

FAX

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Date:	07/14/97	
	r of pages including cover	8
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To: Ms. Medhulla Logan

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CC:

From: Jason Nutt

Project Engineer

Phone:

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DEMARKS.	□ I Irgent	For your review	☐ Reply ASAP	Please comment
DEBARDER		IVI FULL VIOLE LEVILVY	V#46693	_

Medhulla - Please find the responses to your questions concerning the Interim Remediation Work Plan for former Chevron Station 9-0260 located at 21995 Foothill Boulevard in Hayward. If you have any further questions, please feel free to call.



1651 Alvarado Street, San Leandro, CA 94577-2636 Tel (510) 351-8900 □ Fax (510) 351-0221

July 14, 1997

Ms. Medhulla Logan Alameda County Health Care Services Department of Environmental Health 1131 Harbor Way Parkway, Suite 250 Alameda, California 94502-6577

Re:

Work Plan Response Former Chevron 9-0260 21995 Foothill Boulevard Hayward, California

Dear Ms. Logan:

Thank you for taking the time to review the Interim Remediation Work Plan (IRWP) for the former Chevron Station 9-0260 located at 21995 Foothill Boulevard in Hayward, California. During your phone conversation with Mr. Tony Dahl on July 14, you requested clarification on certain portions of the IRWP.

Terra Vac inadvertently replaced the correct version of the Groundwater SSTL Values (commercial) table with a later version. The correct representative concentration is 8.8 mg/L which corresponds to an SSTL value for groundwater volatilization to commercial indoor air of 460 ppb. This SSTL value is correctly stated in the body of the report. I have attached a copy of the table for your file.

Also attached are the data sets used to derive the representative concentrations, and the values for the three main methods for calculating representative concentrations, Maximum Value, Mean, and Upper Confidence Limit (90%). For the presented assessments, Terra Vac utilized the Mean Concentration.

Terra Vac agrees that the TCLP discussed as a secondary goal for determining remediation effectiveness is not necessary based on the primary goal of SSTLs for volatilization.

Since Terra Vac does not have record of any petrophysical analysis data from this site, an estimate for porosity was utilized based on the site soil characteristics and petrophysical



### TERRA VAC

data from similar sites. The volumetric water and air contents noted were incidentally reversed and should have been 0.2 for air and 0.1 for water. Terra Vac will make corrections to the risk assessment and provide you with updated tables for your files.

Please feel free to call if you have any further questions or require further clarification on the IRWP.

Sincerely,

Terra Vac Corporation

Jason L. Nutt

Project Engineer

#### RBCA SITE ASSESSMENT

Tier 2 Worksheet 5.6

Site Name: Chevron Station 9-0260

Completed By: 586-4

Site Location: 21995 Foothill Boulevard, Hayw Date Completed: 11/6/1996

1 of 1

# TIER 2 GROUNDWATER CONCENTRATION DATA SUMMARY

		Analytical Method			Detected Concentrations				
CONSTITUENTS DETECTED		Typical Detection Limit (mg/L)	No. of Samples	No. of Detects	Maximum Conc. (mg/L)	Mean Conc. (mg/L)	UCL on Mean Conc. (mg/L)		
CAS No.	Name	entitle (ingre)	C	9	2.3E+01	8.8E+00	1.2E+01		
71-43-2	Benzene		,	١	2.9E+00	1.4E+00	1.9E+00		
100-41-4	Ethylbenzene	<b>。这是我们的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人</b>	,		2.5E+01	1.1E+00	5.7E+00		
108-88-3	Toluene	<b>日於李祖嘉良至其實實際主義於</b>	9	, ,	1.2E+01	6.3E+00	8.4E+00		
1330-20-7	Xylene (mixed isomers)		9	9	1.25701	0.02.00			

