



## APPENDIX A

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Well Purging and Sampling Records

February 2009 Sentry Event

DFSP Norwalk Quarterly GWM – Feb. 2009

GAUGING DATA

Page 1 of 4

Date	Time	Well no.	DTP	DTW	notes
02/09/09	08:38	GMW-61	—	27.56	
↓	08:44	GMW-60	—	28.27	
	08:52	MW-13	—	29.88	
	09:00	GMW-47	—	28.07	
	09:05	GMW-57	—	28.72	
	09:12	GMW-58	—	26.78	Product odor
	09:18	GMW-59	—	26.05	Product odor
	09:25	EXP-01	—	52.56	
	09:29	MW-17	—	29.36	
	09:38	GMW-50	—	27.40	
	09:42	GMW-51	—	27.49	
	09:51	GW-15	27.98	28.02	Piezometer
	10:02	GMW-45	—	27.68	
	10:08	GMW-56	—	28.59	
	10:20	GMW-06	—	29.62	
	10:27	GMW-15	—	28.51	
	10:35	GMW-05	—	29.88	
	10:48	MW-23M	—	32.78	
	10:52	TF-24	—	29.90	
	11:00	GMW-16	—	29.18	
	11:06	GW-08	—	28.59	
11:10	MW-10	—	30.05		
11:17	GW-05	—	27.68		
11:25	GW-06	—	27.38		
11:34	TF-26	—	27.91	Piezometer	

DTP = Depth to Product

DTW = Depth to Water

DFSP Norwalk Quarterly GWM – Feb. 2009

GAUGING DATA

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Date	Time	Well no.	DTP	DTW	notes
02/09/09	11:38	GMW-21	—	27.48	
↓	12:21	GW-04	—	26.05	Piezometer
	12:27	MW-24	—	29.67	
	12:36	EXP-02	—	52.81	
	12:45	GW-03	—	27.12	
	12:54	GW-02	—	27.61	Piezometer
	12:59	MW-14	—	30.77	
	13:07	GW-13	—	28.88	
	13:15	GW-01	—	27.06	Piezometer
	13:40	MW-22M	—	32.96	
	13:43	MW-25	—	30.70	
	13:51	MW-26	—	29.11	
	14:02	MW-27	—	30.44	
	02/10/09	08:19	TF-08	—	27.69
↓	08:25	TF-09	—	27.82	
	08:33	GMW-17	—	27.05	
	08:41	TF-11	—	26.90	Piezometer
	08:50	GMW-31	—	28.87	
	08:54	PZ-04	—	27.05	
	09:05	PZ-03	—	27.31	
	09:10	TF-25	—	27.62	Piezometer
	09:16	GW-07	—	27.75	
	09:35	TF-10	—	25.94	
	09:40	GMW-54	—	26.78	
↓	09:47	GMW-40	—	25.05	

DTP = Depth to Product

DTW = Depth to Water

DFSP Norwalk Quarterly GWM – Feb. 2009

GAUGING DATA

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Date	Time	Well no.	DTP	DTW	notes
02/10/09	09:52	GMW-41	—	26.58	
	10:12	TF-21	—	26.72	Piezometer
	10:18	GMW-35	—	27.70	
	10:30	TF-22	—	26.32	Piezometer
	10:36	TF-23	—	26.46	(GMW-46)
	10:43	TF-20	27.24	27.85	
	11:21	TF-17	26.05	27.66	
	11:45	GW-14	—	26.62	
	12:35	TF-16	—	27.73	Piezometer
	12:44	TF-15	—	27.78	Piezometer
	12:51	GMW-44	—	26.87	
	12:56	GMW-43	—	26.79	
	13:05	TF-14	—	26.91	Piezometer
	13:09	GMW-18	—	26.50	
	13:19	GMW-07	—	26.23	
	13:24	TF-13	—	26.14	Piezometer
	13:35	GMW-19	—	27.35	
	13:52	MW-16	—	28.54	
	13:57	GMW-52	—	26.95	
	14:01	GMW-53	—	26.78	
	14:09	TF-19	—	27.70	Piezometer
	14:17	TF-18	—	25.88	
	14:30	MW-29	—	30.26	
	14:34	GMW-32	—	26.15	
	14:48	GMW-12	—	26.39	

DTP = Depth to Product

DTW = Depth to Water

DFSP Norwalk Quarterly GWM – Feb. 2009

GAUGING DATA

Page 4 of 4

Date	Time	Well no.	DTP	DTW	notes
02/10/09	15:05	GMW-33	—	27.05	
	15:23	EXP-03	—	52.16	
	15:50	GMW-63	—	29.08	
	15:58	GMW-64	—	27.47	
↓	16:07	GMW-62	—	28.31	

DTP = Depth to Product

DTW = Depth to Water

**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: GMW-61  
Location: Norwalk, CA.  
Sample Collected by: D.T.  
Sample No.: GMW61

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 50 - DTW: 27.56 = 22.44 x  $\frac{\text{Gallons}}{\text{Water Column}}$  = 14.81 x  $\frac{\text{Casing}}{\text{1 casing volume}}$  = 44.5 Calculated Purge

Actual purge (gals): 51  
Date Purged: 2/11/09 Start (2400 hr): 0820 End (2400 hr): 0852  
Date Sampled: 02/12/2009 Time (2400 hr): 09:02

