SCAEnvironmental, Inc.

SCA Environmental, Inc. Four Embarcadero Center Suite 480 San Francisco, CA 94111 Tel: (415) 397-9936

San Francisco, CA 94 i i
Tel: (415) 397-9936
FAX: (415) 397-1406

TO/ COMPANY	Amy Leach, Alameda County	POME.
CC:	Shawn Munger, Engeo	AMIO: 57
FROM:	Andy Hilliard	
DATE:	July 11, 1997	
RE:	Parker's Shell Recalculation	
SCA Proj#		
	F-2082	

Dear Amy:

Per our discussion, enclosed please find the 2nd revised risk assessment for the Parker's Shell site.

Unfortunately, I will be out of the office until July 16th. Please feel free to contact me to discuss the assessment after that time, if necessary.

Regards-

Andy Hilliard

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2ND DAY AIR
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Environmental, Inc.

PROTECTION

Engineering and Environmental Consultants

97 JUL 14 AM 10: 57

July 10, 1997

Mr. Shawn Munger Engeo Incorporated 2401 Crow Canyon Road Suite 200 San Ramon, CA 94583

FAX: (510) 838-7425

Re:

2nd Revised Summary of Risk-Based Corrective Action Assessment

Former Parker's Shell Facility - 5293 Crow Canyon Road

Castro Valley, CA SCA Project No. F-2082

Dear Mr. Munger:

This letter report summarizes the risk assessment performed of the subject property. The assessment was performed by SCA Environmental, Inc. (SCA) under contract to Engeo, Inc.

Background

Underground storage tanks were removed from the site in February 1989, according to Alameda County Health Services Agency files. Subsequent soil sampling (conducted in 1990) at the site revealed the presence of benzene in soil in concentrations ranging from Non-Detect to 4.3 mg/kg.

Proposed uses for the property include residential development. The Lead Agency, Alameda County Health Care Services, requested a site-specific evaluation of risk to human health and the environment from exposure to the subsurface soil contamination left in place, specifically to the benzene in soil.

Methodology

The assessment calculations were performed by SCA using Groundwater Services, Inc. (GSI) Tier II® software.

The assessment focused on a *Soil Volatilization to Indoor Air* pathway, for a residential scenario. Other pathways were not considered in this assessment. Since groundwater at the site was not impacted, based upon extensive sampling conducted in 1990 and before, the *Soil Leaching to Groundwater* pathway was not considered.

Surface soils were expected to have minimal concentrations of the analytes of concern, given the 8 year lag time since the USTs were removed and any surface impact from product may have occurred. The surface soils are expected to be dramatically altered by the planned residential renovation, including excavated for foundations, landscaped, paved, terraced, etc. Based on SCA's experience at similar sites, this pathway would not pose a significant exposure to workers or residents, under this scenario. The net effect was that Soil Volatilization to Outdoor Air was not anticipated to be a significant exposure pathway and was not evaluated.

Note that California toxicity slope factors for benzene were used.

This assessment incorporates a number of modifications to the previous assessment performed by SCA (dated July 2, 1997). These modifications were made at the request of Ms. Amy Leach of Alameda County Health Care Agency, and are summarized as follows:

1. For each soil sample location, only the highest result for benzene was used, regardless of depth. For example, if results were ND at 5' depth, ND at 10' depth, and 0.1 mg/kg at 15' depth, the 0.1 mg/kg value would be used. The lower results would not be used in the assessment.

- 2. A 95% Upper Confidence Limit was not required for sample results; the software-calculated mean of the highest sample result for each location was used instead (see Appendix B, Raw Data, for a summary of values used).
- 3. The Individual Target Risk for Class A carcinogens was set at 10⁻⁵ (the default values established in ASTM standard E1739-95 is 10⁻⁶).
- 4. The Crack Factor in the model was set at 0.005 (reduced from the default of 0.01 to reflect new construction).
- 5. Soil attenuation over time was not factored in to the assessment. The soils at the site were assumed to have the same concentrations of benzene as were measured in 1990.

Results

Using the protocols listed above, a Tier 2 assessment was performed of soil sampling data from 1990 and before; incorporating 1997 resampling data conducted in two locations (SB-1A and SB-8A).

- a. The Tier 2 assessment established a site-specific target level (SSTL) for benzene of 5.8 x 10⁻² mg/kg (See Appendix A, *Subsurface Soil SSTL Values*, Tier 2 Worksheet 9.2),
- b. The mean benzene level at the site was 1.1×10^{-2} mg/kg, or below the SSTL, based on the calculations performed.

