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March 3, 2014

Mr. Jerry Wickham Alameda County Health Care Services Environmental Health Services 1131 Harbor Bay Parkway Alameda, CA 94502-6577

Subject: RO0000289 2014 ANNUAL GROUNDWATER MONITORING REPORT, OWENS-BROCKWAY GLASS CONTAINER FACILITY. 3600 ALAMEDA AVENUE, OAKLAND, CALIFORNIA.

Dear Mr. Wickham:

Owens-Brockway Glass Container Corporation is pleased to submit the attached 2014 Annual Groundwater Monitoring Report for the above site.

I declare under penalty of perjury that the information and recommendations contained in the attached report are true and correct to the best of my knowledge.

If you need further information feel free to call me at (567) 336-8682.

Mark Tussing Legislative and Technical Manager

2014 GROUNDWATER MONITORING REPORT

OWENS-BROCKWAY GLASS CONTAINER FACILITY OAKLAND, CALIFORNIA



A Report Prepared for:

Mr. Mark Tussing **Environmental Affairs** One Michael Owens Way Perrysburg, OH 43551-2999

2014 GROUNDWATER MONITORING REPORT

OWENS-BROCKWAY GLASS CONTAINER FACILITY, OAKLAND, CALIFORNIA

February 28, 2014

Prepared by:

Vo. 5077 xpires 5/14

Christina J. Kennedy R.G.

Principal

CKG Environmental, Inc. P.O. Box 246 St. Helena, California 94574 (707) 967-8080

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The Owens-Brockway glass manufacturing facility is located at 3600 Alameda Avenue in Oakland, California. The site is located to the north of the Oakland Estuary with Fruitvale Avenue to the west, a Home Depot to the east and residences to the north. Onsite facilities include the operating glass manufacturing plant, warehouses, offices and two former underground fuel storage tank areas.

Two underground fuel storage tank (UST) areas existed at the Oakland plant. The first UST area was located on the west side of the plant and included three fuel oil USTs. Impacts by fuel oil to the subsurface were observed when the associated USTs were removed. The second UST area was located near the central part of the plant adjacent to the compressor building. Originally there were four USTs in this area. When they were removed and replaced by two new USTs, a gasoline release to the subsurface was observed.

CKG compiled all the historic data for the site and completed a Cone Penetration Test (CPT) subsurface investigation and installed one offsite monitoring well. This data was used to refine our understanding of the distribution of petroleum hydrocarbons at the site and to evaluate the UST releases with respect to potential closure. A round of groundwater monitoring also was completed to comply with regulatory requirements and to evaluate the existence and distribution of the various types of petroleum hydrocarbons potentially present on and off site. In August 2009 a subsurface investigation was completed to address data gaps identified in a Site Conceptual Model (SCM) prepared in April 2009. The subsurface investigation and groundwater monitoring, and a review of historic data, shows that the petroleum hydrocarbon plumes are stable and have attenuated substantially over time. The fuel oil release appears to extend off site.

Based on the SCM a Feasibility Study dated August 27, 2010 was completed. The recommended remediation option was targeted excavations at fuel source areas with chemical oxidant placed in the excavations before backfilling. The targeted excavation program was partially implemented in summer of 2011. The full program could not be completed due to logistical issues associated with working at an operating plant. CKG recommends that Owens-Brockway submit this report to the Alameda County Health Agency.

The following report presents the results and conclusions of the annual of groundwater monitoring in 2014. The work was performed in general accordance with CKG's proposal dated November 15, 2002 with slight modifications as discussed below.

2.1 SITE DESCRIPTION

The Owens-Brockway glass manufacturing facility is located at 3600 Alameda Avenue in Oakland, California, (Plate 1). The site is located to the north of the Oakland Estuary with Fruitvale Avenue to the west, a former retail center to the east and residences to the north. Onsite facilities include the operating glass manufacturing plant, warehouses, offices and two former underground fuel storage tank areas, (Plate 2).

Western UST Area

One UST site was located on the west side of the plant and included three former USTs, which were used to contain fuel oil. At the time these USTs were removed it was discovered that fuel oil had been released to the subsurface. Owens-Brockway excavated impacted soil at the time the USTs were removed. Floating product associated with the fuel oil release exists and past efforts to remove it have been unsuccessful. This lack of success is mainly due to the clay rich nature of the subsurface and the viscosity of the product. Groundwater monitoring has been ongoing sporadically for the last 17 years. A Geoprobe[™] investigation completed in 1999 by Kennedy/Jenks Consultants included collecting groundwater samples from five locations off-site in the downgradient direction. Three of these samples were found to contain petroleum hydrocarbons. This petroleum hydrocarbon was identified to be Stoddard solvent, not fuel oil.

Central UST Area

The second UST area was located near the central part of the plant adjacent to the compressor building. Originally there were four USTs in the area. When they were removed and replaced by two new USTs a gasoline release to the subsurface was observed. Owens-Brockway excavated impacted soil at the time the USTs were removed. Groundwater monitoring has shown that the gasoline release has attenuated naturally.

3.1 GROUNDWATER GRADIENT

Depth to groundwater measurements were made on January January 24, 2014, before the monitoring wells were sampled. Depth to static ground water was measured from a marked location at the top of the PVC casing. The depth of water was then subtracted from the elevation of the top of the well casing to provide a ground water elevation for each monitoring well. Plate 2 shows groundwater elevations and the interpreted groundwater flow direction. Based on the data measured on January 14, 2014 the groundwater flow direction is generally to the south-southwest. The groundwater elevation at MW-8 appears to be anomalously low. It is not clear if this is a measurement error but the overall groundwater flow direction is still to the south-southwest. This groundwater flow direction has been observed in past monitoring events. Monitoring well construction details are presented in Table 1. Depth to water measurements and groundwater elevations are summarized in Table 2. Well sampling and purge logs are contained in Appendix A.

3.2 WELL SAMPLING

On January 24, 2014 a round of groundwater sampling in the monitoring wells was performed. Floating product was not observed in any of the wells sampled. Absorbent socks are deployed in MW-5, MW-6, MW-7, MW-13, MW-15, MW-16, MW-17 and MW-20. All socks were replaced Staining was observed in the old socks from MW-5, MW-5, MW-7. MW-15 and MW-17 suggesting that there was free product in these wells.. MW-1 was buried under cullet (waste glass) so it could not be accessed. MW-9, which is located in the middle of the loading ramp, could not be safely accessed.

The wells were sampled using the following protocol.

- The depth-to-water was measured using a conductivity-based water level indicator.
- The volume of water standing in each well was calculated by subtracting the depth-to-water measurement from the total depth of the well, and multiplying by the appropriate volume conversion factor.

- A minimum of three well volumes of water was purged from each well using a centrifugal pump. A total of 10 purge volumes was removed from MW-13. The pump was decontaminated prior to use in each well by washing with TSP and rinsing with distilled water. Fresh tubing was used for each well
- Physical parameters of pH and temperature were monitored for stability during purging.
- Sample bottles, provided by the analytical laboratory were filled from a new clean disposable bailer at each well.
- Samples were immediately labeled and placed in an iced sample container. The samples were picked up by the analytical laboratory, under chain-of-custody control the following day.

3.3 CHEMICAL ANALYSIS

Groundwater samples were submitted under chain-of-custody to McCampbell Analytical Laboratory in Pacheco, California. McCampbell is a laboratory certified with the California Department of Health Services under the California Environmental Laboratory Accreditation Program (ELAP) for the requested analyses. The analytical program was completed in general accordance with CKG's proposal dated November 15, 2002. The chemical analyses performed include the following:

- Total Petroleum Hydrocarbons quantified as diesel, (TPHd,) motor oil (TPHmo) and gasoline (TPHg) by Modified EPA Method 8015 and;
- Benzene, Toluene, Ethylbenzene, and xylenes, by EPA Method 8020

3.4 INVESTIGATION DERIVED WASTES (IDW)

Investigation derived wastes (IDW) were generated during the investigation and included purge water. Purge water was placed into the on-site oil/water separator system.

The following describes the results of the annual groundwater monitoring at the Owens-Brockway Glass Container facility in Oakland, California. Comparisons are made between the data and appropriate regulatory standards and risk based screening levels where they are available. Groundwater sample results are presented in Table 3. Analytical laboratory reports are included in Appendix B. Sample locations and pertinent data are presented on Plate 3.

4.1 SUMMARY OF GROUNDWATER RESULTS

4.1.1 Western UST Area (MW-1, MW-5, MW-6, MW-7, MW-8, MW-10, MW-19)

Petroleum hydrocarbons quantified as diesel/fuel oil, were detected in all of the water samples collected as summarized in Table 3, except for MW-20. Diesel concentrations are shown and contoured on Plate 3. TPHd concentrations detected in groundwater range from 110 to 180,000 μ g/l. Absorbent socks are installed in MW-5, MW-6, and MW-7. Although separate phase product was not measured in these wells they were stained when they were replaced indicating that separate phase product is present. Owens-Brockway regularly changes the socks. The estimated outline of the product plume is illustrated on Plate 3.

4.1.2 Central UST Area (MW-13, MW-15, MW- 16, MW17, MW-20)

Petroleum hydrocarbons quantified as gasoline, were detected in one water sample as summarized in Table 3. TPHg was detected in MW-17 at 370 μ g/l which is lower than that observed over the last few years, but likely reflects the high concentration of diesel present in the well as opposed to the presence of gasoline in the groundwater. TPH quantified as diesel and motor oil was detected in MW-17 at 59,000 μ g/l and 32,000 μ g/l respectively which are lower than that observed in 2013. An absorbent sock has been maintained in MW-17 since 2008.

Owens-Brockway had installed absorbent socks in MW-13, MW-15, and MW-20, as part of their general well maintenance. On January 24 the sock in MW-15 appeared to be stained but no separate phase product was measured in MW-15.

On the basis of the annual monitoring the following conclusions and recommendations can be made:

5.1 CONCLUSIONS

The recent groundwater monitoring, as well as a review of historic data, shows that the petroleum hydrocarbon plumes at the site are stable and have attenuated over time. The fuel oil release appears to extend off site.

5.2 **RECOMMENDATIONS**

CKG recommends that Owens-Brockway submit this report to the Alameda County Health Agency.

California Regional Water Quality Control Board – San Francisco Bay region, Order No 99-045, 1999

CKG Environmental, Inc. Groundwater Monitoring Reports, 2012 Report, April 30, 2013.
2012 Report, April 22, 2012.
2010 Report, January 20, 2011.
2009 Report, January 10, 2010.
2008 Report, January 8, 2009.
2007 Report, December 17, 2007.
2006 Report, January 12, 2007.
2005 Report, November 29, 2005.
2004 Report, April 29, 2004.

CKG Environmental, Inc. 2005, Work Plan to Prepare a Site Conceptual Model, Owens-Brockway Glass Container Facility, Oakland, California. April 6, 2005.

CKG Environmental, Inc. Summary of Remediation History and Groundwater Impact by Petroleum Hydrocarbons, Owens-Brockway Glass Container Facility, 3600 Alameda Avenue, Oakland, California. April 4, 2003.

CKG Environmental, Inc. Work Plan to Install One Monitoring Well and Assess the Distribution of Petroleum Hydrocarbons, Owens-Brockway Glass Container Facility, Oakland, California, April 22, 2003.

CKG Environmental, Inc. Data Compilation and Closure Report Underground Fuel Storage Tank Locations, Owens-Brockway Glass Container Facility, Oakland, California, November 4, 2003.

Exeltech, Soil and Groundwater Contamination Investigation for Owens-Illinois Glass Container Division, 3600 Alameda Avenue, Oakland, California, December 1986.

Exeltech, Soil and Groundwater Contamination Investigation for Owens-Illinois Glass Container Division, 3600 Alameda Avenue, Oakland, California, February 1987.

Kennedy/Jenks, Consultants. Groundwater investigation Report, Owens-Brockway Glass Containers, February 16, 1999.

Kennedy/Jenks, Consultants. Annual Groundwater Monitoring Report, Owens-Brockway Glass Containers, January 21, 2003.

CKG Environmental, Inc. prepared this report in accordance with generally accepted standards of care, which exist in Northern California at this time. It should be recognized that definition and evaluation of geologic and environmental conditions is a difficult and an inexact science.

Conclusions and recommendations presented in this report are based on the results of the scope of work presented in our proposal dated November 15, 2002. This scope of work includes groundwater sampling at total of 10 wells, and quantitative analysis of groundwater samples conducted by McCampbell Analytical. Only work described herein was performed. As such CKG cannot render opinions on issues not resulting directly from the work performed.

Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present. More extensive studies, including additional subsurface investigations, may be performed to reduce uncertainties. If the client wishes to reduce the uncertainties of this investigation, CKG should be notified for additional consultation. No warranty, expressed or implied, is made.

This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both onsite and offsite) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify CKG of such intended use. Based on the intended use of the report, CKG may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release CKG from any liability resulting from the use of this report by any unauthorized party.

TABLES

		Table 1 St	immary of	f Well Co	nstruction	Details	
Well	Date	Top of Casing	Top of	Screen	Well	Casing Diameter	
Number	Installed	Elelvation ^(a)	Screen ^(b)	Length	Depth ^(c)	(inches)	Comments
MW-1	9/12/1986	16.02	8	21	29	2	
MW-2	12-Sep-86	17.11	10	20	30	2	Destroyed
MW-3	12-Sep-86	15.46	10	20	39	2	Destroyed
MW-4	12-Sep-86	16.02	8.5	20	28.5	2	Destroyed
MW-5	12-Sep-86	16.19	8.5	20	28.5	2	
MW-6	12-Sep-86	17.48	12.5	16	28.5	2	
MW-7	12-Sep-86	16.11	12.5	11	23.5	2	
MW-8	12-Sep-86	16.57	15	13.5	28.5	2	
MW-9	12-Sep-86	7.33 ^(d)	5	10	20	2	
MW-10	12-Sep-86	15.96	10	15	25	2	
MW-11	12-Sep-86	13.99	10	20	30	2	
MW-12	12-Sep-86	13.83	11	15	26	2	
MW-13	12-Sep-86	13.98	9.5	15	24.5	2	
MW-14	12-Sep-86	14.78	10	15	25	2	Destroyed
MW-15	12-Sep-86	15.16	9.5	20	29.5	2	
MW-16	12-Sep-86	13.48	10	14.5	24.5	2	
MW-17	12-Sep-86	14.17	9.5	15	24.5	2	
MW-18	12-Sep-86	14.89	9	15	24	2	Destroyed
MW-19	01-May-03	NA	10	15	25	2	
MW-20	01-Dec-00	12.74	6.9	15	21.9	2	
R-1	1987	NM ^(e)	NA ^(f)	NA	24	36	Destroyed
R-2	1989	NM	NA	NA	NA	12	Destroyed

(a) Top of casing elevation (TOCE) except where noted; measured in feet above US Coast and Geodetic Datum (mean sea level). Elevations measured by Exceltech in 1986, and by PLS Surveys for MW-20 in 2000.

