

SITE ASSESSMENT WORK PLAN
TRUCK ACCIDENT AT FALLON ROAD
Fallon Road and Croak Road, Pleasanton, California

May 21, 1999

Prepared for:

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Pleasanton, CA 94566

Prepared by:

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Figure 1 – Site Map with Proposed Sampling Locations

Attachment

California Highway Patrol Traffic Collision Report Number 12-178

1. INTRODUCTION

This Site Assessment Work Plan (Work Plan) is submitted by MECA on behalf of Mr. Martin Inderbitzen to the Alameda County Environmental Health (ACEH) for the truck accident at Fallon Road Pleasanton, California (Site) (Figure 1). On December 28, 1998, a truck traveled off of Fallon Road and into a field. Subsequent to the accident, petroleum hydrocarbon odors were reported in the area disturbed by the truck. The truck reportedly consisted of a tractor pulling an end-dump loaded with fill material. The related California Highway Patrol Traffic Collision Report number 12-178 is attached to this Work Plan.

The purpose of this scope of work is to delineate the extent of petroleum hydrocarbons in soil at the Site. Implementation of this scope of work is expected to yield sufficient information to design and implement appropriate remediation activities to achieve closure for the Site.

2. SITE DESCRIPTION AND PREVIOUS INVESTIGATIONS

2.1 SITE DESCRIPTION

The Site is located northwest of the intersection of Fallon Road and Croak Road near Pleasanton, California. The Site is situated in the southeast corner of a large field used primarily for grazing cattle. The field is bounded on the south by the westbound onramp to Highway 580 and on the east by Fallon Road (Figure 1). South of Highway 580, Fallon Road becomes El Charro, which is the name of the exit off of Highway 580.

Except for a drainage ditch and chain link fence, the Site appears to be undeveloped. The drainage ditch passes through a culvert beneath Fallon Road and flows west, parallel to Highway 580. Water in the drainage ditch was approximately two feet wide and about four inches deep when observed on January 15 and 26 and February 4, 1999.

The topography of the Site is generally flat with a very gentle upslope toward the hills to the north. The native geologic materials in the upper 12 to 18 inches observed in the disturbed area consist of dark grayish brown fine sandy silt to silty clay with loam and a relatively high organic materials content.

2.2 PREVIOUS INVESTIGATIONS

Site reconnaissance was performed on January 15, 1999. The reconnaissance confirmed that petroleum-like odors were present in the shallow disturbed soil north of the drainage ditch. North of the drainage ditch, the disturbed area is roughly 40 feet long and about 15 feet wide. Since the truck that disturbed the soil runs on diesel, the odors are assumed to be related to diesel fuel spilled during the truck accident.

Beginning about 10 feet north of the drainage ditch, the petroleum-like odors were detected in shallow soil within and immediately adjacent to both tire tracks through most of the disturbed area. Between the tire tracks the petroleum-like odors were less noticeable. The odors were not sensed in soil south of the drainage ditch or in undisturbed soil adjacent to the disturbed area.

In addition to the area disturbed by the truck, a small pile of soil to the northeast near the fence also revealed petroleum odors. The source of this soil pile is assumed to be related to the truck accident, though the pile does not appear to be within the route traveled by the truck.

3. SCOPE OF WORK

The Scope of Work for the proposed soil has been organized into specific tasks as follows:

Task 1: Health and Safety Plan.

Task 2: Soil Investigation Activities – soil sampling will be performed to investigate the vertical extent of petroleum hydrocarbons in the area disturbed by the truck.

Task 3: Preparation of Site Assessment Report – a report will be developed presenting the methods and findings resulting from the implementation of this Work Plan.

The proposed soil boring sampling locations are illustrated in Figure 1. A detailed description of each task follows.

3.1 TASK 1: HEALTH AND SAFETY PLAN

As required by the Occupational Health and Safety Administration (OSHA) 29 CFR 1910.120, Hazardous Waste Operations and Emergency Responses, a site Health and Safety Plan (HSP) will be prepared for use while conducting proposed field sampling activities. The HSP will be read by all field personnel.