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
08:21	1	12.5	2.02	-0.09		204	none	6.95	
08:29	10	17.2	2.09	-0.06		84	stms	7.48	
08:34	20	18.0	2.01	-0.06		73	mild	7.53	
08:35	30	18.5	1.96	-0.06		67	mild	7.80	
08:47	40	18.3	1.55	-0.06		62	mild	7.63	
08:51	50	18.8	1.54	-0.06		73	mild	7.69	

Comments:

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**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: GMW-60  
Location: Norwalk, CA.  
Sample Collected by: D.T.  
Sample No.: GMW60

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 50 - DTW: 28.27 = 21.73 x  $\frac{\text{Gallons}}{\text{Water Column}}$  = 14.3 x  $\frac{\text{Casing}}{\text{1 casing volume}}$  = 43 Calculated Purge

Actual purge (gals): 51  
Date Purged: 2/11/09 Start (2400 hr): 0857 End (2400 hr): 0938  
Date Sampled: 02/12/2009 Time (2400 hr): 09:35

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. <input checked="" type="radio"/> C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
0858	1	15.9	2.11	-0.07		303	mild	7.81	
0905	10	18.6	1.88	-0.06		144	mild	7.79	
0911	20	18.7	2.05	-0.06		148	Mild	7.78	
0919	30	19.1	2.07	-0.06		160	mild	7.82	
0928	40	19.1	2.08	-0.06		128	mild	7.86	
0937	50	19.1	2.08	-0.06		187	none	7.89	

Comments:

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**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: GMW-57  
Location: Norwalk, CA.  
Sample Collected by: P.T.  
Sample No.: GMW57

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 55 - DTW: 28.72 = 26.28 x  $\frac{\text{Gallons}}{\text{Water Column}}$  = 17.35 x  $\frac{\text{Casing}}{\text{1 casing volume}}$  = 52 Calculated Purge

Actual purge (gals): 53  
Date Purged: 2/11/09 Start (2400 hr): 0942 End (2400 hr): 1003  
Date Sampled: 02/11/2009 Time (2400 hr): 10:21

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
<u>0945</u>	<u>1</u>	<u>19.1</u>	<u>1.76</u>	<u>-0.06</u>		<u>186</u>	<u>mild</u>	<u>7.56</u>	
<u>0947</u>	<u>10</u>	<u>20.0</u>	<u>1.76</u>	<u>-0.06</u>		<u>94</u>	<u>mild</u>	<u>7.81</u>	
<u>0950</u>	<u>20</u>	<u>20.7</u>	<u>1.80</u>	<u>-0.06</u>		<u>195</u>	<u>mild</u>	<u>7.82</u>	
<u>0954</u>	<u>30</u>	<u>20.8</u>	<u>1.82</u>	<u>-0.06</u>		<u>201</u>	<u>mild</u>	<u>7.83</u>	
<u>0957</u>	<u>40</u>	<u>20.7</u>	<u>1.85</u>	<u>-0.06</u>		<u>198</u>	<u>mild</u>	<u>7.84</u>	
<u>1002</u>	<u>52</u>	<u>20.7</u>	<u>1.85</u>	<u>-0.06</u>		<u>195</u>	<u>mild</u>	<u>7.87</u>	

Comments:

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**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: GMW-47  
Location: Norwalk, CA.  
Sample Collected by: D.T.  
Sample No.: GMW47

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 50.5 - DTW 28.07 = 22.43 x  $\frac{\text{Gallons}}{\text{Water Column}}$  = 14.8 x  $\frac{\text{Casing}}{\text{linear ft 1 casing volume}}$  = 44.5 Calculated Purge

Actual purge (gals): 51  
Date Purged: 2-11-09 Start (2400 hr): 10:44 End (2400 hr): 11:04  
Date Sampled: 02/12/2009 Time (2400 hr): 09:55

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
1045	1	22.4	1.55	-0.05		717	mild	7.52	
1050	10	20.9	1.70	-0.06		285	mild	7.76	
1054	20	21.3	1.66	-0.06		210	none	7.75	
1057	30	20.6	1.64	-0.06		215	none	7.80	
1100	40	21.3	1.60	-0.06		231	none	7.80	
1103	50	20.8	1.60	-0.05		222	none	7.83	

Comments:

Completed By: D. TRAN Signature: [Signature]  
(print name)

**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: GMW\_58  
Location: Norwalk, CA.  
Sample Collected by: D.T.  
Sample No.: GMW58

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 55 - DTW: 26.78 = 28.22 x  $\frac{\text{Gallons}}{\text{Water Column}}$  = 18.6 x  $\frac{\text{Casing}}{\text{1 casing volume}}$  = 56 Calculated Purge

Actual purge (gals): 63  
Date Purged: 2-11-09 Start (2400 hr): 1106 End (2400 hr): 1138  
Date Sampled: 02/12/2009 Time (2400 hr): 10:40

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
1107	1	19.9	1.58	-0.06		92	NONE	7.60	
1113	10	20.5	1.76	-0.05		187	NONE	7.92	
1121	20	20.9	1.77	-0.06		94	NONE	7.90	
1125	30	21.5	1.77	-0.06		92	NONE	7.93	
1129	40	21.5	1.75	-0.05		78	NONE	7.93	
1133	50	21.7	1.74	-0.06		222	NONE	7.53	
1137	60	22.1	1.75	-0.05		74	NONE	7.95	