- (b) Depth to top of screened interval (feet below top of casing)
- (c) Depth to bottom of screened interval (feet below top of casing)

(d) Well casing was not measured for this well; well is located beneath forklift ramp and this measurement is the ground surface elevation in MSL.

(e) NM = Not measured

(f) NA = Not available

Table 2 Groundwater Depths and Elevation January 24, 2014

		Top of Casing	Depth to	Product	Groundwater
Well Number	Date Installed	Elelvation ^(a)	Water	thickness (ft)*	Elevation
MW-1	12-Sep-86	16.02	NM		
MW-2	12-Sep-86	17.11	Destroyed		
MW-4	12-Sep-86	16.02	NM		
MW-5	12-Sep-86	16.19	12.29		3.90
MW-6	12-Sep-86	17.48	14.46	0.02	3.04
MW-7	12-Sep-86	16.11	12.56	0.02	3.57
MW-8	12-Sep-86	16.57	13.85		2.72
MW-9	12-Sep-86	7.33 ^(d)	NM		
MW-10	12-Sep-86	15.96	9.46		6.5
MW-11	12-Sep-86	13.99	NM		
MW-12	12-Sep-86	13.83	NM		
MW-13	12-Sep-86	13.98	10.57		3.41
MW-15	12-Sep-86	15.16	12.00	0.01	3.17
MW-16	12-Sep-86	13.48	9.35		4.13
MW-17	12-Sep-86	14.17	8.73		5.44
MW-19	01-May-03	NA	12.46	12.46	
MW-20	01-Dec-00	12.74	8.81		3.93

(a) Top of casing elevation (TOCE) except where noted; measured in feet above US Coast and Geodetic Datum (mean sea level). Elevations measured by Exceltech in 1986, and by PLS Surveys for MW-20 in 2000.

(d) Well casing was not measured for this well; well is located beneath forklift ramp and this measurement is the ground surface elevation in MSL.

(e) NM = Not measured

(f) NA = Not available

* In the case where separate phase product is measured, groundwater elevation is corrected assuming a fuel oil with product density of 0.893

	Table 3 Summary of Groundwater Analytical Results Owens-Brockway Glass Container Facility, Oakland, CA									
	Ow	ens-Brock	way Glas							
MW-1	Date	В	T	E	X	TPHd	TPHg	TOG/TPHmo		
	9/23/1986	<10	<10	NA	<10	<.01	<.01	25,000		
	4/9/1987	<10	<10	NA	<10	<.01	NA	NA		
		not accessibl								
		not accessibl								
		not accessibl								
		not accessibl								
		not accessibl				(2)				
	9/16/1997	<0.5	<0.5	<0.5	<0.5	190 ^(a)	<50	NA		
	11/2/1998	<0.5	<0.5	<0.5	<0.5	160 ^(a)	<50	NA		
	12/11/2001	not accessibl	е			(2)				
	12/6/2002	<0.5	<0.5	<0.5	<0.5	69 ^(a)	<50	NA		
		not accessibl								
		not accessibl								
	10/19/2006	<0.5	<0.5	<0.5	<0.5	5400	120	3300		
		not accessibl								
	10/21/2008	<0.5	<0.5	<0.5	<0.5	2000	69	1300		
	10/16/2009	<0.5	<0.5	<0.5	<0.5	310	<50	310		
	10/29/2010	<0.5	<0.5	<0.5	<0.5	100	<50	<250		
	3/1/2012	<0.5	<0.5	<0.5	<0.5	92	<50	<250		
		not accessibl								
	1/24/2014	not accessibl	е							
MW-2	4/9/1987	floating produ	ıct							
	9/16/1987	floating produ	ict							
	12/1/1987	floating produ	ict							
		floating produ								
		floating produ								
		floating produ								
		floating produ								
		floating produ								
		floating produ								
	12/6/2002	floating produ	ict							
		floating produ								
	6/30/2005	<0.5	<0.5	<0.5	<0.5	1,600,000	2900	1,200,000		
	9/11/2006	<2.5	4.4	19	60	830,000	13000 ^(b)	530,000		
		floating produ	-	et)						
		floating produ								
		floating produ								
		floating produ	-	et)						
	3/1/2012	Destroyed Ma	ay 2011							
NOTES.	J									

TPH-g - Total Petroleum Hydrocarbons as Gasoline in ug/lB - Benzene in ug/lX - Xylenes in ug/lTPH-d - Total Petroleum Hydrocarbons as Diesel in ug/lT - Toluene in ug/lE - Ethylbenzene in ug/l

TOG - Total Oil and Grease in ug/l TPHmo - Total Petroleum Hydrocarbons as Motor Oil ug/l (after 2004)

NA - Not analyzed

BDL - Below detection limit

(a) - Quantified as diesel but chromatogram did not match diesel pattern

	Table 3 Summary of Groundwater Analytical Results Owens-Brockway Glass Container Facility, Oakland, CA								
	Ow	vens-Brocl	kway Glas	s Contain	er Facility	, Oakland	, CA		
	Date	В	Т	E	Х	TPHd	TPHg	TOG/TPHmo	
MW-3	9/23/1986	<10	<10	NA	<10	NA	<10	18	
	4/9/1987	BDL	BDL	NA	BDL	NA	370	NA	
		floating proc							
		floating proc							
	3/7/1988		NA	NA	NA	190,000	NA	NA	
	6/8/1988		NA	NA	NA	16,000	NA	NA	
	9/14/1988	floating proc	luct						
		Destroyed							
MW-4	9/23/1986	<5	<5	NA	<5	NA	20	7,200	
	4/9/1987	BDL	BDL	NA	BDL	NA	BDL	NA	
	9/16/1987	BDL	BDL	NA	BDL	660	1.3	NA	
	12/1/1987	BDL	BDL	NA	8.9	100	BDL	NA	
	3/7/1988	BDL	BDL	NA	BDL	BDL	BDL	NA	
	6/8/1988	BDL	BDL	NA	BDL	BDL	BDL	NA	
	9/14/1988	BDL	BDL	NA	BDL	100	BDL	NA	
		Destroyed							
MW-5	10/3/1986	<5	<5	NA	6.6	NA	1400	24,000	
	4/9/1987	<5	<5	NA	<5	NA	54	NA	
	9/16/1987	NA	NA	NA	NA	960	NA	NA	
	12/1/1987	NA	NA	NA	NA	2000	NA	NA	
	3/9/1988	NA	NA	NA	NA	<50	NA	NA	
	6/8/1988		NA	NA	NA	12,000	NA	NA	
	9/14/1988	NA	NA	NA	NA	6,300	NA	NA	
	9/16/1997	<0.5	<0.5	<0.5	<0.5	11,600	<50	NA	
		floating proc							
	12/6/2000	<0.5	<0.5	<0.5	<0.5	11,700 ^(a)	1000	NA	
	12/12/2001	<0.5	<0.5	<0.5	<0.5	10,000 ^(a)	360 ^(b)	NA	
	12/6/2002	<0.5	<0.5	<0.5	<0.5	5,200 ^(a)	150 ^(b)	NA	
	3/15/2004	<0.5	<0.5	<0.5	<0.5	46,000 ^(a)	180 ^(b)	NA	
	6/30/2005	<0.5	<0.5	<0.5	<0.5	34,000	100	26,000	
	9/11/2006	<0.5	<0.5	<0.5	<0.5	45,000	300 ^(a)	33,000	
	10/17/2007	<0.5	<0.5	<0.5	<0.5	34,000	120	31,000	
	10/21/2008		<0.5	<0.5	<0.5	13,000	150	11,000	
	10/16/2009	<0.5	<0.5	<0.5	<0.5	160,000	180	140,000	
		floating proc							
	3/1/2012		<0.5	<0.5	<0.5	8,600	190	8,900	
	3/22/2013	floating proc	luct (0.03 ft)						
	1/24/2014	<0.5	<0.5	<0.5	<0.5	5,100	160	4,500	
	<u></u>								

TPH-g - Total Petroleum Hydrocarbons as Gasoline in ug/l

TPH-d - Total Petroleum Hydrocarbons as Diesel in ug/l

B - Benzene in ug/l T - Toluene in ug/l X - Xylenes in ug/l

E - Ethylbenzene in ug/l

TOG - Total Oil and Grease in ug/l TPHmo - Total Petroleum Hydrocarbons as Motor Oil ug/l (after 2004)

BDL - Below detection limit

NA - Not analyzed

(a) - Quantified as diesel but chromatogram did not match diesel pattern

Table 3 Summary of Groundwater Analytical Results **Owens-Brockway Glass Container Facility, Oakland, CA**

	Date	В	Т	E	X	TPHd	TPHg	TOG/TPHmo
MW-6	4/9/1987	floating prod	uct					
	9/16/1987	NĂ	NA	NA	NA	400,000	NA	NA
	12/1/1987	NA	NA	NA	NA	30,000	NA	NA
	3/7/1988	NA	NA	NA	NA	9,800	NA	NA
	6/8/1988	NA	NA	NA	NA	63,000	NA	NA
	9/14/1988	NA	NA	NA	NA	140,000	NA	NA
	9/16/1997	floating prod	uct					
	11/2/1998	floating prod	uct					
	12/11/2001	floating prod	uct					
	12/6/2002	floating prod	uct					
	3/15/2004	floating prod	uct					
	6/30/2005	<0.5	<0.5	<0.5	<0.5	270,000	300	200,000
	9/11/2006	<0.5	<0.5	<0.5	<0.5	100,000	700 ^(a)	77,000
	10/17/2007	<1	<1	<1	11.00	290,000	3400	190,000
	10/21/2008	<1	<1	<1	<1	38,000	330	28,000
	10/16/2009	<0.5	<0.5	<0.5	<0.5	98,000	490	89,000
	10/29/2010	floating prod	uct (0.05 ft)					
	3/1/2012	floating prod	uct (0.01 ft)					
	3/22/2013	floating prod	uct (0.02 ft)					
	1/24/2014	<0.5	<0.5	<0.5	<0.5	87,000	230	73,000
MW-7	10/3/1986	<5	<5	NA	<5	NA	260	8,000
	4/9/1987	floating prod	uct					
	9/16/1987	NA	NA	NA	NA	790,000	NA	NA
	12/1/1987	NA	NA	NA	NA	5,300	NA	NA
	3/9/1988		NA	NA	NA	<50	NA	NA
	6/9/1988		NA	NA	NA	12,000	NA	NA
	9/14/1988		NA	NA	NA	67,000	NA	NA
	9/16/1997	<0.5	<0.5	<0.5	<0.5	37,000 ^(a)	850	NA
	11/2/1998	floating prod	uct					
	12/6/2000	<5	<.05	<.05	1.90	3,580 ^(a)	540	NA
	12/12/2001	<1	<1	<1	<1	12,600 ^(a)	1200 ^(b)	NA
	12/6/2002	<0.5	<0.5	<0.5	<0.5	27,600 ^(a)	480 ^(b)	NA
	3/15/2004	<0.5	<0.5	0.57	1.10	170,000 ^(a)	890 ^(b)	NA
	6/30/2005	<.05	<.05	3.1	<.05	290,000	3000	150,000
	9/11/2006	<5	<5	<5	<5	310,000	6600 ^(a)	150,000
	10/17/2007	<1	<1	<1	2.70	330,000	1900	190,000
	10/21/2008	<1	<1	<1	<1	82,000	1100	43,000
	10/16/2009	<5	<5	<5	<5	60,000	2200	35,000
		floating prod						
		floating prod	````					
		floating prod						
	1/24/2014	<.05	<.05	0.052	1.6	130,000	650	82,000
NOTES:								

NOTES:

TPH-g - Total Petroleum Hydrocarbons as Gasoline in ug/l B - Benzene in ug/l X - Xylenes in ug/l TPH-d - Total Petroleum Hydrocarbons as Diesel in ug/l T - Toluene in ug/l E - Ethylbenzene in ug/l TOG - Total Oil and Grease in ug/l TPHmo - Total Petroleum Hydrocarbons as Motor Oil ug/l (after 2004)

BDL - Below detection limit NA - Not analyzed

(a) - Quantified as diesel but chromatogram did not match diesel pattern

Table 3 Summary of Groundwater Analytical Results Owens-Brockway Glass Container Facility, Oakland, CA									
					-				
MW-8	Date 10/23/1986	B <0.2	T <0.2	E NA	X <1	TPHd NA	TPHg 1300	TOG/TPHmo 14,000	
10100-0	4/9/1987		<0.2	NA	<1	NA	73	NA	
		floating prod	-				10		
	12/1/1987	-	NA	NA	NA	630	NA	NA	
	3/9/1988		NA	NA	NA	2,600	NA	NA	
	6/9/1988		NA	NA	NA	1,700	NA	NA	
	9/14/1988		NA	NA	NA	150	NA	NA	
	8/12/1997	floating prod	luct						
	9/16/1997		<0.5	<0.5	<0.5	290 ^(a)	<50	NA	
	11/2/1998		<0.5	<0.5	<0.5	1,300 ^(a)	<50	NA	
	12/6/2000		<0.5	<0.5	<0.5	160 ^(a)	<50	NA	
	12/12/2001		<0.5	<0.5	<0.5	<50	<50	NA	
	12/5/2002		<0.5	<0.5	<0.5	170 ^(a)	55 ^(b)	NA	
	3/15/2004		<0.5	<0.5	<0.5	3,000 ^(a)	320 ^(b)	NA	
	6/30/2005		<0.5	<0.5	< 0.5	4,600	1100	1,400	
	9/11/2006		<0.5	<0.5	2.1	1800	1200	760	
	10/17/2007		<0.5	<0.5	<0.5	1,300	390	2,100	
	10/21/2008		<0.5	<0.5	<0.5	380	74	470	
	10/16/2009	<0.5	<0.5	<0.5	<0.5	340	280	<250	
	10/29/2010		<0.5	<0.5	<0.5	84	150	<250	
	3/1/2012	<0.5	<0.5	<0.5	<0.5	410	560	600	
	3/22/2013	<0.5	<0.5	<0.5	<0.5	570	420	310	
	1/24/2014	<0.5	<0.5	<0.5	<0.5	110	82	<250	
MW-9	4/9/1987	floating prod	luct						
	9/16/1987	NA	NA	NA	NA	1,300	NA	NA	
	12/1/1987	NA	NA	NA	NA	18,000	NA	NA	
	3/9/1988	NA	NA	NA	NA	47,000	NA	NA	
		floating prod							
	9/14/1988	floating prod	luct						
	9/16/1997	<13	<13	<13	18.00	28,000 ^(a)	6000	NA	
	11/2/1998	floating prod	luct						
	12/6/2000	<5	<.5	<.5	<.5	102,000 ^(a)	790	NA	
	12/12/2001	innaccessib	е						
	12/5/2002	innaccessib	е						
		innaccessib	-						
		innaccessibl							
		innaccessib							
		innaccessib							
		innaccessib							
		innaccessib							
		innaccessib							
		innaccessib							
		innaccessibl							
	1/24/2014	innaccessib	е						

