

Drogos, Donna, Env. Health

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Sent: Wednesday, June 26, 2002 8:50 AM
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Cc: Jon K. Wactor
Subject: Ryerson Data



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Donna

Per your request, attached are tables of groundwater analytical results from wells at the Ryerson site in Emeryville. If you have any questions or need additional information, please call.

Thanks,
Jeff

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**Table 1
Groundwater Elevation
Groundwater Monitoring Wells
1465 65th Street
Emeryville, California**

Well ID	Date Measured	Top of Casing Elevation (Ft MSL)	Depth to Water (Ft BTOC)	Groundwater Elevation (Ft MSL)
MW-2	3/24/1995	19.45	3.03	16.42
	7/7/1995	19.45	4.20	15.25
	12/17/2001	19.45	3.49	15.96
	4/25/2002	19.45	3.98	15.47
MW-3	3/24/1995	15.24	2.72	12.52
	7/7/1995	15.24	6.22	9.02
	12/17/2001	15.24	3.26	11.98
	4/25/2002	15.24	6.32	8.92
MW-4	3/6/1995	14.02		
	3/24/1995	14.02	4.57	9.45
	7/7/1995	14.02	5.77	8.25
	12/17/2001	14.02	5.02	9.00
	4/25/2002	14.02	5.84	8.18
RMW-1	8/11/1993	14.38	4.87	9.51
	9/14/1993	14.38	4.94	9.44
	11/2/1993	14.38	5.13	9.25
	11/24/1993	14.38	5.07	9.31
	3/24/1995	14.38	3.61	10.77
	7/7/1995	14.38	4.18	10.20
	12/17/2001	14.38	4.0	10.38
	4/25/2002	14.38	4.51	9.87
RMW-2	8/11/1993	14.55	4.64	9.91
	9/14/1993	14.55	4.64	9.91
	11/2/1993	14.55	4.85	9.70
	11/24/1993	14.55	4.84	9.71
	3/24/1995	14.55	3.35	11.20
	7/7/1995	14.55	3.70	10.85
	12/17/2001	14.55	3.78	10.77
	4/25/2002	14.55	4.26	10.29
RMW-3	8/11/1993	14.15		
	9/14/1993	14.15	4.25*	9.90
	11/2/1993	14.15	4.53*	9.62
	11/24/1993	14.15	4.35*	9.80
	3/24/1995	14.15	2.95	11.20
	7/7/1995	14.15	3.70	10.45
	12/17/2001	14.15	3.34**	10.81
	4/25/2002	14.15	3.72**	10.43

Notes

Ft BTOC = feet below top of casing

Ft MSL = feet above mean sea level as referenced in the 1995 FKI report

NM = Not measured

Depth to water data for all dates except (2/17/01) and 4/25/02 by FKI and summarized in their 1995 report

* = Corrected depth to water measurement made by HFI due to separate product phase on the water table

** = Heavy Petroleum Hydrocarbon sheen observed on the groundwater purged from the well and/or on the laboratory sample

Table 2a
Groundwater Monitoring Well Analytical Results
By Others and Treadwell Rollo
TPH and BTEX
1465 65th Street
Emeryville, California

