Harding ESE
A MACTEC COMPANY

Harding ESE, Inc.
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Suite 100
Irvine, CA 92612
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Home Page: www.mactec.com

June 25, 2002

Mr. Dixon Oriola
California Regional Water Quality Control Board, Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013

Subject: **Groundwater Monitoring Data**
Utility Trailer Manufacturing Company
17300 East Chestnut Street
City of Industry, California

Dear Mr. Oriola

On behalf of Utility Trailer Manufacturing Company (UTM), Harding ESE, Inc. (Harding ESE) is submitting this letter to report the findings of groundwater sampling conducted on May 31, 2002, at UTM's facility located at 17300 East Chestnut Street, City of Industry, California. As requested by the California Regional Water Quality Control Board, Los Angeles Region (CRWQCB) and the United States Environmental Protection Agency (USEPA) in a letter dated April 25, 2002, groundwater monitoring data was collected at the site on May 31, 2002.

Groundwater Depth Measurement

Depth to groundwater was measured on May 31, 2002, in each onsite monitoring well using an electric well sounder. Groundwater depth measurement data are presented Table 1.

Groundwater Sampling

Harding ESE collected groundwater samples for chemical analysis from groundwater monitoring wells MW-02 through MW-06 on May 31, 2002. Prior to sampling, wells were purged of approximately four well volumes to remove standing water and to promote the flow of water from the surrounding formation into the well casing. Water was purged from each well by lowering a submersible pump to a depth approximately 5 to 10 feet below the static water level. The pH, electric conductance, temperature, and turbidity of the purged groundwater were monitored during purging. Well purge data from the sampling event are presented in Appendix A. All equipment was decontaminated prior to each use with Liqui-Nox detergent solution followed by potable and distilled water rinses.

Before any samples were collected, water levels in the well casings were allowed to recover to at least 80 percent of the original static water level observed prior to purging. To minimize agitation/volatilization, the samples were collected by gently lowering a disposable bailer into the groundwater. The collected groundwater was then immediately and carefully transferred into laboratory-prepared containers. The containers were immediately sealed with screw caps, labeled, and placed in an iced field cooler for shipment to Del Mar Analytical (DMA), a California state-certified laboratory, in accordance with chain-of-custody protocol. Weck Laboratories, Inc. (Weck), located in the City of Industry was subcontracted by Del Mar Analytical to conduct the perchlorate, N-Nitrosodimethylamine, and 1,4-dioxane analyses. Weck is also a California state-certified laboratory.

To check laboratory quality control, a duplicate groundwater sample was collected from MW-02 during the sampling event (labeled as Duplicate #1). The duplicate sample was submitted for analysis along with the original groundwater samples. All samples were analyzed for perchlorate, N-Nitrosodimethylamine, 1,4-dioxane, chromium VI, and total chromium.

Groundwater Analytical Results

A summary of groundwater analytical results from the sampling event is presented in Table 1. Analytical laboratory reports and associated quality assurance/quality control (QA/QC) data are presented in Appendix B.

The relative percent difference (RPD) between analytes for the duplicate sample and the original sample is presented in Table 2. The RPD for the samples collected was within the acceptable range of 0 to 15 percent. Analytical laboratory reports and QA/QC data from the laboratory analysis met acceptance criteria.

Should you have any questions, please call our office at (949) 224-0050.

Yours very truly,

HARDING ESE, INC.

Camilla Frejd-Smith
Project Environmental Specialist

David J. DeVries
Associate Hydrogeologist

REGISTERED GEOLOGIST
DAVID J. DeVRIES
No. 6213
Exp. 4-30-03
STATE OF CALIFORNIA

56157 2
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Attachments: Table 1 - Groundwater Depth and Analytical Data
Table 2 - Relative Percent Difference of Quality Control Sample
Plate 1 - Groundwater Contour Map
Appendix A - Well Purging Data
Appendix B - Supporting Laboratory Documentation

cc: Ms. Penny McDaniel, United States Environmental Protection Agency
Mr. Robert Griffis, Utility Trailer Manufacturing Company
Harding ESE Project File

TABLES

Groundwater Depth and Analytical Data
May 31, 2002
Utility Trailer Manufacturing Company
17300 Chestnut Street
City of Industry, California