Conclusions

In our professional opinion, the site appears acceptable to develop for residential use, based upon the data supplied to us and the risk assessment protocols used.

Please feel free to contact me at (415) 397-9936 with any questions or clarifications.

Sincerely,

SCA ENVIRONMENTAL, INC.

Andy Hilliard, CIH, CSP, CHMM

Regional Manager

Appendix:

A. Tier 2 Worksheet 9.2 Subsurface Soil SSTL Values,

B. Raw Data

C. Supplementary Data



Appendix A Tier 2 Worksheet 9.2 Subsurface Soil SSTL Values,

Tier 2 Worksheet 9.2 Site Name, Parker's Shell Station, new formulation Completed By, Andy Hilliard 1 OF 1 Site Location: Castro Valley Date Completed: 7/10/1997 Target Risk (Class A & B) 1,0E-5 ☐ MCL exposure limit? Calculation Option, 1 SUBSURFACE SOIL SSTL VALUES Target Risk (Class C) 1.06-5 ☐ PEL exposure limit? (> 3.3 FT BGS) Target Hazard Quotient 1,0E+0 SSTL Results For Complete Exposure Pathways ("x" If Complete) Representative Soil Volatilization to Soil Volatilization to Applicable SSTL Concentration CONSTITUENTS OF CONCERN Soil Leaching to Groundwater Indoor Air Outdoor Air SSTL Exceeded? Required CRF Commercial. Regulatory(MCL): Residential^a Residential: Commercial. Residential. Commercial: CAS No. Name "" If yes Only if "yes" left (ma/ka) (on-site) (on-site) (on-site) (on-site) 1.1E-2 71-43-2 Benzene NA NA NA 2.0E-1 NA NA NA 2.0E-1 <1 1.2E-2 100-41-4 Ethylbenzene NA NA NA 7.1E+1 NA NA NA 7.1E+1 <1 6.6E-3 4.2E+1 108-88-3 Toluene NA NA NA 4.2E+1 NA NA NA <1 1.5E-2 1330-20-7 Xylene (mixed isomers) >Res >Res <1 NA NA NA NA NA NA >Res_indicates risk-based target concentration greater than constituent residual saturation value Software: GSI RBCA Spreadsheet Serial: G-421-DSX-400 @ Groundwater Services, Inc. (GSI), 1995-1997. All Rights Reserved. Version: 1.0 1 $((2.0 \times 10^{-1}) \times (0.29 \text{ for } CA \text{ benzene})$ = 5.8 × 10⁻² 9 1.1×10-2 2 5.8×10-2 Respective Concentration & SSTL

Site Name: Parker's Shell Station, new formulati Completed By: Andy Hilliard Site Location: Castro Valley

Date Completed: 7/10/1997

1 of 1

TIER 2 SUBSURFACE SOIL CONCENTRATION DATA SUMMARY

		Analytical Method			Det	ected Concentrat	ions
CONSTITUE	ENTS DETECTED	Typical Detection	No. of	No. of	Maximum	Mean	UCL on Mean
CAS No.	Name	Limit (mg/kg)	Samples	Detects	Conc. (mg/kg)	Conc. (mg/kg)	Conc. (mg/kg)
71-43-2	Benzene	5.0E-03	11	6	2.4E-01	1.1E-02	3.1E-02
100-41-4	Ethylbenzene	5.0E-03	11	5	3.3E-01	1.2E-02	3.4E-02
108-88-3	Toluene	5.0E-03	11	4	1.6E-01	6.6E-03	1.6E-02
1330-20-7	Xvlene (mixed isomers)	5.0E-03	11	6	3.2E-01	1.5E-02	4.8E-02

Serial: G-421-DSX-40

Software: GSI RBCA Spreadsheet Version: 1.0.1

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Appendix B Raw Data

raw data

Raw Data											
Former Parker's She	ell Statio	n, Cas									
SCA Project No. F-2	082			Jul	y 10, 1	997					
Sample Location:	SB-1A	SB-2	SB-3	SB-4	SB-6	SB-7	SB-8A	SB-9	B-10	B-11	B-12
Date:	Apr-97	Apr-90	Apr-90	Apr-90	Apr-90	Apr-90	Apr-97	Apr-90	May-90	May-90	May-90
Benzene	0.0076	0.24	0.09	0.0063	0.023	ND	ND	0.19	ND	ND ND	ND
Ethylbenzene	0.025	0.097	0.016	ND	0.33	ND	ND	0.17	ND	ND	ND
Toluene	ND	0.0051	ND	ND	0.023	ND	ND	0.085	0.16	ND	ND
Xylene (mixed isomers)	0.063	0.0055	0.01	ND	0.031	ND	ND	0.32	0.26	ND	ND

