TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

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Project Name: Torrance C6		**Date:** 9-6-06	
Project No.: EM		**Prepared By:** SR	
Well Identification: WCC-09S		**Weather:** Sunny	
Measurement Point Description: TOC North		**Pump Intake:** ~80	**Screen:** 60-90

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
--	65.42	89.98	24.56	--	15.96	47.89	8.0	—	—	—

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2" Grunfus Pump dedicated tubing

Well Condition: OK

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (s/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
13:39	0.5	8.0	.727	66.15	7.72	27.7	91.4	.127	11.99	139	Clear
13:48	1.0	16.0	.888	66.37	7.52	26.1	64.4	95.2 ms/m	14.88	132	"
13:56	1.5	24.0	1.0	66.35	7.70	24.9	54.4	92.9 ms/m	12.17	129	"
14:03	2.0	32.0	1.142	66.38	7.59	24.7	41.3	92.3 ms/m	10.44	115	"
14:10	2.5	40.0	1.142	66.38	7.67	24.4	36.9	95.1 ms/m	10.07	132	"
14:17	3.0	48.0	1.142	66.38	7.53	23.8	34.5	95.9 ms/m	7.44	126	"

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
13:28	14:17	.979	48	3.0	70.33	65.43	14:25	WCC-09S-WG090606-0001

Notes: obtained Field Blank @ 1400. FB-TAIT090606-0001

Ferrous Iron : 0.15 mg/L

Dup.

Drum No.: Purged GW into treatment system AT compound.

ft-bmp = feet below measuring point

BOE-C6-0118083

Groundwater Sampli Data Sheet

TAIT Environmental Management, Inc

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Project Name: C 6 Torrance		**Date:** 9-6-06	
Project No.: EM		**Prepared By:** SR	
Well Identification: ~~TMW~~ TMW-11		**Weather:** Sunny	
Measurement Point Description: TOC North		**Pump Intake:** 70 ~	**Screen:** ~~60.5 – 80.5~~ 58-78

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
—	~~58.82~~ 58.82	76.70	17.88	~10	3.0	9.0	1.5	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2" Grun Fus Pump dedicated tubing

Well Condition: OK

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (s/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
10:59	.5	1.5	.375	59.15	6.51	29.3	220	.228	12.03	106	Cloudy
11:03	1.0	3.0	.375	59.20	7.10	27.1	152	.213	14.75	109	"
11:07	1.5	4.5	.375	59.20	7.08	26.6	134	.212	16.12	132	"
11:11	2.0	6.0	.375	59.20	7.10	26.3	124	.215	10.94	130	"
11:15	2.5	7.5	.375	59.20	7.12	27.4	115	.214	14.76	122	"
11:19	3.0	9.0	.375	59.20	7.18	28.2	111	.218	9.18	143	"

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
16:55 ~~09:55~~	11:19	.375	9.0	3.0	62.39	58.85	11:25	TMW-11-WG090606-000

Notes: Ferrous Iron: 0.47 mg/L

Dup.

Drum No.: Purge G.W Into treatment System AT Compound

ft-bmp = feet below measuring point

BOE-C6-0118084

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: Former C-6 GW Sampling		**Date:** 09/06/06	
Project No.: EM 2727		**Prepared By:** KL	
Well Identification: MWB019		**Weather:** Sunny	
Measurement Point Description: TOC, North		**Pump Intake:** ~75'	**Screen:** 65-85'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	64.48	85.01	20.53	--	13.4	40.2	6.7	—	—	—

64.48

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: General Gas Pump

Well Condition: Good / No Lock

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1408	0.5	6.7	1.1	64.78	6.85	23.8	37.2	0.25	6.58	128	No odor
1414	1.0	13.4	1.1	64.80	7.12	23.8	0.0	0.25	6.54	137	
1420	1.5	20.1	1.1	64.82	7.13	23.8	0.0	0.25	6.08	149	
1426	2.0	26.8	1.1	64.82	7.08	23.8	0.5	0.25	5.76	168	
1432	2.5	33.5	1.1	64.83	7.07	23.8	0.0	0.25	5.74	166	
1438	3.0	40.2	1.1	64.83	7.07	23.8	0.0	0.25	5.71	168	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1402	1438	1.1	41	3.0	68.58	64.83	1440	MWBD19_WGD90606_0001

Notes: Ferrous iron: 0.14 mg/L

Dup.

Drum No.: Pump purge water to Compound tank.

ft-bmp = feet below measuring point

BOE-C6-0118085

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: Former C-1		**Date:** 09/06/06	
Project No.: EM 2727		**Prepared By:** KL	
Well Identification: CMW001		**Weather:** Sunny	
Measurement Point Description: TOC, Mark		**Pump Intake:** ~ 112	**Screen:** 99 - 124

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	~~Above Screen~~ Tube Volume ~~(Top screen - DTW) x E~~	Screen Volume (Screen length x D)	½ screen Volume
---	63.77 63.77	124.00	60.23	---	—	—	—	4 liters + 1 liter for flow through & Pump = 5 liters	—	—

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Low-Flow / Monsoon Pump

Well Condition: Good / transducer in well

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ liters	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity mS/m	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1030	Initial Purge	5.0	0.5	63.87	7.47	23.8	10.6	75	3.43	-77	Clear
1035		7.5	0.5	63.91	7.42	23.7	14.4	75	2.83	-81	
1040		10.0	0.5	63.91	7.42	23.6	16.4	73	1.98	-90	
1045		12.5	0.5	63.91	7.46	23.8	10.9	73	1.89	-98	
1050		15.0	0.5	63.91	7.52	23.9	[illegible]	72	1.77	-105	
1055		17.5	0.5	63.91	7.54	24.0	7.0	72	1.70	-103	
1100		20.0	0.5	63.91	7.56	24.0	7.1	72	1.69	-106	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ liters Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1020		0.5	20.0	—	—	63.91	1105	CMW001-WG061306-0001

Notes: 0.132 gpm

Ferrous Iron: 0.00 mg/L

Hydrogen Sulfide: 0.00 mg/L

Dup.

Drum No.: Purge water pumped to compound tank.

ft-bmp = feet below measuring point

BOE-C6-0118086

TAIT Environmental Management, Inc

Groundwater Sampli. Data Sheet

Project Name: Former L-6 Facility GW Sampling Event	**Date:** 09/06/06
Project No.: EM 2727	**Prepared By:** KL
Well Identification: MWG001	**Weather:** Sunny
Measurement Point Description: TOC, Mark	**Pump Intake:** ~ 160 **Screen:** 156 - 186

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D 92.28'	Screen Volume (Screen length x D)	½ screen Volume
---	63.72 63.72	189.95	126.23	--	—	—	—	15	5	2.5

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Grundfos Pump

Well Condition: Good; Transducer in well

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1235	Above	15.0	1.5	64.63	7.69	23.3	0.0	53	6.30	-211	Sulfur odor/clear
1237	0.5	17.5	1.0	64.63	7.72	23.3	0.0	53	5.53	-209	
1239	1.0	20.0	1.0	64.63	7.74	23.3	0.0	53	3.98	-212	
1241	1.5	22.5	1.0	64.63	7.77	23.3	0.0	53	3.19	-211	
1243	2.0	25.0	1.0	64.63	7.80	23.3	0.0	53	3.09	-211	
1245	2.5	27.5	1.0	64.63	7.84	23.3	0.0	53	2.98	-212	
1247	3.0	30.0	1.0	64.63	7.86	23.3	0.0	53	2.95	-213	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1225	1247	1.0	31.0	1 above 3 casing	88.96	64.63	1300	MWG001_WG070606_0001

Notes: Ferrous Iron: 0.14 mg/L

D.O. appears higher than last sampling event. DO was calibrated in a.m. (09/06/06).

Dup.

Drum No.: Pumped purge water to compound tank.

ft-bmp = feet below measuring point

BOE-C6-0118087

September 2006 Quarterly and WDR Monitoring Program
Former C-6 Facility
Los Angeles, California

Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Recorded By	Equipment Type	Comments
CMW001	09/06/06	11:10	0.00 mg/L	0.00 mg/L	CL	Hach DR/890	
TMW-11	09/06/06	11:30	0.47 mg/L	—	CL	Hach DR/890	
MWG001	09/06/06	12:50	0.14 mg/L	—	CL	Hach DR/890	
WCC-9S	09/06/06	14:25	0.15 mg/L	—	CL	Hach DR/890	
MW3019	09/06/06	14:40	0.14 mg/L	—	CL	Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
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						Hach DR/890	

Groundwater Sampli Data Sheet

TAIT Environmental Management, Inc

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Project Name: BRC - C6 Torrance		**Date:** 9-7-06	
Project No.: EM		**Prepared By:** SR	
Well Identification: MW B013		**Weather:** Sunny	
Measurement Point Description: TOC North		**Pump Intake:** ~ 80	**Screen:** 65-85

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	63.39 63.39	86.45	23.06	---	15.0	45.0	7.5	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2" Grunfus Pump

Well Condition: Soft Bottom

Time	Casing Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (s/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
12:47	0.5	7.5	1.07	63.98	7.90	26.3	32.7	.199	16.45	-14	Clear
12:54	1.0	15.0	1.07	64.08	7.62	24.9	30.6	.197	16.58	55	" "
13:01	1.5	22.5	1.07	64.11	7.63	24.6	16.6	.196	15.99	83	" "
13:08	2.0	30.0	1.07	64.13	7.67	24.4	17.7	.196	15.82	80	" "
13:15	2.5	37.5	1.07	64.13	7.78	24.4	15.3	.196	15.48	79	" "
13:22	3.0	45.0	1.07	64.14	7.78	24.4	14.5	.196	12.70	85	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
12:30	13:22	1.07	46.0	3.0	68.00	63.50	13:26	MWB013-WG090706.0001

Notes: Ferrous Iron : 0.00 mg/L

Purged H2O Into Compound Tank

Drum No. :

Dup.

ft-bmp = feet below measuring point

BOE-C6-0118089

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 Semi-Annual Sampling Event	**Date:** 09/07/06
Project No.: EM 2727	**Prepared By:** KL
Well Identification: MWC007	**Weather:** Sunny
Measurement Point Description: TOC, Mark	**Pump Intake:** ~108 / **Screen:** 97-117

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	37.06 Above Screen Volume (Top screen – DTW)x D ~~38.05~~	Screen Volume (Screen length x D)	½ screen Volume
--	59.94 59.94	118.89	58.95	--	—	—	—	24gal	13gal	6.5

Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Submersible Pump

Well Condition: Good

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity m/Sm	Dissolved Oxygen (mg/L)	* ORP (mV)	Observations
1240	Above	24.0	1.2	59.38	7.65	22.7	20.9	86	3.64	12	clear/no odor
1245	0.5	30.5	1.3	59.38	7.69	22.7	20.8	86	2.91	13	
1250	1.0	37.0	1.3	59.38	7.70	22.8	20.9	85	1.86	17	
1255	1.5	43.5	1.3	59.38	7.70	22.8	20.8	85	1.32	20	
1300	2.0	50.0	1.3	59.38	7.71	22.8	20.9	85	1.30	20	
1305	2.5	56.5	1.3	59.38	7.72	22.8	21.1	85	1.04	21	
1310	3.0	63.0	1.3	59.38	7.72	22.8	21.1	85	0.94	21	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1220	1310	1.3	64.0	~~Above 24 gal~~ Casing 3.0	71.73	59.38	1315	MWC007WG090706-0001 Dup.

Notes: DTW during Tuesday's gauging was @ ~60'. DTW prior to pumping was @ 59.94. After purge start DTW @ 59.38. Checked water level & is in good working order. Will recalibrate w/ 100' steel tape. Pumped purge water to compound tank.

Ferrous iron: 0.06 mg/L

Drum No.:

* ORP significantly different than past sampling readings.

ft-bmp = feet below measuring point

BOE-C6-0118090

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: SEPT. 2006 GW-SAMPLING - BRC-C-6		**Date:** 9/7/06	
Project No.: EM 2727		**Prepared By:** LW	
Well Identification: MWC009		**Weather:** SUNNY - 80°F	
Measurement Point Description: BLACKMARK TOC		**Pump Intake:** ~100	**Screen:** 97-117

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
--	① 62.28 ② 62.28 ③ 62.28	119.60	57.32	--	N/A	N/A	N/A	22.57	13	6.5

	Gallons/Foot					
Well Diameter (in)	0.75	2	4	6	**Field Equipment:**	Solinst, Horiba
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:**	GRUNDFOS PUMP
					Well Condition:	GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1140	ABOVE	23.0	1.4	63.10	7.49	23.1	7.1	77.9	0.00	91	CLEAR/ ODORLESS
1145	0.5	29.5	1.3	63.20	7.64	22.9	4.6	76.1	0.00	84	CLEAR/ODORLESS
1150	1.0	36.0	1.3	63.20	7.64	23.0	0.0	75.4	0.00	71	CLEAR/ODORLESS
1155	1.5	42.5	1.3	63.20	7.66	23.0	0.0	75.2	0.00	61	CLEAR/ ODORLESS
1200	2.0	49.0	1.3	63.25	7.64	22.9	0.0	75.7	0.00	63	CLEAR/ODORLESS
1205	2.5	55.5	1.3	63.27	7.64	22.9	0.0	76.1	0.00	64	CLEAR/ ODORLESS
1210	3.0	62.0	1.3	63.29	7.64	22.9	0.0	76.3	0.00	65	CLEAR/ ODORLESS

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1124	1210	1.3	~~1 ABOVE~~ ~~3 SCRN~~ 64 GAL.	~~1 ABOVE~~ 3 SCREEN	73.74	63.29	~~1215~~ 1213	MWC009-WG090706-0001

Notes:

Ferrous Iron: 0.00 mg/L

TOTAL AMOUNT PURGED: 64 GALLONS

Drum No.: PURGED WATER IN COMPOUND

Dup.

ft-bmp = feet below measuring point

BOE-C6-0118091

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: Semi Annual C-6 Sampling		**Date:** 09/07/06	
Project No.: EM 2727		**Prepared By:** KL	
Well Identification: MWC017		**Weather:** Sunny	
Measurement Point Description: TOC, North		**Pump Intake:** ~ 110'	**Screen:** 100 - 125'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	64.48 64.48	128.00	63.52	---	—	—	—	35.52' 23 gal	25' 16.25 gal	8.2

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Submersible pump

Well Condition: Good / Transducer in well

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0955	Above	23 gal	1.15	64.92	7.64	23.3	0.0	80	3.09	-189	Strong Sulfur odor
1000	0.5	31.2	1.64	64.89	7.63	23.6	17.9	54	2.67	-180	
1005	1.0	39.4	1.64	64.89	7.56	23.7	26.1	60	2.47	-187	
1010	1.5	47.6	1.64	64.89	7.56	23.5	0.0	74	2.60	-176	
1015	2.0	55.8	1.64	64.89	7.57	23.5	0.0	79	2.44	-176	
1020	2.5	64.0	1.64	64.89	7.57	23.5	0.0	80	2.42	-176	
1025	3.0	72.2	1.64	64.89	7.57	23.5	0.0	79	2.44	-176	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0935	1025	1.64	73.0	~~Above~~ 23 gal Casing 3	77.18	64.89	1030	MWC017-WG090706-0001

Notes:

Ferrous iron: 0.09 mg/L

Pumped purge water to compound tank.

Drum No.:

Dup.

ft-bmp = feet below measuring point

BOE-C6-0118092

TAIT Environmental Management, Inc

Groundwater Sampli Data Sheet

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Project Name: Former C6 Torrance	**Date:** 9-7-06
Project No.: EM	**Prepared By:** SR
Well Identification: MWG-002	**Weather:** Cloudy
Measurement Point Description: TOC North	**Pump Intake:** ~ 170 **Screen:** 162-192

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D)	Screen Volume (Screen length x D)	½ screen Volume
---	64.70 64.70	191.86	127.16	--	20.3	61.03	10.15	15.55	4.8	2.4

	Gallons/Feet				
Well Diameter (in)	0.75	2	4	6	**Field Equipment:** Solinst, Horiba
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:** 2" Grunfus Pump
					Well Condition: OK

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
10:28	Above	15.5	.344	64.89	6.42	28.2	22.9	.139	13.13	-24	OK (No odor)
10:35	0.5	17.9	.343	64.89	7.45	27.9	17.9	66.2 ms/m	13.38	-92	" "
10:41	1.0	20.3	.400	64.89	7.90	27.6	13.4	55.4 ms/m	5.53	-121	" "
10:47	1.5	22.7	.400	64.89	8.02	26.8	19.3	54.8 ms/m	13.32	-130	" "
10:53	2.0	25.1	.400	64.89	8.11	26.4	13.8	53.1 ms/m	6.01	-133	" "
10:59	2.5	27.5	.400	64.89	8.15	26.2	13.1	52.9 ms/m	14.77	-126	" "
11:05	3.0	29.9	.400	64.89	8.13	26.0	12.6	52.4 ms/m	14.63	-131	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
09:43	11:05	.365	31.0	Above 15.5 Screen 14.4	90.13	64.72	11:10	MWG 002-WG090706.0001

Notes: Obtained field BLANK
@ 08:55 FB_Tait 090706_0001
Ferrous Iron: 0.15 mg/L

Dup.
Purged GW To Compound Tank
Drum No. :

~~0770~~ ~~562~~

~~Gean Pieces~~

ft-bmp = feet below measuring point

BOE-C6-0118093

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: SEPT. 06 FORMER C-6 FACILITY BRC	**Date:** 9/7/06
Project No.: EM 2727	**Prepared By:** LW
Well Identification: TMW-14	**Weather:** 88°F
Measurement Point Description: TOC BLACKMARK	**Pump Intake:** ~75' **Screen:** 65'-85'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	① 68.15 ② 68.15 ③ 68.15	84.85	16.70	--	2.7	8.1	1.4	N/A	N/A	N/A

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: GRUNDFOS PUMP

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1318	0.5	1.4	0.46	68.79	~~25.0~~ 6.71	25.0	20	0.30	2.31	41	CLEAR / ODORLESS
1321	1.0	2.8	0.46	68.83	6.79	23.9	10	0.30	2.41	46	CLEAR / ODORLESS
1324	1.5	4.2	0.46	68.83	6.82	23.5	9	0.30	2.40	50	CLEAR / ODORLESS
1327	2.0	5.6	0.46	68.83	6.81	23.4	0.0	0.30	2.41	52	CLEAR / ODORLESS
1330	2.5	7.0	0.46	68.83	6.81	23.4	0.0	0.30	2.40	54	CLEAR / ODORLESS
1333	3.0	8.4	0.46	68.83	6.80	23.4	0.0	0.30	2.40	55	CLEAR / ODORLESS
1336	3.5	9.8	0.46	68.83	6.80	23.4	0.0	0.30	2.39	54	CLEAR / ODORLESS

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1315	1336		12 GALLONS	3.0	71.49	68.83	1340	TMW-14-WG090706-0001

Notes: Ferrous Iron : 0.18 mg/L

Dup.

Drum No. : TOTAL GALLONS PURGED 12 GALLONS
DISPOSED OF IN COMPOUND

ft-bmp = feet below measuring point

BOE-C6-0118094

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: Semi Annual C-6 Sampling Event	**Date:** 09/07/06
Project No.: EM 2727	**Prepared By:** KL
Well Identification: WCC_05S	**Weather:** Sunny
Measurement Point Description: TOC, North	**Pump Intake:** ~75' **Screen:** 61-91'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	60.45 60.45	90.0	29.55	–	19.20 gal	57.62	9.6	—	—	–

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	**Field Equipment:** Solinst, Horiba
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:** Submersible Pump
					Well Condition: Good / No lock

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (gm)	Dissolved Oxygen (mg/L)	* ORP (mV)	Observations
1437	0.5	9.6	1.3	61.48	7.26	23.2	99.0	0.12	2.72	-247	Sulfur odor
1443	1.0	19.2	1.6	61.48	7.39	23.4	29.1	0.13	0.99	-249	
1449	1.5	28.8	1.6	61.48	7.34	23.3	27.4	0.13	0.69	-220	
1455	2.0	38.4	1.6	61.48	7.34	23.4	30.3	0.14	0.72	-211	
1501	2.5	48.0	1.6	61.48	7.32	23.3	36.2	0.14	0.82	-200	
1507	3.0	57.6	1.6	61.48	7.32	23.3	37.1	0.14	0.86	-197	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1430	1507	1.6	58.0	3.0	66.36	61.48	1515	WCC_05S_WG090706_0001 ~~WCC_05S_WG0906~~

Notes: Dup.

Ferrous iron: 0.18 mg/L.

ORP ~~m~~ readings different than last event readings.

Drum No.: Dumped GW to compound tank

ft-bmp = feet below measuring point

BOE-C6-0118095

September 2006 Quarterly and WDR Monitoring Program
Former C-6 Facility
Los Angeles, California

Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Recorded By	Equipment Type	Comments
MWG002	09/07/06	11:15	0.15 mg/L	—	CL	Hach DR/890	
MWC017	09/07/06	10:35	0.09 mg/L	—	CL	Hach DR/890	
MWC009	09/07/06	12:20	0.00 mg/L	—	CL	Hach DR/890	
MWC007	09/07/06	13:15	0.06 mg/L	—	CL	Hach DR/890	
MWB [redacted]	09/07/06	13:30	0.00 mg/L	—	CL	Hach DR/890	
[redacted]	09/07/06		mg/L		CL	~~Hach DR/890~~	
TMW-14	09/07/06	13:45	0.18 mg/L	—	CL	Hach DR/890	
WCC-5S	09/07/06	15:25	0.18 mg/L	—	CL	Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	

Groundwater Sampl[illegible] Data Sheet

TAIT Environmental Management, Inc

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Project Name: Former C6 Facility Torrance	**Date:** 9-8-06
Project No.: EM	**Prepared By:** SR, [redacted]
Well Identification: MW B028	**Weather:** Sunny
Measurement Point Description: TOC North	**Pump Intake:** ~ 80 / **Screen:** 65'' - 90''

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	65.01	90.20	25.19	--	4.03	12.09	2.0	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2'' Grunfus Pump dedicated tubing

Well Condition: Fair

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (s/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
14:54	.5	2.0	0.5	65.18	7.64	24.4	7999	.130	14.15	122	Brown
14:58	1.0	4.0	0.5	65.18	7.78	24.0	823	96.1 mslm	9.41	90	" "
15:02	1.5	6.0	0.5	65.18	7.61	24.3	355	95.6 mslm	8.20	61	Cloudy
15:06	2.0	8.0	0.5	65.18	7.64	24.3	124	94.7 mslm	7.87	57	" "
15:10	2.5	10.0	0.5	65.20	7.57	24.3	94.9	94.5 mslm	12.68	62	" "
15:14	3.0	12.0	0.5	65.20	7.56	24.2	66.6	94.5 mslm	13.02	65	Clear

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
14:50	15:14	0.5	13.0	3.0	70.04	65.02	15:16	MWB028_WG090806_0004

Notes: Took Field BLANKS FB_TAIT090806_0001 @ 13:25 Dup.

Ferrous Iron: 0.35 mg/L

Pumped H2O compound TANK 13.0 GALLONS

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0118097

TAIT Environmental Management, Inc

Groundwater Sampli Data Sheet

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Project Name: Former C6 Facility Torrance	**Date:** 9-8-06
Project No.: EM	**Prepared By:** SR
Well Identification: XMW-09	**Weather:** Sunny
Measurement Point Description: TOC NorTit	**Pump Intake:** ~ 72 **Screen:** 66-81

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	62.50	76.38	13.88	---	9.02	27.06	4.5	—	—	—

Well Diameter (In)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2" Grunfus Pump dedicated tubing

Well Condition: Good

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (s/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
11:29	.5	4.5	.321	62.78	7.41	25.2	44.6	.177	13.66	120	Clear
11:45	1.0	9.0	.281	62.78	7.22	25.4	352	.177	12.89	66	Brown
12:02	1.5	13.5	.264	62.90	7.25	26.0	532	.180	12.59	75	" "
12:18	2.0	18.0	.281	62.99	7.26	25.6	448	.189	5.99	97	" "
12:30	2.5	22.5	.375	63.02	7.24	25.6	118	.182	11.33	81	Clear
12:40	3.0	27.0	.450	63.02	7.11	25.3	175	.186	5.09	88	Cloudy

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
11:15	12:40	.317	28.0	3.0	65.27	63.02	12:45	XMW-09-WG090806-0001

Notes:

Ferrous Iron: 0.04 mg/L

Pumped 28 Gallons into Compound Treatment tank

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0118098

Groundwater Sampli[illegible] Data Sheet

TAIT Environmental Management, Inc

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Project Name: FORMER C6 FACILITY SEPT - 06	**Date:** 9/8/06
Project No.: EM 2727	**Prepared By:** LW
Well Identification: TMW-15	**Weather:** CLOUDY - 75°F
Measurement Point Description: TOC BLACK MARK	**Pump Intake:** 2.75' **Screen:** 62-87'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
	(1) 64.92									
---	(2) 64.92 (3) 64.92	86.95	22.03	---	3.5	10.5	1.8	N/A	N/A	N/A

	Gallons/Foot					
Well Diameter (in)	0.75	2	4	6	**Field Equipment:**	Solinst, Horiba
D Gallons per foot of casing	0.02	0.16	0.65	1.47	**Purge Method:**	GRUNDFOS PUMP
					Well Condition:	FAIR - NO LID

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1055	0.5	1.8	0.36	67.81	6.74	23.3	150	0.166	7.54	-7	CLEAR/NO ODOR
1100	1.0	3.6	0.36	67.83	6.95	23.3	100	0.165	6.41	0	
1105	1.5	5.4	0.36	67.83	6.95	23.4	10	0.163	5.71	10	
1110	2.0	7.2	0.36	67.84	6.98	23.5	3	0.163	4.21	30	
1115	2.5	9.0	0.36	67.84	6.98	23.5	2	0.163	3.74	31	
1120	3.0	10.8	0.36	67.84	6.98	23.5	2	0.163	3.74	35	CLEAR/NO ODOR
*										~~35~~	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1050	11:20	0.36	12 GALLONS	3.0	69.34	67.84	1125	TMW-15_WG090806-0001

Notes: Ferrous Iron = 0.08 mg/L

Dup.

Drum No.: PURGED 12 GALLONS WATER DISPOSED OF WATER COMPANY

ft-bmp = feet below measuring point

BOE-C6-0118099

Groundwater Sampli[illegible] Data Sheet

TAIT Environmental Management, Inc

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Project Name: SEPT 06. FORMER C-6 FACILITY	**Date:** 9/8/06
Project No.: EM 2727	**Prepared By:** CW
Well Identification: TMW-10	**Weather:** CLOUDY ~70°F
Measurement Point Description: TOC BLACKMARK	**Pump Intake:** 75' [illegible] **Screen:** 65-85

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
—	① 58.33 ② 58.33 ③ 58.33	79.95	21.62	—	3.4	10.4	1.7	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	**Field Equipment:** Solinst, Horiba
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:** GRUNDFOS
					Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
8:57	0.5	1.8	0.36	58.91	6.95	24.9	-5	0.176	6.81	77	GREYISH / NO ODOR
9:02	1.0	3.6	0.36	58.93	6.90	24.9	50	0.176	6.71	10	CLEAR / NO ODOR
907	1.5	5.4	0.36	58.94	6.90	24.9	41	0.175	6.65	12	CLEAR / NO ODOR
912	2.0	7.2	0.36	58.94	6.92	24.9	30	0.175	6.70	12	CLEAR / NO ODOR
917	2.5	9.0	0.36	58.95	6.93	24.8	0	0.176	6.73	13	CLEAR / NO ODOR
922	3.0	10.8	0.36	58.95	6.93	24.9	0	0.176	6.73	13	CLEAR / NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
8:52	9:22	0.36	12 GALLON	3 CASING	62.65	58.95	9:25	TMW-10-WG090806-0001
							9:30	TMW-10-WG090806-0002 Dup.

Notes:
Ferrous Iron. 0.01 mg/L

Drum No.: PURGED 12 GALLONS DISPOSED IN COMPOUND

ft-bmp = feet below measuring point

BOE-C6-0118100

TAIT Environmental Management, Inc

Groundwater Sampli Data Sheet

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Project Name: C6 Facility Torrance		**Date:** 9-8-06	
Project No.: EM		**Prepared By:** SR	
Well Identification: XMW-19		**Weather:** Cool	
Measurement Point Description: TOC North		**Pump Intake:** ~72	**Screen:** 63-79

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D)	Screen Volume (Screen length x D)	½ screen Volume
---	57.66 57.66	76.82	19.16	---	12.45	37.36	6.25	—	—	—

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2" Grunfus Pump

Well Condition: Good

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
09:06	.5	6.25	.625	58.18	5.82	23.5	206	.256	12.04	114	Cloudy
09:17	1.0	12.50	.568	58.41	6.95	23.5	103	1.9 ms/m	12.18	90	" "
09:27	1.5	18.75	.625	58.46	7.35	23.7	58.6	.199 s/m	12.38	88	Clear
09:37	2.0	25.00	.625	58.46	7.55	23.8	53.1	3.5 ms/m	12.71	93	" "
09:46	2.5	31.25	.694	58.46	7.57	24.3	55.7	.204 s/m	12.93	85	" "
09:55	3.0	37.50	.694	58.46	7.58	24.7	38.1	.202 s/m	13.17	89	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
08:56	09:55	.635	38.0	3.0	61.49	57.70	10:00	XMW-19.WG090806-0001 Dup.

Notes: dedicated 100FT 5/8 tubing to well. XMW-09 is #19 skip order due to Earth Tech. Pumped 38 gallons into compound tank. Ferrous Iron: 0.29 mg/L

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0118101

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 Semi Annual GW Sampling Event	**Date:** 09/08/06
Project No.: EM 2727	**Prepared By:** KL
Well Identification: MW6021	**Weather:** ~~Sunny~~ Cloudy
Measurement Point Description: TOC, Mark	**Pump Intake:** ~ 107' **Screen:** 97 – 122'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	63.13 63.13	121.75'	58.62	---	—	—	—	25	16.25	8.2

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Submersible Pump

Well Condition: Good / No lock

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1018	Above	25.0	1.2	63.75	7.52	23.3	0.0	78	0.24	-242	Sulfur odor
1025	0.5	33.2	1.2	63.78	7.66	23.3	0.0	77	0.29	-237	
1032	1.0	41.4	1.2	63.78	7.65	23.3	0.0	78	0.10	-243	
1039	1.5	49.6	1.2	63.75	7.63	23.3	0.0	78	0.00	-245	
1046	2.0	57.8	1.2	63.80	7.65	23.2	0.0	77	0.00	-253	
1053	2.5	66.0	1.2	63.81	7.65	23.2	0.0	77	0.00	-247	
1100	3.0	74.2	1.2	63.82	7.65	23.2	0.0	77	0.00	-248	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0957	1100	1.2	~~94~~ 74.5	Above 25 gal Casing 3.0	74.85	63.82	1105	MW6021_WG090806_0001

Notes: Dup.

Ferrous iron: 0.04 mg/L

Drum No.: Pump purge water to compound tank.

ft-bmp = feet below measuring point

BOE-C6-0118102

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: Former C-6 Semi Annual Sampling Event	**Date:** 09/08/06
Project No.: EM 2727	**Prepared By:** KL
Well Identification: CMW026	**Weather:** Sunny
Measurement Point Description: TOC, Mark	**Pump Intake:** ~ 100 **Screen:** 92 - 117'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (C XD=E)	E Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Tubing ~~Screen~~ Volume ~~(Screen length x D)~~ liters	½ screen Volume
---	60.50 60.50	117.95'	57.45'	---	—	—	—	—	4.2	—

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Monsoon pump / low-flow purge

Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ liters	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1446	Initial Purge	5.2	0.49	60.68	7.00	22.9	31.2	0.14	1.06	-142	Tube/pump/FTC
1451		7.2	0.40	60.68	6.99	22.7	30.0	0.14	0.54	-145	Volume
1456		9.2	0.40	60.68	7.00	22.7	25.4	0.15	0.36	-144	No odor
1501		11.2	0.40	60.68	7.05	22.6	19.0	0.15	0.25	-146	
1506		12.2	0.40	60.68	7.03	22.7	18.0	0.15	0.09	-145	
1511		15.2	0.40	60.68	7.02	22.6	17.0	0.15	0.13	-144	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ Liters Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1435	1511	0.40	16.0	—	—	60.68	1514	CMW026_WG090806_0001

Notes: 0.1057 gpm

Ferrous iron: 3.30 mg/L

Hydrogen Sulfide: 0.1378 mg/L

Dup.

~~Drum No.:~~ Pumped purge water to compound tank.

ft-bmp = feet below measuring point

BOE-C6-0118103

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 Semi Annual GW Sampling Event		**Date:** 09/08/06	
Project No.: EM 2727		**Prepared By:** KL	
Well Identification: MWL006		**Weather:** Sunny	
Measurement Point Description: TOC, Mark		**Pump Intake:** ~ 105'	**Screen:** 95-115'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
--	61.47 61.47	116.60	55.13	–	–	–	–	5.4	3.2	1.6

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Submersible Pump

Well Condition: Good

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1248	Above	5.4	0.6	66.30	6.51	25.6	44.9	0.41	1.98	-134	Clear/No odor
1250	0.5	7.0	0.8	67.41	6.58	25.8	24.6	0.39	1.41	-147	
1252	1.0	8.6	0.8	67.89	6.60	25.9	22.0	0.39	1.10	-150	
1254	1.5	10.2	0.8	68.21	6.66	26.1	28.2	0.38	0.86	-156	
1256	2.0	11.8	0.8	69.00	6.70	26.0	25.9	0.37	0.69	-158	
1258	2.5	13.4	0.8	69.48	6.72	26.2	26.6	0.37	0.56	-163	
1300	3.0	15.0	0.8	69.78	6.74	26.3	27.2	0.37	0.47	-165	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1240	1300	0.8	15	Above: 5.4 Casing: 3.0	72.49	72.49	1305	MWL006WG09080600001

Notes: Ferrous iron: 3.30 mg/L

Dup.

Pumped purge water to compound tank.

~~Drum No.:~~

ft-bmp = feet below measuring point

BOE-C6-0118104

September 2006 Quarterly and WDR Monitoring Program
Former C-6 Facility
Los Angeles, California

Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Recorded By	Equipment Type	Comments
MWC008	09/18/06	11:10	0.04 mg/L	—	CL	Hach DR/890	
XMW-19		10:05	0.29 mg/L	—		Hach DR/890	
TMW-10		9:35	0.01 mg/L	—		Hach DR/890	
TMW-15		11:30	0.08 mg/L	—		Hach DR/890	
VMW-09		12:50	0.04 mg/L	—		Hach DR/890	
MWC006		13:10	3.30 mg/L	—		Hach DR/890	
MWB008		13:25	0.35 mg/L	—		Hach DR/890	
CMW026		15:10	3.30 mg/L	0.1378 mg/L		Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
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						Hach DR/890	
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						Hach DR/890	
						Hach DR/890	
						Hach DR/890	

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: Former C-6 Semi Annual GW Sampling		**Date:** 09/11/06	
Project No.: EM 2727		**Prepared By:** KC	
Well Identification: IRZ CMW001		**Weather:** Sunny	
Measurement Point Description: TOC, Mark		**Pump Intake:** ~105'	**Screen:** 92 - 117'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A - B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Tubing ~~Screen~~ Volume ~~(Screen length x D)~~ liters	½ screen Volume
—	60.68 60.68	116.40	55.72	—	—	—	—	—	3.74	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Monsoon Pump

Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ liters	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1436	Initial Purge	4.74	0.47	61.00	7.37	22.4	0.0	0.13	0.34	-5	Tubing + FTC Volume
1441		7.09	0.47	61.00	7.46	22.5	0.0	0.13	0.00	-5	Clear
1446		9.44	0.47	61.00	7.50	22.6	0.0	0.13	0.00	1	—
1451		11.79	0.47	61.00	7.49	22.5	0.0	0.13	0.00	7	
1456		14.14	0.47	61.00	7.49	22.5	0.0	0.13	0.00	9	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ liters Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1426	1456	0.47	15	—	71.82	61.00	1500	IRZCMW001_WG091106_0001

Notes: 0.1242 gpm

Ferrous Iron: 0.00 mg/L

Hydrogen Sulfide: 0.0318 mg/L

~~Drum No.~~ ~~Dupe~~: Pumped purge water to compound tank

ft-bmp = feet below measuring point

BOE-C6-0118106

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 Semi-Annual Sampling Event		**Date:** 8/11/06	
Project No.: EM 2727		**Prepared By:** KL	
Well Identification: IRZCMW002		**Weather:** Sunny	
Measurement Point Description:		**Pump Intake:** 108.5'	**Screen:** 96' – 121'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ Tubing Volume	½ screen Volume
---	① 64.76 ② 64.76	121.33	56.57	--	—	—	—	—	3.9	—

	Gallons/Foot					
Well Diameter (in)	0.75	2	4	6	**Field Equipment:**	Solinst, Horiba
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:**	Monsoon Pump
					Well Condition:	Good

Time	Casing/ Screen	Volume Purged (~~gallons~~ liters)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1227	Initial Purge	4.9	0.25	66.19	7.10	21.7	0.0	0.21	0.00	-131	Tubing + FTK Volume
1232		7.4	0.25	66.30	7.08	21.6	0.0	0.21	0.00	-131	
1237		9.9	0.25	66.51	7.09	21.7	0.0	0.21	0.00	-134	
1242		12.4	0.25	66.53	7.09	21.6	0.0	0.21	0.00	-136	
1247		14.9	0.25	66.69	7.09	21.6	0.0	0.21	0.00	-137	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ liters Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1207	1247	0.25	15.0	—	76.07	66.69	1250	IRZCMW002_WG091106_0001

Notes: 0.0660 gpm

Ferrous Iron: 3.30 mg/L

Hydrogen Sulfide: 0.328 mg/L

Dup.

Pump purge water to compound tank.

~~Drum No.:~~

ft-bmp = feet below measuring point

BOE-C6-0118107

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 Semi-Annual Sampling Event		**Date:** 09/11/06	
Project No.: EM 2727		**Prepared By:** KL	
Well Identification: CMW002		**Weather:** Sunny	
Measurement Point Description: TOC, Mark		**Pump Intake:** ~ 110	**Screen:** 99' - 124'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen Volume~~ Tubing volume ~~(Screen length x D)~~	½ screen Volume
---	62.18 62.18	124.19	62.01	–	—	—	—	—	4.0	–

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Monsoon Pump

Well Condition: Good

Time	Casing/ Screen (liters)	Volume Purged ~~(gallons)~~ liters	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1015	Initial Purge	5.0	0.5	62.22	7.31	22.6	25.2	92	1.30	-20	Tubing + FTC volume
1020		7.5 ~~5.0~~	0.5	62.22	7.39	22.8 ~~34.1~~	34.1	91	0.69	-24	Clear
1025		10.0 ~~5.0~~	0.5	62.21	7.50	22.7	34.7	90	0.00	-35	
1030		12.5 ~~5.0~~	0.5	62.21	7.56	22.7	31.1	89	0.00	-42	
1035		15.0 ~~5.0~~	0.5	62.21	7.55	22.9	25.1	89	0.00	-44	
1040		17.5	0.5	62.21	7.53	22.8	23.6	89	0.00	-43	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons Purged~~ liters Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1005	1040	0.5	18.0	—	74.58	62.21 ~~1045~~	1045	CMW002-WG091106-0001

Notes: 0.132 gpm

Ferrous iron: 0.20 mg/L

Hydrogen Sulfide: 0.00 mg/L

Pumped purge water to compound tank

~~Drum No.~~ Dup.

ft-bmp = feet below measuring point

BOE-C6-0118108

TAIT Environmental Management, Inc

Groundwater Sampli[illegible] Data Sheet

Page __ of __

Project Name: Former C6 (Boeing Torrance)	**Date:** 9-11-06
Project No.: EM	**Prepared By:** SR
Well Identification: MWB007	**Weather:** Sunny
Measurement Point Description: TOC North	**Pump Intake:** ~80 **Screen:** 60-90

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	58.77	90.0	31.23	NLD	–	–	–	.8	19.5	9.75

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2" Grundfos Pump

Well Condition: Good

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
13:21	Above	1.0	.5	58.88	7.62	26.2	38.3	.166	6.20	9	OK clear
13:35	.5	10.0	.714	59.02	7.34	23.9	10.0	.166	9.83	58	" "
13:45	1.0	21.0	1.0	58.94	7.22	23.9	1.7	.163	9.67	83	" "
13:59	1.5	31.0	.714	58.91	7.22	23.7	0.8	.162	9.19	101	" "
14:17	2.0	41.0	.555	58.90	7.28	23.5	1.5	.161	6.46	128	" "
14:33	2.5	51.0	.625	58.91	7.26	23.3	3.7	.166	6.40	136	" "
14:50	3.0	61.0	.588	58.93	7.22	23.1	4.5	.158	4.85	172	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
13:19	14:50	.670	62.0	1 Above 3 Screen	65.01	58.93	14:55	MWB007_WG091106_0001

Notes: Ferrous Iron - 0.01 mg/L

Dispose of Purge H2O in Compound Tank

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0118109

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Page __ of __

Project Name: Boeing C6 (Torrance)	**Date:** 9-11-06
Project No.: EM	**Prepared By:** SR
Well Identification: MWB027	**Weather:** Sunny
Measurement Point Description: TOC North	**Pump Intake:** ~ 80 — **Screen:** 67.5 - 87.5

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (C XD=E)	E Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	64.86	88.50	23.64 ~~88.50~~	---	3.78	11.34	2.0	–	–	–

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2" Grunfus Pump

Well Condition: Good

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (s/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
11:53	.5	2.0	.4	66.91	7.39	27.6	238.0	.200	10.49	-12.5	Cloudy
11:58	1.0	4.0	.4	67.48	7.36	26.1	250.0	.203	10.62	-133	" "
12:03	1.5	6.0	.4	67.59	7.30	25.6	183.0	.211	10.29	-140	" "
12:08	2.0	8.0	.4	68.10	7.28	25.0	102.0	.225	10.08	-133	" "
12:13	2.5	10.0	.4	68.21	7.22	25.0	61.4	.255	7.67	-128	Clear
12:18	3.0	12.0	.4	68.25	7.17	24.8	47.5	.263	4.22	-121	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
11:48	12:18	.4	13.0	3.0	~~[illegible]~~ 69.58	64.90	12:30	MWB027-WG091106-0001

Notes: Took Field Blank's @ 11:40 FB-TAIT 091106-0001

Ferrous Iron: 0.58 mg/L

Disposed of Purged H2O in Compound Tank

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0118110

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Page __ of __

Project Name: Former C6 Facility (Torrance)	**Date:** 9-11-06
Project No.: EM	**Prepared By:** SR
Well Identification: MWC011	**Weather:** Sunny
Measurement Point Description: TOC North	**Pump Intake:** ~100 **Screen:** 94-114

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x F	Screen Volume (Screen length x D)	½ screen Volume
---	61.90	112.33	50.43	NO	-	-	-	5.13	3.2	1.6

Well Diameter (in)	Gallons/Foot			
	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2" Grun Fus Pump

Well Condition: Good

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (s/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
09:57	Above	5.00	.555	62.29	6.05	25.5	22.4	.150	9.29	170	Clear
10:01	.5	6.6	.4	62.31	6.52	24.7	4.1	83.8 mslm	9.28	123	" "
10:05	1.0	8.2	.4	62.32	7.09	24.6	6.1	80.5 mslm	4.71	110	" "
10:09	1.5	9.8	.4	62.33	7.25	24.5	7.5	79.3 mslm	3.87	104	" "
10:13	2.0	11.4	.4	62.35	7.21	24.7	3.9	0.6 mslm	8.04	75	" "
10:17	2.5	13.0	.4	62.35	7.40	24.5	9.9	78.0 mslm	8.79	78	" "
10:21	3.0	14.6	.4	62.36	7.46	24.4	10.0	77.8 mslm	8.85	73	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	~~Total Casing~~ Total Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
09:48	10:21	.442	15.5	1 Above 5 Screen	71.98	61.91		MWC011_WG091106_0001

Notes: Ferrous Iron = 0.06 mg/L

Pumped Purge H2O into Compound Tank

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0118111

September 2006 Quarterly and WDR Monitoring Program
Former C-6 Facility
Los Angeles, California

Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Recorded By	Equipment Type	Comments
MWC01	09/11/06	10:30	0.16 mg/L	— mg/L	CL	Hach DR/890	
MWB02	09/11/06	12:35	0.58 mg/L	— mg/L	CL	Hach DR/890	
MWB00	09/11/06	14:55	0.01 mg/L	— mg/L	CL	Hach DR/890	
CMW002	09/11/06	10:50	0.20 mg/L	0.00 mg/L	CL	Hach DR/890	
IRZCMW00 ~~IRZB0045~~	09/11/06	15:05	0.00 mg/L	0.0318 mg/L	CL	Hach DR/890	
IRZCMW002	09/11/06	12:55	3.30 mg/L	0.3286 mg/L	CL	Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: C-6 Facility Semi-Annual GW Sampling Event	**Date:** 09/12/06
Project No.: EM 2727	**Prepared By:** KL
Well Identification: IRZCMW003	**Weather:** Sunny
Measurement Point Description: TOC, Mark	**Pump Intake:** 105' **Screen:** 92-117'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Tubing ~~Screen~~ Volume (~~Screen length x D~~) liters	½ screen Volume
---	60.77 60.77	117.60		---	—	—	—	—	3.74	—

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba
Purge Method: Monsoon Pump
Well Condition: Good

Time	Casing/ Screen	Volume Purged (~~gallons~~ liters)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1427	Initial Purge	4.74	0.47	60.90	7.44	22.4	16.6	65	2.22	-95	Tubing + FTC Volume
1432		7.09	0.47	60.99	7.56	22.4	22.2	65	0.45	-104	clear
1437		9.44	0.47	60.99	7.64	22.4	26.9	65	0.03	-112	
1442		11.79	0.47	60.99	7.66	22.6	29.0	65	0.00	-113	
1447		14.14	0.47	60.99	7.67	22.5	28.1	65	0.00	-115	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ liters Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1417	1447	0.47	14.2	—	—	60.99	1450	IRZCMW003WG091206.000, Dup.

Notes: 0.1242 gpm
Ferrous iron: 0.24 mg/L
Hydrogen Sulfide: 0.0212 mg/L

Purged purge water to compound tank

~~Drum No.~~

ft-bmp = feet below measuring point

BOE-C6-0118113

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: Former C-6 Semi-Annual GW Sampling Event	**Date:** 09/12/06
Project No.: EM 2727	**Prepared By:** KL
Well Identification: IRZMW004	**Weather:** Sunny
Measurement Point Description: TOC, Mark	**Pump Intake:** ~ 78' **Screen:** 65-90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Tubing ~~Screen~~ Volume ~~(Screen length x D)~~ liters	½ screen Volume
---	62.09 62.09	90.55	28.46	---	—	—	—	—	2.8	—

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	**Field Equipment:** Solinst, Horiba
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:** Monsoon Pump
					Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ liters	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1244	Initial Purge	3.80	0.35	62.09	7.10	24.1	33.9	0.15	0.00	-253	Tubing + FTR Vol
1249		5.55	0.35	62.09	7.11	25.0	34.1	0.15	0.00	-265	Sulfur odor
1254		7.30	0.35	62.09	7.11	23.6	33.3	0.15	0.00	-275	
1259		9.05	0.35	62.09	7.09	23.6	33.2	0.15	0.00	-278	
1304		10.80	0.35	62.09	7.09	23.6	33.1	0.15	0.00	-277	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ liters Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1233	1304	0.35	10.80	—	—	62.09	1308	IRZMW004_WG091206_0001

Notes: 0.09259 gpm IRZMW004_WG091206_0002 Obtained duplicate @ 1306

Ferrous iron: 1.14 mg/L Hydrogen sulfide 0.848 mg/L

Dup.

Pumped purge water to compound tank

~~Drum No.:~~

ft-bmp = feet below measuring point

BOE-C6-0118114

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: Former C-6 Semi-Annual GW Sampling Event	**Date:** 09/12/06
Project No.: EM 2727	**Prepared By:** KL
Well Identification: IRZMW005	**Weather:** Sunny
Measurement Point Description: TOC, Mark	**Pump Intake:** ~ 78' **Screen:** 65 - 90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (C XD=E)	E Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Tubing ~~Screen~~ Volume (~~Screen length x D~~) liters	½ screen Volume
---	61.72 61.72	87.95	26.23	---	—	—	—	—	2.8	—

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D ~~Gallons~~ per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Monsoon Pump

Well Condition: Good

Time	Casing/ Screen	Volume Purged (~~gallons~~ liters)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1013	Initial Purge	3.8	0.38	61.80	6.82	23.2	358.0	0.14	3.51	-116	Tubing + FTC Vol.
1018		5.7	0.38	61.82	6.96	23.4	285.0	0.13	0.50	-114	Cloudy
1023		7.6	0.38	61.83	6.98	23.5	282.0	0.13	0.23	-113	
1028		9.5	0.38	61.841	7.02	23.6	250.0	0.13	0.00	-109	
1033		11.4	0.38	61.81	7.03	23.6	245.0	0.13	0.00	-109	
1038		13.3	0.38	61.81	7.03	23.7	238.0	0.13	0.00	-109	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ liters Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1003	1038	0.38	13.5	—	66.96	61.81	1040	IRZMW005_WG091206_0001

Notes:

0.1004

Ferrous iron: 1-65. mg/L

Hydrogen Sulfide: 0-795mg/L

~~Dup~~

~~Drum No.~~: Pumped purge water to compained tank.

ft-bmp = feet below measuring point

BOE-C6-0118115

TAIT Environmental Management, Inc

Groundwater Sampli Data Sheet

Page __ of __

Project Name: Former C6 Facility (Torrance)	**Date:** 9-12-06
Project No.: EM	**Prepared By:** SR
Well Identification: MWB003	**Weather:** Sunny
Measurement Point Description: TOC North	**Pump Intake:** ~ 80 **Screen:** 65 - 90

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
--	~~65.11~~ 65.11	89.61	24.5	--	3.92	11.76	2.0	–	–	–

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2" Grunfus Pump

Well Condition: good

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (s/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
09:38	.5	2.0	0.2	65.37	6.43	24.4	62.5	.197	10.84	134	Clear
09:45	1.0	4.0	0.3	65.35	7.07	24.3	14.1	.193	7.39	68	" "
09:54	1.5	6.0	0.22	65.35	7.31	24.2	0.3	.193	5.18	69	" "
10:02	2.0	8.0	0.25	65.35	7.37	24.3	4.4	.190	9.28	73	" "
10:10	2.5	10.0	0.25	65.35	7.41	24.7	5.9	.189	9.62	68	" "
10:18	3.0	12.0	0.25	65.35	7.37	24.8	7.3	.189	9.61	77	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
09:28	10:18	0.24	13.0	3.0	70.01	65.12	10:25	MWB003-WG091206-0001

Notes: Ferrous Iron: 0.13 mg/L

Take Field Blank @ 10:30 FB-TAIT-091206-0001

Disposed of Purged H2O in Compound Tank

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0118116

Groundwater Sampli Data Sheet

TAIT Environmental Management, Inc

Page __ of __

Project Name: Former C6 Facility (Torrance)	**Date:** 09-12-06
Project No.: EM	**Prepared By:** SR
Well Identification: MWB006	**Weather:** Sunny
Measurement Point Description: TOC North	**Pump Intake:** ~ 80 **Screen:** 65-90

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x 1'	Screen Volume (Screen length x 1')	½ screen Volume
---	61.48	92.94	31.46	---	20.44	61.34	10.22	2.28	16.25	8.125

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: 2" Grun Fus Pump dedicated Tubing

Well Condition: good

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (s/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
12:00	Above	2.0	0.2	63.21	7.00	25.3	7.9	.121	11.19	-128	Clear
12:20	.5	10.0	0.4	64.87	6.80	25.7	13.1	.125	10.47	-99	" "
12:40	1.0	18.0	0.4	65.78	6.73	26.6	12.4	.404	5.37	-110	" "
13:01	1.5	26.0	0.4	66.11	6.80	26.4	10.7	.395	5.66	-111	" "
13:21	2.0	34.0	0.4	66.24	6.86	26.0	11.3	.387	4.20	-114	" "
13:41	2.5	42.0	0.4	66.32	6.82	26.2	11.4	.378	3.17	-115	" "
14:00	3.0	50.0	0.4	66.32	6.94	25.4	10.9	.373	5.19	-113	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total ~~Casing~~ Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
11:50	14:00	.384	51.0	1 Above 3 Screens	67.77	62.81	14:15	MWB006-WG091206-0001

Notes: Ferrous Iron : 3.30 mg/L

OFF Loaded Purged H2O Compound TANK

Drum No. :

Dup.

ft-bmp = feet below measuring point

BOE-C6-0118117

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: SEPT 06 FORMER C-6	**Date:** 9/12/06
Project No.: EM 2727	**Prepared By:** LW
Well Identification: ~~00~~ DRZMW001B	**Weather:** SUNNY 85°F
Measurement Point Description: TOC BLACKMARK	**Pump Intake:** 85' **Screen:** 80'-90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING VOLUME ~~Screen Volume~~ (Screen length x D) Liter	½ screen Volume
---	① 65.35 ② 65.35 ③ 65.35	89.95	24.6	---	N/A	N/A	N/A	N/A		N/A

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	

Field Equipment: Solinst, Horiba

Purge Method: SS MONSOON

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m/s)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
	INITIAL PURGE Liter										
1320		4.2	0.21	65.43	~~6.61~~ ~~6.48~~	23.1	11	0.187	0.00	40	CLEAR / NO ODOR
1324	1.5	6.7	0.38	65.44	6.60	23.0	6	0.184	0.00	48	CLEAR / NO ODOR
1328	1.5	8.2	0.38	65.45	6.58	22.8	5	0.187	0.00	49	CLEAR / NO ODOR
1332	1.5	9.7	0.38	65.45	6.58	22.6	5	0.187	0.00	57	CLEAR / NO ODOR
1336	1.5	11.2	0.38	65.45	6.59	22.4	6	0.187	0.00	57	CLEAR / NO ODOR
1340	1.5	12.7	0.38	65.45	6.60	22.4	9	0.187	0.00	57	CLEAR / NO ODOR
1344	1.5	14.2	0.38	65.45	6.60	22.4	10	0.187	0.00	57	CLEAR / NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ Liter Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1300	1344	0.38 0.1004 gpm	15.4 Liter	TUBING VOLUME	70.27	65.45	1350	DRZMW001B-W-20091206-0001 Dup.

Notes: Ferrous Iron: 0.02 mg/L

Hydrogen Sulfide: 0.00 mg/L.

Drum No.: DISPOSED OF WATER IN COMPOUND.

ft-bmp = feet below measuring point

BOE-C6-0118118

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Page __ of __

Project Name: Sept 06 Former C-6	**Date:** 9/12/06
Project No.: EM 2727	**Prepared By:** LW
Well Identification: FRZMW003B	**Weather:** Sunny ~ 85°F
Measurement Point Description: TOC Blackmark	**Pump Intake:** 85' **Screen:** 80-90

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Tubing Volume ~~Above Screen Volume~~ (Top screen – DTW)x D Liter	~~Screen~~ Volume (Screen length x D)	½ screen Volume
---	① 65.45 ② 65.45 ③ 65.45	92.90	27.45	---	N/A	N/A	N/A	3.2	N/A	N/A

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: S.S Monsoon

Well Condition: Good

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m/s)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1150	Initial Purge Liter	4.3	0.21	65.49	6.50	22.1	32	0.196	2.11	26	Clear / No odor
1154	1.5	5.8	0.38	65.51	6.50	22.1	20	0.195	1.67	30	Clear / No odor
1158	1.5	7.3	0.38	65.51	6.50	22.1	20	0.194	1.11	32	Clear / No odor
1202	1.5	8.8	0.38	65.51	6.49	22.1	15	0.192	0.40	32	Clear / No odor
1206	1.5	10.3	0.38	65.51	6.49	22.1	15	0.193	0.14	36	Clear / No odor
1210	1.5	11.8	0.38	65.51	6.49	22.1	14	0.192	0.12	36	Clear / No odor
1214	1.5	13.3	0.36	65.51	6.49	22.1	14	0.192	0.11	36	Clear / No odor

Purge Start Time	Purge End Time	Average Flow (~~gpm~~ gpl)	Total ~~Gallons~~ Liter Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1130	1214	0.38	14 Liters	4 Tubing Volume	70.94	65.51	1217	FRZMW003B-WG091206-0001 Dup.

Notes: Ferrous Iron : 0.01 mg/L

Hydrogen Sulfide : 0.00 mg/L

Drum No. : Disposed of unused in compound

ft-bmp = feet below measuring point

BOE-C6-0118119

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Page __ of __

Project Name: SEPT 06. FORMER C-6 FACILITY	**Date:** 9/12/06
Project No.: EM 2727	**Prepared By:** LW
Well Identification: IRZMW 002A	**Weather:** SUNNY 85°F
Measurement Point Description: TOC	**Pump Intake:** 75' **Screen:** 68'-78'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING VOLUME ~~Screen Volume~~ (Screen length x D) LITER	½ screen Volume
---	① 65.31 ② 65.31 ③ 65.31	77.69	12.38	---	N/A	N/A	N/A	N/A	3.1	N/A

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	**Field Equipment:** Solinst, Horiba
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:** SS. MONSOON
					Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (µ/s)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1540	INITIAL PURGED V LITER	4.1	0.27	65.39	6.80	22.5	-5	0.218	0.03	~~[illegible]~~ 12	CLOUDY/ BROWN
15:44	1.5	5.6	0.38	65.39	6.81	22.7	-5	0.218	0.31	16	CLOUDY/ YELLOW
1548	1.5	6.1	0.38	65.40	6.85	23.3	260	0.218	1.45	-16	CLEAR/ YELLOW
1552	1.5	7.6	0.38	65.40	6.85	23.4	170	0.217	1.60	-18	CLEAR / YELLOW
1556	1.5	9.1	0.38	65.40	6.85	23.4	160	0.217	1.61	-22	CLEAR/ YELLOW
1600	1.5	10.6	0.38	65.40							CLEAR / YELLOW
1604	1.5	12.1	0.38	65.40							CLEAR / YELLOW

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ Liter Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
15:25	1604	0.38	13 Liter	TUBING VOLUME	67.79	65.40	1608	IRZMW002A-WG091206_0001

Notes: 0.1004 gpm

Ferrous Iron: 0.32 mg/L

Hydrogen sulfide: 0.159 mg/L

Dup.

Drum No.: DISPOSED of IN compound

ft-bmp = feet below measuring point

BOE-C6-0118120

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: SEPT 06 FORMER C-6 FACILITY	**Date:** 9/12/06
Project No.: EM 2727	**Prepared By:** WW
Well Identification: IRZMW002B	**Weather:** SUNNY. 75°F
Measurement Point Description: TOC BLACKMARK	**Pump Intake:** 88' **Screen:** 88-93'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING VOLUME Screen Volume (Screen length x D) LITER	½ screen Volume
---	① 63.22 ② 63.22 ③ 63.22	89.92	26.7	---	N/a	N/a	N/a	N/a	3.3	

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: S.S. MONSOON

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ L	Flow Rate (gpm) L	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1050	INITIAL PURGE LITER	4.3	0.43	63.30	6.46	22.2	300	0.182	0.25	-35	CLOUDY / BAD ODOR
1054	1.5	5.8	0.38	63.30	6.46	22.4	200	0.180	0.00	-25	CLOUDY / BAD ODOR
1058	1.5	7.3	0.38	63.30	6.47	22.7	140	0.179	0.00	-07	CLOUDY / BAD ODOR
1102	1.5	8.8	0.38	63.30	6.50	22.7	121	0.178	0.00	40	CLOUDY / BAD ODOR
1106	1.5	10.3	0.38	63.30	6.50	22.7	120	0.178	0.00	62	CLEAR / BAD ODOR
1110	1.5	11.8	0.38	63.30	6.50	22.7	120	0.178	0.00	63	CLEAR / BAD ODOR
1114	1.5	13.3	0.38	63.30	6.50	22.7	120	0.178	0.00	63	CLEAR / BAD ODOR

Purge Start Time	Purge End Time	Average Flow (gpm) GPM	Total ~~Gallons~~ 2 for Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
10:40	1114	0.38 0.1004 gpm	14 GALLONS	TUBING VOLUME	68.56	63.30	1120	IRZMW002B-WG091206-0001 Dup.

Notes:

Ferrous Iron: 0.18 mg/L

Hydrogen Sulfide: 0.0848 mg/L

Drum No.: WATER DISPOSED OF IN COMPOUND

ft-bmp = feet below measuring point

BOE-C6-0118121

September 2006 Quarterly and WDR Monitoring Program
Former C-6 Facility
Los Angeles, California

Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Recorded By	Equipment Type	Comments
MWB003	09/12/06	10:30	0.13 mg/L	—	CL	Hach DR/890	
MWB006	09/12/06	14:20	3.30 mg/L	—	CL	Hach DR/890	
IRZMW005	09/12/06	10:45	1.65 mg/L	0.795 mg/L	CL	Hach DR/890	
IRZMW004	09/12/06	13:10	1.14 mg/L	0.848 mg/L	CL	Hach DR/890	
IRZMW003	09/12/06	14:55	0.24 mg/L	0.0212 mg/L	CL	Hach DR/890	
IRZMW002 ~~IRZMW002~~	09/12/06	16:15	0.33 mg/L	0.159 mg/L	CL	Hach DR/890	
IRZMW001	09/12/06	13:55	0.03 mg/L	0.00 mg/L	CL	Hach DR/890	
IRZMW007	09/12/06	12:25	0.01 mg/L	0.00 mg/L	CL	Hach DR/890	
IRZMW022B	09/12/06	11:25	0.18 mg/L	0.0848 mg/L	CL	Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
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						Hach DR/890	
						Hach DR/890	

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: SEPT. 06 FORMER C-6 FACILITY		**Date:** 9/13/06	
Project No.: EM 2727		**Prepared By:** LW	
Well Identification: IRZMW001A		**Weather:** SUNNY - 80°F	
Measurement Point Description: TOC - BLACK MARK		**Pump Intake:** 70'	**Screen:** 65'-75'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (C XD=E)	E Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING VOLUME ~~Screen Volume~~ (Screen length x D)	½ screen Volume
---	(1) 6540 (2) 6540 (3) 6540	75.35	9.95	---	N/A	N/A	N/A	N/A	2.9	N/A

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: S.S. MONSOON

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (~~gallons~~) LITER	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m/s)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1210	INITIAL PURGE LITER	3.9	0.20	65.82	6.82	22.7	Ø	0.188	0.00	4	CLEAR
1214	1.5	5.4	0.38	65.82	6.82	22.7	Ø	0.188	0.00	19	CLEAR
1218	1.5	6.9	0.38	65.82	6.82	22.8	Ø	0.188	0.00	20	CLEAR
1222	1.5	8.4	0.38	65.82	6.80	22.7	Ø	0.189	0.00	22	CLEAR
1226	1.5	9.9	0.38	65.82	6.81	22.8	Ø	0.189	0.00	24	CLEAR
1230	1.5	11.4	0.38	65.82	6.81	22.7	Ø	0.189	0.06	24	CLEAR
1234	1.5	12.9	0.38	65.82	6.81	22.7	Ø	0.189	0.00	24	CLEAR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1150	1234	0.38	15 LITERS	TUBING VOLUME	67.39	65.82	1240	IRZMW001A-W-091306-0001 Dup.

Notes: FIELD BLANKS AT 1245

Ferrous Iron: 0.16 mg/L

Hydrogen Sulfide - 0.0424 mg/L

Drum No.: DISPOSED IN COMPOUND

ft-bmp = feet below measuring point

BOE-C6-0118123

TAIT Environmental Management, Inc

Groundwater Sampli[illegible] Data Sheet

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Project Name: SEPT. 06 FORMER C6 FACILITY	**Date:** 9/13/06
Project No.: EM 2727	**Prepared By:** LW
Well Identification: IRZ MW-003A	**Weather:** CLOUDY ~ 75°F
Measurement Point Description: TOC BLACKMARK	**Pump Intake:** 66' **Screen:** 61-71'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING VOLUME ~~Screen Volume~~ (Screen length x D) LITER	½ screen Volume
---	① 65.42 ② 65.42 3 65.42	76.60	11.18	---	N/A	N/A	N/A	N/A	3.1	N/A

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	**Field Equipment:** Solinst, Horiba
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:** S.S. MONSOON
					Well Condition: GOOD

Time	Casing/ Screen without purged liter	Volume Purged ~~(gallons)~~ liter	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (u/s)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1100		4.1	0.21	65.66	6.78	22.6	-5	0.155	0.16	36	CLOUDY / BROWN
1104	1.5	5.6	0.38	65.66	6.77	23.0	240	0.155	0.00	24	CLOUDY / YELLOW
1108	1.5	7.1	0.38	65.66	6.75	23.0	13	0.155	0.00	19	CLOUDY / YELLOW
1112	1.5	8.6	0.38	65.66	6.74	23.0	3	0.155	0.00	19	CLOUDY / YELLOW
1116	1.5	10.1	0.38	65.66	6.74	23.0	0	0.155	0.00	18	CLEAR / YELLOW
1120	1.5	11.6	0.38	65.66	6.75	23.0	0	0.155	0.00	16	CLEAR / YELLOW
1124	1.5	13.1	0.38	65.66	6.77	23.0	0	0.155	0.00	16	CLEAR / YELLOW

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ liter Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1040	1124	0.38	14 liter	TUBING VOLUME	67.66	65.66	1128	IRZMW-003A_WG091306-0001

Notes:

Ferrous Iron: 0.19 mg/L

Hydrogen Sulfide: 0.1908 mg/L

Dup.

Drum No.: DISPOSED WATER IN COMPOUND

ft-bmp = feet below measuring point

BOE-C6-0118124

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: C-6 Semi-Annual Sampling Event		**Date:** 09/13/06	
Project No.: EM 2727		**Prepared By:** KL	
Well Identification: IRZB0081		**Weather:** Sunny	
Measurement Point Description: TOC, Mark		**Pump Intake:** 85'	**Screen:** 64.5' - 89.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	61.80 61.80	86.97	25.17	---	0.5	1.5	0.25	—	—	—

	Gallons/Foot					
Well Diameter (in)	0.75	2	4	6	**Field Equipment:**	Solinst, Horiba
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:**	Waterra / Low-flow
					Well Condition:	Good

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1215	0.5	0.25	0.05	*	6.77	25.3	999.0	0.18	3.92	-135	Black color/odor
1220	1.0	0.50	0.05		6.85	25.1	999.0	0.18	3.43	-134	
1225	1.5	0.75	0.05		6.81	24.4	986.0	0.17	2.26	-132	
1230	2.0	1.00	0.05		6.81	24.5	670.0	0.17	2.60	-124	
1235	2.5	1.25	0.05		6.77	25.2	625.0	0.17	2.06	-127	
1240	3.0	1.50	0.05		6.76	25.4	618.0	0.18	2.02	-129	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1220	1240	0.05	1.60	3.0	66.83	—	1242	IRZB0081_W60913060001 Dup

Notes: * Could not obtain DTW during purge due to .75" diameter well casing.

Ferrous Iron: 1.72 mg/L

Hydrogen Sulfide: 0.00 mg/L

Pumped purge water to compound tank.

~~Drum No.~~:

ft-bmp = feet below measuring point

BOE-C6-0118125

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: Former C-6 Semi-Annual GW Sampling Event		**Date:** 09/13/06	
Project No.: EM 2727		**Prepared By:** KL	
Well Identification: IRZB0095		**Weather:** Sunny	
Measurement Point Description: TOC, Mark		**Pump Intake:** 85'	**Screen:** 65-90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (C XD=E)	E Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Tubing Screen Volume (Screen length x D)	½ screen Volume
---	61.80 61.80	89.95	28.15	--	0.56	1.68	0.28	–	–	–

Well Diameter (in)	Gallons/Foot			
	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Low-flow / Waterra pump

Well Condition: Good

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1055	0.5	0.28	0.05	*	7.23	26.1	999.0	0.16	3.98	-152	Black color/odor
1100	1.0	0.56	0.05		7.15	24.5	999.0	0.16	2.78	-132	
1105	1.5	0.84	0.05		7.14	24.7	999.0	0.17	2.27	-126	
1110	2.0	1.12	0.05		7.10	25.4	999.0	0.16	2.43	-118	
1115	2.5	1.40	0.05		7.14	26.3	999.0	0.15	2.48	-119	
1120	3.0	1.68	0.05		7.14	24.5	949.0	0.15	2.51	-120	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1050	1120	0.05	1.70	3.0	67.43	62.43	1123	IRZB0095_WG091306_0001

Notes: * Could not obtain DTW while purging due to 0.75" diameter casing.
Ferrous iron: 3.30 mg/L
Hydrogen Sulfide: 12.848 mg/L

Pumped purge water to compound tank

~~Drum No.:~~ Dup.

ft-bmp = feet below measuring point

BOE-C6-0118126

September 2006 Quarterly and WDR Monitoring Program
Former C-6 Facility
Los Angeles, California

Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Recorded By	Equipment Type	Comments
IRZB00 95	09/13/06	11:30	3.30 mg/L	0.0848 mg/L	CL	Hach DR/890	
IRZB 0081		12:48	1.72 mg/L	0.00 mg/L	CL	Hach DR/890	
IRZMW003A		[illegible]	0.19 mg/L	0.1908 mg/L	CL	Hach DR/890	
11:45 IRZMW001A		13:05	0.16 mg/L	0.0424 mg/L	CL	Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
						Hach DR/890	
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