Sample ID	Sample Date	Well Elevvation (MSL)	Depth to Groundwater	Groundwater Elevation (MSL)	EPA Method 314 Perchlorate	1625M NDMA	8270M 1,4-Dioxane	7199 Chromium VI	200.8 Total Chromium	Comment
					µg/L					
MW-2	5/31/02	376.66	22.79	353.87	2.7J	<0.002	2.2	<1.0	0.52J	
DUPLICATE #1	5/31/02	-	-	-	3.5J	<0.002	2.2	<1.0	0.60J	Dupe of MW-2
MW-3	5/31/02	378.03	21.78	356.25	5.5	<0.002	2.1	0.83J	0.80J	
MW-4	5/31/02	383.21	27.41	355.80	1.9J	<0.002	1.8	1.3	1.5	
MW-5	5/31/02	380.61	25.64	354.97	2.4	<0.002	1.1	0.77J	1.4	
MW-6	5/31/02	379.79	23.99	355.80	2.9	<0.002	4.4	2.1	1.2	

Notes:

MSL = mean sea level
NDMA = N-Nitrosodimethylamine
µg/L = micrograms per liter
< = analyte not detected at or above the reporting limit
Number indicates the reporting limit.
J = estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit

Table 2
Relative Percent Difference of Quality Control Sample
May 31, 2002
Utility Trailer Manufacturing Company
17300 Chestnut Street
City of Industry, California

Well No.	*Date*	*Perchlorate*	*NDMA*	*1,4-Dioxane µg/L*	*Chromium VI*	*Total Chromium*
MW-02	5/31/02	2.7	1.0	2.2	<1.0	0.52
MW-02 Duplicate	5/31/02	3.5	0.82	2.2	<1.0	0.6
RPD	5/31/02	6.5%	5%	0%	N/A	4%

PLATE

APPENDIX A

WELL PURGING DATA

entists

SHEET 4 OF 4
JOB NO. 56157-1
DATE 5-31-02
COMPUTED BY [illegible]
CHECKED BY

PROJECT UTM
SUBJECT Monitoring Well Data

Well No.	Time	Top of Casing	Product reading	Product depth	Water reading	Water depth	Product Thickness	Remarks
MW-2	728					22.79'		TD = 42.82'
MW-3	734					21.78'		TD = 37.43'
MW-4	708					27.41'		TD = 53.38'
MW-5	716					25.64'		TD = 44.04'
MW-6	722					23.99'		TD = 39.05'
		Recovery Data						
MW-2	1515					22.75'		
MW-3	1258					21.73'		
MW-4	1410					27.39'		
MW-5	1358					25.59'		
MW-6	1343					23.91'		

Harding Lawson Associates
Engineering and
Environmental Services

GROUND-WATER SAMPLING FORM

Job Name: UTM
Job Number: 56157-1
Recorded by: [signature] (Signature)

Well No.: MW-2
Well Type: ☑ Monitor ☐ Extraction ☐ Other
Well Material: ☑ PVC ☐ St. Steel ☐ Other
Date: 5-31-02 Time: 1100
Sampled by: [initials]

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Total Depth of Casing (TD in feet BTOC): 42.82
Water Level Depth (WL in feet BTOC): 22.79
Number of Well Volumes to be purged (# Vols)
☐ 3 ☑ 4 ☐ 5 ☐ 10 ☐ Other

PURGE METHOD

☐ Bailer - Type:
☑ Submersible ☐ Centrifugal ☐ Bladder: Pump No.:
☐ Other - Type: Grundfos

PUMP INTAKE SETTING

☑ Near Bottom ☐ Near Top ☐ Other
Depth in feet (BTOC): Screen Interval in Feet (BTOC) from to

PURGE VOLUME CALCULATION:

$(42.82 - 22.79) \times 4^2 \times 4 \times 0.0408 = 52.30$ gallons

TD (feet) − WL (feet) × D (inches)² × # Vols × 0.0408 = Calculated Purge Volume

PURGE TIME

1106 Start Stop Elapsed

PURGE RATE

Initial gpm Final gpm

ACTUAL PURGE VOLUME

55 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other Turb	SGI
Initial	7.30	4050	no good	Clear	1
1113	7.40	2730		"	20
1121	7.50	2510		"	40
1126	7.70	2440		"	55

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor):

Discharge Water Disposal: ☐ Sanitary Sewer ☐ Storm Sewer ☑ Other Onsite drum storage

WELL SAMPLING

SAMPLING METHOD

☐ Same As Above
☑ Bailer - Type: Disposable
☐ Grab - Type:
☐ Submersible ☐ Centrifugal ☐ Bladder: Pump No.:
☐ Other - Type:

SAMPLING DISTRIBUTION

Sample Series:

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
Well MW-2	Var.	Var.	HNO_3 / NaOH	Del Mar	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
Well MW-2	Duplicate #1

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

HL004

Harding Lawson Associates
Engineering and
Environmental Services

GROUND-WATER SAMPLING FORM

Job Name UTM
Job Number 56157-1
Recorded by Wes Haydock (Signature)

Well No. MW-3
Well Type: ☑ Monitor ☐ Extraction ☐ Other
Well Material: ☑ PVC ☐ St. Steel ☐ Other
Date 5.31.02 Time
Sampled by [illegible] (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Total Depth of Casing (TD in feet BTOC): 37.43
Water Level Depth (WL in feet BTOC): 21.78
Number of Well Volumes to be purged (# Vols)
☐ 3 ☑ 4 ☐ 5 ☐ 10 ☐ Other

PURGE METHOD

☐ Bailer - Type:
☑ Submersible ☐ Centrifugal ☐ Bladder: Pump No.:
☐ Other - Type: Grundfos

PUMP INTAKE SETTING

☑ Near Bottom ☐ Near Top ☐ Other
Depth in feet (BTOC): Screen Interval in Feet (BTOC) from to

PURGE VOLUME CALCULATION:

(37.43 - 21.78) X 4 ^{2} X 4 X 0.0408 = 40.86 gallons
TD (feet) WL (feet) D (inches) # Vols Calculated Purge Volume

PURGE TIME

1040 Start Stop Elapsed

PURGE RATE

Initial gpm Final gpm

ACTUAL PURGE VOLUME

41 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other Turb.	gal.
Initial	7.25	2650	no sand	Clear	1
1043	7.20	2710		"	10
1050	7.18	2690		"	30
1055	7.14	2670		"	41

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor):
Discharge Water Disposal: ☐ Sanitary Sewer ☐ Storm Sewer ☑ Other Onsite drum storage

WELL SAMPLING

SAMPLING METHOD

☑ Bailer - Type: Disposable
☐ Submersible ☐ Centrifugal ☐ Bladder: Pump No.:
☐ Same As Above
☑ Grab - Type:
☐ Other - Type:

SAMPLING DISTRIBUTION

Sample Series:

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
Well MW 3	(3L) 3(500ml)	Var.	HNO_3/NaOH	Del Mar	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

Harding Lawson Associates
Engineering and
Environmental Services

GROUND-WATER SAMPLING FORM

Job Name: UTM
Job Number: 56157-1
Recorded by: [signature] (Signature)

Well No.: MW-4
Well Type: ☑ Monitor ☐ Extraction ☐ Other
Well Material: ☑ PVC ☐ St. Steel ☐ Other
Date: 5-31-02 Time: 800
Sampled by: [initials] (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Total Depth of Casing (TD in feet BTOC): 53.38
Water Level Depth (WL in feet BTOC): 27.41
Number of Well Volumes to be purged (# Vols)
☐ 3 ☑ 4 ☐ 5 ☐ 10 ☐ Other

PURGE METHOD

☐ Bailer - Type:
☑ Submersible ☐ Centrifugal ☐ Bladder: Pump No.:
☐ Other - Type: Grundfos

PUMP INTAKE SETTING

☑ Near Bottom ☐ Near Top ☐ Other
Depth in feet (BTOC): Screen Interval in Feet (BTOC) from to

PURGE VOLUME CALCULATION:

(53.38 TD (feet) - 27.41 WL (feet)) X 4 D (inches)^2 X 4 # Vols X 0.0408 = 67.81 gallons Calculated Purge Volume

PURGE TIME

812 Start Stop Elapsed

PURGE RATE

Initial gpm Final gpm

ACTUAL PURGE VOLUME

70 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☑ °F	Other Turb	gal.
initial	6.89	4170	21	Silty	1
820	6.95	3040	19.7	clearing	20
830	7.01	2870	19.6	"	40
843	7.18	2690	19.5	Clear	67.81

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor):
Discharge Water Disposal: ☐ Sanitary Sewer ☐ Storm Sewer ☑ Other Onsite drum storage

WELL SAMPLING

SAMPLING METHOD

☐ Same As Above
☑ Bailer - Type: Disposable
☐ Submersible ☐ Centrifugal ☐ Bladder: Pump No.:
☑ Grab - Type:
☐ Other - Type:

SAMPLING DISTRIBUTION

Sample Series:

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
1 well MW-4	(3L)(3500ml)	VOC	HNO_3/NaOH	Pel Mar	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

PL204

Harding Lawson Associates
Engineering and
Environmental Services

GROUND-WATER SAMPLING FORM

Job Name: UTM
Job Number: 56157-1
Recorded by: [signature] (Signature)

Well No.: MW-5
Well Type: ☑ Monitor ☐ Extraction ☐ Other
Well Material: ☑ PVC ☐ St. Steel ☐ Other
Date: 5-31-02 Time: 845
Sampled by: OP (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Total Depth of Casing (TD in feet BTOC): 44.04
Water Level Depth (WL in feet BTOC): 25.64
Number of Well Volumes to be purged (# Vols)
☐ 3 ☑ 4 ☐ 5 ☐ 10 ☐ Other

PURGE METHOD

☐ Bailer - Type:
☑ Submersible ☐ Centrifugal ☐ Bladder: Pump No.
☐ Other - Type: Grundfos

PUMP INTAKE SETTING

☑ Near Bottom ☐ Near Top ☐ Other
Depth in feet (BTOC): Screen Interval in Feet (BTOC) from to

PURGE VOLUME CALCULATION:

(44.04 TD (feet) - 25.64 WL (feet)) X 4 D (inches)^2 X 4 # Vols X 0.0408 = 48.04 gallons Calculated Purge Volume

PURGE TIME

847 Start Stop Elapsed

PURGE RATE

Initial gpm Final gpm

ACTUAL PURGE VOLUME

50 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other Turb
initial	7.24	2680	~~7.2~~ 16.7	mod.
853	7.10	2670	17.0	clearing
901	7.17	2650	17.3	clear
909	7.16	2610	17.5	"

gal.
1
15
30
48

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor):
Discharge Water Disposal: ☐ Sanitary Sewer ☐ Storm Sewer ☑ Other Onsite drum storage

WELL SAMPLING

SAMPLING METHOD

☑ Bailer - Type: Disposable
☐ Submersible ☐ Centrifugal ☐ Bladder: Pump No.:
☐ Same As Above
☑ Grab - Type:
☐ Other - Type:

SAMPLING DISTRIBUTION

Sample Series:

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
WELL/MW-5	(3L)(~~500ml~~)	VOC	HNO_3 / NaOH	Del Mar	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

Harding Lawson Associates
Engineering and
Environmental Services

GROUND-WATER SAMPLING FORM

Job Name: UTM
Job Number: 56157-1
Recorded by: [signature] (Signature)

Well No.: MW-6
Well Type: ☑ Monitor ☐ Extraction ☐ Other
Well Material: ☑ PVC ☐ St. Steel ☐ Other
Date: 5-31-02 Time: 912
Sampled by: [initials] (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Total Depth of Casing (TD in feet BTOC): 39.05
Water Level Depth (WL in feet BTOC): 23.99
Number of Well Volumes to be purged (# Vols)
☐ 3 ☑ 4 ☐ 5 ☐ 10 ☐ Other

PURGE METHOD

☐ Bailer - Type:
☑ Submersible ☐ Centrifugal ☐ Bladder: Pump No
☐ Other - Type: Grundfos

PUMP INTAKE SETTING

☑ Near Bottom ☐ Near Top ☐ Other
Depth in feet (BTOC): Screen Interval in Feet (BTOC) from to

PURGE VOLUME CALCULATION:

(39.05 TD (feet) - 23.99 WL (feet)) X 4 D (inches)^2 X 4 # Vols X 0.0408 = 39.32 gallons Calculated Purge Volume

PURGE TIME

918 Start Stop Elapsed

PURGE RATE

Initial gpm Final gpm

ACTUAL PURGE VOLUME

40 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☑ °F	Other Turb.	
initial	7.27	2400	no good	Clear	1
923	7.16	2380		"	10
926	7.15	2390		"	20
930	7.13	2400		"	30
934	7.11	2390		"	40

59.1

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor):

Discharge Water Disposal: ☐ Sanitary Sewer ☐ Storm Sewer ☑ Other Onsite Drum Storage

WELL SAMPLING

SAMPLING METHOD

☑ Bailer - Type: Disposable
☐ Submersible ☐ Centrifugal ☐ Bladder: Pump No.:
☐ Same As Above
☐ Grab - Type:
☐ Other - Type:

SAMPLING DISTRIBUTION

Sample Series:

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
Well MW-6	(3L) 3(500mL)	Var.	HNO_3 / NaOH	Del Mar	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

APPENDIX B

CERTIFIED LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
3630 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

LABORATORY REPORT

Prepared For: Harding ESE-Irvine
2171 Campus Drive, Suite 100
Irvine, CA 92612

Attention: Camilla Frejd-Smith
Project: 56157.1

Sampled: 05/31/02
Received: 05/31/02
Reported: 06/07/02

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1197
AZ DHS License #AZ0428

Del Mar Analytical, Irvine
Jim Hatfield
Project Manager

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Del Mar Analytical

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Harding ESE-Irvine
171 Campus Drive, Suite 100
Irvine, CA 92612
Attention: Camilla Frejd-Smith

Project ID: 56157.1

Report Number: ILE1461

Sampled: 05/31/02
Received: 05/31/02

SAMPLE CROSS REFERENCE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES
ILE1461-01	Well MW-2	Water	EPA 200.8 EPA 7199
ILE1461-02	Well MW-3	Water	EPA 200.8 EPA 7199
ILE1461-03	Well MW-4	Water	EPA 200.8 EPA 7199
ILE1461-04	Well MW-5	Water	EPA 200.8 EPA 7199
ILE1461-05	Well MW-6	Water	EPA 200.8 EPA 7199
ILE1461-06	Duplicate #1	Water	EPA 200.8 EPA 7199

D MAR ANALYTICAL, IRVINE (CA ELAP #1197)
Analytical, Irvine
Hatfield
oject Manager

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Del Mar Analytical

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Harding ESE-Irvine
2171 Campus Drive, Suite 100
Irvine, CA 92612
Attention: Camilla Frejd-Smith

Project ID: 56157.1

Report Number: ILE1461

Sampled: 05/31/02
Received: 05/31/02

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l	ug/l				
Sample ID: ILE1461-01 (Well MW-2 - Water)									
Chromium	EPA 200.8	I2F0467	0.14	1.0	**0.52**	1	06/04/02	06/05/02	J
Sample ID: ILE1461-02 (Well MW-3 - Water)									
Chromium	EPA 200.8	I2F0467	0.14	1.0	**0.80**	1	06/04/02	06/05/02	J
Sample ID: ILE1461-03 (Well MW-4 - Water)									
Chromium	EPA 200.8	I2F0467	0.14	1.0	**1.5**	1	06/04/02	06/05/02	
Sample ID: ILE1461-04 (Well MW-5 - Water)									
Chromium	EPA 200.8	I2F0467	0.14	1.0	**1.4**	1	06/04/02	06/05/02	
Sample ID: ILE1461-05 (Well MW-6 - Water)									
Chromium	EPA 200.8	I2F0467	0.14	1.0	**1.2**	1	06/04/02	06/05/02	
Sample ID: ILE1461-06 (Duplicate #1 - Water)									
Chromium	EPA 200.8	I2F0467	0.14	1.0	**0.60**	1	06/04/02	06/05/02	J

ar Analytical, Irvine
n Harfield
Project Manager

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Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Harding ESE-Irvine
2171 Campus Drive, Suite 100
Irvine, CA 92612
Attention: Camilla Frejd-Smith

Project ID: 56157.1
Report Number: ILE1461

Sampled: 05/31/02
Received: 05/31/02

INORGANICS

Analyte	Method	Batch	MDL Limit ug/l	Reporting Limit ug/l	Sample Result ug/l	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ILE1461-01 (Well MW-2 - Water)									
Chromium VI	EPA 7199	I2E3158	0.60	1.0	ND	1	05/31/02	05/31/02	
Sample ID: ILE1461-02 (Well MW-3 - Water)									
Chromium VI	EPA 7199	I2E3158	0.60	1.0	**0.83**	1	05/31/02	05/31/02	J
Sample ID: ILE1461-03 (Well MW-4 - Water)									
Chromium VI	EPA 7199	I2E3158	0.60	1.0	**1.3**	1	05/31/02	05/31/02	
Sample ID: ILE1461-04 (Well MW-5 - Water)									
Chromium VI	EPA 7199	I2E3158	0.60	1.0	**0.77**	1	05/31/02	05/31/02	J
Sample ID: ILE1461-05 (Well MW-6 - Water)									
Chromium VI	EPA 7199	I2E3158	0.60	1.0	**2.1**	1	05/31/02	05/31/02	
Sample ID: ILE1461-06 (Duplicate #1 - Water)									
Chromium VI	EPA 7199	I2E3158	0.60	1.0	ND	1	05/31/02	05/31/02	