 TPH-g - Total Petroleum Hydrocarbons as Gasoline in ug/l
 B - Benzene in ug/l
 X - Xylenes in ug/l

 TPH-d - Total Petroleum Hydrocarbons as Diesel in ug/l
 T - Toluene in ug/l
 E - Ethylbenzene in ug/l

 TOG - Total Oil and Grease in ug/l
 TPHmo - Total Petroleum Hydrocarbons as Motor Oil ug/l (after 2004)

 BDL - Below detection limit
 NA - Not analyzed

(a) - Quantified as diesel but chromatogram did not match diesel pattern

	Table 3 Summary of Groundwater Analytical Results Owens-Brockway Glass Container Facility, Oakland, CA										
	Date	В	т	Е	X	TPHd	TPHg	TOG/TPHmo			
MW-10	10/23/1986	<0.2	<0.2	NA	<0.2	NA	380	7,200			
	4/9/1987	<0.2	<0.2	NA	<0.2	NA	300	NA			
	9/16/1987	NA	NA	NA	NA	3,800	NA	NA			
	12/1/1987	NA	NA	NA	NA	590	NA	NA			
	3/8/1988	NA	NA	NA	NA	<50	NA	NA			
	6/8/1988	NA	NA	NA	NA	3,800	NA	NA			
	9/14/1988	NA	NA	NA	NA	570	NA	NA			
	9/16/1997	<0.5	<0.5	<0.5	<0.5	1,300 ^(a)	<50	NA			
	11/2/1998	<0.5	<0.5	<0.5	<0.5	1400 ^(a)	<50	NA			
	12/6/2000	<0.5	<0.5	<0.5	0.70	730 ^(a)	150	NA			
	12/11/2001	<0.5	<0.5	<0.5	<0.5	630 ^(a)	210 ^(b)	NA			
	12/5/2002	<0.5	<0.5	<0.5	<0.5	840 ^(a)	210 ^(b)	NA			
	3/15/2004	< 0.5	<0.5	<0.5	0.8	2,500 ^(a)	160 ^(b)	NA			
	6/30/2005	<0.5	<0.5	<0.5	<0.5	2900	140	2300			
	9/11/2006	<0.5	<0.5	<0.5	0.81	3400	270	2600			
	10/17/2007	<0.5	<0.5	<0.5	< 0.5	1700	140	1500			
	10/21/2008	<0.5	<0.5	<0.5	<0.5	2300	240	1500			
	10/16/2009	<0.5	<0.5	<0.5	<0.5	4700	110	4600			
	10/29/2010	<0.5	<0.5	<0.5	<0.5	640	190	530			
	3/1/2012	<0.5	<0.5	<0.5	<0.5	2000	140	2400			
	3/22/2013	<0.5	<0.5	<0.5	<0.5	3100	150	3200			
	1/24/2014	<0.5	<0.5	<0.5	0.91	1100	290	830			
MW-11	9/23/1986	<0.4	<0.4	NA	1.4	NA	<8	1,200			
	4/9/1987	BDL	BDL	NA	BDL	NA	BDL	NA			
	9/16/1987	BDL	BDL	NA	BDL	NA	BDL	NA			
	12/1/1987	0.8	BDL	NA	10	NA	BDL	NA			
	3/7/1988	BDL	BDL	NA	BDL	BDL	BDL	NA			
	6/8/1988	BDL	BDL	NA	BDL	BDL	BDL	NA			
	9/14/1988	BDL	BDL	NA	BDL	100,000	BDL	NA			
		Destroyed									
MW-12	9/23/1986	0.49	1	NA	1.3	NA	100	2,500			
	4/9/1987	BDL	BDL	NA	BDL	NA	BDL	NA			
	9/16/1987	BDL	BDL	NA	BDL	NA	BDL	NA			
	12/1/1987	BDL	BDL	NA	13	NA	BDL	NA			
	3/7/1988	BDL	BDL	NA	BDL	BDL	BDL	NA			
	6/8/1988	BDL	BDL	NA	BDL	BDL	BDL	NA			
	9/14/1988	BDL	BDL	NA	BDL	120	BDL	NA			
	6/30/2005	Destroyed									
NOTES:					1						

TPH-g - Total Petroleum Hydrocarbons as Gasoline in ug/l

B - Benzene in ug/l

X - Xylenes in ug/l

TPH-d - Total Petroleum Hydrocarbons as Diesel in ug/l

T - Toluene in ug/l

E - Ethylbenzene in ug/l

TOG - Total Oil and Grease in ug/l TPHmo - Total Petroleum Hydrocarbons as Motor Oil ug/l (after 2004) NA - Not analyzed

BDL - Below detection limit

(a) - Quantified as diesel but chromatogram did not match diesel pattern

	Τ	Table 3 Sur	nmary of	Groundw	ater Analy	vtical Resu	ılts	
	Ow	vens-Brock	way Glas	s Contain	er Facility	, Oakland	, CA	
					· · ·	/	/	
	Date	В	Т	E	X	TPHd	TPHg	TOG/TPHmo
MW-13	12/24/1986	<0.2	<0.9	NA	<0.9	NA	<10	57,000
	4/9/1987	<5	<5	NA	<5	NA	<10	NA
	9/16/1987	<5	<5	NA	<5	NA	<10	NA
	12/1/1987	1.6	<5	NA	12	NA	<10	NA
	3/8/1988	<5	<5	NA	<5	<50	7.7	NA
	6/8/1988	<5	<5	NA	<5	<50	<10	NA
	9/14/1988	<5	<5	NA	<5	130	<10	NA
	9/16/1997	<5	<5	<5	<5	120 ^(a)	<50	NA
	11/2/1998	<5	<5	<5	<5	120 ^(a)	<50	NA
	12/6/2000	<0.5	<0.5	<0.5	<0.5	200 ^(a)	<50	NA
	12/11/2001	<0.5	<0.5	<0.5	<0.5	91 ^{(a)\}	<50	NA
	12/5/2002	<0.5	<0.5	<0.5	<0.5	190 ^(a)	<50	NA
	3/15/2004	<0.5	<0.5	<0.5	<0.5	<50	<50	NA
	6/30/2005	<1.0	<1.0	<1.0	<1.0	56	<50	<250
	9/11/2006	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	10/17/2007	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	10/21/2008	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	10/16/2009	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	10/29/2010	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	3/1/2012	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	3/22/2013	<0.5	<0.5	<0.5	<0.5	88	<50	<250
	1/24/2014	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
MW-14	9/23/1986	<0.4	<0.2	NA	<0.2	NA	<8	3,200
	4/9/1987	BDL	BDL	NA	BDL	NA	BDL	NA
	9/16/1987	BDL	BDL	NA	BDL	56	1.7	NA
	12/1/1987	1.2	4	NA	10	66	BDL	NA
	3/7/1988	BDL	BDL	NA	BDL	BDL	20	NA
	6/8/1988	inaccessible						
	9/14/1988	inaccessible						
		Destroyed						
NOTES:								

TPH-g - Total Petroleum Hydrocarbons as Gasoline in ug/lB - Benzene in ug/lX - Xylenes in ug/lTPH-d - Total Petroleum Hydrocarbons as Diesel in ug/lT - Toluene in ug/lE - Ethylbenzene in ug/l

TOG - Total Oil and Grease in ug/l TPHmo - Total Petroleum Hydrocarbons as Motor Oil ug/l (after 2004)

BDL - Below detection limit NA - Not analyzed

(a) - Quantified as diesel but chromatogram did not match diesel pattern

Table 3 Summary of Groundwater Analytical ResultsOwens-Brockway Glass Container Facility, Oakland, CA											
	Ow	ens-Brocl	kway Glas	s Contain	er Facility	, Oakland	l, CA				
	Date	В	Т	E	X	TPHd	TPHg	TOG/TPHmo			
MW-15	12/24/1986	<0.2	<0.9	NA	9.20	NA	120	1,600			
	4/9/1987	<5	<5	NA	<5	NA	<0.5	NA			
	9/16/1987	<5	<5	NA	<5	<100	8.4	NA			
	12/1/1987	3.30	0.84	NA	14	NA	<0.5	NA			
	3/8/1988	0.80	<5	NA	<5	<100	90	NA			
	6/9/1988	<5	<5	NA	<5	<100	53	NA			
	9/14/1988	NA	NA	NA	NA	100	NA	NA			
	9/16/1997	<0.5	<0.5	<0.5	<0.5	127 ^(a)	<50	NA			
	11/2/1998	<0.5	<0.5	<0.5	<0.5	340 ^(a)	<50	NA			
	12/6/2000	<0.5	<0.5	<0.5	<0.5	400 ^(a)	<50	NA			
	12/11/2001	<0.5	<0.5	<0.5	<0.5	290 ^(a)	<50	NA			
	12/5/2002	<0.5	<0.5	<0.5	<0.5	440 ^(a)	<50	NA			
	3/15/2004	<0.5	<0.5	<0.5	<0.5	<50	<50	NA			
	6/30/2005	<0.5	<0.5	<0.5	<0.5	240	<50	360			
	9/11/2006	<0.5	<0.5	<0.5	<0.5	56	<50	<250			
	10/17/2007	<0.5	<0.5	<0.5	<0.5	<50	<50	<250			
	10/21/2008	<0.5	<0.5	<0.5	<0.5	<50	<50	<250			
	10/16/2009	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5	55 <50	<50 <50	<250			
	10/29/2010 3/1/2012	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<50 100	<50 <50	<250 <250			
		floating proc		<0.5	<0.5	100	<50	<230			
	1/24/2014	<0.5	<0.5	<0.5	<0.5	65	<50	<250			
MW-16	12/24/1986	<0.2	<0.9	NA	<.9	NA	<10	1,200			
	4/9/1987	<5	<5	NA	<5	NA	<.5	NA			
	9/16/1987	<5	<5	NA	<5	64	<.5	NA			
	12/1/1987	1.00	0.37	NA	9.1	150	120	NA			
	3/7/1988	0.50	<5	NA	<5	<100	10	NA			
	6/8/1988	<5	<5	NA	<5	<100	<0.5	NA			
	9/14/1988	<5 floating proc	<5	NA	<5	190	<0.5	NA			
	9/10/1997 12/6/2000			-0 F	-0 F	97 ^(a)	-50	NA			
	12/0/2000	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<50	<50 <50	NA			
	12/5/2002	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<50 51 ^(a)	<50 <50	NA			
	3/15/2002	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	63	<50 <50	NA			
	6/30/2005	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	66	<50 <50	<250			
	9/11/2006	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	140	<50 <50	550			
	10/17/2007	<0.5	<0.5	<0.5	<0.5	92	<50	290			
	10/21/2008	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	76	<50 <50	<250			
	10/16/2009	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	780	<50 <50	910			
	10/29/2010	<0.5	<0.5	<0.5	<0.5	390	<50	1500			
	3/1/2012	<0.5	<0.5	<0.5	<0.5	270	<50	1600			
	3/22/2013	<0.5	<0.5	<0.5	<0.5	220	<50	1700			
	1/24/2014	<0.5	<0.5	<0.5	<0.5	120	<50	990			

TPH-g - Total Petroleum Hydrocarbons as Gasoline in ug/l B - Benzene in ug/l

TPH-d - Total Petroleum Hydrocarbons as Diesel in ug/l T - Toluene in ug/l X - Xylenes in ug/l E - Ethylbenzene in ug/l

TOG - Total Oil and Grease in ug/l TPHmo - Total Petroleum Hydrocarbons as Motor Oil ug/l (after 2004) NA - Not analyzed

BDL - Below detection limit

(a) - Quantified as diesel but chromatogram did not match diesel pattern

	T	able 3 Su	mmary of	Groundw	ater Analy	ytical Resu	ılts	
	Ow	vens-Brocl	kway Glas	s Contain	er Facility	, Oakland	, CA	
			· ·		·			
	Date	В	Т	E	Х	TPHd	TPHg	TOG/TPHmo
MW-17	12/24/1986	5	1.20	NA	14.00	NA	240	2,400
	4/9/1987	<5	<5	NA	<5	NA	<0.5	NA
	9/16/1987	<5	<5	NA	0.55	680	44	NA
	12/1/1987	7.80	2.40	NA	28	1,300	540	NA
	3/8/1988	83.00	<5	NA	46	3,800	4300	NA
	6/8/1988	innaccessib	е					
	9/14/1988	<0.5	<0.5	<0.5	<0.5	64,000	54000	NA
	9/16/1997	<0.5	<0.5	<0.5	<0.5	119,600 ^(a)	1900	NA
	11/2/1998	<0.5	<0.5	<0.5	0.60	16,000 ^(a)	<50	NA
	12/6/2000	<0.5	<0.5	<0.5	<0.5	47,800 ^(a)	340	NA
	12/11/2001	<10	<10	<10	<10	101,000 ^(a)	5300 ^(b)	NA
	12/5/2002	<0.5	<0.5	<0.5	<0.5	71,000 ^(a)	700 ^(b)	NA
	3/15/2004	2.1	0.71	<0.5	1.5	660,000 ^(a)	1400 ^(b)	NA
	6/30/2005	<0.5	2.4	<0.5	1.1	1,600,000	1700	NA
	9/11/2006	<2.5	36	9.50	79	2,300,000	26,000	810,000
re-test	10/19/2006	5.90	<1.0	<1.0	3.7	1,100,000	1,600	480,000
	10/17/2007	<2.5	<2.5	<2.5	<2.5	710,000	4,400	270,000
	10/21/2008	<2.5	<2.5	<2.5	<2.5	330,000	3,300	130,000
	10/16/2009	<1.0	2.9	<1.0	<1.0	900,000	2,400	350,000
	10/29/2010	<5.0	5.0	0.92	12	610,000	5,000	360,000
	3/1/2012	<5.0	<5.0	<5.0	<5.0	390,000	3,000	160,000
	3/22/2013	8.2	1.4	<5.0	4.1	570,000	4,500	220,000
	1/24/2014	<5.0	<5.0	<5.0	<5.0	59,000	370	32,000
MW-18	9/23/1986	<0.3	<0.3	NA	0.99	NA	<20	1,600
	4/9/1987	BDL	BDL	NA	BDL	NA	BDL	NA
	9/16/1987	BDL	BDL	NA	BDL	480	BDL	NA
	12/1/1987	BDL	BDL	NA	6.6	180	BDL	NA
	3/7/1988	BDL	BDL	NA	BDL	BDL	BDL	NA
	6/8/1988	BDL	BDL	NA	BDL	BDL	BDL	NA
	9/14/1988	BDL	BDL	NA	BDL	190	BDL	NA
		Destroyed						
NOTEC								I

