HAZARD APPRAISAL AND RECOGNITION PLAN PRESITE VISIT FORM

Original Pre- and Post HARPs must be submitted within 5 working days of site visit. Please retain a copy for your file.

SECTION A. FIELD TEAM

Prepared by: Greg Neal
Date: 8/29/2017
Phone: (714) 484-5455

	Name	DTSC Employee #	Unit/Agency	Responsibility (Lead, Field Staff, SSO)
1.	Greg Neal	11300	DTSC	Lead
2.	Xihong(Scarlett)Zhai	14016		
3.	Aslam Shareef	11908		
4.	Greg Shaffer	14319		
5.	MaryamTasnifAbbasi	11683		
6.				

It is incumbent upon the supervisor to verify field eligibility.

SECTION B. SITE DESCRIPTION

Site Name: Former Riverside Agricultural Park
PCA #: 12018 Project #: 401288 WP: 11 MPC:
Address: 7020 Crest Avenue
City: Riverside State: CA Zip: 92503
Site Phone No: ( )
Has DTSC visited site before? ☒ Yes, when: various ☐ No

NOTE: Attach Map of Site and Directions to Hospital

Contact Person: Bob Beers
Type of Operation/Waste Stream (Describe): wastewater treatment

Purpose of Visit (Describe): Collect soil samples for submittal to DTSC contract laboratory

Site Visit Date (s): 08/29/17-11/15/17
Estimated Time on Site: Hours/Day: 8 Days: 40-80
Nearest Hospital: Parkview Community Hospital Medical Center
Address: 3865 Jackson Street
City: Riverside State: Ca Zip: 92503
Phone #: (951) 688-2211

SECTION C. NUMBER OF SAMPLES TO BE COLLECTED

Samples to be collected by: ☐ DTSC ☒ Contractor

Air:	120	Surface Impoundment:	
Drum (s):		Surface Water:	
Groundwater:		Tank (s):	
Soil/Sediment:	1000	Waste/Sludge:	
Sump/Pit:		Indoor Air:	
Soil Vapor:		Other:	

SECTION D. POTENTIAL HAZARDS

1. Chemical Hazards

☐ Carcinogens:
☐ Corrosives:
☐ Developmental Health Hazards (Teratogen):
☐ Explosives:
☒ Dusts:
☐ Flammables:
☐ Inorganic Vapor Gases:
☐ Metals:
☐ Oxidizers:
☒ PCBs:
☐ Pesticides:
☐ Reproductive Health Hazards:
☐ Skin Absorption:
☐ Solvents:

2. Physical Hazards

☐ Confined Space (Source:)
☒ Heat or Cold Stress (Expected (Temp: 100+ °F)
☒ Machinery/Construction:
☒ Noise (Source/Decibels):
☐ Oxygen Deficiency:
☐ Radioactive Materials:
☒ Biohazards:
☐ Other (specify):

(*Use this space to describe hazards*): Two previous soil removal efforts have removed a significant portion of impacted soil. PCBs identified and a third round of cleanup is required. DTSC staff will be onsite full time during the removal process.

SECTION E. BASIC INFORMATION ON POTENTIAL HAZARDS

(Attach copies of HARP Chemical Data Sheets or other appropriate information as suggested in instructions.)

SECTION F. EXPOSURE CONTROL METHODS

☐ Engineering (E) ☐ Administrative (A) ☒ Work Practices (WP)

Describe: Use of nitrile gloves when handling soil samples. Dust suppresion methods will be implemented by contractor. Be aware of heavy machinery/moving vehicles and slips/trips/falls. Stay upwind from potential sources of contamination. Stay well hydrated at all times.

SECTION G. REQUIRED PERSONAL PROTECTIVE EQUIPMENT

Level of Protection: ☐ B ☐ C ☒ D

Gloves (s) Outer = O, Inner = I

☐ Cotton/Vinyl
☐ Silver Shield/4H
☐ Neoprene
☒ Nitrile
☐ Grip/Glove/Kevlar (when needed)
☐ Viton
☐ Other (specify):

Suit:

☐ Kleenguard
☐ Tyvek
☐ Tychem QC
☐ Tychem SL
☐ PVC

Respirator: ☐ A/P Cartridge: ☐ SCBA ☐ Escape
Change-out Schedule:

Other Safety Gear:

☐ Boot Covers ☒ Hearing Protection ☒ Plugs ☐ Muffs
☒ Boots ☒ Eye Protection ☒ Safety Vest
☒ Hard Hats ☐ Cooling Vest ☐ Other:

SECTION H. SURVEY EQUIPMENT

☐ Combustible Gas/Oxygen Meter
☐ Photoionization Detector
☐ Flame Ionization Detector
☐ CMS Clip (specify):
☐ PAC III Sensor:
☐ Other (specify): Maintained by project consultant
☐ Radiation Meter
☐ Aerosol/Particle Monitor
☐ Noise Dosimeter
☐ Heat Stress Monitor

Action Levels: 50 ug/m3

SECTION I. OTHER HYGIENE AND SAFETY EQUIPMENT

Available On Site	Bring	
☐	☐	Canopy/Tarp/Umbrella
☐	☒	Drinking Water
☐	☐	Shower/Eye Wash
☐	☐	Fire Extinguisher
☐	☒	First Aid Kit
☐	☐	Plastic Sheeting/Buckets/Bags

SECTION J. PERSONAL MONITORING

Do You Need Industrial Hygiene Monitoring? ☐ Yes ☒ No

SECTION K. REVIEW/APPROVAL

Industrial Hygienist (Review) — Date: 9/1/17
Supervisor (Approval) — Date: 9/14/17
Supervisor (Approval) — Date: 9/18/17

DTSC 1031 (06/02/2010)
(Formerly DHS 8299 A)

Supervisor — Date 9/18/17
Supervisor Approval — Date 9/18/17

Google

7020 Crest Ave, Riverside, CA 92503 to Parkview Community Hospital Medical Center

Drive 3.4 miles, 10 min

Map data ©2015 Google 2000 ft

7020 Crest Ave

Riverside, CA 92503

1. Head south on Keating Dr toward Manitoba Pl — 443 ft
2. Turn left onto Altadena Dr — 0.1 mi
3. Turn left onto Farrier Ave — 390 ft
4. Turn left onto Rutland Ave — 489 ft
5. Turn right onto Jurupa Ave — 0.4 mi
6. Turn right onto Van Buren Boulevard — 1.3 mi
7. Use the left 2 lanes to turn left onto Jackson St — 1.4 mi
   - Destination will be on the left

Parkview Community Hospital Medical Center

3865 Jackson Street, Riverside, CA 92503

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

DTSC

HAZWOPER 2013

HEAT STRESS FACT SHEET

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

HEAT STRESS

The health hazards created by the cumulative adverse effects of physical activity, personal clothing, and environmental factors which include air temperature, air movement, relative humidity and radiant heat exchange. Heat stress risk is based on **personal risk factors***.

The DTSC Heat Stress Prevention Policy and Procedure is compliant with Cal-OSHA T8 CCR 3395 and Cal-OSHA T8 CCR 3203. DTSC staff receive Heat Stress Prevention training annually via the 8-Hour HAZWOPER refresher. PnP on DTSC Sharepoint: http://dtsc-share/Support/Administration/HSP/Current%20Policy%20and%20Procedures/Forms/AllItems.aspx

DTSC Activities & Heat Stress Risk

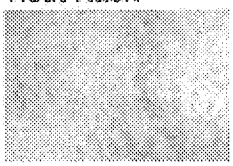
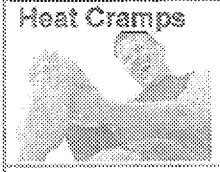
- Site visits with no source of shade
- Sampling/Investigating in impermeable PPE
- Field activities later in the day when ambient temperatures are highest

HEAT STRESS IS PROGRESSIVE

Employees should be encouraged never to discount any discomfort or symptoms they are experiencing when working in heat, after work or before the next workday. Heat illness symptoms can occur even after work has stopped.

DTSC HEAT STRESS CONTROL METHODS

1. **Training** via First Aid/CPR course or 8-hour HAZWOPER.
2. **Hydration.** Try to consume approximately 1 cup of water or Athletic Replenishment Fluid (ARF) every 15-20 minutes.
3. Prepare a **standard work procedure**, which should include emergency and intervention procedures.
4. **Control or reduce heat stress hazards**, such as increasing air movement, shielding from radiant heat sources, limiting or modifying exposure time, reducing physical activity.
5. Ensure staff consume **small light meals** throughout the field work.
6. **Acclimatization and physical conditioning**: medical screening of employees to identify individuals with low heat tolerance and/or physical fitness.
7. **Recognize** the effects of non-occupational factors such as drugs, alcohol and obesity on tolerance to heat stress.

