Vinyl chloride	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
Bromomethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
Chloroethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	5.0	EPA 524.2	11/30/00	rt	WS20098
Trichlorotrifluoroethane (Freon 113)	ND		ug/L	1	10	EPA 524.2	11/30/00	rt	WS20098
1,1-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
Methylene chloride (Dichloromethane)	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
trans-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
Methyl tert-Butyl Ether	ND		ug/L	1	1.0	EPA 524.2	11/30/00	rt	WS20098
1,1-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5.0	EPA 524.2	11/30/00	rt	WS20098
2,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
cis-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
Bromochloromethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
Chloroform	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
1,1,1-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
Carbon tetrachloride	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098
1,1-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/30/00	rt	WS20098

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Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Thursday, December 21, 2000*

CERTIFICATE OF ANALYSIS

Lab#: A008390-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/29/00 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Benzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,2-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Trichloroethene (TCE)	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Dibromomethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Bromodichloromethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
cis-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
4-Methyl-2-pentanone (MIBK)	ND		ug/L	1	5.0	EPA 524.2	11/30/00 rt	WS20098
2-Chloroethylvinyl ether	ND		ug/L	1	1.0	EPA 524.2	11/30/00 rt	WS20098
Toluene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
trans-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,1,2-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Tetrachloroethene (PCE)	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,3-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Dibromochloromethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Chlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Ethyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
m/p-Xylenes	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
o-Xylene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Styrene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Bromoform	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Isopropylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Bromobenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,1,2,2-Tetrachloroethane	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,2,3-Trichloropropane	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
n-Propyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
2-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
4-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,3,5-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
tert-Butyl benzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,2,4-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
bis(2-Chloroethyl) Ether	ND		ug/L	1	5.0	EPA 524.2	11/30/00 rt	WS20098
sec-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,3-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
4-Isopropyltoluene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,4-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,2-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
n-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	1.0	EPA 524.2	11/30/00 rt	WS20098
1,2,4-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Hexachlorobutadiene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Naphthalene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
1,2,3-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098
Total 1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	11/30/00 rt	WS20098

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Weck Laboratories, Inc.
Environmental and Analytical Services • Since 1964

Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Thursday, December 21, 2000*

CERTIFICATE OF ANALYSIS

Lab#: A008390-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: TP **Date:** 11/29/00 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Tert-amyl Methyl Ether	ND		ug/L	1	3.0	EPA 524.2	11/30/00 rt	WS20098
Ethyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	11/30/00 rt	WS20098
1,1,1,2-Tetrachloroethane	ND		ug/L	1	0.5	EPA 524.2	11/30/00 rt	WS20098

Authorized Signature

ELAP # 1132
LACSD # 10143
AZ0526

Flags for Data Qualifiers:

B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
J = Estimated value, detected but below the reporting limit.
H = Estimated value, result over the calibration range
R = Result is suspect, LCS recovery greater than the upper control limit.
L = Result is suspect, LCS recovery lower than the control limit.
Q = QC result out of acceptance limits.
T = Trace detection, detected but below the reporting limit.

Notes:

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless specified.
RL = Reporting Limit.
ND = Not detected, below the reporting limit.
Sub = Subcontracted analysis, original report enclosed.

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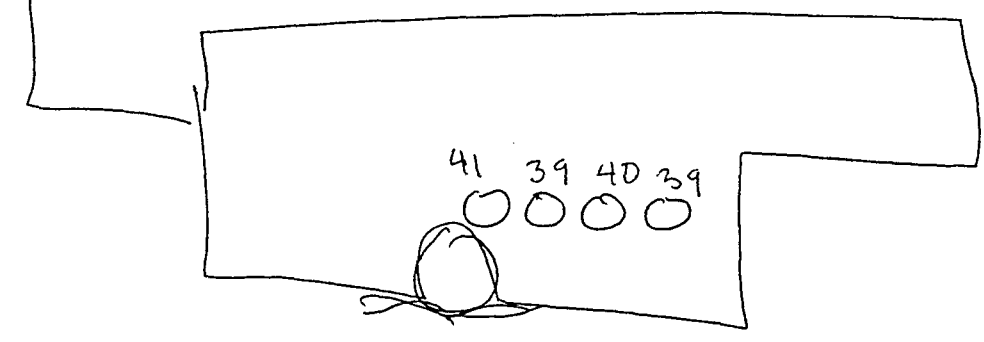
DAILY MONITORING LOG

