Tra ce Analysis Laboratory, Inc.
3423 Investment Boulevard, #8 • Hayward, California 94545
Telephone (415) 783-6960
Facsimile (415) 783-1512

TAL

February 15, 1991

Richard Faber
Helmut Motors
82 "A" Street
Hayward, CA 94541

Dear Mr. Faber:

Trace Analysis Laboratory received one soil sample on January 29, 1991, for your Project: Helmut Motors (our custody Log Number 9558).

These samples were analyzed for the tests as indicated on the chain of costody. Our analytical report and a copy of the completed chain of custody form are enclosed for your review.

If you should have any questions or require additional information, please call me.

Sincerely yours,

Gerald H. Nieder-Westermann
Project Specialist

GNW:gnw

Enclosures

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TAL

LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE EXTRACTED: 1/30/91
DATE ANALYZED: 2/12/91
DATE REPORTED: 2/15/91

CUSTOMER: Helmut Motors

REQUESTER: Richard Faber

PROJECT: Helmut Motors

		Sample Type: Soil			
		7		Method Blank	
Method and Constituent	Units	Concentration	Reporting Limit	Concentration	Reporting Limit
Modified EPA Method 8020:					
Benzene	ug/kg	ND	5	ND	5
Toluene	ug/kg	ND	5	ND	5
Xylenes	ug/kg	ND	20	ND	20
Ethylbenzene	ug/kg	ND	5	ND	5

QC Summary:

% Recovery: 122
% RPD: 2.5

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE EXTRACTED: 2/12/91
DATE ANALYZED: 2/14/91
DATE REPORTED: 2/15/91
PAGE: Two

Sample Type: Soil

Method and Constituent	Units	7 Concentration	Reporting Limit
Standard Method 5520B, Hydrocarbons:			
Oil and Grease	ug/kg	ND	50,000

QC Summary:

% Recovery: 71.0 %
% RPD: 6.0 %

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE EXTRACTED: 1/30/91, 2/01/91,
DATE ANALYZED: 2/07/91 and 2/08/91,
DATE REPORTED: 2/15/91
PAGE: Three

Sample Type: Toxicity Characteristic Leaching Procedure Extract of Soil

Method and Constituent:	Units	7 Concentration	7 Reporting Limit	Method Blank Concentration	Method Blank Reporting Limit	QC Summary % Recovery	QC Summary % RPD
EPA Method 7061:							
Arsenic	ug/l	3.4	0.9	ND	0.9	76.1	5.4
EPA Method 7061:							
Arsenic, recovery corrected	ug/l	4.5					
EPA Method 7080:							
Barium	ug/l	ND	2,000	ND	2,000	104	7.7
EPA Method 7130:							
Cadmium	ug/l	ND	20	ND	20	96.4	3.3
EPA Method 7190:							
Chromium	ug/l	ND	40	ND	40	77.0	6.7

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE EXTRACTED: 1/30/91, 2/01/91, 2/05/91 and 2/07/91
DATE ANALYZED: 2/04/91, 2/07/91, and 2/08/91
DATE REPORTED: 2/15/91
PAGE: Four

Sample Type: Toxicity Characteristic Leaching Procedure Extract of Soil

Method and Constituent:	Units	7 Concentration	7 Reporting Limit	Method Blank Concentration	Method Blank Reporting Limit	QC Summary % Recovery	QC Summary % RPD
EPA Method 7420:							
Lead	ug/l	ND	100	ND	100	106	0.94
EPA Method 7471:							
Mercury	ug/l	ND	0.1	ND	0.1	84.6	12
EPA Method 7741:							
Selenium	ug/l	ND	8	ND	8	79.3	9.8
EPA Method 7760:							
Silver	ug/l	140	80	ND	80	109	7.3
EPA Method 7760:							
Silver, recovery corrected	ug/l	130					

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE EXTRACTED: 1/30/91 and 2/01/91
DATE ANALYZED: 2/07/91
DATE REPORTED: 2/15/91
PAGE: Five

Sample Type: Waste Extraction Test Extract of Soil

Method and Constituent:	Units	7 Concentration	7 Reporting Limit	Method Blank Concentration	Method Blank Reporting Limit
EPA Method 7420:					
Lead	ug/l	ND	100	ND	100

QC Summary:

% Recovery: 101
% RPD: 1.7

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE ANALYZED: 2/05/91
DATE REPORTED: 2/15/91
PAGE: Six

Sample Type: Soil

Method and Constituent:	Units	7 Concentration	Reporting Limit
EPA Method 1010:			
Flashpoint	°F	> 150	150

LOG NO.:	9558
DATE SAMPLED:	1/29/91
DATE RECEIVED:	1/29/91
DATE ANALYZED:	1/30/91
DATE REPORTED:	2/15/91
PAGE:	Seven

Sample Type: Soil

Method and Constituent:	Units	7 pH	Reporting Limit
EPA Method 150.1:			
pH		7.3	+/- 0.1

LOG NO.:	9558
DATE SAMPLED:	1/29/91
DATE RECEIVED:	1/29/91
DATE ANALYZED:	2/06/91
DATE REPORTED:	2/15/91
PAGE:	Eight

Sample Type: Soil

7

Method and Constituent:

Reactivity in Water, Acid and Base

100 ml of de-ionized water was added to three beakers. The pH was adjusted to test acid reactivity (pH 2), base reactivity (pH 14) and water reactivity (pH 7). After the the temperature stabilized 5.0 grams of sample was added to each beaker. The initial and final temperature was recorded over a 5 minute span. There was no temperature change. Furthermore, no bubbling or color change was detectable. The sample showed no reactivity for water, acid, or base.

Louis W. DuPuis
Quality Assurance/Quality Control Manager