3.2 TASK 2: SOIL INVESTIGATION ACTIVITIES

Soil samples will be collected at the locations shown in Figure 1 to describe the lateral and vertical extent of petroleum hydrocarbons in soil within the disturbed area.

The proposed borings will be advanced below ground surface using hand auguring equipment. A 12-inch to 18-inch long, 2-inch diameter split-spoon soil sampling device will be driven into the ground to collect the soil samples. The split-spoon will be lined with 6-inch long 2-inch diameter brass or stainless steel tubes. The samples selected for chemical analysis will be sealed by securing plastic caps over the ends of the sample tube and then placed in a chilled cooler for transport to the analytical laboratory. After collecting the samples, the borehole will be filled with soil collected from outside of the disturbed area. All down-hole drilling and sampling equipment will be cleaned prior to use at each drilling location to prevent potential cross-contamination between each location. A photo-ionization detector (PID) will be used to screen the soil and borehole for the presence of volatile petroleum hydrocarbons. All work will be performed under the direction of a California Registered Geologist.

Within the disturbed area and the soil pile, soil samples will be collected for analysis from ground surface to a depth of 18 inches at six locations. Soil samples collected from the depths of 6 and 18 inches will be submitted for analysis of petroleum hydrocarbons as diesel (TPHd) using EPA Method 8015. Soil samples will be collected and archived from depths of 24 inches and 36 inches in two borings selected based on field observations. The decision to analyze these deeper archived soil samples will be based on the results of the overlying samples. If the overlying samples yield a concentration of 100 mg/kg or more of TPHd, then the deeper soil samples will be analyzed. > composite

The six soil samples collected from the depth of 12 inches within the disturbed area and soil pile will be composited for analysis of TPHd and the compounds benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020. These results will be used to characterize the soil for possible disposal at a landfill. In addition, this composite sample will be analyzed for total organic carbon to describe the natural attenuation and adsorption capacity of the soil.

Outside of the disturbed area, soil samples will be collected from ground surface to a depth of 18 inches at two locations. The purpose of the southernmost sampling location is to determine if there was a release prior to the truck entering the drainage ditch. The purpose of the westernmost sampling location is to assess if there was a release outside of the disturbed area. The soil sample collected from six inches in these two borings will be analyzed for TPHd using EPA Method 8015. The samples collected from 18 inches in these two borings will be archived and analyzed based on the results in the overlying sample.

Waste Management

Waste soil is not expected to be generated during the sampling effort. Waste water produced from decontamination of the sampling equipment will be stored on-site in a 55-gallon drum. A sample of the waste water will be collected and analyzed for TPHg by EPA Method 8015 and for

BTEX by EPA Method 8020. Results of soil and -water sample analyses will be evaluated and appropriate disposal facilities will be contacted to arrange for transport and disposal of the waste materials.

3.3 TASK 3: PREPARATION OF INVESTIGATION REPORT

Geologic and chemical data collected from the soil investigation activities will be evaluated, summarized, and reported in accordance with the Tri-Regional Guidelines. The report will include the following:

- Descriptions of the methodologies used to collect and analyze the data.
- Descriptions of the Site and site geology, including an appropriately scaled base map showing all boring locations and boring logs illustrating soils observed in the field.
- Presentation and interpretation of soil analytical results, including an assessment of the extent of petroleum hydrocarbons in soil.
- Recommendations for the remediation of the affected soil. A brief design will be provided if excavation, transportation, and disposal is the recommended remediation approach.

4. PROJECT MANAGEMENT AND PERSONNEL

Mr. Steven Michelson, R.G. will be the project geologist and project manager. As such, he will be the primary contact for the Client, and will be responsible for the technical and administrative aspects of the project.

5. SCHEDULE

Once approval of this Work Plan has been received from ACEH, it is anticipated that Tasks 1 through 3 will require four to five weeks. The total time to complete the soil investigation Task 2 is about two weeks. This schedule assumes reasonable site access and a normal one-week laboratory turnaround time for sample analysis.