Comments:

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(print name)

**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: GMW-59  
Location: Norwalk, CA.  
Sample Collected by: D.T.  
Sample No.: GMW59

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 55 - DTW: 26.05 = 28.95 x  $\frac{\text{Gallons}}{\text{Water linear ft}} = \frac{19.1}{1 \text{ casing volume}}$  x Casing = 57.3 Calculated Purge

Actual purge (gals): 1142 Column  
Date Purged: 2-11-09 Start (2400 hr): 1142 End (2400 hr): 1213  
Date Sampled: 02/12/2009 Time (2400 hr): 1105

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
1145	1	19.8	1.40	-0.06		930	strong	7.60	
1149	10	19.7	0.701	-0.06		249	mild	7.97	
1152	20	19.4	0.740	-0.06		177	none	7.99	
1157	30	19.6	0.704	-0.06		128	none	8.01	
1203	40	19.6	0.809	-0.06		117	none	8.01	
1207	50	20.2	0.916	-0.06		100	none	8.02	
1212	60	20.3	0.907	-0.06		95	none	8.02	

Comments:


Completed By: D. TRAN Signature: [Signature]  
(print name)

**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: MW-22 Mid  
Location: Norwalk, CA.  
Sample Collected by: D.T.  
Sample No.: MW22 Mid

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 57.9 - DTW: 32.96 = 24.94 x  $\frac{\text{Gallons}}{\text{Water Column}}$  = 16.5 x  $\frac{\text{Casing}}{\text{1 casing volume}}$  = 49.4 Calculated Purge

Actual purge (gals): 51  
Date Purged: 2-11-09 Start (2400 hr): 1317 End (2400 hr): 1406  
Date Sampled: 02/12/2009 Time (2400 hr): 11:52

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
1318	1	20.9	2.08	-0.05		366	none	8.01	
1328	10	20.1	2.15	-0.06		214	none	8.01	
1336	20	20.2	2.13	-0.06		217	none	8.02	
1345	30	19.7	2.16	-0.06		76	none	8.02	
1356	40	19.4	2.21	-0.06		216	none	7.97	
1405	50	19.8	2.22	-0.06		192	none	7.94	

Comments:

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Completed By: D. TRAN Signature: [Signature]  
(print name)

**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: MW-14  
Location: Norwalk, CA.  
Sample Collected by: D.T.  
Sample No.: MW14

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 50 - DTW: 30.77 = 19.23 x  $\frac{\text{Gallons}}{\text{Water Column}}$  = 12.7 x  $\frac{\text{Casing}}{\text{1 casing volume}}$  = 38 Calculated Purge

Actual purge (gals): 43  
Date Purged: 2/11/09 Start (2400 hr): 14:00 End (2400 hr): 14:29  
Date Sampled: 02/11/2009 Time (2400 hr): 11:30

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
14:11	1	18.5	2.04	-0.06		333	None	7.41	
14:16	10	20.1	2.01	-0.06		91	None	7.85	
14:20	20	20.3	2.04	-0.06		196	None	7.86	
14:24	30	20.7	2.05	-0.06		140	None	7.86	
14:28	40	19.2	2.07	-0.06		140	None	7.80	

Comments:

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Completed By: D. TRAN Signature: [Signature]  
(print name)

**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: ~~743447~~ 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: GMW-64  
Location: Norwalk, CA.  
Sample Collected by: D.T.  
Sample No.: GMW 64

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 40 - DTW: 27.47 = 12.53 x  $\frac{\text{Gallons}}{\text{Water Column}}$  = 8.27 x  $\frac{\text{Casing}}{\text{1 casing volume}}$  = 24.8 Calculated Purge

Actual purge (gals): 27  
Date Purged: 2/11/09 Start (2400 hr): 1453 End (2400 hr): 1507  
Date Sampled: 02/12/2009 Time (2400 hr): 12:58

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
1454	1	17.1	1.71	-0.07		999	none	7.94	
1458	5	17.0	1.78	-0.07		370	none	8.01	
1500	10	17.5	1.70	-0.06		215	none	8.01	
1502	15	17.4	1.70	-0.07		152	none	8.01	
1504	20	17.4	1.70	-0.06		149	none	8.01	
1506	25	17.2	1.70	-0.07		138		8.01	

Comments:

Completed By: D. TRAN Signature: [Signature]

**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: GMW\_63  
Location: Norwalk, CA.  
Sample Collected by: D.T.  
Sample No.: GMW63

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 40 - DTW: 29.08 = 10.92 x  $\frac{\text{Gallons}}{\text{Water Column}}$  = 7.2 x  $\frac{\text{Casing}}{\text{1 casing volume}}$  = 21.6 Calculated Purge

Actual purge (gals): 27  
Date Purged: 2-11-09 Start (2400 hr): 1510 End (2400 hr): 1527  
Date Sampled: 02/12/2009 Time (2400 hr): 12:40

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
1511	1	13.9	1.79	-0.07		914	none	7.92	
1515	5	17.1	1.63	-0.07		355	none	8.03	
1518	10	17.2	1.61	-0.07		300	none	8.03	
1520	15	16.6	1.61	-0.07		212	none	8.03	
1523	20	17.2	1.58	-0.07		131	none	8.05	
1526	25	17.1	1.55	-0.07		114	none	8.05	

