



WZI INC.

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FAX LEAD SHEET

To: Pat Dunn

Company: Mobil

From: Juanita Brogdon

Subject: _____

Message: _____

Total Number of Pages, Include Cover Page: 18

Date Transmitted: 2/28/92

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Oper.: Date Sent: 2/28 Time Sent: _____ Initials: JD Return Original: Y N Copy Sender: Y N

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WZI INC.

FAX LEAD SHEET

To: FAT DUNN
Company: WZI
From: S. MUIR
Subject: Site Safety Plan - Schropp Ranch
Message: Please Review & Have typed up. Thank

Total Number of Pages, including Cover Page: 17

Date Transmitted: 2/28/92

Fax Number: _____

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Oper.: Date Sent: _____ Time Sent: _____ Initials: _____ Return Original: Y N Copy Sender: Y N

WZI Inc.

Site Health and Safety Plan

General Information

Client: AGRICULTURE INDUSTRIES, INC.
 Project Number: 0137.0010A / SCHROPP RANCH
 Project Manager: S. Muir
 Health and Safety Officer: Pat DUNN
 Site Safety Officer: S. Muir
 Health and Safety Plan Prepared By: Muir / DUNN
 Issue Date: 2/26/92
 Effective Period: 120 DAYS

Scope and Application

The provisions of this Health and Safety Plan (HSP) are based upon an evaluation of known and/or suspected site contamination only, and are designed to minimize health and safety hazards of site activities as described in the Scope of Work. If during the course of site work new chemical contamination is discovered, or additional site activities not described in the Scope of Work become necessary, all work shall stop pending an evaluation of the new information and appropriate modification of this Plan. The Health and Safety Officer shall direct this evaluation.

V. Site Description and Characteristics

Site Description:

2000 MOUNTAIN HOUSE ROAD, ALAMEDA COUNTY,
CALIFORNIA, RANCH SHOP AREA IN RURAL AREA
SITE IS FLAT. A SCHOOL IS PRESENT
400 FEET EAST OF PROPOSED EXCAVATION
SITE

Topographic Map Attached: yes no Attached to Workplan

Location Map Attached: yes no Attached to Workplan

Work Plan

Objectives:

EXPLORATORY TRENCHING TO DETERMINE
IF GASOLINE CONTAMINATED SOIL IS PRESENT.
MINOR AMOUNTS OF CONTAMINATED SOIL
WILL BE EXCAVATED AND STOCKPILED IF
FOUND.

Tasks:

PREPARATION OF PHASE I INVESTIGATION
PREPARATION OF WORK AND HEALTH & SAFETY PLAN
EXPLORATORY TRENCHING

VI. Hazard Evaluation

Known and/or suspected chemical contaminants on the site:

Name	CAS #	PEL	IDLH	Health Effects
------	-------	-----	------	----------------

GASOLINE

Chemical Hazards:

Toxic ignitable _____ Corrosive _____ Reactive _____

Medical or Biological Waste _____

Forms of Chemical Hazards:

Solid Dust _____ Fiber _____ Fume _____

Liquid _____ Vapor Gas _____

Special Characteristics: i.e. shock sensitive or explosives _____ Yes No

Explain:

POSSIBLE GASOLINE CONTAMINATED SOIL

PHYSICAL AGENTS

Radiation _____ Noise X Heat Stress _____

Describe:

NOISE AROUND HEAVY EQUIPMENT

SAFETY HAZARDS:

HEAVY EQUIPMENT OPERATIONS

Anticipated Hazards by job task:

Task	Chemical Hazards	Physical Agents	Safety Hazards
1. Phase 1 INVESTIGATION	NONE	NONE	NONE
2. WORK PLAN PREPARATION	NONE	NONE	NONE
3. EXPLORATORY TRENCHING	GASOLINE	SOIL AND VIBOR	HEAVY EQUIPMENT
4.			
5.			

VII. Site Standard Operating Procedures

A. Site Control

Initial Site Entry

The WZI Project Manager shall arrange an initial site briefing with the WZI Health and Safety Officer (HSO). Based on the information provided in this initial site briefing and on the nature and magnitude of known or suspected site contaminants and the work plan tasks, the HSO shall determine initial site entry procedures and shall specify them below. It is the responsibility of the Site Safety Officer (SSO) to implement these procedures and direct proper site entry.

Personal Protective Equipment (PPE) ensemble for personnel to wear during initial site entry:

Level D with RESPIRATOR AVAILABLE

If Level C PPE is required for initial site entry, then all personnel MUST carry a 5 minute escape air bottle.

Initial Site Entry Procedures:

ACCORDING TO Level D Procedures
AND AS OUTLINED BELOW.

Prior to entering the site, the SSO shall calibrate the portable direct-reading air monitoring instruments upwind from site in an uncontaminated area.

The SSO shall then determine background readings for all air monitoring instruments in this same upwind, offsite, uncontaminated area.

The SSO shall record the instrument calibration procedures and results and all background readings in the Site Safety Log Book.

All personnel must enter the site from an upwind position if possible.

B. Personal Protective Equipment (PPE)

Personal Protective Equipment required for each job task depends on the chemical and physical hazards expected of that task, as described above. The following PPE ensembles are assigned to project tasks:

Task	Assigned PPE Ensemble
<u>1. PHASE I INVESTIGATION</u>	<u>N/A</u>
<u>2. WORKPLAN PREPARATION</u>	<u>N/A</u>
<u>3. EXPLORATORY TRENCHING</u>	<u>LEVEL D</u>
<u> </u>	<u> </u>

C. Work Zones

At the beginning of each work shift the WZI SSO shall perform initial air monitoring with portable direct-reading instruments to identify the area(s) on site where gas and vapor contamination is present.

Based on these initial air monitoring readings, the SSO shall establish discrete work zones as follows:

Exclusion Zone or "Hot" Zone

The Exclusion Zone or "Hot" zone shall be defined as follows:

1. Wherever portable direct-reading air monitoring instruments register anything above the background readings established upwind offsite in uncontaminated areas.
2. If portable direct-reading air monitoring instruments read background throughout the site, the exclusion zone shall be defined around the area(s) of known or suspected chemical contamination, or where drilling, excavation, soil sampling, or other invasive activity is to be performed.

Decontamination Zone

The SSO shall establish a decontamination corridor adjacent to and upwind from identified exclusion zones. The SSO shall set up both equipment and personnel decontamination areas outlined under "Decontamination Procedures" below.

Support Zone

The SSO shall establish support zones upwind from the decontamination corridor where all portable direct-reading air monitoring instruments read background, at a distance of at least 20 meters from the exclusion zone.

The support zone shall be established such that support personnel may observe all personnel in the exclusion zone at all times.

If personnel must enter trenches or other excavations, a "buddy" shall remain near the excavation to maintain visual contact ("line of sight") with the personnel inside the excavation at all times. The SSO shall develop and teach all site personnel a system of hand signals that will enable the "buddy" to indicate to support zone personnel that an emergency exists inside the excavation.

The SSO shall monitor the area at least every 15 minutes with the portable direct-reading air monitoring instruments to detect any change in gas or vapor contaminant dispersion onsite. In addition, the Action Levels and corresponding Actions as described in the HSP shall be followed.

If the wind changes direction and/or gas, vapor, or dust contamination moves into the established decontamination or support zones in concentrations that exceed permissible Action Levels established by the HSP, then the SSO shall direct site personnel to move the support zone to the new upwind area, confirming the absence of gas or vapor contamination with the portable direct-reading air monitoring instruments.

C. Air Monitoring

Direct-Reading Air Monitoring Instruments

Organic Gases and Vapors:

OVM

- ~~HM Photolionizer~~
- ~~Photovac Microtip~~
- ~~Foxboro Organic Vapor Analyzer~~
- Colorimetric Detector Tubes

~~Inorganic Gases:~~

- ~~Hydrogen Sulfide Detector~~
- ~~Hydrogen Cyanide Detector~~

Combustible Gases, Vapors, and Oxygen Detector:

Combination Combustible Gas / Oxygen Detector, calibrated to the combustible gas or vapor expected

Special Air Monitoring Procedures:

NONE

D. Site Safe Work Practices

1. DAILY SAFETY MEETING

2. ON-SITE HEALTH & Safety Monitoring

E. Decontamination

Personnel

Personnel will wear Tyvek gormets
AND GLOVES, These will be disposed of
on site

Equipment

1. Wash down on site AND RINSE
WITH CLEAN WATER

F. Procedures for Disposal of Wastes and Derived Materials:

1. All waste water AND SOIL WILL
BE PLACED ON CONTAMINATED SOIL PILE
AND COVERED.

G. Site Safety Meetings

Before beginning site work the SSO shall conduct a site safety meeting to discuss the following:

the tasks to be performed;

the safe work practices to be followed to minimize exposure to chemical and physical agents and to minimize accidents

The SSO shall document the date, time, and attendance of all site safety meetings together with a short description of the topics discussed in Appendix A of this Plan.

H. Prohibited Activities and Work Limitations

- No eating, drinking, smoking, or chewing of tobacco
- Enter exclusion zones with a buddy at all times
- No "Hot Work" - Welding, Cutting, Grinding without Permission from Site Safety Officer (Hot Work Permit)
- Daylight hours only

I. Health and Safety Equipment and Materials

Respirators
Coated or Uncoated Tyvek
Chemical Protective Gloves
Duct Tape
Safety Glasses
Hardhat
Steel-Toed Steel Shank Chemical Protective Boots
Decontamination Materials
Drinking Water and Cups
Folding Table and Chairs
Parasol
Clock
Walkie Talkies
First Aid Kit
Blue Ice
ABC Fire Extinguishers
Emergency Alarm Equipment

J. Recordkeeping

Site Safety Log

- Site Conditions
- Work Progress
- Air Monitoring Instrument Readings
- Air Monitoring Instrument Calibration

- Personnel Training Documentation
- Respirator Fit Testing Records

VIII. Medical Surveillance

All site employees must be enrolled in a medical surveillance program if they meet any of the following conditions: (Title 8 CCR 5192 (f))

1. If an employee is or may be exposed at or above the Cal-OSHA Permissible Exposure Limit (PEL) (or to other published exposure limits if a PEL doesn't exist for a specific chemical) for 30 days or more per year, without regard to the use of respirators;
2. If an employee wears a respirator for any part of any day for 30 days or more per year;
3. If an employee becomes injured, ill, or develops signs or symptoms due to possible overexposure involving hazardous substances or health hazards from an emergency response or hazardous waste operation.

IX. Spill Containment Plan

NOT APPLICABLE

X. Emergency Contingency Plan

Attach Map Showing Evacuation Route from Site to Nearest Hospital *ATTACHED*

Emergency Telephone Numbers:

Ambulance 911

Fire 911

Police 911

WZI Office 805-326-1112

Emergency Alarm and Communication Procedures

1. SOUND/VOICE

2. IRADIO

Emergency evacuation and equipment shutdown procedures must be developed, understood, and rehearsed by all site personnel before project work begins.

Emergency Evacuation Procedures:

1. SHUT ALL EQUIPMENT DOWN

2. EVACUATE SITE UPWIND

3. MEET AT SAFETY POINT

4. DETERMINE STATUS OF PERSONNEL

5. ADVISE AUTHORITIES/WZI AS APPROPRIATE

FEB 27 '92 10:34 WZI INC WFLD 805-326-0191

XI. Approvals

Health and Safety Plan Prepared By:

STEPHEN G. MUIR
Name

Signature

Date

Health and Safety Plan Approved By:

WZI Project Manager

Signature

Date

WZI Health and Safety Officer

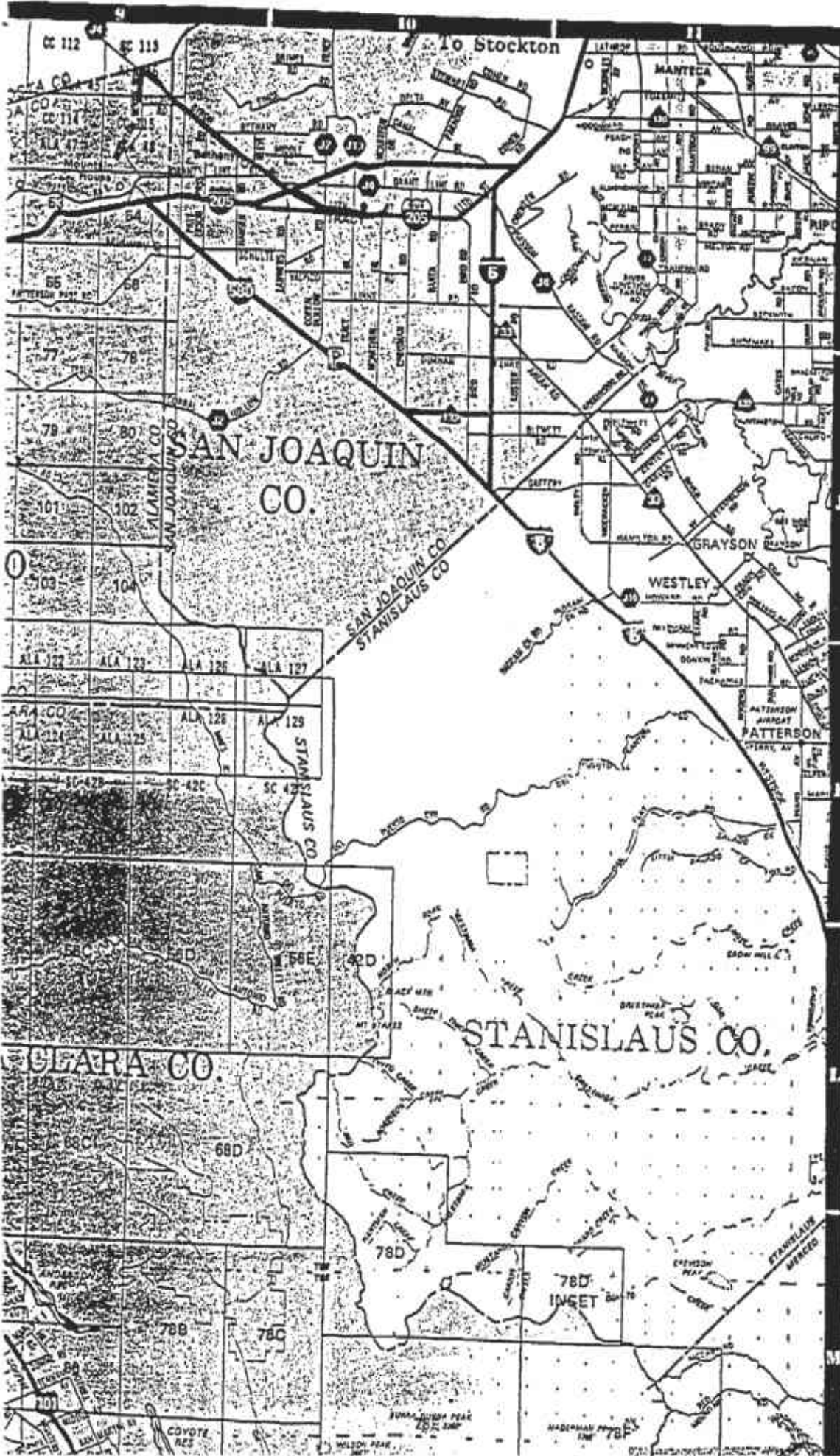
Signature

Date

WZI Site Safety Officer

Signature

Date



Thomson

NORTHERN CALIFORNIA

FO

This map can be used as a reference for Northern California Area and represent detail maps in the area.

For the convenience of map users, a list of abbreviations used for all counties in which the map is shown is given below:

- ALA
- CC
- MAR
- MONT
- * SAC
- SC
- SF
- SM
- SOL
- SON

*Coverage in the Sacramento Valley

CITIES / COMMUNITIES

COMMUNITY	COUNTY	GRID
ACAMPO	SJCO	E11
ADAMS	LAK	A2
AETNA SPRINGS	NAPA	B4
AGUA CALIENTE	SON	D4
*ALAMEDA	ALA	H5
ALAMO	CC	O7
*ALBANY	ALA	G5
ALDER CREEK	SAC	G5
ALDERCROFT HEIGHTS	SEL	E1
ALLENDALE	SOL	D7
ALTMONT	ALA	H8
ALUM ROCK	SCL	L8
ALVARADO	ALA	J8
ALVISO	SCL	K7
ANDERSON SPRINGS	LAR	A2
ANGEL ISLAND	MAR	A2
ANOHNI	NAPA	B5
ANTELOPE	SAC	F8
*ANTIOCH	CC	F8
ARTOS	SCR	M7
ARDCN	SAC	B10
ARDMAS	MON	O8
ASTI	SON	A2
*ATHERTON	SMCO	K8
AVON	CC	F6
DAY FARM ISLAND	ALA	H5
BAYSHORE	SMCO	H5
BELL STATION	SEL	N10
*BELMONT	SMCO	J4
*BELVEDERE	MAR	O4
*BENICIA	SOL	F8
BEN LOMOND	SCR	M8
BERKELEY	ALA	G8
BERKELEY CAMP	SON	C1
BERRYESSA HIGHLANDS	NAPA	C8
BERRYESSA PINES	NAPA	B8
BETHANY	SJCO	F8
BETHEL ISLAND	CC	F8
BIG BEND	SON	F4
BINGHAMTON	SOL	D8
BIRDS LANDING	SCL	F8
BLACK POINT	MAR	F4
BLACKHAWK	CC	H7
BLOOMFIELD	SON	D2
BODDGA	SON	D2
BODDGA BAY	SON	D7
BOLINAS	MAR	G2
BOLSA KNOLLS	MON	F8
BOLDER CREEK	SCA	M8
BOWEN HOT SPRINGS	SON	O4
*BRIATHWOOD	CC	O8
BRIDGE HAVEN	SON	C1
*BRIDGEANE	SMCO	F8
BRIDDERIDGE	YOL	M8
BROOKDALE	SCA	M8
BROOKS	YOL	A8
BRUCEVILLE	SAC	D10
BRYTE	VOL	F6