OWENS-BROCKWAY
GLASS CONTAINERS
a unit of Owens-Illinois

Recd B Chan
4/30/01
866

April 27, 2001

Mr. Barney M. Chan
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Monitoring Report for MW-20
Owens-Brockway Glass Plant - Oakland

Dear Mr. Chan:

The attached report includes a second set of data from monitoring well #20. MTBE was analyzed and found to be below the detection level. Use of Soakease pads to remove small amounts of free product from seven specified wells continues.

If you have questions regarding the report or our product recovery efforts, please give me or Steve Springer a call at 510-436-2174 or 510-436-2183 respectively.

Sincerely,

Robert C. Neal

Robert C. Neal, P.E.
Environmental Administrator

cc: Mark Tussing
Jerry Jamar
Steve Springer
Meredith Durant - Kennedy/Jenks

Kennedy/Jenks Consultants

Engineers & Scientists

622 Folsom Street
San Francisco, California 94107
415-243-2150
FAX 415-896-0999

24 April 2001

Mr. Robert Neal
Environmental Manager
Owens Brockway
3600 Alameda Avenue
Oakland, CA 94601

Subject: Groundwater Monitoring Data from Well MW-20
Owens Brockway, 3600 Alameda Avenue, Oakland, California
K/J 950007.30

Dear Bob:

In response to your request, Kennedy/Jenks measured the water level elevation and collected a groundwater sample from the recently installed Monitoring Well MW-20 at the Owens Brockway facility located at 3600 Alameda Avenue in Oakland. The sampling event was performed on 6 April 2001.

The samples were collected using a new disposable bailer. Three well volumes were purged from the well prior to collecting the groundwater sample. Purge water from the sampling event was discharged to the onsite oil/water separator. A copy of the purge and sample form is attached.

The sample was submitted under chain-of-custody to Chromalab in Pleasanton for analysis. The sample was analyzed for purgeable and extractable total petroleum hydrocarbons using EPA Method 8015 and for BTEX and MTBE using EPA Method 8020.

The analytical results are presented in the attached table, which also includes historical results from sampling of the onsite groundwater monitoring wells. MTBE was not detected above the analytical reporting limit of 5.0 µg/l. No analytes were detected in the trip blank or method blank. Copies of the analytical data reports are attached.

Monitoring Well MW-20 was constructed and initially sampled in December 2000. The analytical results from this second sampling event are consistent with those from the initial event.

If you have any questions regarding this sampling event, or the analytical results, please call me at (415) 243-2534.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