TPH-g - Total Petroleum Hydrocarbons as Gasoline in ug/l

B - Benzene in ug/l T - Toluene in ug/l X - Xylenes in ug/l

E - Ethylbenzene in ug/l

TPH-d - Total Petroleum Hydrocarbons as Diesel in ug/l

TOG - Total Oil and Grease in ug/l TPHmo - Total Petroleum Hydrocarbons as Motor Oil ug/l (after 2004)

BDL - Below detection limit NA - Not analyzed

(a) - Quantified as diesel but chromatogram did not match diesel pattern

	U wu	ens-Di oci	away Glas	s Contain	er racinty	, Oakland	, CA	
	Date	В	Т	E	X	TPHd	TPHg	TOG/TPHmo
-19	6/23/2004	<0.5	<0.5	<0.5	<0.5	1,100	480	NA
	3/15/2004	<0.5	<0.5	<0.5	<0.5	1,100 ^(a)	330 ^(b)	NA
	6/30/2005	<0.5	<0.5	1.5	4.5	1700	840	350
	9/18/2006	<0.5	<0.5	<0.5	0.83	890	280	280
	10/17/2007	<0.5	<0.5	<0.5	0.61	1200	880	<250
	10/21/2008	<0.5	<0.5	<0.5	<0.5	300	340	<250
	10/16/2009	<0.5	<0.5	<0.5	<0.5	440	390	<250
	10/29/2010	<0.5	<0.5	<0.5	0.95	460	670	<250
	3/1/2012	<0.5	<0.5	<0.5	<0.5	440	310	<250
	3/22/2013	<0.5	<0.5	<0.5	1.1	780	620	<250
	1/24/2014	<0.5	<0.5	<0.5	0.82	490	380	
-20	12/11/2000	<0.5	<0.5	<0.5	<0.5	110 ^(a)	<50	NA
	4/6/2001	<0.5	<0.5	<0.5	<0.5	57 ^(a)	<50	NA
	7/6/2001	<0.5	<0.5	<0.5	<0.5	120 ^(a)	<50	NA
	9/19/2001	<0.5	<0.5	<0.5	<0.5	160 ^(a)	<50	NA
	12/11/2001	<0.5	<0.5	<0.5	<0.5	82 ^(a)	86 ^(b)	NA
	2/6/2002	<0.5	<0.5	<0.5	<0.5	85 ^(a)	<50	NA
	3/15/2004	<0.5	<0.5	<0.5	<0.5	<0.5	<50	NA
	6/30/2005	<0.5	<0.5	<0.5	<0.5	<500	<50	NA
	9/11/2006	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	10/17/2007	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	10/21/2008	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	10/16/2009	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	10/29/2010	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	3/1/2012	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	3/22/2013	<0.5	<0.5	<0.5	<0.5	<50	<50	<250
	1/24/2014	<0.5	<0.5	<0.5	<0.5	<50	<50	<250

Table 3 Summary of Groundwater Analytical Results Owens-Brockway Class Container Facility Oakland CA

NOTES:

TPH-g - Total Petroleum Hydrocarbons as Gasoline in ug/l
--

B - Benzene in ug/l T - Toluene in ug/l

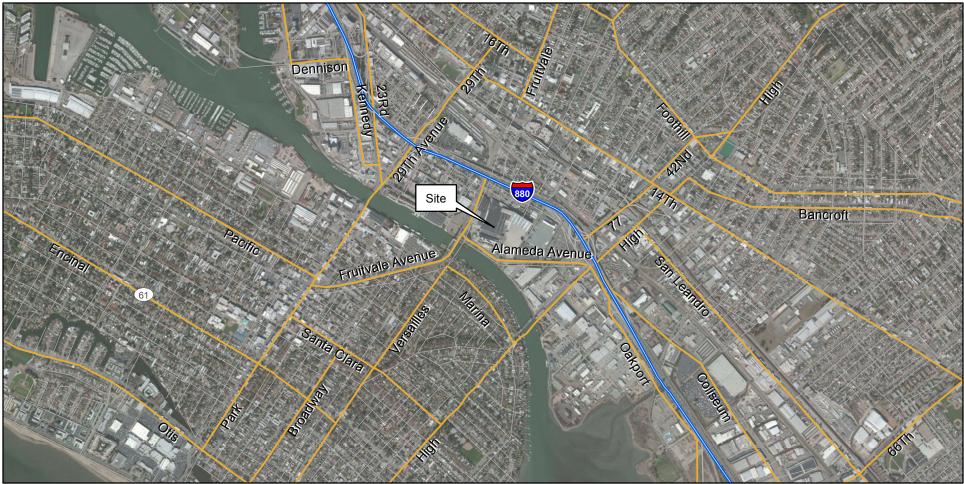
X - Xylenes i E - Ethylbenzene in ug/l

TPH-d - Total Petroleum Hydrocarbons as Diesel in ug/l TPHmo - Total Petroleum Hydrocarbons as Motor Oil ug/l (after 2004)

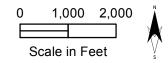
TOG - Total Oil and Grease in ug/l

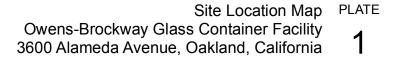
BDL - Below detection limit NA - Not analyzed (a) - Quantified as diesel but chromatogram did not match diesel pattern

PLATES



Drawn by A. Llewellyn. March 2012. Base layers are unmodified Alameda County Digital Data Sets.







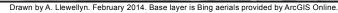


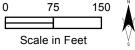




EXPLANATION

- Monitoring Well
- Destroyed Well
- Line of Equal Groundwater Elevation
- Approximate Line of Equal Groundwater Elevation
- 3.57 Groundwater Elevation
- NA Not Available
- NM Not Measured





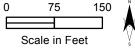
Groundwater Elevation Contour Map, January 2014 PLATE Owens-Brockway Glass Container Facility 3600 Alameda Avenue, Oakland California





EXPLANATION

- Monitoring Well
- Destroyed Well
- Line of Equal Fuel Oil Concentration
- Approximate Line of Equal Fuel Oil Concentration
- 490 TPHd Cocentration in µg/L
- NA Not Available





APPENDIX A

WELL GAUGING DATA

Project # 140123-DRI Date 1/23/14 Client CKG Env.

Site 3600 Alumida Ave. Oakland Ca.

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
MW-1		¥	Inacc	essibh.	Lorge	pile of	gless are	r urell		
mw-5	0954	2	odor				12.29	22.22		Seck
mn-6	0947	2	odor				14.46	25.72		Sech
mw-7	1024	2					12.56	20.95		sock
Mw-8.	1020	2					13.85	22.65		
<i>hw-10</i>	1000	2					9.46	16.87	•	
mw-B	0934	2					10.57	18.30		soll
MW - 15	0940	2					12.00	29.85		Soch
mw-16	0920	2					9.35	19.35		Soil
mw-17	0915	2					8.73	18.96		soch
mw-19	1029	2					12.46	25.05		
MW-20	0928	2					8-81	21.81	V	seek
		943 213								

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WELLHEAD INSPECTION CHECKLIST

:

Page _____ of ____

Client	CKG Env				Date	1/23/1.	4	
Site Address	3600 /	Hameda	Ave.	Og klund	<u> </u>	•		
Job Number	140123-1				nician	DR/B	W	
Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	J Insice	ssible.	Lorge	nik	of all	ss aver	well.	
mw-S			2	/		X		
mw-6	X	ъ.						
mw-7	×							
mw-8						-2/2 batts.		
mw - 10						Christy 1.		
mw-13			``			chuisty ling broken.		
mw-15						-12 bills		
mw-16						-2/2/1.15		
Mw-17	Dr					broken apor		
mw-19	X							
mw-20						×		
,* 								
				······				
NOTES:	Mw-20 .	2/2 6.1	5 -1/2.	zbs M	1w-5 -	2/2 bells	. Aroran b	sedly damand
							1	

<u></u>								

 $\frac{1}{2}$

Project #:	1401	23-Ir)	Client	: (CKG	Environ	men 121		
Sampler:	485 7 57888			Date:		3/1				
Well I.D.:	MW-1			Well I	Diameter	: 2	3 4	6 8		
Total Well	Depth (TD):	Landon and a state and a stat	Depth	to Water	r (DTV	V): -			
Depth to Fre	ee Product	:		Thickr	ness of F	ree Pro	oduct (fee	et):		
Referenced	to:	PVC	Grade	D.O. N	Aeter (if	req'd):		YSI HACH		
DTW with 8	80% Rech	arge [(H	leight of Water	Colum	n x 0.20)	+ DT	W]:			
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristattic Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Dedicated Tubing Well Diameter Multiplier Well Diameter Multiplier										
[Well Diamete 1"	er Multip 0.04	lier Well I 4"	Diameter Multiplier 0.65		
1 Case Volume	Gals.) X Speci	fied Volun	= nes Calculated Vo	_Gals.	2" 3"	0.16 0.37	6" Other	1.47 radius ² * 0.163		
[1			L	1]		
Time	Temp (°F or °C)	pH	Cond. (mS or µS)	-	bidity TUs)	Gals.]	Removed	Observations		
			-							
Je Well	is	171 4222	ssible. C	ivered	w/h	v.yc	pile o	Eglass.		
								· · · · ·		
N.										
Did well dev	water?	Yes	No	Gallon	s actually	y evacı	uated:			
Sampling Da	ate:		Sampling Time			Depth	to Wate	r:		
Sample I.D.:	:			Labora	tory:	Kiff	CalScience	Other		
Analyzed for	r: TPH-G	BTEX	MATBE TPH-D	Oxygena	ates (5)	Other:				
EB I.D. (if a	pplicable)	: /	@ Time	Duplic	ate I.D. ((if appl	icable):			
Analyzed for	r: TPH-6	BTEX	MTBE TPH-D	Oxygena	ates (<i>5</i>)	Other:				
D.O. (if req'o	d); Pr	e-purge:		mg/L	P	ost-purg	ge:	mg/L		
O.R.P. (if re	q'd): Pr	e-purge:		/mV	Р	ost-purg	ge:	mV		

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Project #:	1401 23-	DRI		Client:	CK	6 Envirenn	norstal				
Sampler:	JON/BU	ر		Date:	1/2	1					
Well I.D.:	mw - 3	5		Well Diameter: ② 3 4 6 8							
Total Well	Depth (TD): 22.	.22	Depth	to Water	r (DTW): 12	.79				
Depth to Fr	ee Product	•		Thickr	ness of F	ree Product (fee	et):				
Referenced	to:	PVQ	Grade	D.O. N	Aeter (if	req'd):	YSI HACH				
DTW with	80% Rech	arge [(H	leight of Water	Colum	1 x 0.20)	+ DTW]:	4.28				
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Other: Well Diameter Multiplier Well Diameter Multiplier 1" 0.04 4" 0.65											
1 Case Volume	$\frac{1.6 (Gals.) \times 3}{2} = 4.8 Gals.$ ^{2"} ^{0.16} ^{6"} ^{1.47} ^{1.47} ^{1.47}										
Time	Temp (°F or C	pH	Cond. (mS or (IS)	1	bidity ГUs)	Gals. Removed	Observations				
1202	16.6	7.24	1249	>/	୵ଌଌୄୠ	1.6	oder				
1204	16.9	6.98	1267	>	1000	3.2	θ ε				
1206	16.8	6.99	1264	>	1000	4.8	1,				
		-									
* Replac	ed stoi	nel s	eck. Religi	yed e	same	dusth as fe	isha				
Did well dev		Yes (No '	$\langle \mathbf{I} \rangle$		y evacuated:	4.8				
Sampling D	ate: 1/23/	14	Sampling Time	e: <u>1</u> 2	-15	Depth to Wate	r: 14.09				
Sample I.D.: Mw-5 Laboratory: Kiff CalScience Other McCample 1											
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other: Sce (CoC				
EB I.D. (if a	pplicable)	•	@ Time	Duplic	ate I.D. ((if applicable):					
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena		Other:					
D.O. (if req'	d): Pr	e-purge:		^{mg} /L	P	ost-purge:	mg/L				
O.R.P. (if re	q'd): Pr	e-purge:		mV	Pe	ost-purge:	mV				