TABLE 1
SAMPLE ANALYTICAL RESULTS

	SAMP	LZ =	GASOLIN	e Benzene	SIGMOT	ethyl Benzene	Total Xylenes	
-	5B-1A	ريدريا	mg/kg	ug/kg	ug/kg	ug/kg	·ug/kg	
	SB-1,		110	2,500	1,200	690	1,300	
	SB-1		H.D.	780	44	19	18	
	SB-1,		N.D.	N.D.	N.D.	N.D.	N.D.	
	58-1'.	201	N.D.	N.D.	N.D.	N.D.	R.D.	
	- \$8-2,		7.8	240	5.1	9 7	5.5	
	SB-2.		N.D.		N.D.	N.D.	N.D.	
	SB-2,		N.D.	и.D.	N.D.	N.D.	N.D.	
>	SB-3,		N.D.	90-	N.D.	_16	10	
	58-3,		N.D.	N.D.	N.D.	N.D.	H.D.	
	SB-3.		N.D.	N'D'	N.D.	H.D.	Ŋ.D.	
	SB-4,		N.D.	H.D.	N.D.	N.D.	H.D.	
	SB-4,		N.D.	N.D.	N.D.	H.D	n.d.	
	SB-4,		N.D.	6.3	N.D.	; N.D.	N.D.	
<u>.</u>	SB-6,		N.D.	N.D.	N.D.	N.D.	N.D.	
	SB-6,		୍ଦ୍ର 79 ୁ	23	10	330	310	
_	SB-6. SB-7.		n.u.	W.D.	N.D. N.D.	H.D. N.D.	N.D. N.D.	
	SB-7,		N.D.	N.D. N.D.	N.D.	N.D.	N.D.	
	SB-7.		N.D. N.D.		N.D.	N.D.	N.D.	
5B-8A	SB-0,		390	4,300	4,000	2,800	5,300	
Used	SB-8,		N.D.	37	11	N.D.	5.4	
	58-8,		N.D.	49	20	7.5	15	
	SB-8,		N.D.	N.D.	N.D.	N.D.	H.D.	
	SB-9,		N.D.	N.D.	N.D.	H.D.	N.D.	
	58-9,		66		85	170	320	
•	SB-9.		N.D.	N.D.	N.D.	· N.D.	N.D.	
	MV-1		N.D.	N.D.	N.D.	N.D.	N.D.	
	MW-1.	10'	N.D.	N.D.	N.D.	N.D.	N.D.	
	MV-1,	15′	N.D.	N.D.	N.D.	N.D.	N.D.	
	MW-1,	201	N.D.	N.D.	N.D.	N.D.	N.D.	
	MY-1,	40 ′	N.D.	N.D.	H.D.	N.D.	N.D.	
				•	iter Samples	•	Sec. et a. s	
				CCHC	ETEX	CIPEST	TU45	_
			GASOLIN.	E Deal EPA 601	EPA 602	EPA 608	EPA 625 0+1	3
			mg∕l	u g/]	ug/l	ug∕l .	ug/I	
	HW-1	•	N.D.	NA AND	у.б.	THE D.	NA NA	~
	MV-2		N.D.	MA N.D.	B.D.	pen.	TA. NA	
	MV-3		N.D.	HD N.D.	H.D.	N.D.	H.D. ND	