Meredith G. Durant

Meredith G. Durant, P.E.
Project Manager

Enclosure

g:\is-group\admin\job\95\950007.30\ltrs\resultltr.doc

Table 1: Summary of Groundwater Analytical Results

Well Number	Date Sampled	TPPH [a] (µg/l) [h]	TEPH [b] (mg/l)	O&G [c] (mg/l)	B [d] (µg/l)	T [e] (µg/l)	E [f] (µg/l)	X [g] (µg/l)
MW-1	9/23/86	<0.01 [i]	NA [j]	25	<10	<10	NA	<10
	4/9/87	BDL [k]	NA	NA	BDL	BDL	NA	BDL
	9/16/87 [l]	–	–	–	–	–	–	–
	12/1/87 [l]	–	–	–	–	–	–	–
	3/7/88 [l]	–	–	–	–	–	–	–
	6/8/88 [l]	–	–	–	–	–	–	–
	9/14/88 [l]	–	–	–	–	–	–	–
	9/16/97	<50	0.190	<0.300	<0.5	<0.5	<0.5	<0.5
	11/2/98	<50	0.160	NA	<0.5	<0.5	<0.5	<0.5
MW-2	4/9/87 [m]	–	–	–	–	–	–	–
	9/16/87 [m]	–	–	–	–	–	–	–
	12/1/87 [m]	–	–	–	–	–	–	–
	3/7/88 [l]	–	–	–	–	–	–	–
	6/8/88 [l]	–	–	–	–	–	–	–
	9/14/88 [l]	–	–	–	–	–	–	–
	9/16/97 [m]	–	–	–	–	–	–	–
	11/2/98 [m]	–	–	–	–	–	–	–
MW-3 [n]	9/23/86	<10	NA	18	<10	<10	NA	<10
	4/9/87	370	NA	NA	BDL	BDL	NA	BDL
	9/16/87 [m]	–	–	–	–	–	–	–
	12/1/87 [m]	–	–	–	–	–	–	–
	3/7/88	NA	190	NA	NA	NA	NA	NA
	6/9/88	NA	16	NA	NA	NA	NA	NA
	9/14/88 [m]	–	–	–	–	–	–	–
MW-4	10/3/86	20	NA	7.2	<5	<5	NA	<5
	4/9/87	BDL	NA	NA	BDL	BDL	NA	BDL
	9/16/87	1.3	0.66	NA	BDL	BDL	NA	BDL
	12/1/87	BDL	0.100	NA	BDL	BDL	NA	8.9
	3/7/88	BDL	BDL	NA	BDL	BDL	NA	BDL
	6/8/88	BDL	BDL	NA	BDL	BDL	NA	BDL
	9/14/88	BDL	0.100	NA	BDL	BDL	NA	BDL
MW-5	10/3/86	1,400	NA	24	<5	<5	NA	6.6
	4/9/87	54	NA	NA	BDL	BDL	NA	BDL
	9/16/87	NA	96	NA	NA	NA	NA	NA
	12/1/87	NA	2	NA	NA	NA	NA	NA
	3/9/88	NA	BDL	NA	NA	NA	NA	NA
	6/9/88	NA	12	NA	NA	NA	NA	NA
	9/14/88	NA	6.3	NA	NA	NA	NA	NA
	9/16/97	<50	7.5	4.1	<0.5	<0.5	<0.5	<0.5
	11/2/98 [m]	–	–	–	–	–	–	–
	12/6/00	1,000	7.7	NA	<0.5	<0.5	<0.5	<0.5

Table 1: Summary of Groundwater Analytical Results

Well Number	Date Sampled	TPPH [a] (µg/l) [h]	TEPH [b] (mg/l)	O&G [c] (mg/l)	B [d] (µg/l)	T [e] (µg/l)	E [f] (µg/l)	X [g] (µg/l)
MW-6	4/9/87[m]	–	–	–	–	–	–	–
	9/16/87	NA	400	NA	NA	NA	NA	NA
	12/1/87	NA	30	NA	NA	NA	NA	NA
	3/9/88	NA	9.8	NA	NA	NA	NA	NA
	6/9/88	NA	63	NA	NA	NA	NA	NA
	9/14/88	NA	140	NA	NA	NA	NA	NA
	9/16/97[m]	–	–	–	–	–	–	–
	11/2/98 [m]	–	–	–	–	–	–	–
MW-7	10/3/86	260	NA	8	<5	<5	NA	<5
	4/9/87[m]	–	–	–	–	–	–	–
	9/16/87	NA	790	NA	NA	NA	NA	NA
	12/1/87	NA	5.3	NA	NA	NA	NA	NA
	3/9/88	NA	BDL	NA	NA	NA	NA	NA
	6/9/88	NA	12	NA	NA	NA	NA	NA
	9/14/88	NA	67	NA	NA	NA	NA	NA
	9/16/97	850	26	11	<0.5	<0.5	<0.5	<0.5
	11/2/98 [m]	–	–	–	–	–	–	–
	12/6/00	540	2.6	NA	<0.5	<0.5	<0.5	1.9
MW-8	10/23/86	1,300	NA	14	<0.2	<0.2	NA	<1
	4/9/87	73	NA	NA	BDL	BDL	NA	BDL
	9/16/87[m]	–	–	–	–	–	–	–
	12/1/87	NA	0.630	NA	NA	NA	NA	NA
	3/9/88	NA	2.6	NA	NA	NA	NA	NA
	6/9/88	NA	1.7	NA	NA	NA	NA	NA
	9/14/88	NA	0.150	NA	NA	NA	NA	NA
	8/12/97[m]	–	–	–	–	–	–	–
	9/16/97	<50	0.29	<0.300	<0.5	<0.5	<0.5	<0.5
	11/2/98	<50	1.3	NA	<0.5	<0.5	<0.5	<0.5
	12/6/00	<50	0.160	NA	<0.5	<0.5	<0.5	<0.5
MW-9	4/9/87[m]	–	–	–	–	–	–	–
	9/16/87	NA	1.3	NA	NA	NA	NA	NA
	12/1/87	NA	18	NA	NA	NA	NA	NA
	3/9/88	NA	47	NA	NA	NA	NA	NA
	6/8/88[m]	–	–	–	–	–	–	–
	9/14/88[m]	–	–	–	–	–	–	–
	9/16/97	6,000	19	9	<13	<13	<13	18
	11/2/98 [m]	–	–	–	–	–	–	–
	12/6/00	790	69	NA	<0.5	<0.5	<0.5	<0.5
MW-10	10/23/86	380	NA	7.2	<0.2	<0.2	NA	<0.2
	4/9/87	300	NA	NA	BDL	BDL	NA	BDL
	9/16/87	NA	3.8	NA	NA	NA	NA	NA
	12/1/87	NA	0.59	NA	NA	NA	NA	NA
	3/8/88	NA	BDL	NA	NA	NA	NA	NA
	6/8/88	NA	3.8	NA	NA	NA	NA	NA
	9/14/88	NA	0.570	NA	NA	NA	NA	NA