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Project #:	1401 23-	DRI		Client:	CK	6 Envirenn	norstal			
Sampler: (DD/Bu	ر ا		Date:	1/2	3/14				
Well I.D.:	mw-6	9		Well D	Diameter	: ② 3 4	6 8			
Total Well	Depth (TD): ZS.	72	Depth to Water (DTW): 14.46						
Depth to Fr	ee Product			Thickn	less of F	ree Product (fee	et):			
Referenced	to:	PVQ	Grade	D.O. N	leter (if	req'd):	YSI HACH			
DTW with	80% Rech	arge [(H	leight of Water	Columr	n x 0.20)	+ DTW]:	16.71			
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Dedicated Tubing Other: United States Sampling Method: Bailer Extraction Port Dedicated Tubing Other: 065										
$\frac{1.8}{1 \text{ Case Volume}} (\text{Gals.}) \times \frac{3}{\text{Specified Volumes}} = \frac{5.4}{\text{Calculated Volume}} \text{Gals.}$ $\frac{2^{"}}{3^{"}} = \frac{0.16}{0.37} \text{ Other } \frac{1.47}{\text{radius}^2 * 0.163}$										
Time	Temp (°F or C	pН	Cond. (mS or (uS))	1	oidity ΓUs)	Gals. Removed	Observations			
1138	19.3	7.08	1230	>"	000	1.8	Sheen / Oden			
1140	19.)	7.21	1328	>1	୦୦୦	3.6	1 1 11			
1142	19.0	7.22	1333	> 1000		5.4	11 11			
· · · ·		-			21 C					
* Acolac	ed stain	ed so	drs. Deployed	C 50	me din l	has found.				
Did well dev	water?	Yes (No		s actually	y evacuated:	5.4			
Sampling D	ate: 1/23/	14	Sampling Time	: 11	50	Depth to Wate	r: 15.29			
Sample I.D.: Mw-6 Laboratory: Kiff CalScience Other Micamphal										
Analyzed fo	Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: Scc Co									
EB I.D. (if a	pplicable)	*	@ Time	Duplica	ate I.D. ((if applicable):				
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:				
D.O. (if req'	d): Pr	e-purge:		^{mg} /L	P	ost-purge:	^{mg} / _L			
O.R.P. (if re	q'd): Pr	e-purge:		mV	P	ost-purge:	mV			

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•

Project #:	1401 23-	DRI		Client:	CK	6 Envire	montal				
Sampler: (DR/BU			Date:	1/2	1	8				
Well I.D.:	mw - T	7		Well Diameter: ② 3 4 6 8							
Total Well	Depth (TD): 20.	95	Depth to Water (DTW): 12.56							
Depth to Fr	ee Product	:				ree Product (
Referenced	to:	PVQ	Grade	D.O. N	leter (if	req'd):	YSI HACH				
DTW with	80% Recha	arge [(H	eight of Water	Colum	1 x 0.20)	+ DTW]:	14.24				
Purge Method:	Bailer Disposable B Positive Air I Electric Subn	Displaceme		Waterra Peristaltic tion Pump		Sampling Meth	hod: Bailer Disposable Bailer Extraction Port Dedicated Tubing her:				
Well Diameter Multiplier Well Diameter Multiplier 1" 0.04 4" 0.65											
1.3 (0 1 Case Volume											
Time	Temp (°F or (Ĉ)	pН	Cond. (mS or (µS))	1	bidity ГUs)	Gals. Remov	ed Observations				
1054	22.5	6.49	1207	710	200	strong oden Sheen					
1.56	22.3	6.54	1201		6000	2.6	17 11 / 11				
1058	22.4	6.56	1200	>	1000	3.9	1. 1. 11				
		,									
Did well dev	water?	Yes (No	Gallon	s actually	y evacuated:	3.9				
Sampling D	ate: 1/23/	14	Sampling Time	e: // (>8	Depth to Wa	ater: 14.19				
Sample I.D.: Mw-7 Laboratory: Kiff CalScience Other McCamphal											
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other: \sum_{α}	e CeC				
EB I.D. (if a	pplicable)	•	@ Time	Duplic	ate I.D. ((if applicable	e): '				
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:					
D.O. (if req'	d): Pr	e-purge:		^{mg} /L	Р	ost-purge:	· ^{mg} /L				
O.R.P. (if re	q'd): Pr	e-purge:	1	mV	Р	ost-purge:	mV				

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W___L MONITORING DATA SHE____

Project #:	140123	-DRI		Client:	CK	G					
Sampler:	BU			Date:	1/23	3/14					
Well I.D.:	MW	-8		Well Diameter: (2) 3 4 6 8							
Total Well I	Depth (TD): 22		Depth to Water (DTW): 3.85							
Depth to Fre	ee Product	:		Thickne	ess of F	ree Produ	ct (fee	et):			
Referenced	to:	(PVC)	Grade	D.O. M	eter (if	req'd):		YSI HACH			
DTW with 8	30% Recha	arge [(H	eight of Water	Column	x 0.20)) + DTW]	: 1	5.6 (
Purge Method: Bailer Waterra Sampling Method: Bailer X Disposable Bailer Peristaltic X Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Dedicated Tubing Other: Well Diameter Multiplier Well Diameter Multiplier Well Diameter Multiplier											
1.4 1 Case Volume	\Box (Gais.) Λ \Box										
Time	Temp (°F or Ĉ)	pН	Cond. $(mS \text{ or } \mu S)$	1	idity `Us)	Gals. Rer	noved	Observations			
1127	[7.2	7.40	1114	710	00	1.4					
1129	[].[]	7.35	1108	710	60	2.8					
1131	16,9	7.11	1101	710	200	4.2					
					1894-18-18-18-19-19-19-19-19-19-19-19-19-19-19-19-19-						
Did well de	water?	Yes (No	Gallons	actuall	l ly evacuat	red: 4	1.Z			
Sampling D	ate: 1/23	114	Sampling Time			Depth to		r: 14.27			
Sample I.D.: <u>MW-</u> E Laboratory: Kiff CalScience Other <u>Mc Canip all</u> Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC											
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ntes (5)	Other:	Se	e COC			
EB I.D. (if a	applicable)):	@ Time	Duplica	ate I.D.	(if applica	able):				
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	20 C C	Other:					
D.O. (if req	'd): P1	e-purge:		^{mg} /L	F	ost-purge:		mg/L			
O.R.P. (if re	eq'd): Pi	e-purge:		mV	F	ost-purge:		mV			

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W. _L MONITORING DATA SHE____

Project #:	140123	- DRI		Client: CKG					
Sampler:	BW			Date:	1/27	3/14			
Well I.D.:	MW	-10		Well Diameter: (2) 3 4 6 8					
Total Well I	Depth (TD): 18	.87	Depth to Water (DTW): 9.46					
Depth to Fre	ee Product	•		Thickn	ess of F	ree Product (fee	et):		
Referenced	to:	PVC) Grade	D.O. N	leter (if	req'd):	YSI HACH		
DTW with 8	30% Recha	arge [(H	eight of Water	Colum	n x 0.20)) + DTW]:	11.34		
Purge Method:	Bailer Disposable Ba Positive Air E Electric Subm	Displaceme		Waterra Peristaltic tion Pump	Well Diamete	Sampling Method: Other:	XDisposable Bailer Extraction Port Dedicated Tubing		
1.5 (C 1 Case Volume	Sals.) X Speci	<u>3</u> fied Volum		_ Gals. olume	1" 2" 3"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47 radius ² * 0.163		
Time	Temp (°F of ℃)	pH	Cond. (mS or µS))	1	oidity ΓUs)	Gals. Removed	Observations		
1107	19-5	6.70	1163	71000		1.5	Sheen		
1109	19.5	6.72	1159	710	00	3.0			
1111	19.5	6.80	1152	71	000	4.5	DTW 11.78		
							· · · · · · · · · · · · · · · · · · ·		
Did well dev	water?	Yes (No	Gallon	s actuall	y evacuated:	4.5		
Sampling D	ate: $1/2$	3/14	Sampling Time	e: 112	5	Depth to Wate	r: 11.30		
Sample I.D.	: MW	Kiff CalScience	Other Melimber						
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other: See	Coc		
EB I.D. (if a	pplicable)	:	@ Time	Duplic	ate I.D.	(if applicable):			
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other:			
D.O. (if req'	d): Pr	e-purge:		^{mg} /L	Р	'ost-purge:	^{mg} /L		
O.R.P. (if req'd): Pre-purge: mV Post-purge: mV									

WELL MONITORING DATA SHEET

Project #:	140 (23	- BRI		Client: CKG						
Sampler:	Bio			Date:	1/28/	14				
Well I.D.:	mω	-13		Well Diameter: (2) 3 4 6 8						
Total Well	Depth (TD): [8	.30	Depth to Water (DTW): 10.57						
Depth to Fr	ee Product			Thickness of Free Product (feet):						
Referenced	to:	PVC	Grade	D.O. M	eter (if	req'd):		YSI HACH		
DTW with	80% Rech	arge [(H	leight of Water	Column	x 0.20)) + DTW]:	12	2.12		
Purge Method:	Bailer Disposable B Positive Air I Electric Subn	Displaceme	ent Extrac	Waterra Peristaltic tion Pump	Vell Diameter	r Multiplier)ther: Well D	Bailer X Disposable Bailer Extraction Port Dedicated Tubing		
1 Case Volume	Gals.) X Speci	<u> </u>		_Gals. lume	2" 3"	0.04 0.16 0.37	4" 6" Other	0.65 1.47 radius ² * 0.163		
Time	Temp (°F or °C)	pH	Cond. (mS or µS))	Turbi (NTI	Us)	Gals. Remo	ved	Observations		
1145	18.3	7-16	916	71000		1.2				
1148	18.6	7,24	915	7100	0	Z.4				
1149	18.6	7.32	900	7(000	>	3.6				
* Replace	d SPH	Sock	ynew to	Same	dept	nas fa	nd	<u> </u>		
Did well dev	water?	Yes (No	Gallons	actually	y evacuated	:	3.6		
Sampling D	ate: 1/23	/14	Sampling Time	: 115	5	Depth to W	ater	:: //.10		
Sample I.D.	: MW	-13		Laborate	ory:	Kiff CalSc	ience	Other Mc Campbell		
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygenat	es (5)	Other:) Re	COL		
EB I.D. (if a	pplicable)	•	@ Time	Duplicat	te I.D. (if applicabl	e):			
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygenat	es (5)	Other:				
D.O. (if req'	d): Pr	e-purge:		^{mg} /L	Po	ost-purge:		^{mg} /L		
O.R.P. (if re	.R.P. (if req'd): Pre-purge: mV Post-purge: mV									