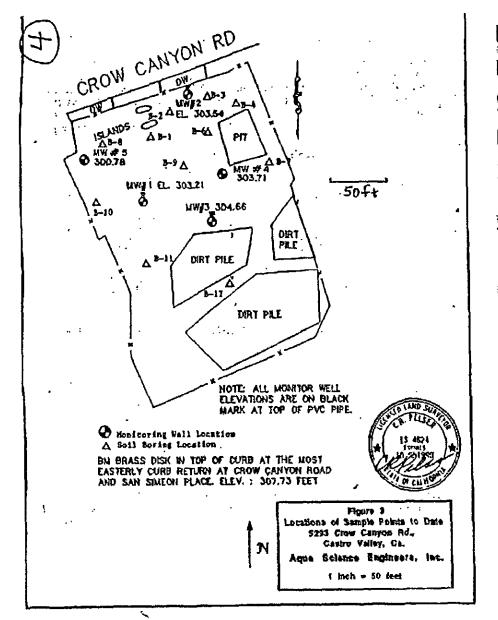


TABLE ONE: RESULTS OF SOIL SAMPLE ANALYSES VERSEUD

, ₍₄)	Soil Sample #		benzens ug/kg	toin cos up/kg	ethyl benzene ug/kg	es/kg xylcocs	100
l	B-10,5'	ND.	ND	NO.	HOND	ND.	-190
	B-10/14:53	4000	ND	和此	ND.		
	B:10/156	2112	ND	750	ND.	250	.
, ,	B-10E702	1685	ND.	NIX (160 ND.	ND.	260
1		,-,-		=		ND	
 →	B-11,5"	. N.D.	N.D.	ND.	ND.	ND.	
	B-11,20°	N.D.	ND.	КD	. ALL	·	•
	- 44.53	ND.	ND.	N.D.	ND	ND.	
	B-12,5°	ND.	ND.	KLD	ND.	ND	
	B-12,10	ND.	ND.	ND.	ИД	· ND.	
	B-12,15' B-12,20'	ND.	N.D.	NLD	ND.	N.D.	
	B-12,25'	ND.	N.D.	N.D.	KD	ND.	
r	D-1212	1424	•—•				
	MW-4,5	ND.	ND.	N.D.	ND	ND.	
	MW-4 HO	¥ 5.3-1	ND.	N.D.	KD.	ND.	-
ı	MW-4,15	NID	N.D.	ND	KD.	, ND	
i .	MW-4,20'	ND	ND	ND.	ND.	ND.	
	MW-5,5'	ND.	ND.	N.D.	ND.	ND.	
-	MW-5,9.5°	ND.	N.D.	N.D.	ND.	ND.	
•	MW-5,15'	ND.	, ND.	ND	. ND	N.D.	
	lio2						
	Sample #	TPH-diese	1 TOG	c'	hiorinated	hydrocarbons	
Į.	Dung.	me/kg	mg/kg		u	g/kg	methode a chil
	B-12\$109\$	ND	ND.		AT dich	oromethano	methone dich
<u>.</u>	B-12#159	N.D.	ND.	9		prediamoroid	
	MW-4,10	ND					
•	24 44 - A 1 1 A	4-4-4					

5293 Crow Canyon R.A. - Sept. 16, 1991

Appendix C Supplementary Data Site Name Parker's Shell Station, new footab Identification, 1428-01
Site Location: Castro Valley Date Completed 7/10/97
Completed By: Andy Hilliard

Softwarer GSI RBCA Spreadsheet Version: 1 0.1

NOTE, values which differ from Tier 1 default values are shown in bold italics and underlined.