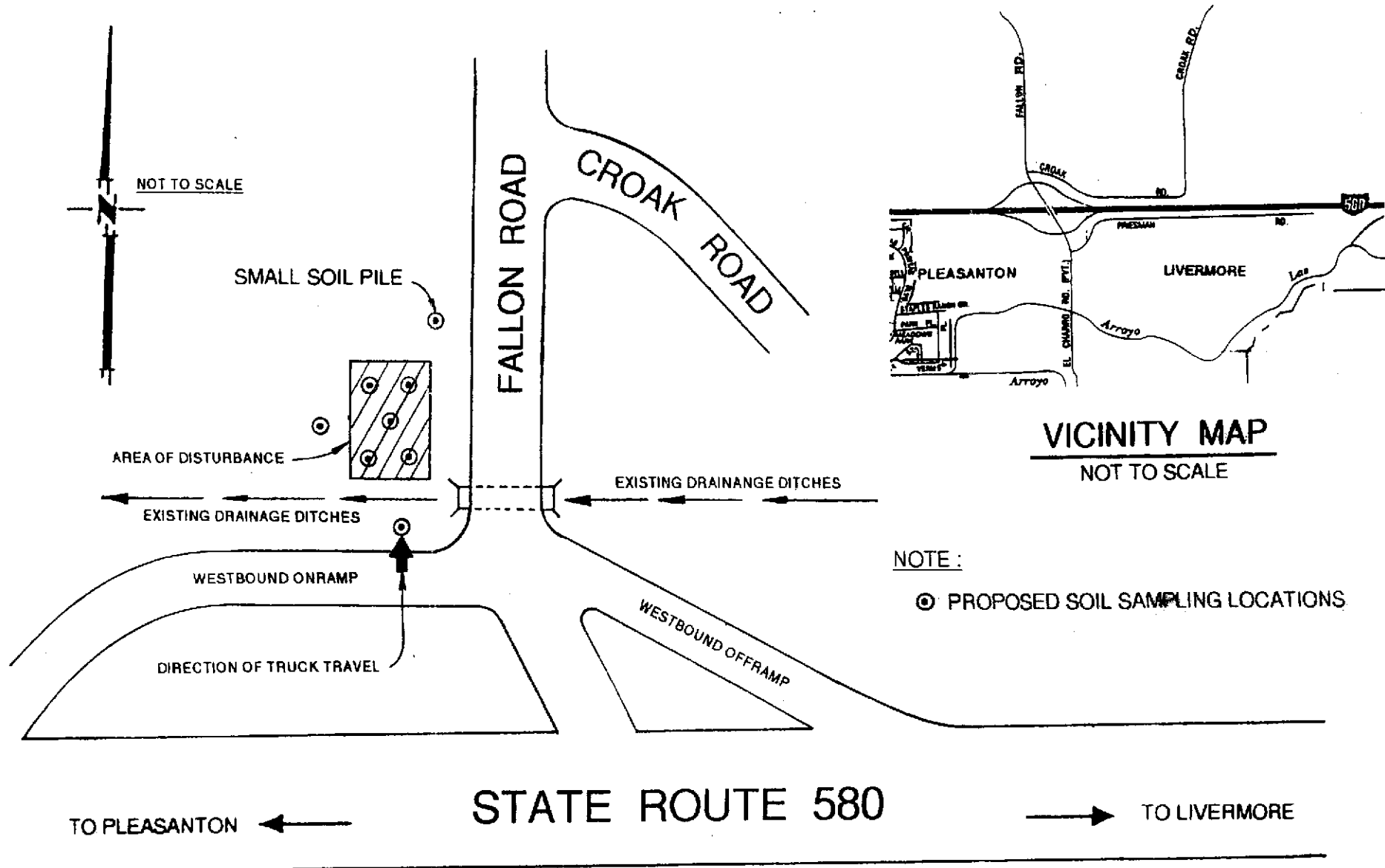


FIGURE 1 : SITE MAP FOR WORK PLAN

INCIDENT AT FALLON ROAD AND CROAK ROAD, LIVERMORE, CALIFORNIA

MECA

California Highway Patrol
Traffic Collision Report
Number 12-178

STATE OF CALIFORNIA

TRAFFIC COLLISION REPORT

PAGE 1 OF 5

SPECIAL CONDITIONS	NO INJ	H&R FEL	CITY	JUDICIAL DISTRICT	NUMBER
	0	[]	DUBLIN	PLEASANTON	12-178
	NO KILL	H&R MISD	COUNTY	DIST	BEAT
	0	[]	ALAMEDA		051

