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ENVIRONMENTAL PROTECTION



October 12, 2005

Project: 61801

Mr. Scott Smale  
Bureau of Corrective Actions  
901 South Stewart Street, Suite 4001  
Carson City, NV 89701

**Subject: Draft Sampling and Analysis Plan Amendment  
Cornerstone Redevelopment Brownfields Quarterly Sampling  
Phase II Site Investigation  
Henderson, Nevada**

Dear Mr. Smale:

Kleinfelder, Inc. (Kleinfelder) is pleased to submit this draft sampling and analysis plan (SAP) amendment for your review and approval for the continuation of the Cornerstone Redevelopment Brownfields Phase II investigation. The original SAP dated May 27, 2004 was prepared by Ninyo & Moore to cover their efforts at Cornerstone while serving as a Brownfields contractor to NDEP. Kleinfelder was recently asked to take over the ongoing Phase II investigation as a new NDEP Brownfields contractor. The amendments mostly consist of administrative modifications that identify Kleinfelder staff in the project organization and in the revised Health and Safety Plan (HASP).

The specific revisions are detailed below. These revisions are intended to replace the current text and/or tables in the May 27, 2004 SAP.

**1.4 Project Organization**

Title/Responsibility	Name	Phone Number
EPA Project Manager	Tom Mix	
Project Manager	Gary A. Carter, P.E., C.E.M.	(702) 736-2936 x142
Quality Assurance Manager	John Dyer, C.E.M.	(775) 689-7800
Staff	Lisa Warren	(702) 736-2936 x145
Staff	Paul Dockweiler	(702) 736-2936 x138
Analytical Lab Project Mgr.	Linda Eshelman	(480) 785-0043
Data Validation	DataVal, Inc.	(415) 459-3124

## 5.2 Analytical Laboratory

Del Mar Analytical has been selected to perform laboratory analyses for this project. Their laboratory facilities are NELAP-certified and they have agreed to meet the criteria stipulated in the EPA-provided DQIs or have provided their own DQIs which meet analytical requirements for this project.

## 6.2 Field Screening

Second paragraph change:

A Horiba Model U22 will be used to measure the water quality parameters during well purging. The Horiba will be calibrated in accordance with the manufacturer's instructions.

## 7.3 Water Samples

Third paragraph change:

Perchlorate: Low concentration water samples to be analyzed for perchlorate will be collected in 500-mL plastic bottles. The samples will be chilled to 4°C immediately upon collection. One 500-mL bottle for each sample is required for each laboratory analysis.

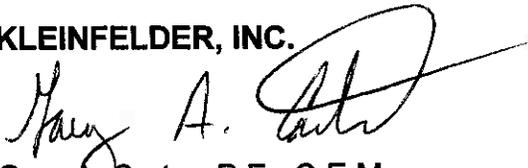
## Appendix D, Health and Safety Plan

A revised Site-Specific HASP is provided in Attachment A. This supercedes the previous HASP included as Appendix D in the SAP. This revised HASP contains the standard format used by Kleinfelder and includes the same necessary elements that are included in the existing HASP. The organization and coordination information is updated with key Kleinfelder staff.

If there are any questions raised by NDEP or EPA in review of these modifications, please feel free to give me a call at (702) 736-2936 x142. We look forward to working with you on the Cornerstone project.

Respectfully submitted,

**KLEINFELDER, INC.**



Gary A. Carter, P.E., C.E.M.  
Environmental Department Manager

GAC/map

Attachment A – Health and Safety Plan

**ATTACHMENT A**  
**HEALTH AND SAFETY PLAN**

## SITE-SPECIFIC HEALTH AND SAFETY PLAN

Project No. 61801 Date October 12, 2005

Client NDEP Address 901 S. Stewart Street, Suite 4001  
Carson City, Nevada 89701

Site Contact Gary Carter Site Phone No. N/A

Job Location Cornerstone Redevelopment Area; Stephanie Street and Wigwam Parkway, Henderson, Nevada

Work Objectives Perform quarterly surface water and groundwater sampling

Key Individuals: Project Manager Gary Carter

Site Health and Safety Gary Carter

Prepared by Gary Carter Reviewer/Approver \_\_\_\_\_

Hospital/Clinic St. Rose Dominican Hospital

Phone No. 616-5600

Address: 3001 St. Rose Parkway, Henderson, NV

Paramedic 911 Fire Dept. 911 Police Dept. 911

**Emergency/Contingency Plans:** The project manager shall be notified of any on-site emergencies. The field lead is responsible for seeing that the appropriate procedures are followed. Upon notification of an injury, the field lead should evaluate the nature of the injury and the person affected should be decontaminated to the extent possible prior to movement. The field lead should initiate the appropriate first aid, and contact should be made with an ambulance or the designated medical facility if required.

**15 Minute Eyewash** \_\_\_\_\_ **Fire Extinguisher** required **First Aid Kit** required

**Site Control Measures:** If unexpected conditions arise in the field, the field lead will stop all work at the site and notify the project manager. Work will not resume until the HASP and working conditions have been reevaluated and the HASP revised accordingly. A map of the site is included in Appendix A.