Comments:

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Completed By: D. TRAN Signature: [Signature]  
(print name)

**PARSONS**

100 W. Walnut St.  
Pasadena, Ca. 91124

**WELL PURGING LOG**

Project Name: DFSP Norwalk  
Project Number: 746442  
Measured by: P.G.  
Date: 02/11/2009

Well ID: GMW-62  
Location: Norwalk, CA.  
Sample Collected by: D.T.  
Sample No.: GMW62

**Equipment**

Purging Method/Equipment: Vacuum Truck  
Sampling Equipment/IDNo.: Horiba U-10 and Disposable Bailer

**Purging Information**

Casing Diameter (inches): circle one

2	3	4	4.5	5	6	8	12	other
0.16	0.38	0.66	0.83	1.02	1.5	2.6	5.8	other

Gallons/linear foot

TD: 40 - DTW 28.31 = 11.69 x  $\frac{\text{Gallons}}{\text{linear ft}}$  = 9.7 x Casing = 23 Calculated Purge  
Water Column 1 casing volume volumes

Actual purge (gals): 26  
 Date Purged: 2-11-09 Start (2400 hr): 1537 End (2400 hr): 1600  
 Date Sampled: 02/12/2009 Time (2400 hr): 13:21

Time (2400 hr)	Volume Purged (gals.)	Temp. (deg. C or F)	Electrical Conductivity (uS/cm or mS/cm)	Dissolve Oxygen (mg/L)	Color (Clarity)	Turbidity (NTU)	Odor	pH	Remarks
1538	1	13.3	2.61	-0.08		291	mild	7.72	
1543	5	17.9	2.76	-0.06		104	mild	7.92	
1548	10	17.2	2.73	-0.06		112	mild	7.91	
1452	15	18.2	2.67	-0.06		97	mild	7.91	
1456	20	17.2	2.66	-0.06		91	mild	7.92	
1554	25	17.7	2.63	-0.06		86	none	7.92	

Comments:

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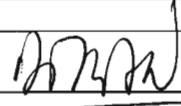
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Completed By: D. TRAN Signature: 



## WELL GAUGING DATA

Project # 090223-TR1 Date 2/23/09 Client KMEP

Site 15304 NORWALK BLVD - NORWALK

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	STINGER * Notes
WCW-13	0740	4					29.65	60.49		*
WCW-3	0830	4					28.10	50.56		*
EXP-5	0925	4					47.61	109.42 <del>88.42</del> TR		*
GMW-0-3	1025	4					23.63	47.90		*
GMW-0-2	1110	4					23.90	49.32		*
GMW-0-1	1145	4					22.70	49.19		*
WCW-7	1225	4					28.48	51.50		* OBSTRUCT
GMW-0-14	1305	4					25.58	49.89		*
MW-SF-4	1350	4					30.96	44.50		*
EXP-2	0830	4					53.42	128.40		* OBSTRUCT
EXP-1	0920	4					53.40	128.92		*
EXP-3	1010	4					52.52	122.62		*
GMW-39	1055	4					26.70	50.62		*
GMW-36	1135	4		25.80	0.33		26.13	—		
P2-5	1150	4					25.25	38.03		*
MW-SF-1	1250	6					30.00	50.90		* OBSTRUCT
GMW-0-15	1350	4		24.74	0.02		24.76	—		

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/24/07
Well I.D.: EXP-1	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 128.92	Depth to Water: Pre: 53.40 Post: 53.44
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL / MIN @ 0934      Pump Depth: ~125'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0937	21.43	7.42	1085	4	2.26	29.2	600	53.43
0940	21.60	7.40	1088	4	2.08	29.4	1200	53.43
0943	21.80	7.40	1088	5	1.77	28.8	1800	53.43
0946	22.34	7.41	1040	6	1.65	27.9	2400	53.43
0949	22.80	7.38	1090	5	1.55	28.0	3000	53.44
0952	22.80	7.37	1089	5	1.51	27.5	3600	53.44

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600 mL
Sampling Time: 0955	Sampling Date: 2/24/07
Sample I.D.: EXP-1	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: TBA
Equipment Blank I.D.: @	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/24/09
Well I.D.: EXP-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 123.40	Depth to Water: Pre: 53.40 Post: 53.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL / MIN @ 20 PSI      Pump Depth: ~125'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0853	20.93	7.37	1458	5	5.35	40.8	600	53.43
0856	21.12	7.28	1460	5	5.46	41.3	1200	53.44
0859	21.30	7.25	1463	4	5.26	41.4	1800	53.48
0902	21.33	7.24	1468	5	5.20	41.8	2400	53.48
0905	21.33	7.24	1465	5	5.16	41.0	3000	53.48

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3000 mL
Sampling Time: 0910	Sampling Date: 2/24/09
Sample I.D.: EXP-2	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: TBA
Equipment Blank I.D.: @ Time	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/24/09
Well I.D.: EXP-3	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 122.62	Depth to Water: Pre: 52.52 Post: 52.56
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 550