C*Stars: 0701CDUW

LOCATION	COLLISION OCCURRED ON:	MO	DAY	YEAR	TIME(2400)	NCIC #	OFFICER I.D.
	I-580 W/B EL CHARRO RD. ON-RAMP	12	28	98	1100	9390	010012
	MILEPOST INFORMATION:	DAY OF WEEK		TOW AWAY	PHOTOGRAPHS BY:		
		MONDAY		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
	AT INTERSECTION WITH:	STATE HWY REL		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			<input checked="" type="checkbox"/> NONE
	OR: 15 feet W of EL CHARRO RD.						

PARTY 1	DRIVER'S LICENSE NUMBER	STATE	CLASS	SAFETY	VEH YR	MAKE/MODEL/COLOR	LICENSE NUMBER	STATE
					90	PTRBILT DUMP TRK GRAY	3X11064	CA
DRIVER	NAME(FIRST,MIDDLE,LAST)				OWNER'S NAME <input type="checkbox"/> SAME AS DRIVER			
	[]				DANIEL A BERMUDES			
PEDES-TRIAN	STREET ADDRESS				OWNER'S ADDRESS <input type="checkbox"/> SAME AS DRIVER			
	[]				2241 40 TH. AVE., SANTA CRUZ, CA 95062			
PARKED VEHICLE	CITY/STATE/ZIP				DISPO OF VEHICLE ON ORDERS OF: <input checked="" type="checkbox"/> OFFICER <input type="checkbox"/> DRIVER <input type="checkbox"/> OTHER			
	[]				NORM'S TOW (800) 328-2869			
BICY-CLIST	SEX	HAIR	EYES	HEIGHT	WEIGHT	BIRTHDATE	RACE	
	[]	[]	[]	[]	[]	[]	[]	[]
OTHER	HOME PHONE		BUSINESS PHONE		VEHICLE IDENTIFICATION NUMBER:			
	[]		[] NONE		CHP USE ONLY VEHICLE TYPE			
	[]		[] NONE		DESCRIBE VEHICLE DAMAGE SHADE IN DAMAGED AREA			
	[]		[] NONE		[] UNK [] NONE <input checked="" type="checkbox"/> MINOR			
	[]		[] NONE		26 31 [] MOD. [] MAJOR [] ROLL-OVER			
	[]		[] NONE		CA 142450 DOT			
	[]		[] NONE		CAL-T TCP/PSC MCMX			
	[]		[] NONE		DIR TRV ON STREET OR HIGHWAY			
	[]		[] NONE		W 580 EL CHARRO ON			
	[]		[] NONE		SPEED LIMIT			
	[]		[] NONE		55			

PARTY 2	DRIVER'S LICENSE NUMBER	STATE	CLASS	SAFETY	VEH YR	MAKE/MODEL/COLOR	LICENSE NUMBER	STATE
DRIVER	NAME(FIRST,MIDDLE,LAST)				OWNER'S NAME <input type="checkbox"/> SAME AS DRIVER			
	[]				[]			
PEDES-TRIAN	STREET ADDRESS				OWNER'S ADDRESS <input type="checkbox"/> SAME AS DRIVER			
	[]				[]			
PARKED VEHICLE	CITY/STATE/ZIP				DISPO OF VEHICLE ON ORDERS OF: <input type="checkbox"/> OFFICER <input type="checkbox"/> DRIVER <input type="checkbox"/> OTHER			
	[]				[]			
BICY-CLIST	SEX	HAIR	EYES	HEIGHT	WEIGHT	BIRTHDATE	RACE	
	[]	[]	[]	[]	[]	[]	[]	[]
OTHER	HOME PHONE		BUSINESS PHONE		VEHICLE IDENTIFICATION NUMBER:			
	[]		[]		CHP USE ONLY VEHICLE TYPE			
	[]		[]		DESCRIBE VEHICLE DAMAGE SHADE IN DAMAGED AREA			
	[]		[]		[] UNK [] NONE [] MINOR			
	[]		[]		[] MOD. [] MAJOR [] ROLL-OVER			
	[]		[]		CA DOT			
	[]		[]		CAL-T TCP/PSC MCMX			
	[]		[]		DIR TRV ON STREET OR HIGHWAY			
	[]		[]		SPEED LIMIT			
	[]		[]					