Exposure			Residential		Commercial		Surface			_	
Parameter	Definition (Units)	Adult	(1-6yrs)	(1-16 yrs)	Chronic	Constrctn		Definition (Units)	Residential	Constrcts	
ATC	Averaging time for carcinogens (yr)	70	•	40	25		A W	Contaminated soil area (cm^2)	2.25+06	1 0E+06	
ATn	Averaging time for non-carcinogens (yr)	30	6	16	25	1		Length of affect soil parallel to wind (cm)	1.5E+03 1.5E+03	1 0E+03	
ED ED	Body Weight (kg)	70	15	35	70 05		W.gw	Length of affect soil parallel to groundwater (cm	1.5E+03 2.3E+02		
r En	Exposure Duration (yr)	30	6	16	25 25	1 1	Uair delta	Ambient air velocity in mixing zone (cm/s)	2.3E+02 2.0E+02		
EF	Averaging time for vapor flux (yr)	30 350			چے 250	180		Air mixing zone height (cm) Thickness of affected surface soils (cm)	1 05+02		
EF.Derm	Exposure Frequency (days/yr) Exposure Frequency for dermal exposure	350 350			250 250	100	Pe	Particulate areal emission rate (g/cm^2/s)	8.9E-14		
IRgw	Ingestion Rate of Water (L/day)	2			250		F-6	Particulate ateal emission rate (gichi-25)	0.9E-14		
iRs	Ingestion Rate of Soil (mg/day)	100	200		50	100					
IRadi	Adjusted soil ing. rate (mg-yr/kg-d)	1.1E+02	200		9.4E+01	100	Groundwater	Definition (Units)	Value		
lRa.in	Inhalation rate indoor (m^3/day)	15			20		delta.gw	Groundwater mixing zone depth (cm)	2.0E+02		
[Ra.out	Inhalation rate outdoor (m^3/day)	20			20	10	l	Groundwater infiltration rate (cm/yr)	3.0E+01		
SA	Skin surface area (dermal) (cm^2)	5.8E+03		2.0E+03	5.8E+03	5.8E+03	Ugw	Groundwater Darcy velocity (cm/yr)	2.5€+03		
SAadi	Adjusted dermal area (cm^2-yr/kg)	2.1⊑+03			1.7E+03		Ugw.tr	Groundwater seepage velocity (cm/yr)	6.6E+03		
м	Soil to Skin adherence factor	1					Ks	Saturated hydraulic conductivity(cm/s)			
AAFs	Age adjustment on soil ingestion	FALSE			FALSE		grad	Groundwater gradient (cm/cm)			
AAFd	Age adjustment on skin surface area	FALSE			FALSE		Św	Width of groundwater source zone (cm)			
tox	Use EPA tox data for air (or PEL based)?	TRUE					Sd	Depth of groundwater source zone (cm)			
gwMCL?	Use MCL as exposure limit in groundwater?	FALSE					phi.eff	Effective porosity in water-bearing unit	3,8Æ-01		
							foc.sat	Fraction organic carbon in water-bearing unit	1.0E-03		
							BIO?	Is bloattenuation considered?	FALSE		
							BC	Biodegradation Capacity (mg/L)			
	sed Persons to	Residential			Commercial						
	osure Pathways				Chronic	Constrctn	Soil	Definition (Units)	Value		
Outdoor Air Pa							hc	Capillary zone thickness (cm)	5 0E+00		
SSV	Volatiles and Particulates from Surface Soils	FALSE			FALSE	FALSE	hv	Vadose zone thickness (cm)	3.0E+02		
S.v GW v	Volatilization from Subsurface Soils	FALSE			FALSE		rho	Soil density (g/cm^3) Fraction of organic carbon in vadose zone	1.7 0.01		
	Volatilization from Groundwater	FALSE			FALSE		foc phi	• •	0,01		
Indoor Air Path S.b	rways: Vapors from Subsurface Soils	TRUE			FALSE		Lgw	Soil porosity in vadose zone Depth to groundwater (cm)	3.0E+02		
GW.b	Vapors from Groundwater	FALSE			FALSE		Lgw Ls	Depth to top of affected subsurface soil (cm)	1.5E+02		
Soil Pathways:		FALOE			FALSE		Lsubs	Thickness of affected subsurface soils (cm)	3.0E+02		
SS d	Direct Ingestion and Dermal Contact	FALSE			FALSE	TRUE	pH	Soil/groundwater pH	6.5		
Groundwater F		, neve			IALOL	INOL	Pr t	Congruence pr	capillary	vadose	foundation
GW i	Groundwater Ingestion	FALSE			FALSE		phi,w	Volumetric water content	0.342	0.12	0,12
SI	Leaching to Groundwater from all Soils	FALSE			FALSE		phi.a	Volumetric air content	0.038	0.26	0.26
J	Lodgining to Globilatitation from all cond	171204					P2	Telamonia di Contant	0.070		0.20
							Building	Definition (Units)	Residential	Commercial	
							Lb	Building volume/area ratio (cm)	2.0E+02	3.0E+02	
Matrix of Recei	ptor Distance	Reside	ntial		Commercial	l/Industrial	ER	Building air exchange rate (s^-1)	1.4E-04	2 3E-04	
and Location C		Distance	On-Site		Distance	On-Site	Lork	Foundation crack thickness (cm)	1 5E±01		
GW	Groundwater receptor (cm)		TRUE			TRUE	eta	Foundation crack fraction	0.005	7	
S	Inhalation receptor (cm)		TRUE			TRUE					_
	, , ,										
							Transport				
Matrix of									Residentiai	Commercial	
Target Risks		Individual	Cumulative				Groundwater				
TRab	Target Risk (class A&B carcinogens)	1.0E-05 €	-				ax	Longitudinal dispersivity (cm)			
TR¢	Target Risk (class C carcinogens)	1.0E-05					ay	Transverse dispersivity (cm)			
THQ	Target Hazard Quotient	1.0E+00					az	Vertical dispersivity (cm)			
Opt	Calculation Option (1, 2, or 3)	1					Vapor				
Tief	RBCA Tier	2					dcy	Transverse dispersion coefficient (cm)			
							dcz	Vertical dispersion coefficient (cm)			
1											