Table 1: Summary of Groundwater Analytical Results

Well Number	Date Sampled	TPPH [a] (µg/l) [h]	TEPH [b] (mg/l)	O&G [c] (mg/l)	B [d] (µg/l)	T [e] (µg/l)	E [f] (µg/l)	X [g] (µg/l)
MW-10	9/16/97	<50	1.3	<0.300	<0.5	<0.5	<0.5	<0.5
Cont'd	11/2/98	<50	1.4	NA	<0.5	<0.5	<0.5	<0.5
	12/6/00	150	0.730	NA	<0.5	<0.5	<0.5	0.70
	12/6/00 (dup)	160	0.810	NA	<0.5	<0.5	<0.5	0.71
MW-11	12/5/86	<8	NA	1.2	<0.4	<0.4	NA	1.4
	4/9/87	BDL	NA	NA	BDL	BDL	NA	BDL
	9/16/87	BDL	NA	NA	BDL	BDL	NA	BDL
	12/1/87	BDL	NA	NA	0.8	BDL	NA	10
	3/7/88	BDL	BDL	NA	BDL	BDL	NA	BDL
	6/8/88	BDL	BDL	NA	BDL	BDL	NA	BDL
	9/14/88	BDL	100	NA	BDL	BDL	NA	BDL
MW-12	12/5/86	100	NA	2.5	0.49	1	NA	1.3
	4/9/87	BDL	NA	NA	BDL	BDL	NA	BDL
	9/16/87	BDL	NA	NA	BDL	BDL	NA	BDL
	12/1/87	BDL	NA	NA	BDL	BDL	NA	13
	3/7/88	BDL	BDL	NA	BDL	BDL	NA	BDL
	6/8/88	BDL	BDL	NA	BDL	BDL	NA	BDL
	9/14/88	BDL	0.120	NA	BDL	BDL	NA	BDL
MW-13	12/24/86	<10	NA	57	<0.2	<0.9	NA	<0.9
	4/9/87	BDL	NA	NA	BDL	BDL	NA	BDL
	9/16/87	BDL	NA	NA	BDL	BDL	NA	BDL
	12/1/87	BDL	NA	NA	1.6	BDL	NA	12
	3/8/88	7.7	BDL	NA	BDL	BDL	NA	BDL
	6/8/88	BDL	BDL	NA	BDL	BDL	NA	BDL
	9/14/88	BDL	0.130	NA	BDL	BDL	NA	BDL
	9/16/97	<50	0.120	<0.300	<0.5	<0.5	<0.5	<0.5
	11/2/98	<50	0.120	NA	<0.5	<0.5	<0.5	<0.5
	12/6/00	<50	0.200	NA	<0.5	<0.5	<0.5	<0.5
MW-14[n]	12/5/86 [o]	<8	NA	3.2	<0.4	<0.2	NA	<0.2
	4/9/87	BDL	NA	NA	BDL	BDL	NA	BDL
	9/16/87	1.7	0.056	NA	BDL	BDL	NA	BDL
	12/1/87	BDL	0.066	NA	1.2	4	NA	10
	3/7/88	20	BDL	NA	BDL	BDL	NA	BDL
	6/8/88[l]	–	–	–	–	–	–	–
	9/14/88[l]	–	–	–	–	–	–	–
MW-15	12/24/86	120	NA	1.6	<0.2	<0.9	NA	9.2
	4/9/87	BDL	NA	NA	BDL	BDL	NA	BDL
	9/16/87	8.4	BDL	NA	BDL	BDL	NA	BDL
	12/1/87	BDL	NA	NA	3.3	0.84	NA	14
	3/8/88	90	BDL	NA	0.8	BDL	NA	BDL
	6/9/88	53	BDL	NA	BDL	BDL	NA	BDL
	9/14/88	NA	0.100	NA	NA	NA	NA	NA
	9/16/97	<50	0.890	0.380	<0.5	<0.5	<0.5	<0.5
	11/2/98	<50	0.340	NA	<0.5	<0.5	<0.5	<0.5
	12/6/00	<50	0.400	NA	<0.5	<0.5	<0.5	<0.5