PARTY 3	DRIVER'S LICENSE NUMBER	STATE	CLASS	SAFETY	VEH YR	MAKE/MODEL/COLOR	LICENSE NUMBER	STATE
DRIVER	NAME(FIRST,MIDDLE,LAST)				OWNER'S NAME <input type="checkbox"/> SAME AS DRIVER			
	[]				[]			
PEDES-TRIAN	STREET ADDRESS				OWNER'S ADDRESS <input type="checkbox"/> SAME AS DRIVER			
	[]				[]			
PARKED VEHICLE	CITY/STATE/ZIP				DISPO OF VEHICLE ON ORDERS OF: <input type="checkbox"/> OFFICER <input type="checkbox"/> DRIVER <input type="checkbox"/> OTHER			
	[]				[]			
BICY-CLIST	SEX	HAIR	EYES	HEIGHT	WEIGHT	BIRTHDATE	RACE	
	[]	[]	[]	[]	[]	[]	[]	[]
OTHER	HOME PHONE		BUSINESS PHONE		VEHICLE IDENTIFICATION NUMBER:			
	[]		[]		CHP USE ONLY VEHICLE TYPE			
	[]		[]		DESCRIBE VEHICLE DAMAGE SHADE IN DAMAGED AREA			
	[]		[]		[] UNK [] NONE [] MINOR			
	[]		[]		[] MOD. [] MAJOR [] ROLL-OVER			
	[]		[]		CA DOT			
	[]		[]		CAL-T TCP/PSC MCMX			
	[]		[]		DIR TRV ON STREET OR HIGHWAY			
	[]		[]		SPEED LIMIT			
	[]		[]					

PREPARER'S NAME	DISPATCH NOTIFIED	REVIEWER'S NAME	DATE REVIEWED
ROGERS, M	010012 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<i>[Signature]</i>	1-22-99

STATE OF CALIFORNIA

INJURED/WITNESSES/PASSENGERS

DATE OF COLLISION 12 - 28 - 98				TIME(2400) 1100	NCIC NUMBER 9390	OFFICER I.D. 010012	NUMBER 0704CDUW 12-178			
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WITNESS ONLY	PASSENGER ONLY	AGE	SEX	EXTENT OF INJURY ('X' ONE)				INJURED WAS ('X' ONE)					PARTY NUMBER	SEAT POS.	SAFETY EQUIP.	EJECTED	
				FATAL INJURY	SEVERE INJURY	OTHER VISIBLE INJURY	COMPLAINT OF PAIN	DRIVER	PASS.	PED.	BIKE	OTHER					
1		38	M														

NAME/O.B./ADDRESS: DANIEL A. BERMUDEZ 06-16-60
H-2241 40 TH. AVE., SANTA CRUZ, CA, 95062

TELEPHONE: (831) 465-5072

INJURED ONLY) TRANSPORTED BY: _____ TAKEN TO: _____

DESCRIBE INJURIES: _____

VICTIM OF VIOLENT CRIME NOTIFIED

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NAME/O.B./ADDRESS: _____ TELEPHONE: _____

INJURED ONLY) TRANSPORTED BY: _____ TAKEN TO: _____

DESCRIBE INJURIES: _____

VICTIM OF VIOLENT CRIME NOTIFIED

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NAME/O.B./ADDRESS: _____ TELEPHONE: _____

INJURED ONLY) TRANSPORTED BY: _____ TAKEN TO: _____

DESCRIBE INJURIES: _____

VICTIM OF VIOLENT CRIME NOTIFIED

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NAME/O.B./ADDRESS: _____ TELEPHONE: _____