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL / MIN @ 1016      Pump Depth: ~120'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1019	21.02	7.73	688	3	1.07	23.9	600	52.53
1022	21.16	7.59	695	5	0.87	25.1	1200	52.53
1025	21.26	7.56	696	4	0.80	25.2	1800	52.55
1028	21.40	7.57	696	5	0.72	24.8	2400	52.55
1031	21.42	7.56	696	5	0.70	24.7	3000	52.55
1034	21.44	7.54	696	5	0.70	24.8	3600	52.55

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600
Sampling Time: 1035	Sampling Date: 2/23/09
Sample I.D.: EXP-3	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHp VOCs MTBB	Other: TBA
Equipment Blank I.D.: @ Time	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/23/09
Well I.D.: EXP-5	Well Diameter: 2 3 4 6 8
Total Well Depth: 109.42	Depth to Water: Pre: 47.61 Post: 47.74
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL/MIN @ 0.957      Pump Depth: ~108'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or qtL)	Depth to water
0940	20.08	7.84	1073	5	3.64	30.7	600	47.70
0943	20.37	7.85	1069	5	3.42	29.5	1200	47.70
0946	20.58	7.85	1068	4	3.39	27.8	1800	47.72
0949	20.88	7.77	1047	5	3.20	29.8	2400	47.72
0952	21.03	7.75	1067	6	3.23	31.3	3000	47.73
0955	21.08	7.73	1068	5	3.14	33.0	3600	47.73
0958	21.10	7.72	1068	5	3.10	34.0	4200	47.74
1001	21.13	7.72	1069	4	3.08	34.2	4800	47.74

Did well dewater? Yes <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Amount actually evacuated: 4900 mL
Sampling Time: 1005	Sampling Date: 2/23/09
Sample I.D.: EXP-5	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: TBA
Equipment Blank I.D.: @ _____	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223 - TR 1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/24/09
Well I.D.: GMW-3p	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth:	Depth to Water: Pre: 24.13 Post:
Depth to Free Product: 25.80	Thickness of Free Product (feet): 0.33
Referenced to: <u>TPC</u> Grade	Flow Cell Type: YSI 556

Purge Method: ~~2" Grundfos Pump~~      Peristaltic Pump      Bladder Pump  
 Sampling Method: ~~Dedicated Tubing~~      New Tubing      Other \_\_\_\_\_  
 Flow Rate: \_\_\_\_\_      Pump Depth: \_\_\_\_\_

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
<del>— 0.33' OF SPHT DETECTED W/ INTERFACE PROBE —</del>								
<del>— NO PURGE OR SAMPLE TAKEN —</del>								

Did well dewater? Yes    No	Amount actually evacuated: _____
<del>Sampling Time:</del>	<del>Sampling Date:</del>
<del>Sample I.D.:</del>	<del>Laboratory: Alpha Analytical</del>
Analyzed for:    TPHg    TPHfp    VOC's    MTBE    Other: _____	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/24/09
Well I.D.: GMW-39	Well Diameter: 2 3 4 6 8
Total Well Depth: 50.62	Depth to Water: Pre: 26.70 Post: 27.19
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL/min @ 1102      Pump Depth: ~ 49'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1105	21.81	7.38	1171	3	0.37	14.5	600	26.94
1108	21.91	7.35	1180	3	0.40	12.6	1200	27.03
1111	22.11	7.29	1182	4	0.49	14.9	1800	27.10
1114	22.20	7.28	1183	3	0.56	15.3	2400	27.13
1117	22.25	7.30	1181	4	0.46	15.9	3000	27.17
1120	22.29	7.31	1181	3	0.42	16.2	3600	27.19
1123	22.32	7.31	1182	3	0.42	16.5	4200	27.19

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 4200 mL
Sampling Time: 1125	Sampling Date: 2/24/09
Sample I.D.: GMW-39	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHsp VOCs MTBE	Other: TBA
Equipment Blank I.D.: @	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/23/07
Well I.D.: GMW-0-1	Well Diameter: 2 3 4 6 8
Total Well Depth: 49.19	Depth to Water: Pre: 22.70 Post: 23.07
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL / MIN @ 1152      Pump Depth: ~48'

Time	Temp. ( <u>C</u> or °F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u> )	Depth to water
1155	21.92	7.23	2746	8	1.86	29.6	600	23.00
1158	22.20	7.26	2770	9	1.78	29.5	1200	23.01
1201	22.42	7.25	2782	9	1.61	30.1	1800	23.03
1204	22.50	7.20	2787	7	1.45	30.9	2400	23.06
1207	22.50	7.20	2791	7	1.44	30.3	3000	23.07

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>1200</u>	Sampling Date: <u>2/23/07</u>
Sample I.D.: <u>GMW-0-1</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>PHg</u> <u>TPH</u> <u>VOC's</u> <u>MTBE</u>	Other: <u>TBA</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____



## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/23/09
Well I.D.: GMW-0-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 49.32	Depth to Water: Pre: 23.90 Post: 24.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 536

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL/min @ 115      Pump Depth: ~48'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1118	21.41	7.09	3121	20	0.89	17.6	600	24.13
1121	21.70	7.00	3152	14	0.67	22.1	1200	24.17
1124	22.00	6.98	3166	12	0.55	25.3	1800	24.23
1127	22.09	6.98	3168	8	0.52	26.3	2400	24.28
1130	22.02	6.97	3173	8	0.49	27.0	3000	24.30
1133	22.02	6.97	3172	7	0.49	27.3	3600	24.31