General Parameters

Date 11/1/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.1	16:35	
Conductivity	Discharge	536		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	53		psi
Bag Filter Effluent	PI-05	50		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5447		KW-Hours
Electrical Usage Meter B	Electric Meter	1159		KW-Hours

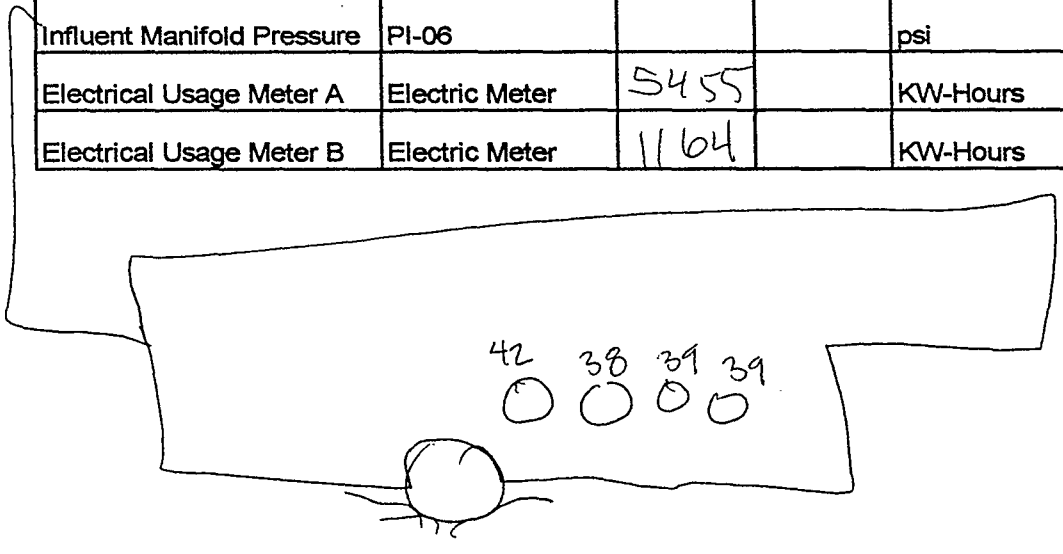


DAILY MONITORING LOG

General Parameters

Date 11/2/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	450		
Conductivity	Discharge	7.9		
GAC Influent	PI-01	2		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	55		psi
Bag Filter Effluent	PI-05	51		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5455		KW-Hours
Electrical Usage Meter B	Electric Meter	1164		KW-Hours



DAILY MONITORING LOG

General Parameters

Date 1/15

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	528.1	13:45	
Conductivity	Discharge	8.1		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	55		psi
Bag Filter Effluent	PI-05	52		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5465		KW-Hours
Electrical Usage Meter B	Electric Meter	1171		KW-Hours