INJURED ONLY) TRANSPORTED BY: _____ TAKEN TO: _____

DESCRIBE INJURIES: _____

VICTIM OF VIOLENT CRIME NOTIFIED

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NAME/O.B./ADDRESS: _____ TELEPHONE: _____

INJURED ONLY) TRANSPORTED BY: _____ TAKEN TO: _____

DESCRIBE INJURIES: _____

VICTIM OF VIOLENT CRIME NOTIFIED

PREPARER'S NAME ROGERS, M	I.D. NUMBER 010012	MO. DAY YR. 12-29-98	REVIEWER'S NAME	MO. DAY YR.
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STATE OF CALIFORNIA

NARRATIVE/SUPPLEMENTAL

PAGE 4

DATE OF INCIDENT
12/28/98

TIME
1100

NCIC NUMBER
9390

OFFICER I.D.
010012

NUMBER
07Q4CDUW 12-178

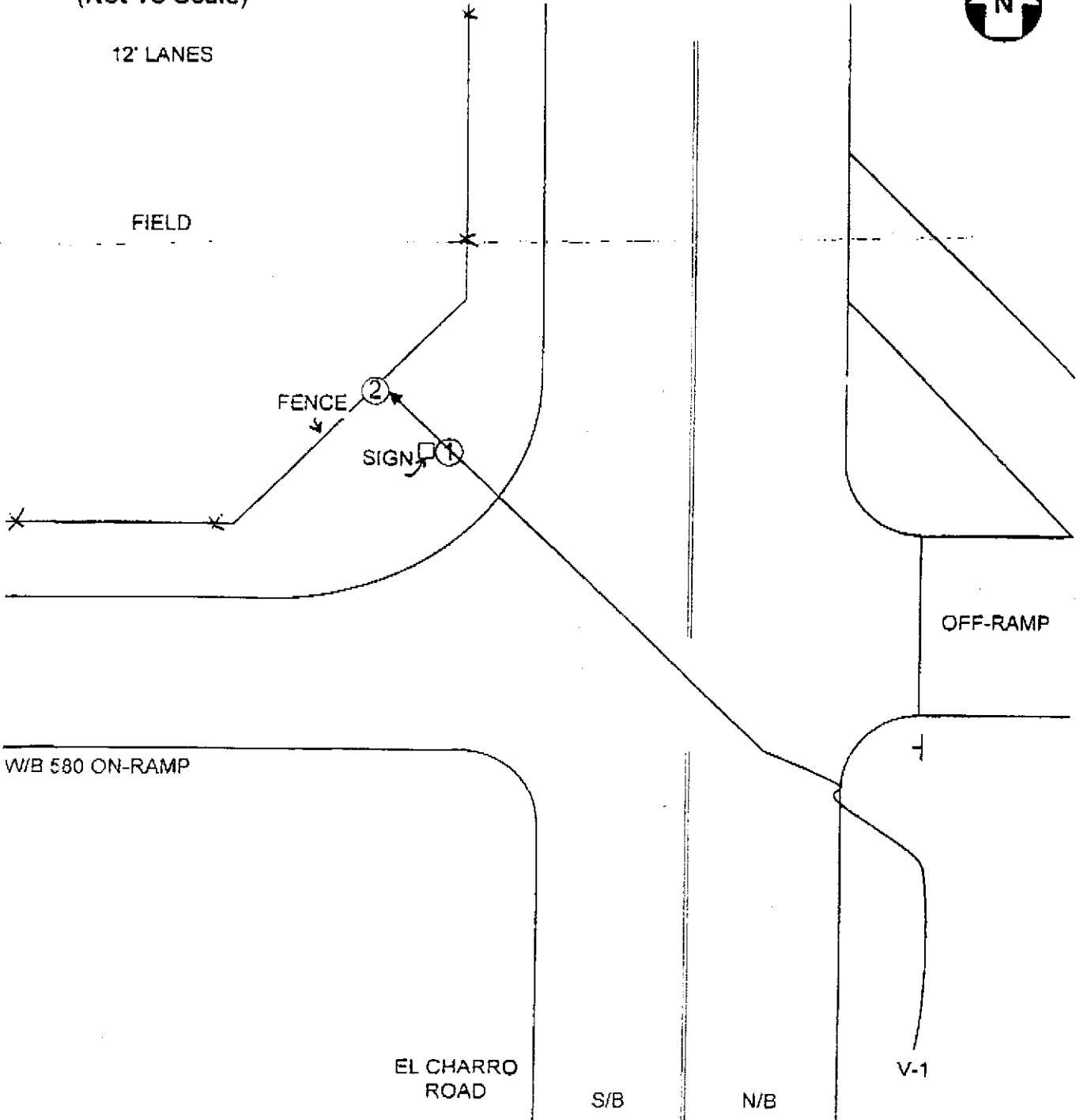
**SKETCH
(Not To Scale)**

FALLON ROAD



12' LANES

FIELD



OFF-RAMP

WB 580 ON-RAMP

EL CHARRO ROAD

S/B

N/B

V-1

PREPARER'S NAME
DATE

I.D. NUMBER

DATE

REVIEWER'S NAME

M ROGERS

010012

12/28/98

STATE OF CALIFORNIA

NARRATIVE/SUPPLEMENTAL

PAGE 5

DATE OF INCIDENT	TIME	NCIC NUMBER	OFFICER I.D.	NUMBER
12/28/98	1100	9390	010012	07Q4CDUW 12-178

NOTIFICATION :

I ENCOUNTERED A NON-INJURY ACCIDENT AT 1330 HOURS. ALL TIMES, SPEEDS AND MEASUREMENTS ARE APPROXIMATE.

STATEMENTS (IN ESSENCE) :