Table 1: Summary of Groundwater Analytical Results

Well Number	Date Sampled	TPPH [a] (µg/l) [h]	TEPH [b] (mg/l)	O&G [c] (mg/l)	B [d] (µg/l)	T [e] (µg/l)	E [f] (µg/l)	X [g] (µg/l)
MW-16	12/24/86	<10	NA	1.2	<0.2	<0.9	NA	<0.9
	4/9/87	BDL	NA	NA	BDL	BDL	NA	BDL
	9/16/87	BDL	0.064	NA	BDL	BDL	NA	BDL
	12/1/87	120	0.150	NA	1	0.37	NA	9.1
	3/7/88	10	BDL	NA	0.5	BDL	NA	BDL
	6/8/88	BDL	BDL	NA	BDL	BDL	NA	BDL
	9/14/88	BDL	0.190	NA	BDL	BDL	NA	BDL
	9/16/97[m]	–	–	–	–	–	–	–
	12/6/00	<50	0.097	NA	<0.5	<0.5	<0.5	<0.5
MW-17	12/24/86	240	NA	2.4	5	1.2	NA	14
	4/9/87	BDL	NA	NA	BDL	BDL	NA	BDL
	9/16/87	44	0.680	NA	BDL	BDL	NA	0.55
	12/1/87	540	1.3	NA	7.8	2.4	NA	28
	3/8/88	4,300	3.8	NA	83	BDL	NA	46
	6/8/88[l]	–	–	–	–	–	–	–
	9/14/88	54,000	64	NA	BDL	BDL	NA	BDL
	9/16/97	1,900	110	9.6	<0.5	<0.5	<0.5	<0.5
	11/2/98	<50	16	NA	<0.5	<0.5	<0.5	0.6
	12/6/00[p]	340	42	NA	<0.5	<0.5	<0.5	<0.5
MW-18[n]	12/24/86	<20	NA	1.6	<0.3	<0.3	NA	0.99
	4/9/87	BDL	NA	NA	BDL	BDL	NA	BDL
	9/16/87	BDL	0.480	NA	BDL	BDL	NA	BDL
	12/1/87	BDL	0.18	NA	BDL	BDL	NA	6.6
	3/7/88	BDL	BDL	NA	BDL	BDL	NA	BDL
	6/8/88	BDL	BDL	NA	BDL	BDL	NA	BDL
	9/14/88	BDL	0.190	NA	BDL	BDL	NA	BDL
MW-20	12/11/00	<50	0.110	NA	<0.5	<0.5	<0.5	<0.5
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 1: Summary of Groundwater Analytical Results

