A GROUND WATER CONSULTANCY

Ms. Madhulla Logan

 $\circ$ 

August 11, 1998

Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services, Environmental Protection (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: Additional Investigations Downgradient of Borehole B-8 at Runnels Industries, Inc., 3590 Enterprise Avenue, Hayward, CA.

Dear Ms. Logan;

H₂OGEOL has prepared this letter report for additional investigations downgradient of borehole B-8 on behalf of Runnels Industries, Inc., in response to Task 2 of your April 06, 1998 letter and in accordance with the workplan date April 30, 1998. The location of Runnels Industries, 3590 Enterprise Avenue, Hayward, California, is shown on Figure 1. A site map is provided as Figure 2.

You requested a discussion of the probable sources of heavy petroleum hydrocarbons found in the borehole B-8 area. According to the Mr. Al Gant, representative of Runnels Industries, a diesel powered air compressor was formerly located on the "Existing Concrete Surface" shown on Figure 2. This area is immediately upgradient with respect to both surface water drainage and the potentiometric surface configuration (see the September 30, 1997 and May 26, 1998 reports) from borehole B-8. The concrete pad has also been used as a wash down area from motor equipment maintenance operations

Nine test holes (TH-1 to TH-9) were installed by using a hand operated Iwan Auger in the area downgradient of borehole B-8. This area is on the property occupied by the KFAX transmitter facility operated by Salem Communications Corporation of Camarillo, California. The locations of these nine test holes are shown in Figure 3.

The test holes were installed in the sequence numbered. Test holes TH-1 through TH-5 were installed at ten foot intervals from the Runnels facility fence line, along the apparent slope of

Ms. Madhulla Logan August 07, 1998 Page 2

the potentiometric surface away from borehole B-8 (i.e, directly downgradient). The presence of a petroleum hydrocarbon (diesel like) odor was noted in the first three of these test holes. Test holes TH-4 was placed twenty feet beyond TH-3 due to the continuing presence of a petroleum hydrocarbon odor. Since no odor was noted at test hole TH-4, test holes TH-5 was placed halfway between TH-3 and TH-4.

Test holes TH-6 through TH-9 were placed five feet out, along the fence line. Test hole TH-6 was placed 25 feet north of the line B-8 to TH-5 and encountered only a faint petroleum hydrocarbon odor. Test hole TH-7 was placed 25 feet south of the line B-8 to TH-5 and a distance petroleum hydrocarbon odor. A similar odor was noted at test hole TH-8, ten feet farther south. No odor was discernable at test hole Th-9, a total of 45 feet south of the line B-8 to TH-5. The depths of first encountered petroleum hydrocarbon odor, first encountered water, and total test hole depth are summarized below.

	FIRST ODOR	FIRST WATER	TOTAL I	DEPTH
TH-1	4.8 Ft.		5.0	Ft.
TH-2	5.8 Ft.		6.0	Ft.
TH-3	5.8 Ft.		6.6	Ft.
TH-4	NONE	6.1 Ft.	6.62	Ft.
TH-5	NONE	6.2 Ft.	8.18	Ft.
TH-6	5.8 Ft.	6.2 Ft.	6.3	Ft.
TH-7	5.0 Ft.		5.0	Ft.
TH-8	5.2 Ft.		6.0	Ft.
TH-9	NONE	6.45 Ft.	6.45	Ft.

The purpose in the additional investigations downgradient of borehole B-8 was to determine the extent of petroleum hydrocarbon contamination. Six soil samples were collected from the soil plume area and one downgradient groundwater grab sample was collected. These six samples define petroleum hydrocarbon concentrations in the middle of the soil plume with a petroleum hydrocarbon (diesel like) odor and near and beyond the outer edges of the petroleum hydrocarbon soil odor area.

The six soil and one water sample containers were labeled and placed in an ice chest with 2 Liter plastic bottles containing ice. Chain-of-Custody forms were filled out and were delivered

Ms. Madhulla Logan August 07, 1998 Page 3

with the ice chest to Chromalab, Inc. of Pleasanton, California, a state certified laboratory (DTSC No. 1094). Chromalab analyzed the soil and water samples for total extractable petroleum hydrocarbon as diesel (TEPH-d) like using U.S. EPA Method 8015M. The laboratory report and chain-of-custody documentation are attached hereto.