**Personal Decontamination Procedures:** Detergent and waterwash of any protective equipment and sampling gear will be completed as necessary. Detergent and wash water will be available for worker hygiene.

**CHEMICAL HAZARDS**

(see attached list)

Chemical Name (CAS#)	Expected Concentration	Health Hazards
Perchlorate	Soil: Water: 80 ug/L	Skin absorption
	Soil: Water:	

**PHYSICAL HAZARDS**

Heat                       Slip, Trip, Fall                      \_\_\_\_\_ Excavations/Trench  
 \_\_\_\_\_ Cold                      \_\_\_\_\_ Electrical Hazards                      \_\_\_\_\_ Moving Equipment  
 Wet                      \_\_\_\_\_ Underground Hazards                      \_\_\_\_\_ Confined Space  
 \_\_\_\_\_ Noise                      \_\_\_\_\_ Overhead Hazards  
 \_\_\_\_\_ Other \_\_\_\_\_

**PERSONAL PROTECTIVE EQUIPMENT**

R = Required                      A = As Needed

\_\_\_\_\_ Hard Hat                      \_\_\_\_\_ Safety Eyegear: glasses w/ side protection  
 Safety Boots                      \_\_\_\_\_ Respirator (Type): Full-face \_\_\_\_\_ Half-face \_\_\_\_\_  
 \_\_\_\_\_ Orange Vest                      \_\_\_\_\_ Filter Type: Organic vapor \_\_\_ Acid gas \_\_\_ HEPA \_\_\_  
 \_\_\_\_\_ Hearing Protection                       Gloves (Type): Neoprene \_\_\_ PVC  Nitrile  
 \_\_\_\_\_ Tyvek Coveralls                       Other Mobile phone  
 \_\_\_\_\_ 5 Minute Escape Respirator

**In general, if air monitoring readings in workers' breathing zone exceed 5 ppm for 60 seconds or longer, upgrade to Level C (respirator, etc.) or vacate the immediate area.**

**MONITORING EQUIPMENT**

\_\_\_\_\_ Organic Vapor Analyzer (FID)                      \_\_\_\_\_ PID with lamp of \_\_\_\_\_ eV, (in PPM)  
 \_\_\_\_\_ Oxygen Meter                      \_\_\_\_\_ Detector Tube (specify) \_\_\_\_\_  
 \_\_\_\_\_ Combustible Gas Meter                      \_\_\_\_\_ Passive Dosimeter  
 \_\_\_\_\_ H<sub>2</sub>S Meter                      \_\_\_\_\_ Air Sampling Pump  
 \_\_\_\_\_ W. B. G. T.                      \_\_\_\_\_ Filter Media \_\_\_\_\_

### COMMON CHEMICAL HAZARDS

Chemical Name	Expected Concentration	Health Hazards
Fuel Hydrocarbons (i.e. gasoline); TPH-gasoline	Soil: Water:	<u>Acute:</u> Headache, nausea, dizziness, skin/eye irritation, blurred vision, abdominal pains, vertigo, diarrhea, convulsions. <u>Chronic:</u> n/a
Total Petroleum Hydrocarbons (Diesel and other petroleum hydrocarbons); TPD-diesel	Soil: Water:	<u>Acute:</u> skin, eye, and respiratory irritation; headache, dizziness. <u>Chronic:</u> n/a
Benzene	Soil: Water:	<u>Acute:</u> Abdominal pain, headache, dizziness. <u>Chronic:</u> <b>Carcinogen</b> , anemia, leukemia,
Toluene	Soil: Water:	<u>Acute:</u> Dermatitis (skin), respiratory irritant, headache, dizziness <u>Chronic:</u> n/a
Ethyl Benzene	Soil: Water:	<u>Acute:</u> Skin/eye irritant, headache, dizziness <u>Chronic:</u> n/a
Xylenes	Soil: Water:	<u>Acute:</u> Skin/eye irritant, headache, dizziness, drowsy <u>Chronic:</u> n/a
Dichloroethane, 1,2- (1,2 DCA, ethylene dichloride)	Soil: Water:	<u>Acute:</u> Dermatitis (skin), respiratory and eye irritation, headache <u>Chronic:</u> Probable carcinogen, damage to liver and kidneys
Trichloroethene	Soil: Water:	<u>Acute:</u> dermatitis, headache, respiratory irritation, heart sensitizer <u>Chronic:</u> Carcinogen
Dichloroethylene, 1,2-	Soil: Water:	<u>Acute:</u> headache, dizziness, dermatitis, respiratory irritant <u>Chronic:</u> Damage lungs, liver, heart
Dichloroethane, 1,1-	Soil: Water:	<u>Acute:</u> headache, dizziness, dermatitis, respiratory irritant <u>Chronic:</u> n/a

**Other Chemicals Not On List: Contact Health and Safety Manager**