WITNESS BERMUDES RELATED HE HAD PARKED HIS DUMP TRUCK AND TRAILER (FULLY LOADED WITH GRAVEL - 80,000 LB.S) ON THE NORTH/EAST SHOULDER OF THE EL CHARRO ROAD OVER CROSSING, TO CHECK HIS TIRES. HE WAS STANDING NEXT TO V-1 WHEN HE HEARD AN AIR LEAK IN ONE OF THE LEAD HAND CONNECTIONS. HE TWISTED THE CONNECTION LOOSE AND WAS TIGHTENING IT AGAIN WHEN V-1 BEGAN TO ROLL DOWN THE OVER CROSSING. BERMUDES JUMPED ONTO THE LEFT SIDE OF THE TRUCK AND GRABBED THE HANDLE AT THE DOOR IN AN ATTEMPT TO GET INTO V-1 AND STOP IT. BERMUDES LOST HIS GRIP AND FELL ONTO THE ROADWAY. V-1 DRIFTED TO THE LEFT ACROSS EL CHARRO AND RAN OFF THE N/SIDE OF THE ROAD ON THE W/B 580 ON-RAMP. V-1 PUSHED OVER A FREEWAY ENTRANCE SIGN AND THEN DROPPED DOWN THE EMBANKMENT. V-1 WENT THROUGH THE FREEWAY PERIMETER FENCE AND CAME TO REST FACING N/W IN THE FIELD.

SUMMARY :

BASED ON BERMUDES STATEMENT AND V-1'S POINT OF REST, THE ACCIDENT OCCURRED AS STATED BY BERMUDES.

AREA OF IMPACT :

EST. BY DAMAGE TO THE SIGN - 18 FEET W/OF EL CHARRO ROAD, AND 10 FEET N/OF THE N/EDGE OF THE W/B I-580 ON-RAMP.

CAUSE :

THE ACCIDENT WAS CAUSED BY VIOLATION OF 26451(A)V.C. - PARKING BRAKES FOR MOTOR VEHICLES AND VEHICLES IN COMBINATION SHALL BE ADEQUATE TO HOLD THE VEHICLE AND IT'S LOAD ON A GRADE.

PREPARER'S NAME	I.D. NUMBER	DATE	REVIEWER'S NAME
M ROGERS	010012	12/28/98	