The TEPH-diesel analytical results were as follows:

TH-3/6.5 Ft.	640	mg/Kg
TH-4/5.8 Ft.	<1.0	mg/Kg
TH-6/6 Ft.	53	mg/Kg
TH-8/5.8 Ft.	170	mg/Kg
TH-9/6.3 Ft.	<1.0	mg/Kg

The downgradient groundwater sample was reported as N.D. at less than <0.050 mg/L (less than 50 micrograms per liter).

These results and the earlier results from borehole B-8 are shown graphically in Figure 4. These data are contoured to show approximate distribution of TEPH-diesel in Figure 5.

The relatively close proximity of the end of the plume (i.e., N.D. at TH-4) to the probable source area suggests that a stable plume situation exists. Furthermore, all of the concentrations of diesel reported are below levels normally expected to trigger further investigation.

Please do not hesitate to call me at 925-373-9211 should you have any questions.

Sincerely,

XC:

Gary D. Lowe, R.G., C.E.G., C.HG

Principal, Hydrogeologist

Mr. Al Gant - Runnels Industries

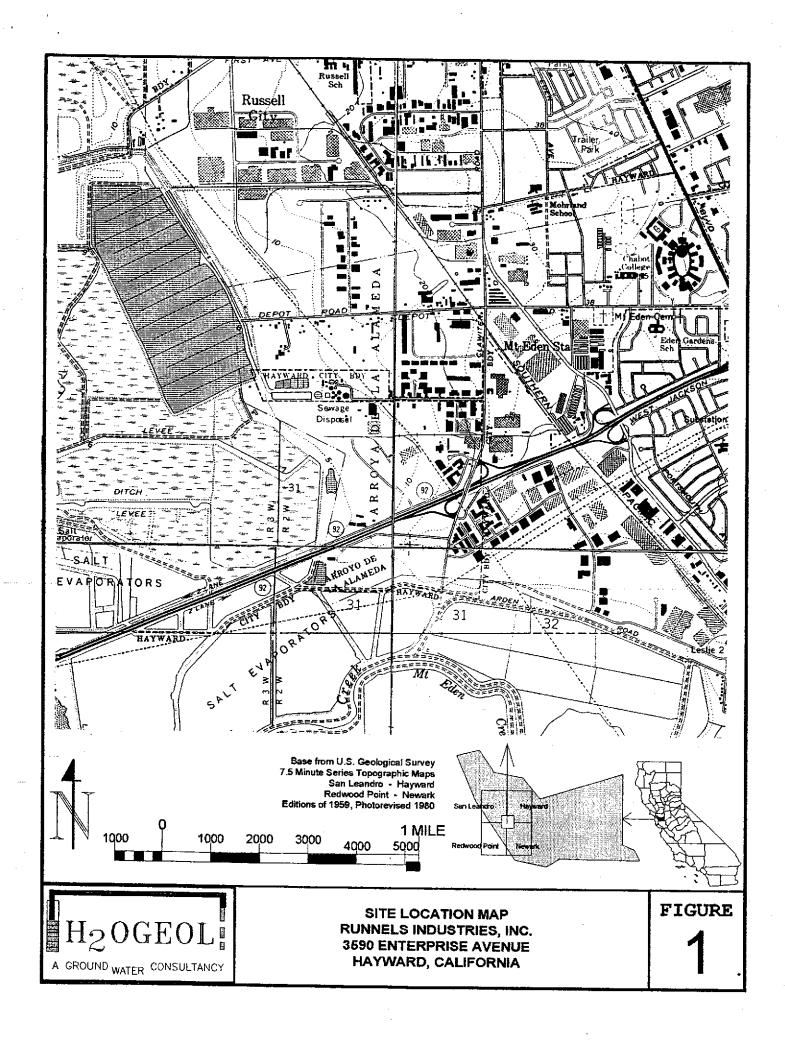
Mr. Dirk Gastaldo - Salem Communications Corporation