Sample ID	Sample Date	TPHg	TPPH	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHd	TEPH as Diesel	TEPH as Motor Oil	TEPH	Metals EPA 6000 Series		
													Arsenic	Lead	Chromium
RMW 1	8/11/1993	--	--	--	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--	--	--
	9/14/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/2/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/24/1993	57	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	3/24/1995	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	210	<5	<5	<10
	12/19/2001	--	--	--	<0.5	<0.5	<0.5	<0.5	--	61b	<250	--	--	--	--
RMW 1GAWDUP	12/19/2001	--	--	--	<0.5	8.0	<0.5	<0.5	--	80g	280	--	--	--	--
	4/25/2002	--	--	<5	<0.5	<0.5	<0.5	<0.5	--	190g	1,200	--	--	--	--
RMW 2	8/11/1993	--	--	--	1.3	<0.5	<0.5	0.59	<50	--	--	--	--	--	--
	9/14/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/2/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/24/1993	50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	3/24/1995	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	150	7.6	<5	<10
	12/18/2001	--	--	--	<0.5	<0.5	<0.5	<0.5	--	<50	<250	--	--	--	--
	4/25/2002	--	--	<5	<0.5	<0.5	<0.5	<0.5	--	<50	<250	--	--	--	--
RMW 3	8/11/1993	NS: Floating free-phase hydrocarbons 0.01 feet													
	9/14/1993	NS: Floating free-phase hydrocarbons 0.02 feet													
	11/2/1993	NS: Floating free-phase hydrocarbons 0.04 feet													
	11/24/1993	NS: Floating free-phase hydrocarbons 0.02 feet													
	3/27/1995	--	11,000	--	<10	<10	<10	<10	--	--	--	97,000	<5	<5	<10
	12/18/2001	--	--	--	<0.5	<0.5	<0.5	1.4	--	--	--	--	--	--	--
	4/25/2002	--	--	<5	<0.5	<0.5	<0.5	<0.5	--	9700b,g,h	5,000	--	--	--	--

Table 2a
Groundwater Monitoring Well Analytical Results
By Others and Treadwell Rollo
TPH and BTEX
1465 65th Street
Emeryville, California

Sample ID	Sample Date	TPHg	TPPH	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHd	TEPH as Diesel	TEPH as Motor Oil	TEPH	Metals EPA 6000 Series		
													Arsenic	Lead	Chromium
MW 2	3/23/1995	--	71	--	<0.5	<0.5	<0.5	<0.5	--	--	--	260	<5	<5	<10
	12/17/2001	--	--	--	<0.5	<0.5	<0.5	<0.5	--	<50	<250	--	--	--	--
	4/25/2002	--	--	<5	--	--	--	--	--	--	--	--	--	--	--
MW 3	3/23/1995	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	150	13	<5	<10
	12/17/2001	--	--	--	<0.5	<0.5	<0.5	<0.5	--	<50	<250	--	--	--	--
	4/25/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW 4	3/23/1995	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	190	<5	<5	<10
	12/19/2001	--	--	--	<2.5	<2.5	<2.5	<2.5	--	<50	<250	--	--	--	--
	4/25/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FB-GW	12/19/2001	--	--	--	<0.5	<0.5	<0.5	<0.5	--	<50	<250	--	--	--	--
TRIP BLANK	4/25/2002	--	--	<5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
Indoor Air Cancer Based RBSL	2001	NA	NA	NA	5.8E+03	NC	NC	NC	NA	NA	NA	NA	NV	NV	NV
Indoor Air Noncancer Based RBSL	2001	NA	NA	NA	NA	5.3E+05 sol	1.7E+05 sol	1.6E+05 sol	NA	NA	NA	NA	NV	NV	NV

Notes:

All results are reported in micrograms per liter (ug/L)

0.5 or ND = not detected at or above the indicated laboratory reporting limit

Bold indicates detection above laboratory reporting limit

-- = Not Analyzed

NS = Not Sampled

FB-GW = Field Blank of Distilled Water

RMW-BW-DUP = Duplicate Groundwater sample from well RMW-1

TPHg = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015

TPPH = Total Purgable Petroleum Hydrocarbons

TPHd = Total Petroleum Hydrocarbons as Diesel by EPA Method 8015

TPH = Total Extractable Petroleum Hydrocarbons

NA = not applicable

NC = noncarcinogen

NV = not volatile

RBSL = Residential Scenario Risk-Based Screening Level for Fine-Grained Soil (RWQCB 2001)

sol = Solubility threshold (the calculated RBSL exceeds the solubility threshold of the chemical)

I&R data collected on 15 and 19 December 2001

Source: Final Site Investigation Report for the 64th and 65th Street Properties, Emeryville, California, EKI, 5 September 1995.