Serial: G-337-YAX-542

Software: GSI RBCA Spreadshe

Version: v 1.0

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										Tier 2 Wos	rksheet 9.3	
Site Name: C	hevron Station 9-0260		Completed By			_						1 OF 1
Site Location: 21996 Foothill Soulevard, Hayward, CA				ted: 11/8/1996	_	☐ MICL expo	sure limit?		Calcuf	ation Option:	3	
GROUNDWATER SSTL VALUES			Target Risk (Class C) 1,0€-5			☐ PEL expos						
			Target I	lazard Quetient SST	1.0E+0 L Results For Com	plete Exposure	Pathways ("x" if C	Complete)	e: Volatilization	Applicable	Exceeded	
	CONSTITUENTS OF CONCERN Representative Concentration			Groundwater	Ingestion	X to !	rter Voiatilization Indoor Air		ndoor Air Commercial:	SSTL	7	Required CRF
	1	(mg/L)	Residential: (on-site)	Commercial: (on-site)	Regulatory(MCL): (on-site)	Residential: (on-site)	Commercial: (cn-stte)	(on-site)	(on-site)	(mg/L	"B" If yes	Only if 'yes' left 5.9E+01
CAS No.	Benzene	8.8E+0	NA	NA	NA	1.5E-1	NA_	4.1E+1	NA NA	1.5E-1 >Sol	-	5.5E.101 <1
	Ethylbenzene	1.4E+0	NA	NA _	NA NA	>Sol >Sol	NA NA	>Sol >Sol	NA NA	>Sol	1 6	<1
108-88-3	Toluene	1,1E+0	NA NA	NA NA	NA NA	>Sol	NA NA	>Sol	NA	>Sol		<1
1330-20-7	Xylene (mixed isomers)	6.3E+0	NA_	1 104	1 1975		·					

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#### RBCA SITE ASSESSMENT

Tier 2 Worksheet 5.5

Site Name: Chevron Station 9-0260

Completed By: 586-4 Site Location: 21995 Foothill Boulevard, Haywar Date Completed: 11/6/1996

1 of 1

# TIER 2 SUBSURFACE SOIL CONCENTRATION DATA SUMMA

	Analytical Method			Det	ected Concentrat	ions
CONSTITUENTS DETECTED	Typical Detection	No. of Samples	No. of Detects	Maximum Conc. (mg/kg)	Mean Conc. (mg/kg)	UCL on Mean Conc. (mg/kg)
CAS No. Name	Limit (mg/kg)	OBITIPIOO	2	1.8E+00	1.5E+00	2.5E+00
71-43-2 Benzene		2	2	1.0E+01	6.0E+00	1.8E+01
100-41-4 Ethylbenzene	12. <b>美</b> 观点数据 1. 计数据记录数		1 2	5.4E+00	1.9E+00	N/A
108-88-3 Toluene		4	2	5.4E+01	3.3E+01	9.8E+01
1330_20_7   Xviene (mixed isomers)	· 这是有多数是实际的。这种		2	0.42.01		

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							Tier 2 Worksho	et 9.2	
RBCA SITE	ASSESSI	JENIT							
	Completed By								1 OF 1
Site Location: 21995 Foothill Boulevard, Hayward, CA	Date Complet			F3			Calculation Option	3	
SIB LOCALOIT. 2 1993 1 double 0	Target Rist	k (Çiasa A & B)		☐ MCL expos			•		
SUBSURFACE SOIL SSTL VALUES	Target	Risk (Class C)	1.0€-5	☐ PEL expos	ure limit?				
(> 3 FT BGS)		lazard Quotient	1.0E+0						
(>311 000)		SSTL	Results For Comp	lete Exposure Pa	thways ("x" if C	omplete) Soil Volatilization	n to Applicable	SSTL	
Représentative					atilization to foor Air	X Outdoor Air	9	Exceeded?	Required CRF
CONSTITUENTS OF CONCERN Concentration		Soil Leaching to Groundwate			Commercial:	Residential: Commo			on the second look
	Residential:	1	Regulatory(MCL): (cn-site)	(on-site)	(on-site)	(on-site) (on-s	ite) (mg/kg)		Only if 'yes' left
ÇAS No. Name (mg/kg)	(on-site)	(on-sile)	NA NA	NA.	NA	3.3E+0 N/	4 <u>3.3E+0</u>	<u> </u>	
71-43-2 Benzene 1.5E+0	NA _	NA_		NA.	NA	>Res N	A >Res		<1<1
100-41-4 Ethylbenzene 6.0E+0	NA_	NA_	NA NA		NA NA	>Res N	A >Res	7 0_	<1
108-88-3 Toluene 1.9E+0	NA_	NA.	NA	NA NA	<del></del>	>Res N			<1
108-86-5 roberts 1230-20-7 Vylene (mixed isomers) 3.3E+1	NA	NA.	NA	NA	NA_	T LUCS T	1 100		

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