(a) TPPH = total purgeable petroleum hydrocarbons using EPA Method 8015 modified.
(b) TEPH = total extractable petroleum hydrocarbons using EPA Method 8015 modified. Value listed for samples collected in December 2000 is value reported by lab as TPH diesel. Sample chromatographic patterns did not match lab standard for diesel.
(c) O&G = total oil and grease.
(d) B = benzene using EPA Method 8020
(e) T = toluene using EPA Method 8020
(f) E = ethylbenzene using EPA Method 8020
(g) X = total xylenes using EPA Method 8020
(h) (µg/l) = micrograms per liter; (mg/l) = milligrams per liter
(i) < = analyte not present in the sample at or above the indicated detection limit
(j) NA = not analyzed
(k) BDL = below detection limit; actual limit not available for compilation of this table.
(l) Not sampled; well inaccessible.
(m) Not sampled; separate-phase petroleum product present.
(n) Well destroyed.
(o) Other volatile organic compounds were detected in the 12/5/86 sample collected from Well MW-14 using EPA Method 8010 (the sum of 1,1,2,2-tetrachloroethane, 1,1,1,2-tetrachloroethane and perchloroethene was 190 µg/l).
(p) Sample collected from MW-17 on 12/6/00 was also analyzed for MtBE. MtBE was not detected, with a detection limit of 25 µg/l (raised due to interference from non-target compounds).
(q) Sample collected from MW-20 on 4/6/01 was also analyzed for MtBE. MtBE was not detected, with a detection limit of 5 µg/l.

Analytical Data Report &
Chain-of-Custody Form

Kennedy/Jenks-San Francisco
622 Folsom Street
San Francisco, CA 94107-1366

Attn.: Ms. Meredith Durant

Project: 950007.30
Owens Brockway

Dear Meredith,

Attached is our report for your samples received on Friday April 6, 2001
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after May 21, 2001 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919. You can also contact me via email. My email address is: gcook@chromalab.com

Sincerely,

Gary Cook

Gary Cook

Gas/BTEX and MTBE

Kennedy/Jenks-San Francisco

622 Folsom Street
San Francisco, CA 94107-1366

Attn: Meredith Durant

Phone: (415) 243-2534 Fax: (415) 896-0999

Project #: 950007.30

Project: Owens Brockway

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-20	Water	04/06/2001 09:15	1
TRIP BLANK	Water	04/06/2001	2

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-20**	Lab Sample ID:	**2001-04-0171-001**
Project:	950007.30 Owens Brockway	Received:	04/06/2001 18:38
		Extracted:	04/10/2001 11:44
Sampled:	04/06/2001 09:15	QC-Batch:	2001/04/10-01.03
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/10/2001 11:44	
Benzene	ND	0.50	ug/L	1.00	04/10/2001 11:44	
Toluene	ND	0.50	ug/L	1.00	04/10/2001 11:44	
Ethyl benzene	ND	0.50	ug/L	1.00	04/10/2001 11:44	
Xylene(s)	ND	0.50	ug/L	1.00	04/10/2001 11:44	
MTBE	ND	5.0	ug/L	1.00	04/10/2001 11:44	
Surrogate(s)						
4-Bromofluorobenzene	110.1	50-150	%	1.00	04/10/2001 11:44	
4-Bromofluorobenzene-FID	94.2	50-150	%	1.00	04/10/2001 11:44	

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**TRIP BLANK**	Lab Sample ID:	**2001-04-0171-002**
Project:	950007.30 Owens Brockway	Received:	04/06/2001 18:38
		Extracted:	04/10/2001 16:00
Sampled:	04/06/2001	QC-Batch:	2001/04/10-01.03
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/10/2001 16:00	
Benzene	ND	0.50	ug/L	1.00	04/10/2001 16:00	
Toluene	ND	0.50	ug/L	1.00	04/10/2001 16:00	
Ethyl benzene	ND	0.50	ug/L	1.00	04/10/2001 16:00	
Xylene(s)	ND	0.50	ug/L	1.00	04/10/2001 16:00	
MTBE	ND	5.0	ug/L	1.00	04/10/2001 16:00	
Surrogate(s)						
Trifluorotoluene	117.1	58-124	%	1.00	04/10/2001 16:00	
4-Bromofluorobenzene-FID	80.8	50-150	%	1.00	04/10/2001 16:00	