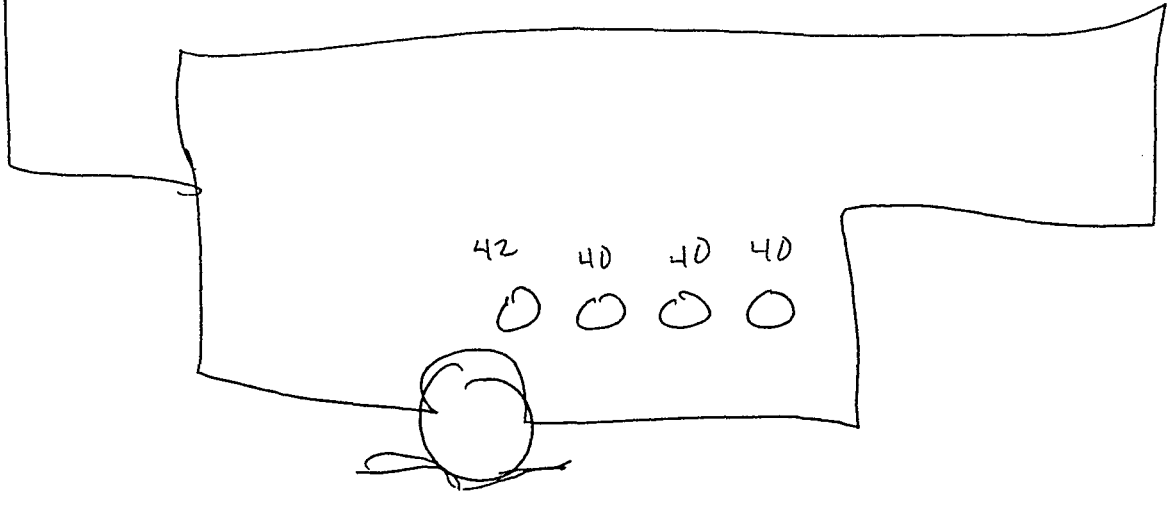
43 40 40 40
0 0 0 0

DAILY MONITORING LOG

General Parameters

Date 11/6/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	503	17:07	
Conductivity	Discharge	8.0		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	53		psi
Bag Filter Effluent	PI-05	50		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5472		KW-Hours
Electrical Usage Meter B	Electric Meter	1174		KW-Hours

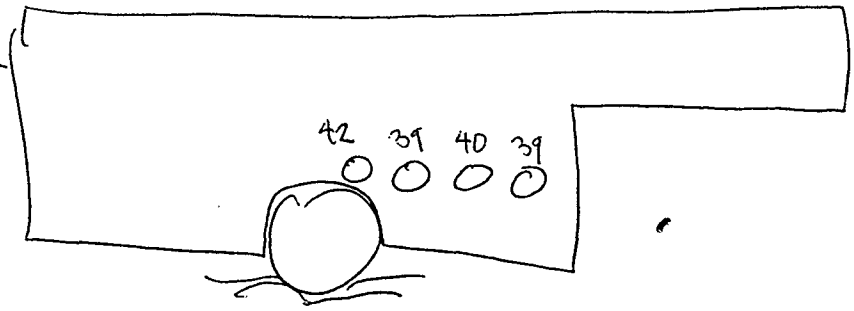


DAILY MONITORING LOG

General Parameters

Date 1/7/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	503	15:54	
Conductivity	Discharge	7.7		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	55		psi
Bag Filter Effluent	PI-05	51		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5479		KW-Hours
Electrical Usage Meter B	Electric Meter	1177		KW-Hours