Analytical, Irvine
ratfield
roject Manager

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Del Mar Analytical

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Harding ESE-Irvine 2171 Campus Drive, Suite 100 Irvine, CA 92612 Attention: Camilla Frejd-Smith	Project ID: 56157.1 Report Number: ILE1461	Sampled: 05/31/02 Received: 05/31/02

DATA QUALIFIERS AND DEFINITIONS

J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of unknown quality.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

r Analytical, Irvine
. Hatfield
roject Manager

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9484 Chesapeake Dr., Suite 806, San Diego, CA 92123 (858) 505-
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-
2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-
(818)
(858) 505-
(480) 785-
(702) 798-

CHAIN OF CUSTODY FORM

Page ____ of ____

Client Name/Address: Harding ESE 2171 Campus Dr. Suite 100 Irvine CA 92612-1422

Project/PO Number: 56157.1

Project Manager: Camilla Frödsmith

Phone Number: 949 224-0050

Sampler: Wes Haydock

Fax Number: 949 2240073

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	USEPA Method 314 Perchlorate 2ppb	USEPA Method 1625C NDMA 0.002ug/L	USEPA Method 8270C 1,4-Dioxane 2ppb	Method 218.6 Hexavalent Chromium	Method 200.8 Total Chromium				Special Instructions
Well MW-2	Water	Grab	6	5-31-02	1320	~~NaOH~~ HNO_3	X	X	X	X	X				
Well MW-3	↓	↓	6	↓	1300	NaOH HNO_3	X	X	X	X	X				
Well MW-4	↓	↓	6	↓	1415	↓	X	X	X	X	X				
Well MW-5	↓	↓	6	↓	1400	↓	X	X	X	X	X				
Well MW-6	↓	↓	6	↓	1345	↓	X	X	X	X	X				
Duplicate #1	↓	↓	6	↓	1240	↓	X	X	X	X	X				

Relinquished By:	Date/Time:	Received by:	Date/Time:
[signature]	5-31-02 1540		
Relinquished By:	Date/Time:	Received by:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab by: [signature]	Date/Time: 5-31-02 1540

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
Intact X on ice 5°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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fax

TO: Camilla Frejd-Smith

COMPANY: Harding Lawson & Associates

FAX #: (949) 224-0073

FROM: Jayna Kostura

DATE: June 14, 2002

SUBJECT: Results

PAGES: eight, including this cover sheet

MESSAGE

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Report Date: *Friday, June 14, 2002*
Received Date: *Monday, June 03, 2002*
Log By: tn
Log Time: 11:19

Client: Harding Lawson & Associates
2171 Campus Drive, Suite 100
Irvine, CA 92612
Attn.: Camilla Frejd-Smith

Phone: (949) 224-0050
FAX: (949) 224-0073

Project:

P.O. #:
Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A203783-001 Sample ID: Well MW-2 Matrix: Water
Sampled By: Wes H. Date: 5/31/2002 Time: 13:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Perchlorate	2.7	J	ug/L	2	4.0	EPA 314	6/12/2002 dc	WS34898
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
N-Nitroso-dimethylamine	ND		ng/L	1	2.0	EPA 1625M	6/14/2002 EM	WS34865
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
1,4-Dioxane	2.2		ug/L	1	0.50	EPA 8270M	6/13/2002 bn	WS34781

Lab#: A203783-002 Sample ID: Well MW-3 Matrix: Water
Sampled By: Wes H. Date: 5/31/2002 Time: 13:00

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Perchlorate	5.5		ug/L	2	4.0	EPA 314	6/12/2002 dc	WS34898
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
N-Nitroso-dimethylamine	ND		ng/L	1	2.0	EPA 1625M	6/14/2002 EM	WS34865
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
1,4-Dioxane	2.1		ug/L	1	0.50	EPA 8270M	6/13/2002 bn	WS34781

Lab#: A203783-003 Sample ID: Well MW-4 Matrix: Water
Sampled By: Wes H. Date: 5/31/2002 Time: 14:15