W _L MONITORING DATA SHE _

Project #:	••••		8	Client: CK					
		<u>i - DR</u>	<u> </u>						
Sampler:	BW			Date: 1 73 14					
Well I.D.:	mw-	15		Well Diameter: 2 3 4 6 8					
Total Well I	Depth (TD): 29	.85	Depth to Water (DTW): 12.00					
Depth to Fre	ee Product	:	~	Thickness of F	ree Product (fee	et):			
Referenced	to:	PVC), Grade	D.O. Meter (if	req'd):	YSI HACH			
DTW with 8	80% Recha	arge [(H	eight of Water	Column x 0.20) + DTW]:	15.57			
	Bailer Disposable B Positive Air I Electric Subn	Displaceme		Waterra Peristaltic tion Pump	Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing			
		~~~	<i>x</i> 7	Well Diamete	0.04 4"	Diameter Multiplier 0.65			
$\frac{2.9}{1 \text{ Case Volume}}$	Gals.) X Speci	<u>⊃</u> fied Volun	$\frac{1}{1} = \frac{8.7}{\text{Calculated Vo}}$	_Gals. 2" Jume 3"	0.16 6" 0.37 Other	1.47 radius ² * 0.163			
Time	Temp (°F or °C)	pН	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations			
1056	19.9	7.15	983	71000	3.0				
& luc	1 din	estand	<u> </u>			1. A.			
1400	20.2	7.21	978	24	*10000000000				
				* 					
Replace	a sta	ined	Sock. Rg	leployed e	depth as	fermed			
Did well de	water?	Yes	No	Gallons actual	ly evacuated:	3.5			
Sampling D	ate: 123	114	Sampling Time	e: 1400	Depth to Wate	r: 12.18			
Sample I.D.	: n	w- 15	, )	Laboratory:	Kiff CalScience	Other Milasbell			
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other: Sec	Ce C '			
EB I.D. (if a	applicable)	):	@ Time	Duplicate I.D.	(if applicable):				
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other:				
D.O. (if req	'd): Pi	e-purge:		^{mg} /L F	ost-purge:	mg/L			
O.R.P. (if re	mV								

### WELL MONITORING DATA SHELT

Project #:	140123	-DRI		Client: CK	Cy					
Sampler:	BW			Date: $1/2.3/14$						
Well I.D.:	mw-1	6		Well Diameter: 2 3 4 6 8						
Total Well	Depth (TI	)): [9.	35	Depth to Water (DTW): 9.35						
Depth to Fr	ee Produc	t:		Thickness of I	Free Product (fe	eet):				
Referenced	to:	(PVC)	Grade	D.O. Meter (if	req'd):	YSI HACH				
DTW with	80% Rech	arge [(H	leight of Water	Column x 0.20	) + DTW]: /	1.35				
Purge Method:	Disposable B Positive Air I Electric Subn	Displaceme	Other	Well Diamet	Sampling Method Other er <u>Multiplier Well</u> 0.04 4"	Disposable Bailer Extraction Port Dedicated Tubing				
1 Case Volume		<u> </u>	$\underline{} = \frac{4.8}{\text{Calculated Vo}}$	11 20	0.16 6" 0.37 Othe	1.47 r radius ² * 0.163				
Time	Temp (°F or °C)	pН	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations				
1212	21.1	7.38	651	71000	1.6	Sheen				
1215	21.0	7.34	648	71000	3.2					
1218	20.4	7,20	646	71600	4.8					
K Replaced Did well dev		I	u/new and No)	de ployed Gallons actuall	as found y evacuated:	4.8				
Sampling D	ate: 1/23	14	Sampling Time	: 1225	Depth to Wate					
Sample I.D.	: mw	-16	Laboratory:	Kiff CalScience						
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other: See	COC				
EB I.D. (if a	pplicable)	•	@ Time	Duplicate I.D.	(if applicable):					
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other:					
D.O. (if req'	d): Pr	e-purge:		^{mg} / _L P	ost-purge:	^{mg} /L				
O.R.P. (if re	q'd): Pr	e-purge:		mV P	ost-purge:	mV				

#### **,** (__) **,** ELL MONITORING DATA SHEET

Project #:	1401 23-	DRI		Client:	CK	6 Envirenn	nortal			
Sampler: (	STO/BU	ر		Date:	1/2	3/14				
Well I.D.:	mw-r	า		Well D	iameter	: 🗇 3 4	6 8			
Total Well	Depth (TD	): [	8.96	Depth to Water (DTW): 8,73						
Depth to Fr	ee Product	:		Thickness of Free Product (feet):						
Referenced	to:	PVQ	Grade	D.O. M	leter (if	req'd):	YSI HACH			
DTW with	80% Recha	arge [(H	eight of Water	Column	x 0.20)	) + DTW]:	16.78			
Purge Method:	Bailer Disposable B Positive Air I Electric Subn	Displaceme		Waterra Peristaltic tion Pump	Well Diamete		Disposable Bailer Extraction Port Dedicated Tubing			
L.L.((	Gals.) X Speci	3 fied Volum	$=\frac{4.8}{\text{Calculated Vc}}$	_ Gals. olume	1" 2" 3"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47 radius ² * 0.163			
Time	Temp (°F or (Ĉ)	pH	Cond. (mS or (µS))	1	oidity TUs)	Gals. Removed	Observations			
1256	20.5	2.27	955	7	1600	1.6	oder			
1301	20.7	6.93	950	>	1066	3,2	. 11			
1306	20.9	6.91	948	7	1000	4.8	11			
		, ,					$\sum_{i=1}^{n}$			
* Repl	iud s	aired	Sock. R.	distind	es	eme duth a	R feund.			
Did well dev	water?	Yes	6	Gallons	actuall	y evacuated:	4.8			
Sampling D	ate: 1/23/	14	Sampling Time	e: 142	٥	Depth to Wate	r: 8.98			
Sample I.D.	: mw-	- 17	<i></i>	Laborat	tory:	Kiff CalScience	Other Milamphall			
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ites (5)	Other: Scc	CoC			
EB I.D. (if a	pplicable)	:	@ Time	Duplica	ate I.D.	(if applicable):				
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ites (5)	Other:				
D.O. (if req'	d): Pr	e-purge:		^{mg} /L	Р	ost-purge:	mg/L			
O.R.P. (if re	q'd): Pr	e-purge:		mV	Р	'ost-purge:	mV			

### WELL MONITORING DATA SHEET

Project #:	1401 23-	DRI		Client:	CK	6 Envirent	montal			
Sampler: (	JA / BU	ر		Date:	1/2	3/14				
Well I.D.:	mw- i	9		Well Diameter: ② 3 4 6 8						
Total Well	Depth (TD	): 25.	05	Depth to Water (DTW): 12.46						
Depth to Fr	ee Product	•		Thickness of Free Product (feet):						
Referenced	to:	PVQ	Grade	D.O. N	Aeter (if	req'd):	YSI HACH			
DTW with	80% Rech	arge [(H	eight of Water	Colum	n x 0.20)	+ DTW]:	4.98			
Purge Method:	Bailer Disposable B Positive Air I Electric Subn	Displaceme		Waterra Peristaltic tion Pump	Well Diamete	•	Disposable Bailer Extraction Port Dedicated Tubing Diameter Multiplier			
2.0 1 Case Volume		3 fied Volum	$\frac{1}{es} = \frac{6.0}{Calculated Vo}$	Gals.	1" 2" 3"	0.04 4" 0.16 6" 0.37 Othe	0.65 1.47 sr radius ² * 0.163			
Time	Temp (°F or (Ĉ)	pH	Cond. (mS or uS)	1	bidity ΓUs)	Gals. Removed	Observations			
1117	19.5	7.07	863	7	9	2,0				
11 19	19.7	6.85	866	13	-6	4.0				
1121	۲. ۱۹	6.84	868		21	6.0				
		,								
Did well dev	water?	Yes (	No	Gallon	s actuall	y evacuated:	6.0			
Sampling D	ate: 1/23/	14	Sampling Time	e: 11 2	.8	Depth to Wate	er: 14.27			
Sample I.D.	: mw-	- 19		Labora	tory:	Kiff CalScienc				
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other: Scc	CoC			
EB I.D. (if a	pplicable)		@ Time	Duplic	ate I.D. (	(if applicable):				
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:				
D.O. (if req'	d): Pr	e-purge:		^{mg} /L	Р	ost-purge:	mg/L			
O.R.P. (if re	q'd): Pr	e-purge:		mV	Р	ost-purge:	mV			

### **... ELL MONITORING DATA SHEET**

•

Project #:	1401 23-	DAI		Client:	CK	6 Enviran	merital			
Sampler:	OD/BU	ر		Date:	1/2	3/14				
Well I.D.:	mw-2	0		Well Diameter: ② 3 4 6 8						
Total Well	Depth (TD	): ZI.	81	Depth to Water (DTW): 8,81						
Depth to Fr	ee Product			Thickness of Free Product (feet):						
Referenced	to:	PVQ	Grade	D.O. N	leter (if	req'd):	YSI HACH			
DTW with	80% Recha	arge [(H	leight of Water	Columr	n x 0.20)	+ DTW]:	11.41			
Purge Method:	Bailer Disposable B Positive Air I Electric Subn	Displaceme		Waterra Peristaltic tion Pump	Well Diamete	Sampling Metho Othe	Disposable Bailer Extraction Port Dedicated Tubing			
2.1_(( 1 Case Volume	Gals.) X Speci	J fied Volum	$\frac{1}{1} = \frac{1}{1} \frac{1}{2} \frac{3}{2}$	_Gals. lume	1" 2" 3"	0.04 4" 0.16 6" 0.37 Oth	0.65 1.47 ner radius ² * 0.163			
Time	Temp (°F or C	pН	Cond. (mS or uS)		oidity TUs)	Gals. Remove	d Observations			
1225	20.1	7.94	833	>	1000	2.1				
1230	19.9	7.43	798	>	1000	4.2				
1234	i9.8	7.41	794	>	1000	6.3				
······		,	- <u>.</u>							
Did well dev	water?	Yes (	No	Gallons	s actuall	y evacuated:	6.3			
Sampling D	ate: 1/23/	14	Sampling Time	e: 124	12	Depth to Wat	er: 11.29			
Sample I.D.	: mw-	-20		Labora	tory:	Kiff CalScien	ce Other McCamphall			
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other: Scc	CoC			
EB I.D. (if a	pplicable)	•	@ Time	Duplica	ate I.D. (	(if applicable)				
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:				
D.O. (if req'	d): Pr	e-purge:		^{mg} /L	P	ost-purge:	^{mg} /L			
O.R.P. (if re	q'd): Pr	e-purge:		mV	Р	ost-purge:	mV			

			16	680 ROG	ERS AVE	NUE	<u> </u>	CON	NDUCT	ANAL	YSIS -	TO DE	TECT		LAB	McCampbel	1	DHS #
BLAI	NE	SAN J	IOSE, CA		IIA 95112			1	T	T	T	<u> </u>		T	ALL ANALYSES MUST M		TIONS AND DE	TECTION LIMITS SET
		_	,		(408) 573- (408) 573-			dn							BY CALIFORNIA DHS AN		_	
TECH SER	VICES, IN	C.	ſ	HONE	(400) 57 5-	0000												GION
CHAIN OF CUS						1		clean										
		BTS #	140	123_1	DRI	S		l c										
CLIENT					£	ЩĤ		l gel							SPECIAL INSTRUCTION	S		<u></u>
	CKG Er	ivironm	ental			1₹	02	lice										
SITE	Owens I	Brockwa	ay Glas	s Plan	ıt	CONTAINERS	TPHg / BTEX (8015/8021)	w/silica							Invoice and Report	to : CKG En	vironmental	£
							801	MO										
	3600 Al	ameda A	Avenue	;			E X	TPH-mo	,						808 Zinfindel Lane	, St Helena, C	JA 94574	
	Oakland, CA						E	H	•						Attn: Christina Ker	nnedy		•
	MATRIX CONTAINERS						B	E							Dissolved product i	n samples MV	V-2 and MW	-6
							6	ļ Ļ							Please provide EDF	and PDF of r	esults	
			S= SOIL W=H ₂ 0			= COMPOSITE	H	TPH-d,										
SAMPLE I.D.	DATE	TIME	_=°_=	TOTAL		<u></u>	E	E						ļ	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-7	1/13/14	1108	Lad	4	11une	55	X	X										
MW-19		1128	W	4			X	4		1								1997 - Frank Standing, Standard (1997), 2011 - Standard Standard (1997), 1997
			W	4	1		X	<u>+</u>	1	1	1		•	1				
mw-6		1150	$+\omega$	- <u> </u>			$\downarrow \frown$	1						ļ				
MW-5	_	1215	W	4			X	X							Lasl			
MLJ-20		1242	w	4			X	X				, d	Prove State		I WY			•
				<u> </u>			+	$\downarrow$	+				e L			-	++	
MW-8		<u>1135</u>	W	4	<b></b>		$\downarrow \chi$	14	<u> </u>	ļ		) 	and h					
MW-10		<u>1125</u>	W	4			X	X										
		1155		4			X	X						1				
MW-13			1				X	1						+			+	
MW-16		1225		4				X	<u> </u>	ļ				ļ				1. 38 1 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
- MW-17 MW-15		1420	W	4. 4			X	<u> </u> ∱		·						-		
SAMPLING	DATE		SAMPLI		<u> </u>	~		A		I	I			1	RESULTS NEEDED			
COMPLETED	1/23/14	•	PERFO	RMED B	Y )	. Ra	mil	11	3. L	Vale	5				NO LATER THAN	Per Client		
RELEASED BY	$\sim$		L			DA	ΓE	-j	TIME			RECE	IVED.	BY	<u></u>		DATE	TIME
	1	1-	$\bigcirc$	>		· 1/	23/	14	1	540	5 🖣			1	E (quin	le custedim	1 1 long lass	1540
RELEASED BY									TIME			RECE	IVED	BY	(Juns)	CES PORT	DATE	TIME
1						•			1	*	Ę							
RELEASED BY						DA	E		TIME			RECE	IVED	BY		-	DATE	TIME
1						•					Ę							
SHIPPED VIA						DA	E SEN	IT	TIME	SENT	ĺ	COOL	ER#	·····	1			
									1						1			

				580 ROG					CON	IDUCT	ANAL	YSIS	TO DE	TECT		LAB	McCampbel		DHS #
BLAI	NE	SAN J	OSE, CA			112-11 573-77			1	Γ	Ι					ALL ANALYSES MUST N BY CALIFORNIA DHS AI		TIONS AND DET	TECTION LIMITS SET
TECH SERV	VICES, INC	5.	F	PHONE					dn										GION
							٦		clean										······
CHAIN OF CUS	TODY	BTS #	140	123-	DRI		s		lcl							OTHER			
CLIENT	OVO D.						NER	(T	a gel							SPECIAL INSTRUCTION	IS		
SITE	CKG Er	wironin	entai				ITAI	802	ilic										
	Owens I	Brockwa	ay Glas	s Plan	nt		CONTAINERS	(8015/8021)	s/w							Invoice and Report	to : CKG En	vironmental	
	3600 Alameda Avenue					ALL	8	TPH-mo w/silica							808 Zinfindel Lane	, St Helena, (	CA 94574		
							EX	H	- " -						Attn: Christina Ke	nnedv			
	Oakland,		MATRIX		NTAIN	ERS	0SI	BT								Dissolved product	-	N-2 and MW⋅	-6
			1				COMPOSITE	TPHg / BTEX	TPH-d,							Please provide EDF	-		1
			S= SOIL W=H ₂ 0				11	Hd	L H H								071710		
SAMPLE I.D.	DATE	TIME		TOTAL		-	0		Τ							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-7	143/14	1108	Val	4	114	vens	ļ	X			ļ	<u> </u>	ļ						
MW-19		1128	W	4	<u> </u>			X	1			ļ							
mw-6		1150	w	4				X	x										******
MW-5		1215	W	4				X	X										
MW-20		1242	w	4				X	X										-
MW-8		1135	W	4				X	X										
MW-10		1125	W	4				X	X										
MW-13		1155	ŧω	4				x	X										
MW-16		1225	·ω	4				X	X										
- MW-17		1420	$\omega$	4			<b> </b>	X	X										
MW-15 SAMPLING	DATE	1400 TIME	い SAMPLI	<u>Ч</u> NG	8	1	۱ ^					I	[]	L		RESULTS NEEDED			
COMPLETED	1/23/14	1	PERFOR		Y	D.1	Rey	nal	/E	R. U	hele	5				NO LATER THAN	Per Client		
RELEASED BY							DAT	E /		TIME				IV,ED-E	NY	/	· · ·	DATE	TIME
		$) \rightarrow \geq $	$\leq$	د			$\underline{ll}$	23/	14		540	5 4			_	(Seum	le custedim	1/23/14	1540