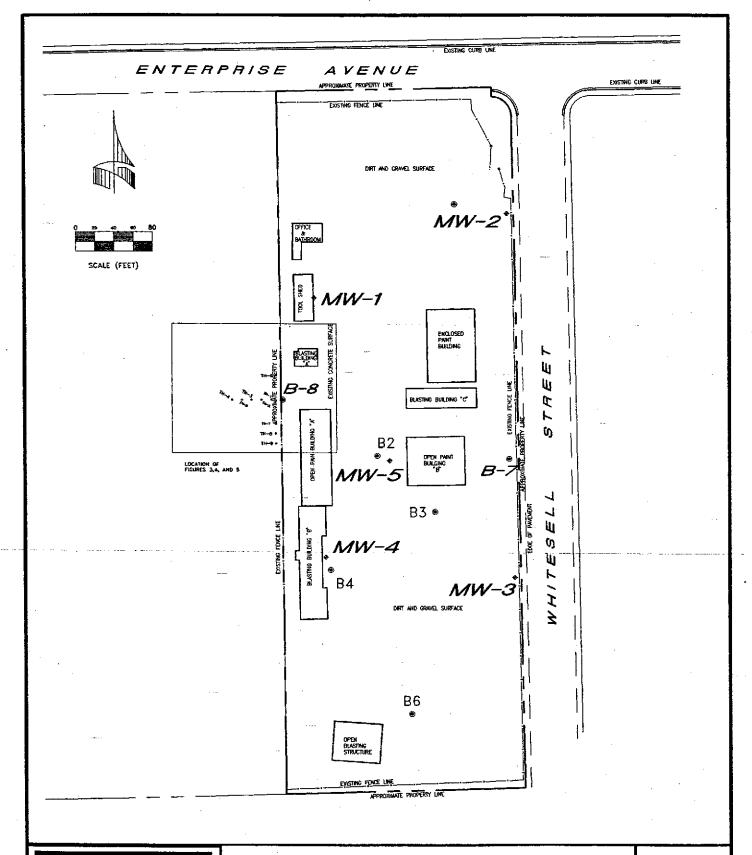
Mr. Alan N. Bick - Gibson, Dunn & Crutcher LLP

GARY D. LOWE No. 127

CERTIFIED

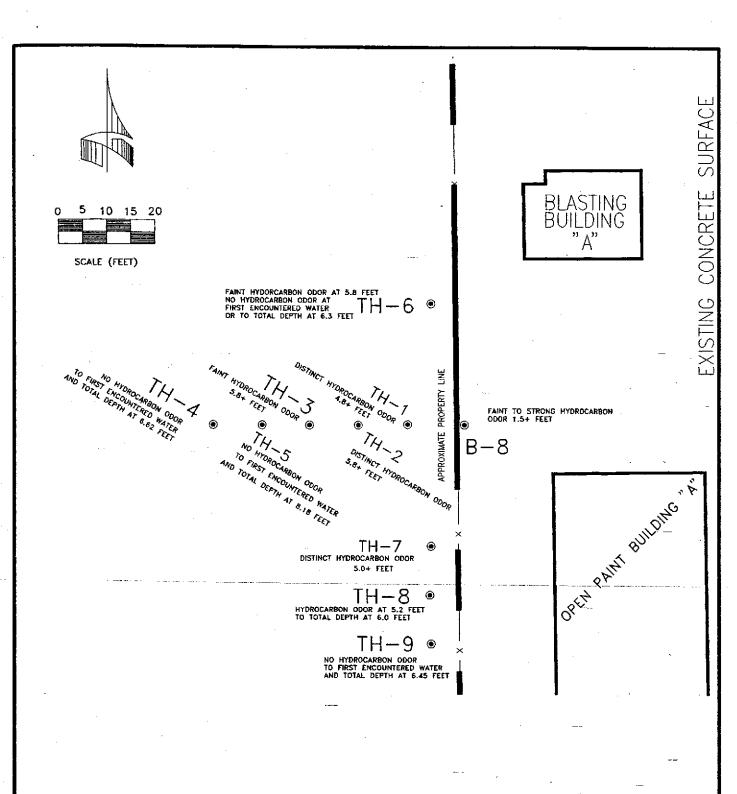
**HYDROGEOLOGIS** 





H2OGEOL A GROUND WATER CONSULTANCY

SITE MAP AND LOCATION OF FIGURES 3, 4, AND 5 RUNNELS INDUSTRIES, INC. 3590 ENTERPRISE AVENUE HAYWARD, CALIFORNIA FIGURE 2

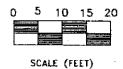




LOCATION TEST HOLES DOWNGRADIENT OF B-8
AND HYDROCARBON ODOR DISTRIBUTION
RUNNELS INDUSTRIES, INC.
3690 ENTERPRISE AVENUE
HAYWARD, CALIFORNIA

FIGURE 3





TH-6/6 Ft. = 53 TH-6  $\odot$ 



EXISTING CONCRETE SURFAC

B8/3 Ft. = 580 B8/6 ft. = 460 B8/9 Ft. = 280 B8/GW = 220

B-8

TH-4/GW TH A/SW TH 3/6.5 FI. TH 3
FI. \( \tag{0.050} \) \( \tag{0.40} \)
\( \tag{71.0} \)
\( \tag{14-5} \)

TH-7

TH-8 ●

TH-8/5.8 Ft. = 170

TH-9 ●

TH-9/6.3 Ft. = <1.0

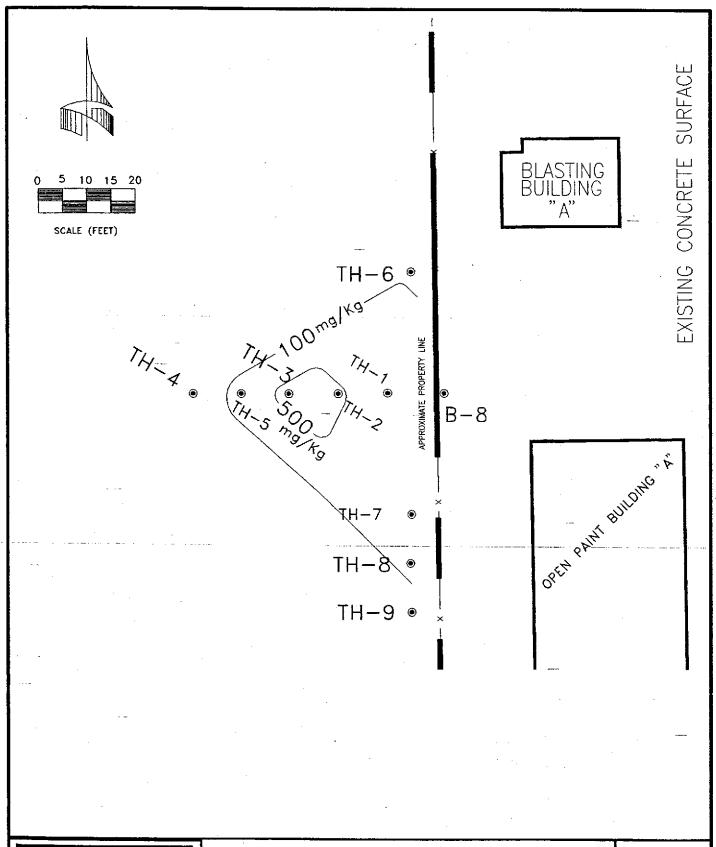
OPEN PAINT BUILDING "

H2OGEOL

**TPH-DIESEL DOWNGRADIENT OF B-8** 

RUNNELS INDUSTRIES, INC. 3590 ENTERPRISE AVENUE HAYWARD, CALIFORNIA FIGURE

4



H20GEOL

TPH-DIESEL DOWNGRADIENT OF B-8
APPROXIMATE CONCENTRATION DISTRIBUTION
RUNNELS INDUSTRIES, INC.
3590 ENTERPRISE AVENUE
HAYWARD, CALIFORNIA

FIGURE

5

# CHROMALAB, INC.

Environmental Services (SDB)

July 31, 1998

Submission #: 9807216

**H2OGEOL** 

Atten: Gary Lowe

Project: RUNNELS INDUSTRIES Received: July 17, 1998

re: 6 samples for TPH - Diesel analysis.

Method: EPA 8015M

					İ
	Matrix:	WATER	Evtranted.	Tu 144 20	1000
Sampled: July 16, 1998	Run#:	13809	Extracted:	July 20	, 1998
		13003	Analyzed:	agra 51	, 1998
		REPORTING	BLANK	BLANK D	ILUTION
	DIESEL	LIMIT	RESULT		
Spl# CLIENT SPL ID	(ug/L)	(ug/L)	(uq/L)	(%)	
195671 TH-4/GW	N.D.	50	N.D.	99.2	: 1
a.					~
	<i>Matrix:</i>	SOIL	Extracted:	July 21	. 1998
Sampled: July 16, 1998	Run#:	13819	Analyzed:	July 21	. 1998
•		REPORTING			i
	DIESEL				
Spl# CLIENT SPL ID	(mg/Kg)	LIMIT	RESULT		FACTOR
195668 TH-6/6'	53		(mg/Kg)		
Note: Nudrocarbon want	ون دمانه فسموس	1.0	N.D.	100	1
Note: Hydrocarbon repo Diesel Standard,	Surrocate h	e late Diesel	Range and doe	es not mat	ch our
195669 TH-9/6.3'	N.D.	1.0			1
195670 TH-8/5.8'	170	1.0	N.D.	100	1 ,
Note: Surrogate high o	ue to matrix	interference	N.D.	100	I
					İ
	Matrix:	SOTT.	Extended.	71 D.	1
Sampled: July 16, 1998		13819	Extracted:	outh 51	1998
1	icuity.	13013	Analyzed:	July 24,	1998
		REPORTING	BLANK	BLANK DI	T.T.TTT CAR
- "	DIESEL	LIMIT	RESULT		ACTOR
Spl# CLIENT SPL ID	(mg/Kg)			_(%)	ACTOR
195666 TH-3/6.5	640	1.0	ST IS	100	10
Note: Surrogate high d	ue to matrix	interference.		200	+0
195667 TH-4/5.81	N.D.	1.0	N.D.	100	1
•		•			1*
					i

Bruce Havlik Analyst

510-373-9222 se emai

1220 Quarry Lane • Pleasanton, California 94566-4756 (925) 484-1919 • Facsimile (925) 484-1096 Federal ID #68-0140157

#### CHROMALAB, INC.

Environmental Services (SDB)

July 31, 1998

Submission #: 9807216

H2OGEOL

Atten: Gary Lowe

Project: RUNNELS INDUSTRIES Received: July 17, 1998

re: Blank spike and duplicate report for TPH - Diesel analysis.

Method: EPA 8015M

Matrix: WATER Lab Run#: 13809 ---

Analyzed: July 20, 1998

Spike Spike Amount Amount Found Spike Recov BSP Dup BSP Dup BSP Dup Control % Analyte {ua/L (ug/L) Limits RPD Lim DIESEL 2500 2500 2480 2560 99.2 102 60-130 2.78 25

8SD Smpl #: 195950

## CHROMALAB, INC.

Environmental Services (SOB)

July 31, 1998

Submission #: 9807216

**H2OGEOL** 

Atten: Gary Lowe

Project: RUNNELS INDUSTRIES

Received: July 17, 1998

re: Blank spike and duplicate report for TPH - Diesel analysis.

Method: EPA 8015M

Matrix: SOIL

Lab Run#: 13819

Analyzed: July 21, 1998

Analyte	Spike Amount BSP Dup (mg/Kg)	Amount Found BSP Dup (mg/Kg)	BSP Dup	Control % RPD Limits RPD Lim
DIESEL	83.3 83.3	83.7 85.7		

### CHROMALAB, INC.

Environmental Services (SDB)

July 31, 1998

Submission #: 9807216

H2OGEOL

Atten: Gary Lowe

Project: RUNNELS INDUSTRIES Received: Unly 17, 1998

re: Surrogate report for 1 sample for TPH - Diesel analysis.

Method: EPA 8015M Lab Run#: 13809 Matrix: WATER

Sample#	Client Sample ID	Surrogate	% Recovery Recovered Limits
195671-1	TH-4/GW	O-TERPHENYL	106 60-130
Sample#	QC Sample Type	Surrogate	Recovery Recovery
195948-1 195949-1 195950-1	Reagent blank (MDB) Spiked blank (BSP) Spiked blank duplicate	O-TERPHENYL O-TERPHENYL (BSD)O-TERPHENYL	86.8 60-130 116 60-130 120 60-130

5008 CC\$URR1228 CMH 31-Jul-98 09:54:

# CHROMALAB, INC.

Environmental Services (SDS)

July 31, 1998

Submission #: 9807216

**H2OGEOL** 

Atten: Gary Lowe

Project: RUNNELS INDUSTRIES Received: July 17, 1998

re: Surrogate report for 5 samples for TPH - Diesel analysis.

Method: EPA 8015M Lab Run#: 13819 Matrix: SOIL

Charles and the	The second secon		% 'F	decovery
Sample#	Client Sample ID	Surrogate	Recovered	
1 <i>95666</i> -1	TH-3/6.5	O-TERPHENYL	170	60-130
195667-1	TH-4/5.8'	O-TERPHENYL		
195668-1	TH-6/6'		91.0	60-130
195669-1	TH-9/6.3'	O-TERPHENYL	162	60-130
		O-TERPHENYL	93.6	60-130
195670-1	TH-8/5.8'	O-TERPHENYL	180	60-130
			% R	decovery
Sample#	OC Sample Type	Surrogate		Recovery
Sample# 196057-1	OC Sample Type Reagent blank (MDB)		Recovered	Limits
	Reagent blank (MDB)	O-TERPHENYL	Recovered 96.4	Limits 60-130
196057-1 196058-1	Reagent blank (MDB) Spiked blank (BSP)	O-TERPHENYL O-TERPHENYL	Recovered 96.4 105	Limits 60-130 60-130
196057-1 196058-1 196059-1	Reagent blank (MDB) Spiked blank (BSP) Spiked blank duplicate	O-Terphenyl O-Terphenyl (BSD)O-Terphenyl	Recovered 96.4	Limits 60-130
196057-1 196058-1	Reagent blank (MDB) Spiked blank (BSP)	O-TERPHENYL O-TERPHENYL (BSD)O-TERPHENYL O-TERPHENYL	Recovered 96.4 105	Limits 60-130 60-130

OCSURRI 229 CAN 31 Jul 98 0816

9307216/19-646-71

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TOTAL No. a CONTAINERS CHING COLUMNO CUSTOON SEALS RESTO 9000 CONTONNOOLD. CONFORMS TO RECORD  LAB NO.  FAX REBULTE TO IS 10: 97-9222  SAMPLE TO. DATE STIME MATTEX LAB ID.  TH - 3/6.5 04/14/6 11: 55 5 0.  TH - 4/5.6 04/14/6 11: 55 5 0.  TH - 4/5.6 04/14/6 11: 55 5 0.  TH - 4/5.6 04/14/6 11: 55 5 0.  TH - 4/5.6 04/14/6 11: 55 5 0.  TH - 4/5.6 04/14/6 11: 60 50.1  TH - 4/5.6 04/14/6 11: 60.1  TH - 4/5.6			144		_1	· · · · · ·	1	ALC: LE	- 51		
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FAX REBULTS TO 15101 373-0222  SAMPLE 1D. DATE TIME MATRIX LAB D.  TH 3/6.5 OF 1/46 11: 55 S.C.  TH -4/5.8 OF 1/48 10: 46 Sol?  TH -4/5.8 OF 1/48 10: 46 Sol?  TH -4/6.1 STIL/98 11: 10. 122  TH -6/6.1 STIL/98 17: 10. 122  TH-8/5.8 OF 1/49 07: 24 Sol.  SUBST 11: 980/216 REF: GC  CLIENT: HCOGGOL  DUE: 97/31/98  REF 11: 49098  STANDARD  1. O-DAY  TURNAROUND  RELINQUISHED BY:  SIGNATURE  FRINTED NAME  GRY D. Lowe  FRINTED NAME  OMPANY  RECEIVED BY:  SIGNATURE  TIME  PRINTED NAME  OMPANY  RECEIVED BY:  SIGNATURE  TIME  OMPANY  RECEIVED BY:  SIGNATURE  TIME  TIME  PRINTED NAME  OMPANY  RECEIVED BY:  SIGNATURE  TIME  OMPANY  RECEIVED BY:  SIGNATURE  TIME  OMPANY  RECEIVED BY:  SIGNATURE  TIME  OMPANY  RECEIVED BY:  SIGNATURE  OMPANY  RECEIVED BY:  SIGNATURE  OMPANY  OMPANY  OMPANY  RECEIVED BY:  SIGNATURE  OMPANY  OMPANY  RECEIVED BY:  SIGNATURE  OMPANY	1 1					ĺ	1				2
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