Heat Illness	Symptoms	Treatment
Heat Rash 	Skin remains wet Sweat ducts become plugged Rash develops	Relocate to cool shady area Regularly dry the skin
Heat Cramps 	Cramping of legs and abdominal muscles Heavy sweating and water loss	Relocate to cool shady area Rest the cramping muscle Drink fluids to replace water loss (Cold water is recommended. Avoid drinking alcoholic and caffeinated drinks.)
Heat Exhaustion	Pale, clammy skin Heavy sweating Large pupils Rapid, shallow breathing	Relocate to cool shady area Remove PPE Treat for shock Give fluids if conscious Seek medical attention if disorientation, vomiting, or fainting occur
Heat Stroke	Red, flushed Very hot and <u>dry skin, no perspiration</u> (old sweat may be present) Confusion and delirium May become unconscious Body temperature is 104 °F or higher	Seek medical attention immediately! Relocate to cool shady area Monitor breathing Remove PPE Immediately cool with cold water and fan Treat for shock

Field Procedures

Pre-site Visit:

⇒ Complete HARP form; include anticipated weather conditions.

⇒ Get completed HARP form reviewed by an IH and approved by your supervisor.

⇒ If possibility of heat stress risk exists, check out environmental and physiological monitoring equipment.

⇒ Prepare a standard work procedure.

On the Site:

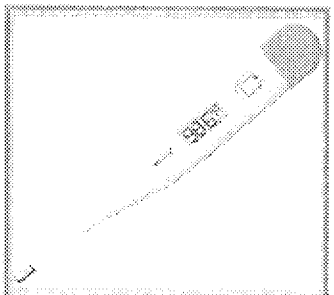
⇒ Follow your standard work procedures to minimize heat exposure.

⇒ Take appropriate action, such as seeking shade, hydrating, and taking short breaks.

⇒ Conduct continuous physiological monitoring (i.e. sweating, heart rate, body temperature, etc.).

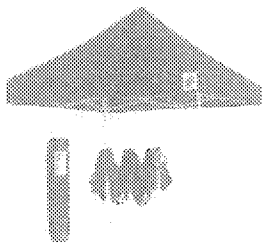
⇒ Conduct monitoring using a Wet Bulb Globe Thermometer (WBGT).

Equipment Available at DTSC



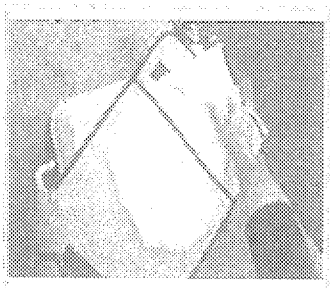
ORAL THERMOMETER

A physiological monitoring device used to measure body temperature.



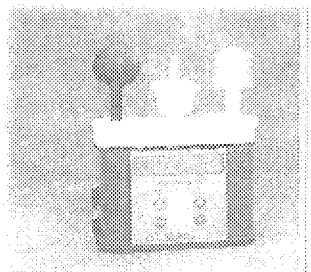
EZ UP SHELTER

These are shelters to provide a shady place for breaks.



COOLING VESTS

Cooling vest utilize specially designed ice packs to keep the torso cool.

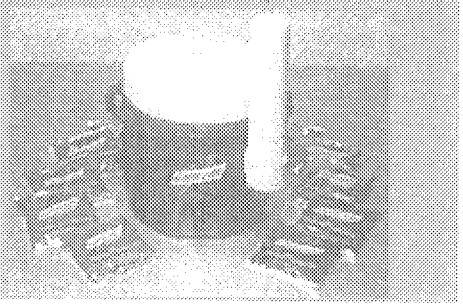


WBGT

The WBGT is a field instrument that measures different types of environmental risk factors for heat stress.

Purchasing Water & Electrolyte Drinks for Field Work:

DTSC policy allows for the purchase of water and electrolyte beverages used for field activities via the T&E process.



KEY TERMS

Acclimatization- temporary adaptation of the body to work in the heat that occurs gradually when a person is exposed to it.

Personal risk factors for heat illness- factors such as an individual's age, degree of acclimatization, health, water consumption, alcohol consumption, caffeine consumption, and use of prescription medications that affect the body's water retention or other physiological responses to heat.

Environmental risk factors for heat illness- working conditions that create the possibility that heat illness could occur, including air temperature, relative humidity, radiant heat from the sun and other sources, conductive heat sources such as the ground, air movement, workload severity and duration, protective clothing and personal protective equipment worn by employees.