RELEASED BY	1 Gan	role	as 5	den	)		DAT //	E 124 /	64	TIME	10 -					me		DATE 1/21/1	TIME 'Y バイロ
RELEASED BY					<u></u>		DAT	E		TIME	-,			IVED E				DATE	TIME
SHIPPED VIA							DAT	E SEN	Т	TIME	SENT		COOL	ER #					
				•															

Cel.

### TEST EQUIPMENT CALIBRATION LOG

PROJECT NAM	NE CK6 CON	iens Brocknung	Glass Plant	PROJECT NUM	1BER 140123-DA	:/	,
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST		EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	o TEMP. <	INITIALS
Myron L Ultrampor	6212892	1/23/14 0045	7.0 10.0 4.0 3400	7.01 9.98 4.0	Ý		Dz
Hach Torbidisceter	08070031444	1/23/14 00655	568 55 5.7	558 54 5	Ý	and the second	È
Myron-L Utrouefr II	6720709	1/23/14@035	PH 7,10,4 Cond 3900-1/a	7.0,10.0, 4.0 3900 m/m	Ý	18.50	B
Hach 2100P Turbichetr	BTSOOZ	1/23/14 80640	800 ntu		Y	N/A	E
				,			
	· · · · · ·						
				¢			

ni Anna Martinense **APPENDIX B** 



McCampbell Analytical, Inc.

"When Quality Counts"

## **Analytical Report**

WorkOrder:	1401717
<b>Report Created for:</b>	CKG Environmental P.O. Box 246 St. Helena, CA 94574
Project Contact: Project P.O.: Project Name:	Christina Kennedy #140123_DRI; Owens Brockway Glass Plant
Project Received:	01/24/2014

Analytical Report reviewed & approved for release on 01/31/2014 by:

Question about your data? <u>Click here to email</u> McCampbell

Angela Rydelius, Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com NELAP: 12283CA ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

LAP: 12283CA ♦ ELAP: 1644 ♦ ISO/IEC: 1/025:2005 ♦ WSDE: C9/2-11 ♦ ADEC: UST-098 ♦ UCMR3



### **Glossary of Terms & Qualifier Definitions**

Client:	CKG Environmental
Project:	#140123_DRI; Owens Brockway Glass Plant
WorkOrder:	1401717

<u>Glossary</u> Abbreviation	Description
95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

#### <u>Analytical</u> <u>Qualifier</u>

S	spike recovery outside accepted recovery limits
b6	lighter than water immiscible sheen/product is present
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e1	unmodified or weakly modified diesel is significant
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant
e11/e2	stoddard solvent/mineral spirit (?); and/or diesel range compounds are significant; no recognizable pattern



### **Glossary of Terms & Qualifier Definitions**

Client:CKG EnvironmentalProject:#140123_DRI; Owens Brockway Glass PlantWorkOrder:1401717



aaa-TFT

### **Analytical Report**

Client:	CKG Environmental	WorkOrder:	1401717
Project:	#140123_DRI; Owens Brockway Glass Plant	<b>Extraction Method</b>	SW5030B
Date Received:	1/24/14 20:29	Analytical Method:	SW8021B/8015Bm
Date Prepared:	1/27/14-1/29/14	Unit:	µg/L

#### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Co	ollected	Instrument	Batch ID
MW-7	1401717-001A	Water	01/23/201	14 11:08	GC3	86479
Analytes	Result		<u>RL</u>	DF		Date Analyzed
TPH(g)	650		50	1		01/29/2014 00:13
MTBE			5.0	1		01/29/2014 00:13
Benzene	ND		0.50	1		01/29/2014 00:13
Toluene	ND		0.50	1		01/29/2014 00:13
Ethylbenzene	0.52		0.50	1		01/29/2014 00:13
Xylenes	1.6		0.50	1		01/29/2014 00:13
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Anal	ytical Comments: d7,	d9,b6
aaa-TFT	106		70-130			01/29/2014 00:13
MW-19	1401717-002A	Water	01/23/201	14 11:28	GC3	86479
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
TPH(g)	380		50	1		01/27/2014 15:19
MTBE			5.0	1		01/27/2014 15:19
Benzene	ND		0.50	1		01/27/2014 15:19
Toluene	ND		0.50	1		01/27/2014 15:19
Ethylbenzene	ND		0.50	1		01/27/2014 15:19
Xylenes	0.82		0.50	1		01/27/2014 15:19
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Anal	ytical Comments: d7	

MW-6	1401717-003A Water	01/23/2014	11:50 GC3	86479
Analytes	<u>Result</u>	<u>RL</u>	DF	Date Analyzed
TPH(g)	230	50	1	01/29/2014 00:42
MTBE		5.0	1	01/29/2014 00:42
Benzene	ND	0.50	1	01/29/2014 00:42
Toluene	ND	0.50	1	01/29/2014 00:42
Ethylbenzene	ND	0.50	1	01/29/2014 00:42
Xylenes	ND	0.50	1	01/29/2014 00:42
Surrogates	<u>REC (%)</u>	<u>Limits</u>	Analytical Comments: d7,b6	
aaa-TFT	96	70-130		01/29/2014 00:42

70-130

102



01/27/2014 15:19



Client:	CKG Environmental	WorkOrder:	1401717
Project:	#140123_DRI; Owens Brockway Glass Plant	<b>Extraction Method</b>	SW5030B
Date Received:	1/24/14 20:29	Analytical Method:	SW8021B/8015Bm
Date Prepared:	1/27/14-1/29/14	Unit:	µg/L

#### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Col	lected Instrument	Batch ID
MW-5	1401717-004A	Water	01/23/2014	12:15 GC3	86479
Analytes	Result		<u>RL</u>	DF	Date Analyzed
TPH(g)	160		50	1	01/29/2014 01:12
MTBE			5.0	1	01/29/2014 01:12
Benzene	ND		0.50	1	01/29/2014 01:12
Toluene	ND		0.50	1	01/29/2014 01:12
Ethylbenzene	ND		0.50	1	01/29/2014 01:12
Xylenes	ND		0.50	1	01/29/2014 01:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d7	
aaa-TFT	96		70-130		01/29/2014 01:12

MW-20	1401717-005A Water	01/23/2014 12:42 GC3	86479
Analytes	<u>Result</u>	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	50 1	01/27/2014 20:45
MTBE		5.0 1	01/27/2014 20:45
Benzene	ND	0.50 1	01/27/2014 20:45
Toluene	ND	0.50 1	01/27/2014 20:45
Ethylbenzene	ND	0.50 1	01/27/2014 20:45
Xylenes	ND	0.50 1	01/27/2014 20:45
Surrogates	<u>REC (%)</u>	Limits	
aaa-TFT	101	70-130	01/27/2014 20:45

MW-8	1401717-006A Water	01/23/201	4 11:35 GC3	86479
Analytes	<u>Result</u>	<u>RL</u>	DF	Date Analyzed
TPH(g)	82	50	1	01/29/2014 01:41
MTBE		5.0	1	01/29/2014 01:41
Benzene	ND	0.50	1	01/29/2014 01:41
Toluene	ND	0.50	1	01/29/2014 01:41
Ethylbenzene	ND	0.50	1	01/29/2014 01:41
Xylenes	ND	0.50	1	01/29/2014 01:41
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	Analytical Comments: d7	
aaa-TFT	96	70-130		01/29/2014 01:41





Client:	CKG Environmental	WorkOrder:	1401717
Project:	#140123_DRI; Owens Brockway Glass Plant	<b>Extraction Method</b>	SW5030B
Date Received:	1/24/14 20:29	Analytical Method:	SW8021B/8015Bm
Date Prepared:	1/27/14-1/29/14	Unit:	µg/L

#### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Co	ollected Instrument	Batch ID
MW-10	1401717-007A	Water	01/23/20 ⁻	14 11:25 GC3	86479
Analytes	Result		<u>RL</u>	DF	Date Analyzed
TPH(g)	270		50	1	01/27/2014 21:44
MTBE			5.0	1	01/27/2014 21:44
Benzene	ND		0.50	1	01/27/2014 21:44
Toluene	ND		0.50	1	01/27/2014 21:44
Ethylbenzene	ND		0.50	1	01/27/2014 21:44
Xylenes	0.91		0.50	1	01/27/2014 21:44
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d7	
aaa-TFT	99		70-130		01/27/2014 21:44
MW-13	1401717-008A	Water	01/23/20	14 11:55 GC3	86479
Analytes	Result		<u>RL</u>	DF	Date Analyzed
TPH(g)	ND		50	1	01/27/2014 22:13
MTBE			5.0	1	01/27/2014 22:13
Benzene	ND		0.50	1	01/27/2014 22:13

Toluene	ND	0.50 1	01/27/2014 22:13
Ethylbenzene	ND	0.50 1	01/27/2014 22:13
Xylenes	ND	0.50 1	01/27/2014 22:13
<u>Surrogates</u>	<u>REC (%)</u>	Limits	
aaa-TFT	99	70-130	01/27/2014 22:13

MW-16	1401717-009A Water	01/23/2014 12:25 GC3	86479
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	50 1	01/27/2014 22:43
MTBE		5.0 1	01/27/2014 22:43
Benzene	ND	0.50 1	01/27/2014 22:43
Toluene	ND	0.50 1	01/27/2014 22:43
Ethylbenzene	ND	0.50 1	01/27/2014 22:43
Xylenes	ND	0.50 1	01/27/2014 22:43
<u>Surrogates</u>	<u>REC (%)</u>	Limits	
aaa-TFT	99	70-130	01/27/2014 22:43





Client:	CKG Environmental	WorkOrder:	1401717
Project:	#140123_DRI; Owens Brockway Glass Plant	<b>Extraction Method</b>	SW5030B
Date Received:	1/24/14 20:29	Analytical Method:	SW8021B/8015Bm
Date Prepared:	1/27/14-1/29/14	Unit:	μg/L

#### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Col	lected Instrument	Batch ID
MW-17	1401717-010A	Water	01/23/2014	4 14:20 GC3	86479
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
TPH(g)	370		50	1	01/29/2014 02:11
МТВЕ			5.0	1	01/29/2014 02:11
Benzene	ND		0.50	1	01/29/2014 02:11
Toluene	ND		0.50	1	01/29/2014 02:11
Ethylbenzene	ND		0.50	1	01/29/2014 02:11
Xylenes	ND		0.50	1	01/29/2014 02:11
Surrogates	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	Analytical Comments: d	7,d9,b6,c4
aaa-TFT	144	S	70-130		01/29/2014 02:11
MW-15	1401717-011A	Water	01/23/2014	4 14:00 GC3	86479

14144-13	1401717-011A Water	01/23/2014 14:00 GC	.5 80479
Analytes	<u>Result</u>	<u>RL DF</u>	Date Analyzed
TPH(g)	ND	50 1	01/27/2014 23:42
MTBE		5.0 1	01/27/2014 23:42
Benzene	ND	0.50 1	01/27/2014 23:42
Toluene	ND	0.50 1	01/27/2014 23:42
Ethylbenzene	ND	0.50 1	01/27/2014 23:42
Xylenes	ND	0.50 1	01/27/2014 23:42
Surrogates	<u>REC (%)</u>	<u>Limits</u>	
aaa-TFT	98	70-130	01/27/2014 23:42



Client:	CKG Environmental	WorkOrder:	1401717
Project:	#140123_DRI; Owens Brockway Glass Plant	<b>Extraction Method</b>	SW3510C/3630C
Date Received:	1/24/14 20:29	Analytical Method:	SW8015B
Date Prepared:	1/24/14	Unit:	μg/L

#### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Col	lected Instrument	Batch ID
MW-7	1401717-001B	Water	01/23/201	4 11:08 GC11B	86431
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
TPH-Diesel (C10-C23)	130,000		5000	100	01/29/2014 22:54
TPH-Motor Oil (C18-C36)	82,000		25,000	100	01/29/2014 22:54
Surrogates	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	Analytical Comments: e1	
C9	132	S	70-130		01/29/2014 22:54
MW-19	1401717-002B	Water	01/23/201	4 11:28 GC9a	86431
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
TPH-Diesel (C10-C23)	490		50	1	01/27/2014 20:55
TPH-Motor Oil (C18-C36)	ND		250	1	01/27/2014 20:55
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e2	
C9	103		70-130		01/27/2014 20:55
MW-6	1401717-003B	Water	01/23/201	4 11:50 GC9b	86431
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
TPH-Diesel (C10-C23)	87,000		5000	50	01/28/2014 01:20
TPH-Motor Oil (C18-C36)	73,000		25,000	50	01/28/2014 01:20
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e2,	e7,b6
C9	117		70-130		01/28/2014 01:20
MW-5	1401717-004B	Water	01/23/201	4 12:15 GC11A	86431
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
TPH-Diesel (C10-C23)	5100		50	1	01/27/2014 16:04
TPH-Motor Oil (C18-C36)	4500		250	1	01/27/2014 16:04
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e2,	e7
C9	106		70-130		01/27/2014 16:04





Client:	CKG Environmental	WorkOrder:	1401717
Project:	#140123_DRI; Owens Brockway Glass Plant	<b>Extraction Method</b>	SW3510C/3630C
Date Received:	1/24/14 20:29	Analytical Method:	SW8015B
Date Prepared:	1/24/14	Unit:	µg/L

#### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Co	llected	Instrument	Batch ID
MW-20	1401717-005B	Water	01/23/201	4 12:42	GC9b	86431
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
TPH-Diesel (C10-C23)	ND		50	1		01/28/2014 00:14
TPH-Motor Oil (C18-C36)	ND		250	1		01/28/2014 00:14
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
C9	89		70-130			01/28/2014 00:14
MW-8	1401717-006B	Water	01/23/201	4 11:35	GC9a	86431
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
TPH-Diesel (C10-C23)	110		50	1		01/27/2014 22:01
TPH-Motor Oil (C18-C36)	ND		250	1		01/27/2014 22:01
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Analy	tical Comments: e11/e2	
C9	108		70-130			01/27/2014 22:01
MW-10	1401717-007B	Water	01/23/201	4 11:25	GC6A	86431
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
TPH-Diesel (C10-C23)	1100		50	1		01/27/2014 21:41
TPH-Motor Oil (C18-C36)	830		250	1		01/27/2014 21:41
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analy	/tical Comments: e2,e7	
C9	102		70-130			01/27/2014 21:41
MW-13	1401717-008B	Water	01/23/201	4 11:55	GC11B	86431
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
TPH-Diesel (C10-C23)	ND		50	1		01/29/2014 14:16
TPH-Motor Oil (C18-C36)	ND		250	1		01/29/2014 14:16
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
C9	110		70-130			01/29/2014 14:16





Client:	CKG Environmental	WorkOrder:	1401717
Project:	#140123_DRI; Owens Brockway Glass Plant	<b>Extraction Method</b>	SW3510C/3630C
Date Received:	1/24/14 20:29	Analytical Method:	SW8015B
Date Prepared:	1/24/14	Unit:	μg/L

#### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Coll	ected	Instrument	Batch ID
MW-16	1401717-009B	Water	01/23/2014	12:25	GC11A	86431
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	120		50	1		01/28/2014 10:21
TPH-Motor Oil (C18-C36)	990		250	1		01/28/2014 10:21
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Anal	ytical Comments: e7,e2	
C9	108		70-130			01/28/2014 10:21
MW-17	1401717-010B	Water	01/23/2014	14:20	GC2B	86431
Analytes	Result		<u>RL</u>	DF		Date Analyzed
TPH-Diesel (C10-C23)	59,000		2500	50		01/28/2014 21:05
TPH-Motor Oil (C18-C36)	32,000		12,000	50		01/28/2014 21:05
Surrogates	<u>REC (%)</u>		<u>Limits</u>	Anal	ytical Comments: e1,b6	
C9	118		70-130			01/28/2014 21:05
MW-15	1401717-011B	Water	01/23/2014	14:00	GC11B	86431
Analytes	Result		<u>RL</u>	DF		Date Analyzed
TPH-Diesel (C10-C23)	65		50	1		01/28/2014 06:55
TPH-Motor Oil (C18-C36)	ND		250	1		01/28/2014 06:55
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Anal	ytical Comments: e2	
C9	114		70-130			01/28/2014 06:55



### **Quality Control Report**

Client:	CKG Environmental	WorkOrder:	1401717
Date Prepared:	1/27/14	BatchID:	86479
Date Analyzed:	1/27/14	<b>Extraction Method</b>	SW5030B
Instrument:	GC3	Analytical Method:	SW8021B/8015Bm
Matrix:	Water	Unit:	μg/L
Project:	#140123_DRI; Owens Brockway Glass Plant	Sample ID:	MB/LCS-86479 1401728-015AMS/MSD

Analyte	MB Result	LCS Result		RL	SPK Val	MB SS		CS REC	LCS Limits
TPH(btex)	ND	59.98		40	60	-	1(	00	70-130
МТВЕ	ND	10.3		5.0	10	-	1(	)3	70-130
Benzene	ND	10.33		0.50	10	-	1(	)3	70-130
Toluene	ND	10.34		0.50	10	-	1(	)3	70-130
Ethylbenzene	ND	10.38		0.50	10	-	1(	)4	70-130
Xylenes	ND	31.36		0.50	30	-	1(	)5	70-130
Surrogate Recovery									
aaa-TFT	9.896	9.671			10	99	9	7	70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSI Limits	) RPC	) RPC Limi
<b>Analyte</b> TPH(btex)		-	-			-		) RPC	Limi
TPH(btex)	Result	Result	Val	Val	%REC	%REC	Limits		<b>Limi</b> 5 20
TPH(btex) MTBE	Result 59.76	<b>Result</b> 60.94	<b>Val</b> 60	Val ND	%REC 99.6	%REC 102	Limits 70-130	1.95	Limi 5 20 20
-	Result 59.76 8.901	<b>Result</b> 60.94 9.018	<b>Val</b> 60 10	Val ND ND	%REC 99.6 89	%REC 102 90.2	Limits 70-130 70-130	1.95	Limi 5 20 20 7 20
TPH(btex) MTBE Benzene	Result           59.76           8.901           10.34	Result 60.94 9.018 9.762	Val 60 10 10	Val ND ND ND	%REC 99.6 89 103	%REC 102 90.2 97.6	Limits 70-130 70-130 70-130	1.95 1.31 5.77	Limi 5 20 20 7 20 7 20
TPH(btex) MTBE Benzene Toluene Ethylbenzene	Result           59.76           8.901           10.34           10.27	Result           60.94           9.018           9.762           9.811	Val 60 10 10 10	Val ND ND ND ND	%REC 99.6 89 103 103	%REC 102 90.2 97.6 98.1	Limits 70-130 70-130 70-130 70-130	1.95 1.31 5.77 4.57	Limi
TPH(btex) MTBE Benzene Toluene	Result           59.76           8.901           10.34           10.27           10.19	Result           60.94           9.018           9.762           9.811           9.816	Val           60           10           10           10           10	Val ND ND ND ND ND	%REC           99.6           89           103           103           102	%REC 102 90.2 97.6 98.1 98.2	Limits 70-130 70-130 70-130 70-130 70-130	1.95 1.31 5.77 4.57 3.77	Limi

_QA/QC Officer Page 11 of 17



### **Quality Control Report**

Client:	CKG Environmental	WorkOrder:	1401717
Date Prepared:	1/24/14	BatchID:	86431
Date Analyzed:	1/25/14	<b>Extraction Method</b>	SW3510C/3630C
Instrument:	GC6A	Analytical Method:	SW8015B
Matrix:	Water	Unit:	μg/L
Project:	#140123_DRI; Owens Brockway Glass Plant	Sample ID:	MB/LCS-86431

QC Summary Report for SW8015B													
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits						
TPH-Diesel (C10-C23)	ND	1017	50	1000	-	102	70-130						
Surrogate Recovery													
C9	529.9	591.9		625	85	95	70-130						



# McCampbell Analytical, Inc.



Page 1 of 1

Pittsburg, CA 945 (925) 252-9262	65-1701				W	orkO	rder: 1	1401717	7	Cli	entCod	e: CKG	SS				
		WaterTrax	WriteOn	<b>✔</b> EDF	E	xcel		EQuIS		Email		HardCop	by [	ThirdParty	[	J-flaç	3
Report to:						Bil	ll to:					R	eques	ted TAT:		5 da	ays
Christina Kennedy CKG Environmental P.O. Box 246 St. Helena, CA 945 (707) 967-8080 F/		cc: PO: ProjectNo: #	kennedy@geolo 140123_DRI; C Plant	ogist.com )wens Brockway (	Glass	Accounts Payable CKG Environmental 808 Zinfindel Lane ss St. Helena, CA 94574						_		eceived: rinted:		01/24/2014 01/24/2014	
									Red	quested	Tests (	See legei	nd bel	ow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9 1	0	11	12
1401717-001	MW-7		Water	1/23/2014 11:08		А	A	В									

1401717-002	MW-19	Water	1/23/2014 11:28	Α	В			
1401717-003	MW-6	Water	1/23/2014 11:50	Α	В			
1401717-004	MW-5	Water	1/23/2014 12:15	Α	В			
1401717-005	MW-20	Water	1/23/2014 12:42	Α	В			
1401717-006	MW-8	Water	1/23/2014 11:35	Α	В			
1401717-007	MW-10	Water	1/23/2014 11:25	Α	В			
1401717-008	MW-13	Water	1/23/2014 11:55	Α	В			
1401717-009	MW-16	Water	1/23/2014 12:25	А	В			
1401717-010	MW-17	Water	1/23/2014 14:20	Α	В			
1401717-011	MW-15	Water	1/23/2014 14:00	Α	В			

#### Test Legend:

1	G-MBTEX_W
6	
11	

2	PREDF REPORT	
7		
12		

3 TPH(DMO)WSG_W 8

4	
9	

5	
10	

Prepared by: Daniel Loa

#### **Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

#### WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL

#140123 DRI; Owens Brockway Glass Plant **Project: Comments:** 

**QC Level:** LEVEL 2 Client Contact: Christina Kennedy Contact's Email: ckennedy@geologist.com

Work Order: 1401717 Date Received: 1/24/2014

		WaterTrax	WriteOn	EDF	Excel	]Fax <b>√</b> Email	HardC	opy ThirdParty	′J	-flag	
Lab ID	Client ID	Matrix	Test Name		Number of Containers	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1401717-001A	MW-7	Water	SW8021B/80	15Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 11:08	5 days	Present	
1401717-001B	MW-7	Water	SW8015B (T	PH-d,mo w/ S.G. Clean-U	p) 2	VOA w/ HCl		1/23/2014 11:08	5 days	Present	
1401717-002A	MW-19	Water	SW8021B/80	15Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 11:28	5 days	Present	
1401717-002B	MW-19	Water	SW8015B (T	PH-d,mo w/ S.G. Clean-U	p) 2	VOA w/ HCl		1/23/2014 11:28	5 days	Present	
1401717-003A	MW-6	Water	SW8021B/80	15Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 11:50	5 days	Present	
1401717-003B	MW-6	Water	SW8015B (T	PH-d,mo w/ S.G. Clean-U	p) 2	VOA w/ HCl		1/23/2014 11:50	5 days	Present	
1401717-004A	MW-5	Water	SW8021B/80	15Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 12:15	5 days	Present	
1401717-004B	MW-5	Water	SW8015B (T	PH-d,mo w/ S.G. Clean-U	p) 2	VOA w/ HCl		1/23/2014 12:15	5 days	Present	
1401717-005A	MW-20	Water	SW8021B/80	15Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 12:42	5 days	Present	
1401717-005B	MW-20	Water	SW8015B (T	PH-d,mo w/ S.G. Clean-U	p) 2	VOA w/ HCl		1/23/2014 12:42	5 days	Present	
1401717-006A	MW-8	Water	SW8021B/80	15Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 11:35	5 days	Present	
1401717-006B	MW-8	Water	SW8015B (T	PH-d,mo w/ S.G. Clean-U	p) 2	VOA w/ HCl		1/23/2014 11:35	5 days	Present	
1401717-007A	MW-10	Water	SW8021B/80	15Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 11:25	5 days	Present	
1401717-007B	MW-10	Water	SW8015B (T	PH-d,mo w/ S.G. Clean-U	p) 2	VOA w/ HCl		1/23/2014 11:25	5 days	Present	
1401717-008A	MW-13	Water	SW8021B/80	15Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 11:55	5 days	Present	
1401717-008B	MW-13	Water	SW8015B (T	PH-d,mo w/ S.G. Clean-U	p) 2	VOA w/ HCl		1/23/2014 11:55	5 days	Present	
1401717-009A	MW-16	Water	SW8021B/80	15Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 12:25	5 days	Present	

* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).

**Bottle Legend:** 

VOA w/ HCI = 43mL VOA w/ HCI



1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

#### WORK ORDER SUMMARY

Client Name Project:		RONMENTAL RI; Owens Brockway (	Glass Plant	-	C Level: LE Contact: Ch	EVEL 2 rristina Kennedy				k Order: Received:	
Comments:		,				ennedy@geologist.com					
		WaterTrax	WriteOn	<b>y</b> EDF □E	xcel	]Fax <b>√</b> Email	HardCo	opy ThirdPart	y 🗌	I-flag	
Lab ID	Client ID	Matrix	Test Name		Number of Containers	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1401717-009B	MW-16	Water	SW8015B (TP	H-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl		1/23/2014 12:25	5 days	Present	
1401717-010A	MW-17	Water	SW8021B/801	5Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 14:20	5 days	Present	
1401717-010B	MW-17	Water	SW8015B (TP	H-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl		1/23/2014 14:20	5 days	Present	
1401717-011A	MW-15	Water	SW8021B/801	5Bm (G/MBTEX)	2	VOA w/ HCl		1/23/2014 14:00	5 days	Present	
1401717-011B	MW-15	Water	SW8015B (TP	H-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl		1/23/2014 14:00	5 days	Present	

* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).

**Bottle Legend:** 

VOA w/ HCI = 43mL VOA w/ HCI

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### 1401717

					GERS AV			CO	NDUCT ANALYSIS	TO DET	ECT	LAB McCampbell DHS #
BLA TECH SEF			IOSE, CA	FAX	(408) 573 (408) 573 (408) 573	3-7771		dn u				ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS BY CALIFORNIA DHS AND
CHAIN OF CU	STODY	BTS #	140	123_	DRI	0		l clean				OTHER .
CLIENT	CKG E	nvironm				CONTAINERS	121)	ca gel				SPECIAL INSTRUCTIONS
SITE	Owens	Brockwa	ay Glas	s Plan	nt	CONT	(8015/8021)	TPH-mo w/silica				Invoice and Report to : CKG Environmental
	3600 Al	lameda A	Avenue	;		ALL	8	-ou-				808 Zinfindel Lane, St Helena, CA 94574
	Oakland	, CA		0	NTAINER	OSITE	STEX	Hd.				Attn: Christina Kennedy
	1		MATRIX N=H ⁵ 0 M=H ⁵ 0			COMP	TPHg / BTEX	TPH-d, 1				Dissolved product in samples MW-2 and MW-6 Please provide EDF and PDF of results
SAMPLE I.D.	DATE	TIME		TOTAL	-	0		TP				ADD'L INFORMATION STATUS CONDITION LAB SAMPLE
MW-7	11-3/14	1108	w	4	Her.	45	X	X				· · · · · · · · · · · · · · · · · · ·
MW-19		1128	W	4			X	+				
MW-6		1150	W	4			X	×				
MW-5		1215	W	4			X	X				
MW-20		1242	w	4			X	X	1.1			
MW-8		1135	W	4			X	X				
MW-10		1125	W	4			X	X				ICE / t . 4. 2 GOOD CONDITION APPROPRIATE
MW-13		1155	w	4			X	X				NEAD SPACE ABSENT CONTAINERS DECHLORINATED IN LAB PRESERVED IN LAB
MW-16 MW-17		1225	W	4			×	X				PRESERVATION YOAS OLG METALS OTHER
MW-15		1420	W	Y. Y	1		X	X				
SAMPLING COMPLETED	DATE		SAMPLIN		r D	. Rey	Isal	/E	3. Weeks			RESULTS NEEDED NO LATER THAN Per Client
RELEASED BY	,	)->	$\bigcirc$	>		DAT 11	E 23/	14	TIME 1546 1	RECEIV	FD-BY	Sumple custedin DATE TIME 1540
RELEASED BY	Clen	nole .	Cis to	dui	)	DAT	E /24/		TIME	RECEIV	ED BY	Jule DATE TANK
RELEASED BY	K	2					4/11	1	TIME 1607	RECEIV	the	DATE  TIME
SHIPPED VIA						DÀT	E ŚEN	т	TIME SENT	COOLE	R#	



#### Sample Receipt Checklist

Client Name:	CKG Environmental	I				Date and T	Time Received:	1/24/2014 8:29:19 PM
Project Name:	#140123_DRI; Owe	ns Brockway Glass P	lant			LogIn Rev	iewed by:	Daniel Loa
WorkOrder N°:	1401717	Matrix: Water				Carrier:	Benjamin Ysla	s (MAI Courier)
		<u>Cha</u>	in of Cu	ustody (CC	<u> ) C) In</u>	formation		
Chain of custody	present?		Yes	✓	N	о 🗌		
Chain of custody	v signed when relinquis	shed and received?	Yes	✓	N	о 🗌		
Chain of custody	agrees with sample la	abels?	Yes	✓	N	о 🗌		
Sample IDs note	d by Client on COC?		Yes	✓	N	o 🗌		
Date and Time o	f collection noted by C	Client on COC?	Yes	✓	N	o 🗌		
Sampler's name	noted on COC?		Yes	✓	N	o 🗌		
			Sample	e Receipt I	Inform	<u>ation</u>		
Custody seals in	tact on shipping conta	iner/cooler?	Yes		N	o 🗌		NA 🗹
Shipping contain	er/cooler in good cond	dition?	Yes	✓	N	о 🗌		
Samples in prop	er containers/bottles?		Yes	✓	N	о 🗌		
Sample containe	ers intact?		Yes	✓	N	о 🗌		
Sufficient sample	e volume for indicated	test?	Yes	✓	N	о 🗌		
		Sample Pres	servatio	n and Hol	d Tim	<u>e (HT) Info</u>	ormation	
All samples rece	ived within holding tim	ie?	Yes	✓	N	o 🗌		
Container/Temp	Blank temperature		Coole	er Temp:	4.2°C			
Water - VOA via	ls have zero headspac	ce / no bubbles?	Yes	✓	N	о 🗌		
Sample labels ch	necked for correct pres	servation?	Yes	✓	N	о 🗌		
Metal - pH accep	otable upon receipt (pł	H<2)?	Yes		N	o 🗌		NA 🗹
Samples Receive	ed on Ice?		Yes	✓	N	o 🗌		
		(Ісе Тур	be: WE	TICE)				

* NOTE: If the "No" box is checked, see comments below.

Comments:

_____

_____