CAS		Molec: Weig (g/mo	ht		oeff	ısion icients in wate (cm2/s		log (Kod log(Ko (@ 20 - 2 log(l/k	d) !5 C)		_aw Constar :0 - 25 C)	nt	Vapor Pressure (@ 20 - 25 (mm Hg)	C)	Solubility (@ 20 - 25 (mg/L)		acid	base	
Number Constituent	type	йw	ref	Dair	ref	Dwat	ref	•	ref	moi	(unitless)	ref		ref	,	ref	рКа	pKb	ref
71-43-2 Benzene	Ā	78.1	5	9.30E-02	Α	1.10E-05	Α	1.58	Α	5.29E-03	2.20E-01	Α	9.52E+01	4	1.75E+03	Α	•	•	
100-41-4 Ethylbenzene	Α	106.2	5	7.60E-02	Α	8.50E-06	Α	1.98	Α	7.69E-03	3.20E-01	Α	1.00E+01	4	1.52E+02	5			
108-88-3 Toluene	Α	92.4	5	8.50E-02	Α	9.40E-06	Α	2.13	Α	6.25E-03	2.60E-01	Α	3.00E+01	4	5.15E+02	29			
1330-20-7 Xylene (mixed isomers)	Α	106.2	5	7.20E-02	Α	8.50E-06	Α	2.38	Α	6.97E-03	2.90E-01	Α	7.00E+00	4	1.98E+02	5			

Site Name: Parker's Shell Station, new formulat Site Location: Castro Valley

Completed By: Andy Hilliard

Date Completed: 7/10/1997

Software version: 1.0.1

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	R	Reference Dose					S			
(mg/kg/day)						ng/kg/			EPA Weight	ls
CAS	Oral		Inhalation		Oral		Inhalation		of	Constituent
Number Constituent	RfD_oral	ref	RfD_inhat	ref	SF_oral	ref	SF_inhal	ref	Evidence	Carcinogenic?
71-43-2 Benzene	-		1.70E-03	R	2.90E-02	Α	2.90E-02	Α	Α	TRUE
100-41-4 Ethylbenzene	1.00E-01	Α	2.86E-01	Α	-		-		D	FALSE
108-88-3 Toluene	2.00E-01	A,R	1.14E-01	A,R	-		-		D	FALSE
1330-20-7 Xylene (mixed isomers)	2.00E+00	A,R	2.00E+00	Α	-		-		D	FALSE

Site Name: Parker's Shell Station, new fo Site Location: Castro Valley

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Date Completed: 7/10/1997

Software version: 1.0.1

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			Permiss	ible	Re	lative	Dete	ction	Limits		Half Life			
		Maximum	Expos	ure	Abs	orption	Groundw	rater	Soi	ł	(First-Or	der Decay)		
CAS	Conf	Limit PE	Fa	ctors	(mg/L)		(mg/kg)		(d					
Number Constituent	MCL (mg/L)	reference	(mg/m3)	ref	Ora!	Dermal		ref		ref	Saturated	Unsaturated	ref	
71-43-2 Benzene	5.00E-03	52 FR 25690	3.20E+00	OSHA	1	0.5	0.002	С	0.005	S	720	720	Н	
100-41-4 Ethylbenzene	7.00E-01	56 FR 3526 (30 Jan 91)	4,34E+02	ACGIH	1	0.5	0.002	С	0.005	S	228	228	Н	
108-88-3 Toluene	1.00E+00	56 FR 3526 (30 Jan 91)	1.47E+02	ACGIH	1	0.5	0.002	C	0.005	\$	28	28	Н	
1330-20-7 Xvlene (mixed isomers)	1.00E+01	56 FR 3526 (30 Jan 91)	4.34E±02	ACGIH	1	0.5	0.005	С	0.005	S	360	360	н	

Site Name: Parker's Shell Station, new fo Site Location: Castro Valley

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