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600 mL
Sampling Time: 1135	Sampling Date: 2/23/09
Sample I.D.: GMW-0-2	Laboratory: Alpha Analytical
Analyzed for: TPDg TPDp VOO's MTBE	Other: TBA
Equipment Blank I.D.: @ Time	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/23/09
Well I.D.: GMW-0-3	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: 47.90	Depth to Water: Pre: 23.63 Post: 24.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 356</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 250 mL / MIN @ 1031      Pump Depth: ~46.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1034	21.48	7.37	2448	633	0.74	-9.4	750	23.90
1037	21.80	7.30	2511	693	1.05	-11.2	1500	23.93
1040	21.89	7.21	2526	848	0.71	-18.9	2250	23.95
1043	22.13	7.20	2536	>1000	0.58	-20.4	3000	24.00
1046	22.20	7.18	2540	787	0.50	-21.3	3750	24.03
1049	22.28	7.17	2542	540	0.47	-22.2	4500	24.05
1052	22.33	7.16	2543	587	0.43	-22.5	5250	24.08
1055	22.37	7.16	2541	542	0.41	-24.0	6000	24.10

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>6000 mL</u>
Sampling Time: <u>1100</u>	Sampling Date: <u>2/23/09</u>
Sample I.D.: <u>GMW-0-3</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TRHg TRHf VOC's MTBE</u>	Other: <u>TPHA</u>
Equipment Blank I.D.: <u>@</u> Time	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 09 0223 - TR 1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/23/09
Well I.D.: GMM-0-14	Well Diameter: 2 3 4 6 8
Total Well Depth: 49.89	Depth to Water: Pre: 25.58 Post: 25.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI550

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL / MIN @ 1310      Pump Depth: ~48.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1313	22.56	7.13	556	39	0.88	-109.3	600	25.80
1316	23.07	7.22	571	35	0.79	-115.4	1200	25.83
1319	23.52	7.10	940	28	0.58	-124.0	1800	25.84
1322	23.60	7.07	1068	26	0.58	-125.0	2400	25.85
1325	23.80	7.05	1160	26	0.58	-125.1	3000	25.85
1328	23.81	7.07	1206	27	0.56	-125.5	3600	25.86

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 3600 mL
Sampling Time: 1330	Sampling Date: 2/23/09
Sample I.D.: GMM-0-14	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: TBA
Equipment Blank I.D.: @ Time	Duplicate I.D.: DUP-1

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/24/09
Well I.D.: GWN-0-15	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: —	Depth to Water: Pre: 24.76 Post: —
Depth to Free Product: 24.74	Thickness of Free Product (feet): 0.02
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: ~~2" Grundfos Pump~~      Peristaltic Pump      Bladder Pump  
 Sampling Method: ~~Dedicated Tubing~~      New Tubing      Other \_\_\_\_\_  
 Flow Rate: \_\_\_\_\_      Pump Depth: \_\_\_\_\_

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
—	0.02	OF	SPH DETECTED	W/	INTERFACE	PROBS	—	—
—	NO PURGE	OR	SAMPLE	TAKEN	—	—	—	—

Did well dewater? Yes      No      Amount actually evacuated: \_\_\_\_\_  
 Sampling Time: \_\_\_\_\_      Sampling Date: \_\_\_\_\_  
 Sample I.D.: \_\_\_\_\_      Laboratory: Alpha Analytical  
 Analyzed for: TPHg    TPHfp    VOC's    MTBE      Other: \_\_\_\_\_  
 Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D.: \_\_\_\_\_

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/24/09
Well I.D.: MW-SF-1	Well Diameter: 2 3 4 ⑥ 8
Total Well Depth: 50.90	Depth to Water: Pre: 30.00 Post: 30.10'
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL/MIN @ 1304      Pump Depth: ~ 49.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1309	25.85	7.25	2020	24	0.33	-272.2	600	30.00' OPK
1312	24.10	7.21	2063	61	0.28	-300.1	1200	30.00' "
1315	26.18	7.28	2032	37	0.31	-308.7	1800	30.10' "
1318	26.22	7.30	1992	26	0.28	-309.2	2400	30.10' "
1321	26.33	7.33	1979	23	0.26	-307.4	3000	30.10' "
1324	26.35	7.35	1970	20	0.23	-303.6	3600	30.10' "
1327	26.39	7.40	1948	19	0.20	-301.3	4200	30.10'

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 4200 mL
Sampling Time: 1330	Sampling Date: 2/23/09
Sample I.D.: MW-SF-1	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHp VOC's MTBE	Other: TMA
Equipment Blank I.D.: EB-2 @ Time 1400	Duplicate I.D.: <del>EB-2</del>

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223 - TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/23/09
Well I.D.: MW-SF-4	Well Diameter: 2 3 4 6 8
Total Well Depth: 44.50	Depth to Water: Pre: 30.94 Post:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL/min @ 1400      Pump Depth: ~ 43'

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or pL)	Depth to water
1403	24.90	6.85	1473	23	2.00	-113.3	600	31.00
1404	25.11	6.82	1510	20	2.07	-125.2	1200	31.02
1409	25.40	6.60	1536	20	1.71	-120.3	1800	31.03
1412	25.52	6.58	1549	19	1.62	-118.3	2400	31.04
1415	25.55	6.57	1555	20	1.47	-114.4	3000	31.04
1418	25.60	6.60	1559	19	1.45	-112.0	3600	31.05

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3600 L
Sampling Time: 1420	Sampling Date: 2/23/09
Sample I.D.: MW-SF-4	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: TBA
Equipment Blank I.D.: EB-1 @ 1440	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/24/09
Well I.D.: PZ-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 33.03	Depth to Water: Pre: 25.25 Post: 25.58
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL/MIN @ 115g      Pump Depth: ~37'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1202	21.37	7.17	3005	49	2.88	-51.3	600	25.50
1205	21.54	7.16	3040	51	1.00	-35.3	1200	25.53
1208	21.60	7.11	3053	42	0.81	-31.2	1800	25.55
1211	21.67	7.09	3064	37	0.76	-28.6	2400	25.56
1214	21.69	7.04	3073	30	0.70	-29.9	3000	25.57
1217	21.45	7.03	3075	29	0.48	-30.3	3600	25.57
1220	21.64	7.03	3078	26	0.64	-31.3	4200	25.58

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: ~200 mL
Sampling Time: 1225	Sampling Date: 2/24/09
Sample I.D.: PZ-5	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: TBA
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.: DUP-2

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/23/09
Well I.D.: WCV-3	Well Diameter: 2 3 4 6 8
Total Well Depth: 50.54	Depth to Water: Pre: 28.10 Post: 28.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: RVS Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL/MIN @ 0835      Pump Depth: 249.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or gL)	Depth to water
0838	20.63	7.34	3206	4	2.10	44.2	650	28.21
0841	21.21	7.32	3284	4	2.49	44.8	1200	28.22
0844	21.66	7.33	3303	3	1.90	47.1	1800	28.24
0847	21.70	7.32	3312	3	1.64	47.9	2400	28.24
0850	21.73	7.32	3315	3	1.56	48.0	3000	28.25
0853	21.76	7.32	3314	4	1.46	48.0	3600	28.27

Did well dewater? Yes <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Amount actually evacuated: 3600 mL
Sampling Time: <del>2/23/09</del> 0855	Sampling Date: 2/23/09
Sample I.D.: WCV-3	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: TBA
Equipment Blank I.D.: @	Duplicate I.D.:



## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR 1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/24/09
Well I.D.: W CW-7	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 51.50	Depth to Water: Pre: 28.48 Post: 28.87
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL / MIN @ 0751      Pump Depth: ~50.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0754	20.37	6.89	3276	20	1.55	143.4	600	28.80
0757	21.04	6.93	3374	20	1.94	110.5	1200	28.82
0800	21.13	7.02	3435	24	2.24	94.0	1800	28.82
0803	21.20	7.08	3440	18	1.58	81.4	2400	28.85
0804	21.23	7.08	3445	20	1.46	78.4	3000	28.84
0809	21.28	7.10	3449	20	1.40	74.8	3600	28.87

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 3600
Sampling Time: 0810	Sampling Date: 2/24/09
Sample I.D.: W CW-7	Laboratory: Alpha Analytical
Analyzed for: TPHg TPNfp VOC's MTBE	Other: TBA
Equipment Blank I.D.: @ Time	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 090223-TR1	Client: KMEP Norwalk
Sampler: TR	Start Date: 2/23/09
Well I.D.: W CW - 13	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 60.49	Depth to Water: Pre: 29.65 Post: 29.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 mL / MIN @ 0745      Pump Depth: ~ 59'

Time	Temp. (°C/°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0748	19.31	7.57	2449	147	1.01	89.7	600	29.80
0751	19.64	7.64	2513	124	0.91	47.7	1200	29.81
0754	20.09	7.70	2530	94	0.78	33.5	1800	29.83
0757	20.33	7.71	2538	82	0.90	19.4	2400	29.84
0800	20.40	7.72	2540	70	0.92	10.3	3000	29.85
0803	20.46	7.75	2538	66	0.93	8.5	3600	29.85
0804	20.51	7.78	2545	63	0.96	6.9	4200	29.84
0809	20.53	7.80	2552	58	0.95	6.8	4800	29.82

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 4800 mL
Sampling Time: 0810	Sampling Date: 2/23/09
Sample I.D.: W CW - 13	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHsp VOC's MTBE	Other: TBA
Equipment Blank I.D.: @ Time	Duplicate I.D.:

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

Alpha  
-Geosciences  
COC 1 of 2

CHAIN OF CUSTODY

CLIENT  
Kinder Morgan

SITE  
Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		PRESERVATION	Type	EPA 8015M TPHg	EPA 8260B VOCs, TBA, MTBE	EPA 8015M TPHp	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Type									
WCW-13	2-23-09	0810	AQ	6	HCL	VDA	X	X	X					
WCW-3		0855	AQ	6	HCL	VDA	X	X	X					
EXP-5		1005	AQ	6	HCL	VDA	X	X	X					
GMW-0-3		1100	AQ	6	HCL	VDA	X	X	X					
GMW-0-2		1135	AQ	6	HCL	VDA	X	X	X					
GMW-0-1		1210	AQ	6	HCL	VDA	X	X	X					
GMW-0-14		1330	AQ	6	HCL	VDA	X	X	X					
DUP-1			AQ	6	HCL	VDA	X	X	X					
MW-SF-4		1420	AQ	6	HCL	VDA	X	X	X					
EB-1		1440	AQ	6	HCL	VDA	X	X	X					

RESULTS NEEDED  
NO LATER THAN Standard

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	2-23-09	1440		2-23-09	1545
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
SHIPPED VIA	TIME SENT	COOLER #	RECEIVED BY	DATE	TIME

# BLAINE

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
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TECH SERVICES, INC.

LAB Alpha Analytical COC 2 of 2

Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112

CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

Norwalk

15306 Norwalk Blvd, Norwalk

Kinder Morgan GX-190  
 Report to:

Thandat Phyu and Shioh-Whei Chou  
 AMEC Geomatrix, Inc.  
 510 Superior Ave. Suite 200  
 Newport Beach, CA 92663

CONDUCT ANALYSIS TO DETECT	
EPA 8015M TPHg, TPHr	X
EPA 8260B VOC's, TBA, MTBE	X

SAMPLE I.D.	DATE	TIME	MATRIX	#	Preservation	Type	CONTAINERS	ADDL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
TB-1	2-23-01	0700	Water	6	ACL	VDA					

SAMPLING PERFORMED BY T. RHYMES

COMPLETED 2-23-01 1440

RELEASED BY 

RESULTS NEEDED NO LATER THAN Standard

RECEIVED BY 

TIME 1545

DATE 2-23-01

TIME 1545

RECEIVED BY

TIME

DATE

TIME

RECEIVED BY

TIME SENT

COOLER #

HIPPED VIA

**AINE**  
H SERVICES, INC.

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

OF CUSTODY

Kinder Morgan  
Norwalk  
15306 Norwalk Blvd, Norwalk

LAB Alpha Analytical COC 1 of 1

Billing Information:  
Kinder Morgan  
1100 Town and Country Rd.  
Orange CA 95112

Report to:  
Kinder Morgan GX-190  
Thandat Phyu and Shlow-Whei Chou  
AMEC Geomatrix, Inc.  
510 Superior Ave. Suite 200  
Newport Beach, CA 92663

CONDUCT ANALYSIS TO DETECT

EPA 8015M TPHg, TPHfP  
EPA 8260B VOCs, TBA, MTBE

E.I.D.	DATE	TIME	MATRIX	CONTAINERS		Type	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation					
W-2	2-24-09	0630	AQ	3	HCL	VOR	X			
SF-1		1330		4			X			
S		1225					X			
W-2							X			
W-39		1125					X			
W-1		0955					X			
W-3		1035					X			
W-2		0910					X			
W-7		0810					X			
W-2		1400					X			

RESULTS NEEDED  
NO LATER THAN

Standard

RECEIVED BY	TRH	TIME	1530	DATE	2-24-09	TIME	1530
RECEIVED BY		TIME		DATE		TIME	
RECEIVED BY		TIME		DATE		TIME	

TIME SENT		COOLER #	
-----------	--	----------	--

# BLAINE

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CalScience  
 Analytical COC 1 of 1

## TECH SERVICES, INC.

### CHAIN OF CUSTODY

CLIENT: Kinder Morgan  
 SITE: Norwalk  
 15306 Norwalk Blvd, Norwalk

### CONDUCT ANALYSIS TO DETECT

LAB: Kinder Morgan GX-190  
 Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112

Report to:  
 Thandat Phyu and Shiew-Whei Chou  
 AMEC Geomatrix, Inc.  
 510 Superior Ave. Suite 200  
 Newport Beach, CA 92663

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		ADDITIONAL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation Type				
PZ-S	2-24-09	12:25	NO	7	WELL/N/A	X EPA 8015M TPHg, TPHTp			
						X EPA 8260B VOCs, TBA, MTBE			

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: *TRA* TIME: 1530 DATE: 2-24-09

RELEASED BY: *[Signature]* TIME: 1630 DATE: 02/24/09

RELEASED BY: *[Signature]* TIME: 1630 DATE: 02/24/09

HIPPED VIA: \_\_\_\_\_ TIME SENT: \_\_\_\_\_ COOLER #: \_\_\_\_\_

# WELLHEAD INSPECTION CHECKLIST

Page \_\_\_\_ of \_\_\_\_

Client KMEP Date 2/23/09  
 Site Address 15304 NORWALK BLVD - NORWALK  
 Job Number 090223-TR1 Technician TR

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
WCW-13	X	X	X							
WCW-3	X	X	X							
EXP-5			X							
GMW-0-3	X	X	X							
GMW-0-2	X	X	X							
GMW-0-1	X	X	X							
WCW-7	X	X	X							
GMW-0-14			X							
MW-SF-4	X									
EXP-2	X									
EXP-1	X									
EXP-3	X									
GMW-36										
P2-5	X	X	X							
MW-SF-1	X									
GMW-0-15	X									

NOTES: EXP-5: NO BOLTS  
 GMW-0-14: NO BOLTS  
 MW-SF-4 - ~ 4.5' TALL STANDPIPE  
 WCW-7: STINGER REMOVED. WELL HAS MULTIPLE OBSTRUCTIONS.  
 GMW-36 - 2" X 2" VAULT - 1/4 BOLTS

GMW-0-15 - VAULT.