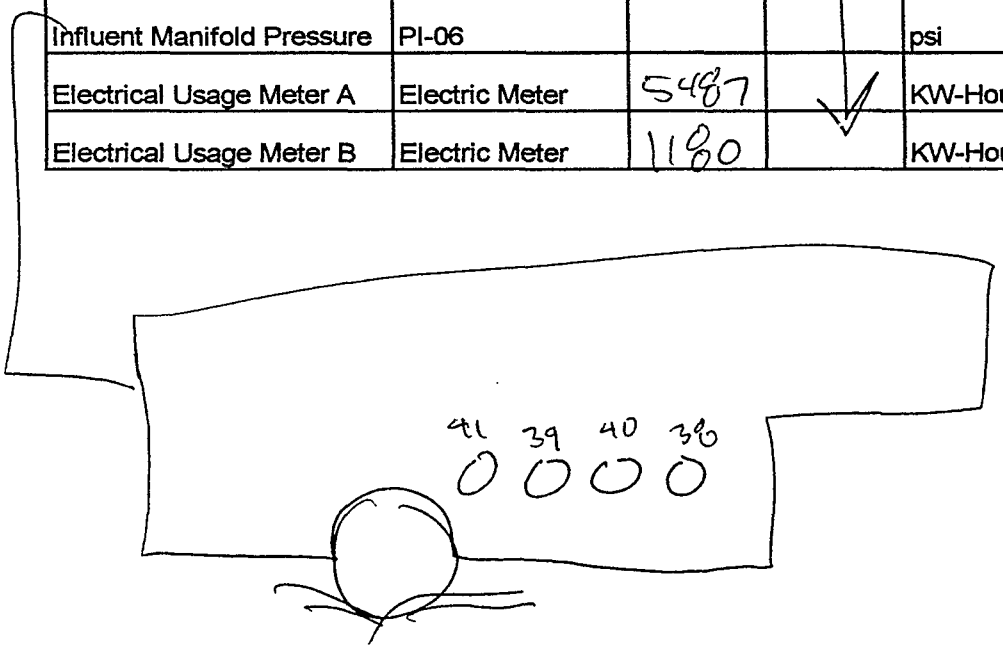


DAILY MONITORING LOG

General Parameters

Date 11/8/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	7.9	15:30	
Conductivity	Discharge	495		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	53		psi
Bag Filter Effluent	PI-05	51		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5487	✓	KW-Hours
Electrical Usage Meter B	Electric Meter	1180		KW-Hours



DAILY MONITORING LOG

General Parameters

Date 11/9/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.0	16:18	
Conductivity	Discharge	482		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	~~52~~ 0		psi
GAC Effluent	PI-03	~~50~~ 0		psi
Bag Filter Influent	PI-04	32		psi
Bag Filter Effluent	PI-05	50		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5494		KW-Hours
Electrical Usage Meter B	Electric Meter	1184		KW-Hours

41 38 39 38

0 0 0 0

C:\My Documents\General Parameters.xls

DAILY MONITORING LOG
General Parameters

Date 11/13

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.3	1620	
Conductivity	Discharge	470		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	54		psi
Bag Filter Effluent	PI-05	52		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5514		KW-Hours
Electrical Usage Meter B	Electric Meter	1198		KW-Hours

42 39 40 39

DAILY MONITORING LOG
General Parameters

Date 11/14

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	7.9	1650	
Conductivity	Discharge	450		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	57		psi
Bag Filter Effluent	PI-05	55		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5522		KW-Hours
Electrical Usage Meter B	Electric Meter	1203		KW-Hours

48 45 60 + 45

DAILY MONITORING LOG

General Parameters

Date 11/15/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.2	1500	
Conductivity	Discharge	520		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	56		psi
Bag Filter Effluent	PI-05	54		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5528		KW-Hours
Electrical Usage Meter B	Electric Meter	1208		KW-Hours

48 44 60+ 44

DAILY MONITORING LOG
General Parameters

Date 11/16/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.2		
Conductivity	Discharge	566		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	54		psi
Bag Filter Effluent	PI-05	52		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5535		KW-Hours
Electrical Usage Meter B	Electric Meter	1213		KW-Hours

47 43 45 43

DAILY MONITORING LOG
General Parameters

Date 11/17

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.3	1430	
Conductivity	Discharge	546		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	56		psi
Bag Filter Effluent	PI-05	54		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5542		KW-Hours
Electrical Usage Meter B	Electric Meter	1218		KW-Hours

59 56 57 57

DAILY MONITORING LOG
General Parameters

Date 11/27

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.2	1745	
Conductivity	Discharge	612		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	54		psi
Bag Filter Effluent	PI-05	52		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5547		KW-Hours
Electrical Usage Meter B	Electric Meter	1244		KW-Hours

47 44 45 44

DAILY MONITORING LOG
General Parameters

Date 11/28/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.2	1515	
Conductivity	Discharge	624		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	54		psi
Bag Filter Effluent	PI-05	53		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5554		KW-Hours
Electrical Usage Meter B	Electric Meter	1248		KW-Hours

45 43 55 43

DAILY MONITORING LOG

General Parameters

Date 11/29/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.2	1435	
Conductivity	Discharge	572		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	58		psi
Bag Filter Effluent	PI-05	57		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5561		KW-Hours
Electrical Usage Meter B	Electric Meter	1251		KW-Hours

60+ 60 60 60

DAILY MONITORING LOG
General Parameters

Date 11/30/00

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.1		
Conductivity	Discharge	588		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	57		psi
Bag Filter Effluent	PI-05	56		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5567		KW-Hours
Electrical Usage Meter B	Electric Meter	1255		KW-Hours

60+ 60 60 60