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Perchlorate	1.9	J	ug/L	1	2.0	EPA 314	6/11/2002 dc	WS34891
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
N-Nitroso-dimethylamine	ND		ng/L	1	2.0	EPA 1625M	6/14/2002 EM	WS34865
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
1,4-Dioxane	1.8		ug/L	1	0.50	EPA 8270M	6/13/2002 bn	WS34781

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CERTIFICATE OF ANALYSIS

Lab#: A203783-004 Sample ID: Well MW-5 Matrix: Water
Sampled By: Wes H. Date: 5/31/2002 Time: 14:00

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Perchlorate	2.4		ug/L	1	2.0	EPA 314	6/11/2002 dc	WS34891
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
N-Nitroso-dimethylamine	ND		ng/L	1	2.0	EPA 1625M	6/14/2002 EM	WS34865
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
1,4-Dioxane	1.1		ug/L	1	0.50	EPA 8270M	6/13/2002 bn	WS34781

Lab#: A203783-005 Sample ID: Well MW-8 Matrix: Water
Sampled By: Wes H. Date: 5/31/2002 Time: 13:45

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Perchlorate	2.9		ug/L	1	2.0	EPA 314	6/11/2002 dc	WS34891
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
Nitroso-dimethylamine	ND		ng/L	1	2.0	EPA 1625M	6/14/2002 EM	WS34865
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
1,4-Dioxane	4.4		ug/L	1	0.50	EPA 8270M	6/13/2002 bn	WS34781

Lab#: A203783-006 Sample ID: Duplicate #1 Matrix: Water
Sampled By: Wes H. Date: 5/31/2002 Time: 12:40

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Perchlorate	3.5 J		ug/L	2	4.0	EPA 314	6/12/2002 dc	WS34898
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
N-Nitroso-dimethylamine	ND		ng/L	1	2.0	EPA 1625M	6/14/2002 EM	WS34865
Prep. Method: EPA 3520C Date: 6/10/2002 By em								
1,4-Dioxane	2.2		ug/L	1	0.50	EPA 8270M	6/13/2002 bn	WS34781

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Report Date: *Friday, June 14, 2002*

CERTIFICATE OF ANALYSIS

Authorized Signature

ELAP # 1132
LACSD # 10143

Flags for Data Qualifiers:

B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
J = Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Pratical Quantitation Limit (PQL).
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:

The Chain of Custody document is part of the analytical report.
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.

Lab#: *A203783*

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Client: Harding Lawson & Associates
Project Name:

QC Report Date: *Friday, June 14, 2002*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A203777-001MS	8270_dio_ms	1,4-Dioxane	ND	23.4	ug/L	20	117		53	138
A203777-001MSD	8270_dio_ms	1,4-Dioxane	ND	23.2	ug/L	20	116	1	53	138
LCS	8270dio_lcs	1,4-Dioxane		11.9	ug/L	10	119		77	133
Method Blank	8270dio_bl	1,4-Dioxane		ND	ug/L		0			

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS34781	A203777-001	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203777-002	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203777-003	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203777-004	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203782-001	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203783-001	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203783-002	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203783-003	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203783-004	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203783-005	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203783-006	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002
WS34781	A203802-001	1,4-Dioxane by GC/MS isotopic dilution	6/13/2002

Note:

ND = Not Detected MS = Matrix Spike MSD = Matrix Spike Duplicate SURR = Surrogate
BL = Blank DUP = Duplicate RPD = Relative Percent Deviation LCS = Laboratory Control Standard

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Project Name:

QC Report Date: *Friday, June 14, 2002*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A203777-001MS	ndma_ms	N-Nitrosodimethylamine		15.7	ng/L	20	74.9		70	130
A203777-001MSD	ndma_msd	N-Nitrosodimethylamine		18.2	ng/L	20	87.4	15	70	130
LCS	ndma_lcs	N-Nitrosodimethylamine		9.59	ng/L	10	95.9		70	130
Method Blank	ndma_bl	N-Nitroso-dimethylamine		0.80	ng/L		0			0.5

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS34865	A203777-001	N-Nitrosdimethylamine	6/14/2002
WS34865	A203777-002	N-Nitrosdimethylamine	6/14/2002
WS34865	A203777-003	N-Nitrosdimethylamine	6/14/2002
WS34865	A203777-004	N-Nitrosdimethylamine	6/14/2002
WS34865	A203782-001	N-Nitrosodimethylamine	6/14/2002
WS34865	A203783-001	N-Nitrosodimethylamine	6/14/2002
WS34865	A203783-002	N-Nitrosodimethylamine	6/14/2002
WS34865	A203783-003	N-Nitrosodimethylamine	6/14/2002
WS34865	A203783-004	N-Nitrosodimethylamine	6/14/2002
WS34865	A203783-005	N-Nitrosodimethylamine	6/14/2002
WS34865	A203783-006	N-Nitrosodimethylamine	6/14/2002
WS34865	A203802-001	N-Nitrosodimethylamine	6/14/2002

Note:

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QC Report Date: *Friday, June 14, 2002*
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QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A203914-001MS	314w_ms	Perchlorate	ND	20.7	ug/L	20	103.5		80	120
A203914-001MSD	314w_msd	Perchlorate	ND	20.0	ug/L	20	100	3	80	120
LCS	314w_lcs	Perchlorate		20.7	ug/L	20	103.5		85	115
Method Blank	314w_bl	Perchlorate		ND	ug/L		0			3

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS34891	A203700-001	Perchlorate in water by IC	6/11/2002
WS34891	A203736-001	Perchlorate in water by IC	6/11/2002
WS34891	A203783-003	Perchlorate in water by IC	6/11/2002
WS34891	A203783-004	Perchlorate in water by IC	6/11/2002
WS34891	A203783-005	Perchlorate in water by IC	6/11/2002
WS34891	A203861-001	Perchlorate in water by IC	6/11/2002
WS34891	A203861-002	Perchlorate in water by IC	6/11/2002
WS34891	A203863-001	Perchlorate in water by IC	6/11/2002
WS34891	A203863-002	Perchlorate in water by IC	6/11/2002
WS34891	A203888-001	Perchlorate in water by IC	6/11/2002
WS34891	A203888-002	Perchlorate in water by IC	6/11/2002
WS34891	A203888-003	Perchlorate in water by IC	6/11/2002
WS34891	A203895-001	Perchlorate in water by IC	6/11/2002
WS34891	A203895-002	Perchlorate in water by IC	6/11/2002
WS34891	A203896-001	Perchlorate in water by IC	6/11/2002
WS34891	A203914-001	Perchlorate in water by IC	6/11/2002

Note:

ND = Not Detected MS = Matrix Spike MSD = Matrix Spike Duplicate SURR = Surrogate
BL = Blank DUP = Duplicate RPD = Relative Percent Deviation LCS = Laboratory Control Standard

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Project Name:

QC Report Date: *Friday, June 14, 2002*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A204068-003MS	314w_ms	Perchlorate	3.9	23.6	ug/L	20	98.5		80	120
A204068-003MSD	314w_msd	Perchlorate	3.9	27.3	ug/L	20	117	15	80	120
LCS	314w_lcs	Perchlorate		21.1	ug/L	20	105.5		85	115
Method Blank	314w_bl	Perchlorate		ND	ug/L		0			3

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS34898	A203783-001	Perchlorate in water by IC	6/12/2002
WS34898	A203783-002	Perchlorate in water by IC	6/12/2002
WS34898	A203783-006	Perchlorate in water by IC	6/12/2002
WS34898	A203888-004	Perchlorate in water by IC	6/12/2002
WS34898	A203913-001	Perchlorate in water by IC	6/12/2002
WS34898	A203913-002	Perchlorate in water by IC	6/12/2002
S34898	A203945-001	Perchlorate in water by IC	6/12/2002
S34898	A203945-002	Perchlorate in water by IC	6/12/2002
WS34898	A203945-003	Perchlorate in water by IC	6/12/2002
WS34898	A203945-004	Perchlorate in water by IC	6/12/2002
WS34898	A203994-001	Perchlorate in water by IC	6/12/2002
WS34898	A203994-002	Perchlorate in water by IC	6/12/2002
WS34898	A203994-003	Perchlorate in water by IC	6/12/2002
WS34898	A204014-001	Perchlorate in water by IC	6/12/2002
WS34898	A204043-001	Perchlorate in water by IC	6/12/2002
WS34898	A204043-002	Perchlorate in water by IC	6/12/2002
WS34898	A204043-003	Perchlorate in water by IC	6/12/2002
WS34898	A204068-001	Perchlorate in water by IC	6/12/2002
WS34898	A204068-002	Perchlorate in water by IC	6/12/2002
WS34898	A204068-003	Perchlorate in water by IC	6/12/2002

Note:

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BL = Blank DUP = Duplicate RPD = Relative Percent Deviation LCS = Laboratory Control Standard

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