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2001/04/10-01.03**

MB: 2001/04/10-01.03-008

Date Extracted: 04/10/2001 11:05

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	04/10/2001 11:05	
Benzene	ND	0.5	ug/L	04/10/2001 11:05	
Toluene	ND	0.5	ug/L	04/10/2001 11:05	
Ethyl benzene	ND	0.5	ug/L	04/10/2001 11:05	
Xylene(s)	ND	0.5	ug/L	04/10/2001 11:05	
MTBE	ND	5.0	ug/L	04/10/2001 11:05	
Surrogate(s)					
Trifluorotoluene	123.6	58-124	%	04/10/2001 11:05	
4-Bromofluorobenzene-FID	94.8	50-150	%	04/10/2001 11:05	

To: **Kennedy/Jenks-San Francisco**
Attn: Meredith Durant

Test Method: 8020
Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/04/10-01.03**

LCS: 2001/04/10-01.03-004 Extracted: 04/10/2001 09:02 Analyzed 04/10/2001 09:02
LCSD: 2001/04/10-01.03-005 Extracted: 04/10/2001 09:33 Analyzed 04/10/2001 09:33

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	93.9	96.6	100.0	100.0	93.9	96.6	2.8	77-123	20		
Toluene	92.6	95.6	100.0	100.0	92.6	95.6	3.2	78-122	20		
Ethyl benzene	92.8	96.3	100.0	100.0	92.8	96.3	3.7	70-130	20		
Xylene(s)	276	290	300	300	92.0	96.7	5.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	464	481	500	500	92.8	96.2		58-124			

To: **Kennedy/Jenks-San Francisco**

Attn: Meredith Durant

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/04/10-01.03**

LCS: 2001/04/10-01.03-006 Extracted: 04/10/2001 10:04 Analyzed 04/10/2001 10:04

LCSD: 2001/04/10-01.03-007 Extracted: 04/10/2001 10:34 Analyzed 04/10/2001 10:34

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	496	522	500	500	99.2	104.4	5.1	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-FI	446	453	500	500	89.2	90.6		50-150			

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco

622 Folsom Street
San Francisco, CA 94107-1366

Attn: Meredith Durant

Phone: (415) 243-2534 Fax: (415) 896-0999

Project #: 950007.30

Project: Owens Brockway

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-20	Water	04/06/2001 09:15	1

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**MW-20**	Lab Sample ID:	**2001-04-0171-001**
Project:	950007.30 Owens Brockway	Received:	04/06/2001 18:38
		Extracted:	04/10/2001 08:41
Sampled:	04/06/2001 09:15	QC-Batch:	2001/04/10-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	57	50	ug/L	1.00	04/10/2001 19:30	ldr
Motor Oil	ND	500	ug/L	1.00	04/10/2001 19:30	
Surrogate(s)						
o-Terphenyl	92.5	60-130	%	1.00	04/10/2001 19:30	

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report
Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank **Water** **QC Batch # 2001/04/10-01.10**

MB: 2001/04/10-01.10-001 Date Extracted: 04/10/2001 08:41

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	04/10/2001 16:29	
Motor Oil	ND	500	ug/L	04/10/2001 16:29	
Surrogate(s)					
o-Terphenyl	91.5	60-130	%	04/10/2001 16:29	

To: **Kennedy/Jenks-San Francisco**
Attn: Meredith Durant

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/04/10-01.10**

LCS: 2001/04/10-01.10-002 Extracted: 04/10/2001 08:41 Analyzed 04/10/2001 15:10
LCSD: 2001/04/10-01.10-003 Extracted: 04/10/2001 08:41 Analyzed 04/10/2001 15:49

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1120	1100	1250	1250	89.6	88.0	1.8	60-130	25		
Surrogate(s)											
o-Terphenyl	19.1	18.0	20.0	20.0	95.5	90.0		60-130			

To: **Kennedy/Jenks-San Francisco**
Attn: Meredith Durant

Test Method: 8015M
Prep Method: 3510/8015M

Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte Flags

ldr

Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard

58509

Kennedy/Jenks Consultants **2001-04-0171**

Sample Chain-Of-Custody Analysis Request

☐ 200 New Stine Road, #115, Bakersfield, CA 93309
☐ 530 South 336th Street, Federal Way, WA 98003
☐ 2151 Michelson Drive, #100, Irvine, CA 92612-1311
☐ 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
☐ 2828 SW Naito Parkway, #350, Portland, OR 97201
☐ 5190 Neil Road, #300, Reno, NV 89502
☐ 3336 Bradshaw Road, #140, Sacramento, CA 95827
☐ 822 Folsom St., San Francisco, CA 94107
☐ 1000 Hill Road, #200, Ventura, CA 93003

