FIGURES







Penryn, California

WallaceKuhl

& ASSOCIATES INC

DATE 5/07 WKA NO. 5887.06





(1.2/1.1) O

LEGEND

- Q Background Sample Location Ο Soil Sample Location ۲ Soil Sample Location ⊕ Water Sample Location ٠ Soil Sample Location × Debris Pile Sample Location \boxtimes Sediment Sample Location 16.0 mg/kg Arsenic Isoconcentration C (1.8/1.9)Previous Arsenic Fence Concentration (0-0.5'/1'-1.5' DS or -- Approximate 16.0 mg/kg Arsenic Isocc 0-0.51/2-2.5' SS depth interval) Site
- NC Not Collected
- NA Not Analyzed

Area recommended for deeper excavat to approximately 1.5 to 2 ft bgs

led by Placer County, 2007 ane Zone II





\$\$-12 (1.2/1.1)

LEGEND

Ø	Background sample location	0	Soil sample location
۲	Soil sample location	\	Water sample location
٠	Soil sample location	×	Debris pile sample location
\boxtimes	Sediment sample location		16.0 mg/kg arsenic isoconcentration contour line
(1.8/1.9)	Previous Arsenic	Willington gangeleen	Fence
	Concentration (0-0.5 ¹ /1 ⁻ 1.5 ¹ DS or	Tables & Links & or	Approximate 16.0 mg/kg arsenic isoconcentration con
	0-0.5'/2-2.5' SS depth interval)		25' (MA-1 and MA-2) and 50' grid (MA-3) of potentis
NC	Not Collected		Site boundary
NA	Not Analyzed	\boxtimes	Proposed organic pesticide and lead sample location

APPENDIX A

DTSC PROJECT APPROVAL LETTER

Department of Toxic Substances Control

Linda S. Adams Secretary for Environmental Protection Maureen F. Gorsen, Director 8800 Cal Center Drive Sacramento, California 95826-3200

December 26, 2007

Mr. Mike Mahoney Penryn Development, LLC 3990 Ruffin Road, Suite 100 San Diego, California 92123

SUPPLEMENTAL SITE INVESTIGATION CONDITIONAL APPROVAL LETTER, PENRYN DEVELOPMENT, PENRYN, CALIFORNIA

Dear Mr. Mahoney:

The California Department of Toxic Substances Control (DTSC) received a draft Supplemental Site Investigation II Report (Report) in October, 2007. The Report was submitted by your consultant, Wallace Kuhl and Associates, Inc. for the 15 acre Penryn Development site located approximately one and one-half miles northeast of the central business district of the incorporated town of Loomis, California. The site previously supported an orchard until the 1970s. The site has remained fallow since the 1970s. The Report documents the sampling activities to characterize the extent of contamination in the soil and surface water. The report included a screening level human health risk assessment and an ecological screening risk assessment. An ecological screening risk assessment was conducted because a wetland is on the property, and the wetlands support a variety of species. The human health risk assessment documented that the contamination on site presents a risk to future residents. The report states that remediation is needed prior to development to protect human exposure. The ecological screening risk assessment documented that the contamination on-site could pose a risk to the white-tailed kite and Cooper hawk. However, the wetlands will be developed for residential land use in the near future. Placer County is drafting an Environmental Assessment Report (EIR) which will evaluate the environmental impacts of the development on the wetlands. Remediation along the wetlands will be coordinated with Placer County's final EIR. DTSC does have a comment on the Report which is discussed below. Once the comment has been addressed, then the Report is approved.

This report and previous site investigation reports found elevated arsenic, DDT, DDD and DDE contamination above background levels or the California Human Health Screening Levels (CHHSLs). CHHSLs are screening levels which are protective for human health exposure. Arsenic, DDT, and DDE concentrations found on the property ranged between 1 to 54 milligrams per kilogram of soil (mg/kg), 1 to 2.7 mg/kg, and 1 to 2.5 mg/kg, respectively. A few background soil samples were collected and analyzed for arsenic, which ranged between 1 to 4 mg/kg. The CHHSLs for DDT, DDD, and DDE are 1.6 mg/kg, 2.3 mg/kg, and 1.6 mg/kg, respectively. Since the contamination on-site exceeded background and/or the CHHSLs, remediation is needed to achieve cleanup for unrestricted land use. As stated in the report and discussed during a phone call with your consultant in November, 2007, the report proposes an









Mr. Mike Mahoney December 26, 2007 Page 2

arsenic remediation level of 8.0 mg/kg using the 95% upper confidence level of the mean of the soil confirmation sampling data. An arsenic remediation cleanup level of 8.0 mg/kg is above the background level found onsite and is not consistent with DTSC policy regarding arsenic cleanup. Please provide the justification for cleanup of arsenic concentrations above background. Due to the cumulative effects for risk, the DDT, DDD, and DDE remediation levels should be below the CHHSLs. The DDT, DDD, and DDE remediation levels should be based on the total threshold limit concentration (TTLC), which is 1.0 mg/kg when added together. Please address this comment in the draft Removal Action Work Plan, which will propose a remediation plan

If you have any questions, please contact Mr. Duane White at (916) 255-3585. DTSC looks forward to reviewing the draft Removal Action Work Plan.

Sincerely

Fernando Amador, P.E., Chief Sacramento Responsible Party Unit

cc: Mr. Bill Flores Wallace Kuhl & Associates, Inc 500 Menlo Drive, Suite 100 Rocklin, California 95765 Comments/Response Table for the

Draft Removal Action Workplan PENRYN PROPERTY Penryn, California WKA No. 5887.06

April 2, 2008

Comments by: Duane White, DTSC Project Manager Department of Toxic Substances Control

Response to comments by: Bill Flores Senior Environmental Geologist Wallace-Kuhl & Associates

General Comments on the RAW

DTSC Comment #1:

The draft RAW proposes two remediation levels for arsenic – a soil screening level of 16 milligrams of arsenic per kilogram of soil (mg/kg) and an overall post-mitigation site soil arsenic concentration of 8 mg/kg. The term "soil screening level" in the draft RAW should be changed to "ceiling level". The draft RAW should state that DTSC will review all confirmation sample results prior to excavation activities being completed to ensure no additional soil needs to be transported to a permitted facility.

In the December 26, 2007 DTSC letter, DTSC wanted the draft RAW to provide the justification to selecting an arsenic remediation level above background levels. The RAW proposes an arsenic post mitigation remediation level of 8 mg/kg while background concentrations have ranged between 1 to 4 mg/gk. The RAW justifies an arsenic level above background conditions by calculating the point of inflection between the background data and site data and identifying on page 15 that there will be incomplete pathways since the site will be developed into townhouses / apartment buildings.

WKA Response:

The term "soil screening level" has been changed to "ceiling level" in the Revised Draft RAW. Wording to the effect that, "the DTSC will review all confirmation sample results prior to completion of excavation activities to ensure no additional soil needs to be removed and transported to a permitted facility," has been inserted into the text of page 3 of the Revised Draft RAW.