b = diesel range compounds are significant; no recognizable pattern

o = oil range compounds are significant

h = lighter than water immiscible sheen product is present

Table 2b
Groundwater Monitoring Well Analytical Results
By Others and Treadwell Rollo
VOC and PAH
1465 65th Street
Emeryville, California

Sample ID	Sample Date	VOCs							PAHs	
		1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl chloride	Bis(2-ethylhexyl) Phthalate	All Other PAHs
RMW-1	3/24/1995	<1.2	1.4	<1.2	16	10	53	<2.5	ND	ND
	12/19/2001	<0.5	1.3	1.5	12	8.5	31	<0.5	--	--
RMW-1GWDUP	12/19/2001	<0.5	2.0	1.3	18	13	48	<0.5	--	--
	4/25/2002	<1	1.2	<1	8.8	6.3	23	<1	--	--
RMW-2	3/24/1995	<0.5	0.96	<0.5	12	8.4	26	<1	ND	ND
	12/18/2001	<0.5	1.5	<0.5	9.8	4.4	27	<0.5	--	--
	4/25/2002	<1	1.2	<1	5.9	2.8	21	<1	--	--
RMW-3	3/27/1995	11	<0.5	1.4	25	22	36	3.7	ND	ND
	12/18/2001	1.5	<0.5	<0.5	20	28	12	2.4	340	ND
	4/25/2002	<1	<1	<1	16	18	42	2.2	--	--
MW-2	3/23/1995	<1.2	<1.2	<1.2	60	46	2.5	<2.5	ND	ND
	12/17/2001	<0.5	<0.5	<0.5	12	0.99	<0.5	<0.5	--	--
	4/25/2002	<0.5	<0.5	<0.5	5.6	<0.5	<0.5	<0.5	--	--
MW-3	3/23/1995	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	ND
	12/17/2001	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
	4/25/2002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4	3/23/1995	<1.2	<1.2	<1.2	28	16	54	<2.5	ND	ND
	12/19/2001	<2.5	<2.5	<2.5	29	12	57	<2.5	--	--
	4/25/2002	<1	<1	<1	23	14	42	<1	--	--
MW-4D	4/25/2002	<1	<1	<1	24	14	44	<1	--	--
FB-GW	12/19/2001	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
TRIP BLANK	4/25/2002	<1	<1	<1	<1	<1	<1	<1	--	--
Indoor Air Cancer-Based RBSL	2001	2.24E+04	4.70E+04	NC*	NC	NC	1.28E+04	1.17E+02	NV	NV
Indoor Air Noncancer-Based RBSL	2001	1.54E+06	NA	NA	1.29E+05	1.50E+05	NA	NA	NV	NV

Notes

- All results are reported in micrograms per liter (µg/L)
- < 0.5 and ND = Not detected at or above the indicated laboratory reporting limit
- ND indicates detection above laboratory reporting limit
- RMW-1GWDUP = Duplicate Groundwater Sample from RMW-1
- MW-4D = Duplicate Groundwater Sample from MW-4
- VOCs = Volatile Organic Compounds
- DCA = Dichloroethane
- DCE = Dichloroethene
- TCE = Trichloroethene
- PAH = Polycyclic Aromatic Hydrocarbons
- PAHs determined by EPA method 8270 by Treadwell & Rollo for 2001 sampling event
- NA = not applicable
- NC = noncarcinogen
- NV = not volatile
- RBSL = Residential Scenario Risk-Based Screening Level for Fine-Grained Soil (RWQCB 2001)
- * 1,1-DCE is classified by the U.S.E.P.A. as a Class C carcinogen. According to S. DiZio of the California Department of Toxic Substances (DTSC), the State of California, Department of Health Services Office of Drinking Water regulates 1,1-DCE as a non-carcinogen for setting the Maximum Contaminant Level (MCL). Therefore, 1,1-DCE was evaluated as a non-carcinogen.
- Treadwell & Rollo data was collected on 18 and 19 December 2001
- Source: Final Site Investigation Report for the 64th and 65th Street Properties, Emeryville, California, EKI, 5 September 1995