POSSIBLE HAZARDS: Analytes

Date 4/6/01

Source of Samples Owens Brockway

Sampler Name M McKeel / J. Farrell

Phone 415 243 2508

Project No. 950007.30

Report To Meredith Durant

Company Kennedy / Jenks Consultants

Address 622 Folsom Street
San Francisco CA 94107

Phone 415 243 2534

Lab Destination Chroma Lab

Address 1220 Quarry Ln
Pleasanton CA

Phone 925-484-1919

Carrier/Way Bill No. n/a

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: EPA 8020 & 8015 BTEX	EPA 8015 TEPH	EPA 8015 TPHg						Comment/Conditions (Container type, container number, etc.)
	MW-20	4/6	0915	W	n/a	No	HCl	Standard	X	X	X						
	Trip Blank	4/6		W			HCl	Standard	X		X						~~Soil~~

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

4.1 °C

SAMPLE RELINQUISHED BY:

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
Mike McKeel		K/J	4/6	1330			STL-CL	4/6/01	1334
		STL-CL	4/6/01	1838	Denise Harrington	D. Harrington	STL-CL	4/6/01	1838

g:\js-group\admin\guides\forms\paper\custody2.frm

Groundwater Purge and Sample Form Date: 2/16/01 **Kennedy/Jenks Consultants**

PROJECT NAME: Owens Brockway WELL NUMBER: MW-20

PROJECT NUMBER: 95000730 PERSONNEL: Fuhrman/Mcleod

STATIC WATER LEVEL (FT): 8.82 MEASURING POINT DESCRIPTION: TOC

WATER LEVEL MEASUREMENT METHOD: Solinist PURGE METHOD: Disposable Bailer

TIME START PURGE: 0850 PURGE DEPTH (FT) 22

TIME END PURGE: 0902

TIME SAMPLED: 0915

COMMENTS: M. Mcleod calibrated pH Meter; read 7.05 and 10.09 on soln

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			=	CASING VOLUME (GAL)
							(2)	4	6		
	22		8.82		13.2		0.16	0.64	1.44		2 IN = 6

TIME	0850	0852	0855	0902			
VOLUME PURGED (GAL)	~~10~~ 0.5	2	4	6			
PURGE RATE (GPM)							
TEMPERATURE (~~°C~~) °F	58.5	59.9	59.7	59.5			
pH	8.11	7.77	7.50	7.58			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1,230	1,220	1,200	1,180			
DISSOLVED OXYGEN (mg/L)	NM	→	→	→			
eH(MV)Pt-AgCl ref.	NM	→	→	→			
TURBIDITY/COLOR	sl. cloudy	→	→	→			
ODOR	No	→	→	→			
DEPTH OF PURGE INTAKE (FT)	22	→	→	→			
DEPTH TO WATER DURING PURGE (FT)	NM	→	→	→			
NUMBER OF CASING VOLUMES REMOVED		1	2	3			
DEWATERED?	No	→	→	→			

Groundwater Purge and Samp Form Date: 4/6/01 **nnedy/Jenks Consultants**

PROJECT NAME: D/B WELL NUMBER: MW-20

PROJECT NUMBER: 45000 7.00 PERSONNEL: MM/DF

SAMPLE DATA:

TIME SAMPLED: 0915 COMMENTS:

DEPTH SAMPLED (FT): 22

SAMPLING EQUIPMENT: Disp. Bail

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
MW-20	4	40-ml	HCl	NO	160	sl	br	Y	8020, 8015	
MW-20	2	1-L	NO	"	2 L	"	"	Y	8015	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 6 COMMENTS:

DISPOSAL METHOD: D/W Sep - drum

DRUM DESIGNATION(S)/VOLUME PER (GAL):

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS: NO

GENERAL:

WEATHER CONDITIONS: Rain

TEMPERATURE (SPECIFY °C OR (°F)): ~60

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager:
Job File:
Other: