AR_N00236_003283
ALAMEDA POINT
SSIC NO. 5090.3.A

Innovative Technical Solutions, Inc.

November 11, 2008 Document Control No. ITSI-6403-0015-0030

DATA DELIVERABLE FOR NON-ROUTINE GROUNDWATER SAMPLING EVENT AT ALAMEDA SITE CORRECTIVE ACTION AREA 6 – SUMMER 2008

Innovative Technical Solutions Inc. (ITSI) conducted a non-routine groundwater sampling event at the request of U.S. Navy to support the ongoing Remedial Design/Remedial Action activities at the Corrective Action Area 6 (CAA-6) site. This non-routine sampling round was performed between May and June 2008, and it consisted of well re-development and groundwater sampling activities at thirteen monitoring wells across CAA-6 (Figure 1). Well re-development and sampling activities were conducted in accordance with the procedures and methods described in the Alameda Basewide Final Work Plan (Shaw Environmental Inc. [Shaw], 2004), and the ITSI SAP Addendum 02 (ITSI, 2004).

Prior to conducting groundwater sampling, the wells were re-developed on May 27, 28, and 29, 2008 at CAA-6. The re-development activities consisted of using a surge block to disturb and suspend solid particles deposited within the water well column, followed immediately by groundwater pumping to maximize the removal of the suspended particles within the well casing. Groundwater was continuously pumped until its color was observed to be clear, and turbidity values to be significantly decreased. Records of re-development activities as noted in field forms are included in Appendix 1.

Groundwater sampling activities were conducted on June 2 and 3, 2008. A low flow monitoring and purging technique using a peristaltic pump was employed to sample all thirteen wells. In order to sample groundwater in a state of equilibrium with the aquifer, indicator parameters of pH, temperature, specific condcutivity, ORP, dissolved oxygen, and turbidity were monitored approximately every five minutes until three successive readings were withing the required stabilization criteria as specified on the purge logs prior to sampling. Once stabilization was achieved, groundwater samples were collected at a low flow rate directly from the dedicated tubing at each well. Collected samples were transferred to pre-preserved laboratory supplied containers, immediately labeled, and chilled with ice in a cooler. Field records for sampling activities are included in Appendix 1.

Gorundwater samples collected during Summer 2008 event at CAA-6 were submitted to Curtis and Tompkins, Ltd. (C&T), in Berkeley, California, for laboratory analysis of Total Petroleum Hydrocarbon (TPH) as Diesel and Motor Oil by EPA Method 8015B. A summary of laboratory analytical results is presented in Table 1. Laboratory analytical reports and chain-of custodies are included in Appendix 2.

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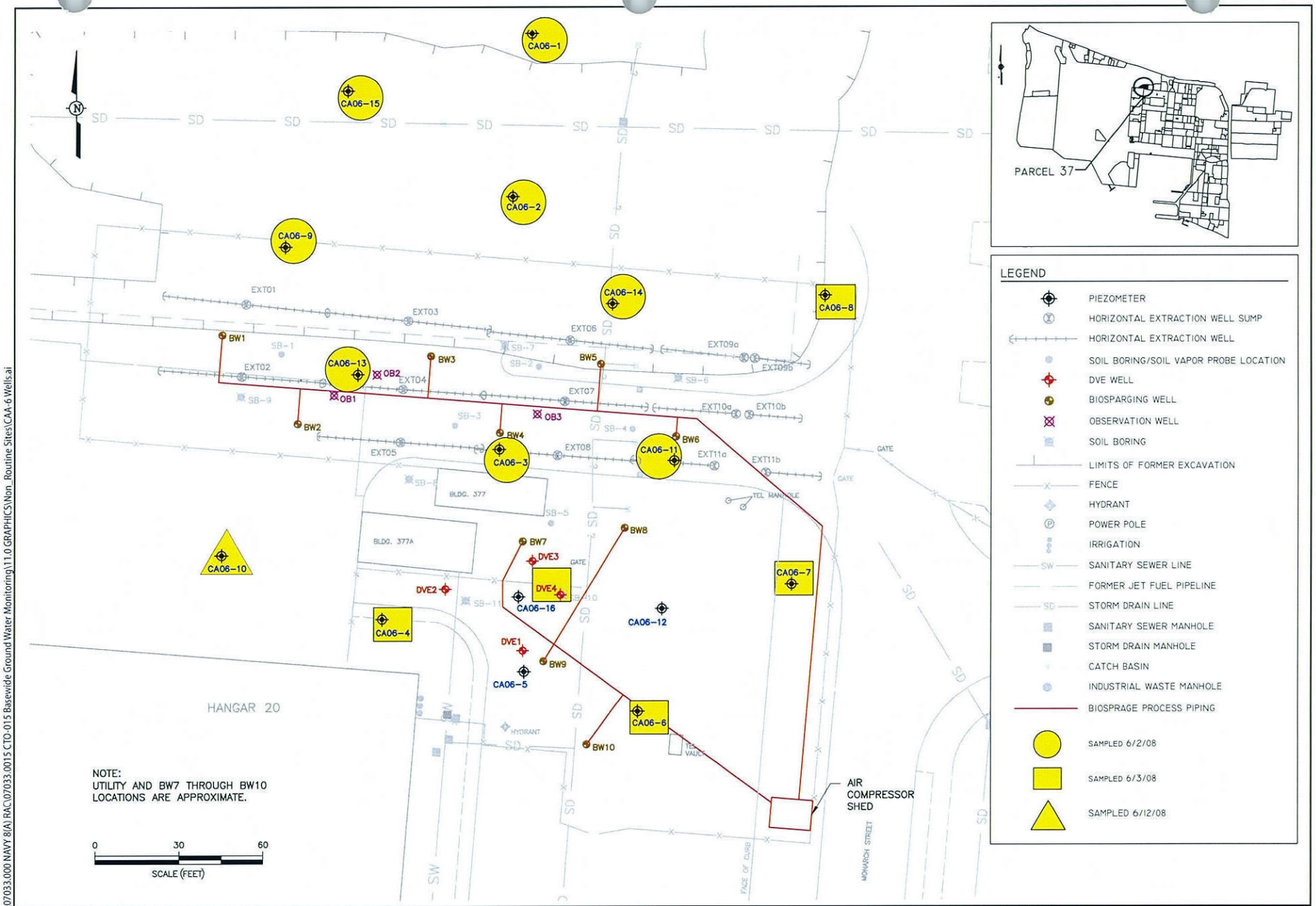
FIGURES



\\Engineering\projects\07033.000 NAVY 8(A) RAC\07033.0015 CTO-015 Basewide Ground Water Monitoring\11.0 GRAPHICS\Non_Routine Sites\CAA-6 Wells.ai

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U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE
Program Management Office West
San Diego, California
Alameda Point, Alameda, California

FIGURE 1
Non-Routine Well Sampling Locations
Corrective Action Area 6
Summer 2008

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TABLES

DATA SUMMARY FOR CORRECTIVE ACTION AREA 6 WELLS SAMPLED IN JUNE 2008
Alameda Point, Alameda, California

		TPH-Extractables by GC (EPA 8015B)		
Well Identification Number	*Date Sampled*	Jet Fuel A C_{10}-C_{16}	Diesel C_{12}-C_{24}	Motor Oil C_{24}-C_{36}
CA06-1	06/02/08	**250**	**300 Y**	< 300
CA06-2	06/02/08	**15 J**	**26 J**	< 300
CA06-3	06/02/08	**100**	**150 Y**	< 300
CA06-4	06/03/08	**250**	**300 Y**	< 300
CA06-6	06/02/08	**110**	**180 Y**	< 300
CA06-7	06/02/08	< 50	**13 J**	< 300
CA06-8	06/02/08	**22 J**	**34 J**	< 300
CA06-9	06/02/08	**61 Y**	**91 Y**	**130 J**
CA06-10	06/12/08	**42 J**	**26 J**	< 300
CA06-11	06/02/08	**15 J**	**36 J**	< 300
CA06-13	06/02/08	**340**	**450 Y**	< 300
CA06-14	06/02/08	**10 J**	**18 J**	< 300
CA06-15	06/02/08	**47 J**	**68 Y**	< 300
DVE-4	06/03/08	**220**	**270 Y**	< 300

NOTES:
All results in micrograms per liter (µg/L).
Bold indicates detected results
J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
<=Indicates not detected at the reporting limit indicated

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APPENDIX 1

FIELD REPORTS

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel), (925) 256-8998 (Fax)

PROJECT NAME: Pt. Alameda - Area 6
PROJECT NUMBER: 07633.0015

DAILY ACTIVITY REPORT

DATE: 5/27/08
PAGE: 1 OF

SITE LOCATION: Area 6

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0730 - mob to Enviro Tech.
to get equipment for Pt. Alameda, Area 6 - well development
- get PID, YSI, peristaltic pump, tubing, DTW-meter, turbidity meter -
leave for site -
Ken calls - WDC - hazy troubles will be at site at 1330 not 9:00-10:00
- at site -
Raj S. leaves for office to get site keys -
- WDC - at site @ 3:00 →
mob to MW-4 to develop well (4-inch well)
Ronny rescue person shows up. ITSI not interfering w/ rabbits -
- continue development.

NTU's at 9.98 at @ 5:45 PM
clean-up -
take down to yard -
pick up 5/28/08

PREPARED BY: Tim Walsh
DATE: 5/27/08
PREPARER'S SIGNATURE: T. Walsh

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: DT. Alameda Area 6 Project No.: 07033.0015

Well No.: DUE-4 Tested By: TRS Date: 5/27/08

too windy PID = 0 But there is an odor

Measuring Point Description: TOC Initial Water Level (ft.): 2.48

Total Well Depth (ft.): 13.15 Final Water Level (ft.): 2.65 off pump

Water Level Measurement Method: Solinist Time Start Develop: 1515

Development Method(s): surge & bail/pump Time End Develop: 1800

Comments: 4" well - bolt down well lid - flush mounted
Slight odor while bailing after surging / Pump @ 2' off bottom during development

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
							1	4	-		
	13.15	-	2.48	=	10.67	x	0.89	1.75	-	=	18.67

5 Gals = 3X

Time	1605	1610	1615	1620	1635	1645	1700	1715	1730	1750
Depth to water	3.07	2.98	3.17	3.24	3.21	3.24	3.26	3.29	3.29	3.29
Volume purged (gals)	∅	~~2.9~~ 1.48	1.48	1.7	4.86	3.2	4.8	4.8	4.8	4.8
Σ volume purged (gals)	∅	1.45	2.96	4.66	9.52	12.72	17.52	22.32	27.12	31.92
Σ casing volumes	∅	0.08	0.16	0.24	0.50	0.68	0.93	1.19	1.45	1.7
Purge rate (gpm)	850 ml/m	1100 ml/m	1100 ml/m	1300 ml/m	1700 ml/m	1200 ml/m	1200 ml/m	1200 ml/m	1200 ml/m	1200 ml/m
Temperature (F°/C°)	25.07	18.97	18.70	18.63	18.95	18.51	18.65	19.54	19.05	19.07
Specific conductivity (μmhos/cm)	-1	21217	17719	15343	10537	11272	11356	6366	12998	10772
Dissolved oxygen ~~(mg/L)~~ %	1.46	5.0	0.34	3.3	36.1	3.0	1.9	60.4	0.74	12.4
pH	7.29	6.94	6.92	6.91	7.18	7.06	7.52	7.03	7.02	7.06
~~ORP~~ SSL	—	14.55	12.01	10.24	7.50	7.35	7.40	3.46	5.99	6.45
Turbidity or Color %	—	-	583	—	864	628	709	101	15.27	9.98
De-watered?	clouds no	no	Cleaning up	no	no	no	no	no	no	no
TDS	15.86	15.58	13.03	11.31		8.298	8.344	4.463	6.853	7.896
~~pH~~		~~5.6~~								

Step change here

16 gallons in drum

moved tube in color

cloudy water

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TAILGATE SAFETY MEETING

DATE 5/27/08 TIME 0700 JOB NUMBER 07033.0015

CUSTOMER NAVY ADDRESS Pt. Alameda

SPECIFIC LOCATION Pt. Alameda Area 6

TYPE OF WORK wp Remediation

CHEMICALS USED None

SAFETY TOPICS PRESENTED

PROTECTIVE CLOTHING/EQUIPMENT Mod Level D

CHEMICAL HAZARDS VOCs -

PHYSICAL HAZARDS Traps, trips - falls

EMERGENCY PROCEDURES 911

HOSPITAL PHONE AMBULANCE PHONE 911

HOSPITAL ADDRESS

SPECIAL EQUIPMENT PID

OTHER 1st day - watch yourself - warming-up throughout week

ATTENDEES

PRINTED NAME	SIGNATURE
JACOB GALLAGHER	[illegible]
CHRIS TATUM	[illegible]
Tony Hernandez	[illegible]
Ramon Ramirez	[illegible]
Raymond Sparks	[illegible]

CONDUCTED BY: Tim Watchers SIGNATURE:

SUPERVISOR

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel), (925) 256-8998 (Fax)

DAILY ACTIVITY REPORT

PROJECT NAME: PG Alameda
PROJECT NUMBER: 070 33.0015
SITE LOCATION: Area 6
DATE: 5/28/09
PAGE: 1 OF

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

leave for site 0520
at site 0550 - check cal of YSI 556 - good - turbidity good - PID - good
gas fuel gate @ 0700 - mob to site w/ WDC
set up on well # CA06-6 → 1"
survey w/ water levels - begin purging w/ peristaltic pump at @ 275 ml/m

meter not displaying ORP call Enviro Sense to fix and have to
recal it - sensor is there but not displaying ORP
continue w/ CA06-6
Check
mob to CA06-4 (in grassy area) next to side walk -
too much sand to pump from bottom foot - choked flow well -
move pump tube @ 1-2 feet off bottom + continue -
1100 - mob to CA06-7 - monitor / check w / PID for vapors -
finish CA06-7 - mob to CA06-8 - well is unsecure locked
close -
remove cap - purge / pump -
mob to well CA06-11 purge + pump -
end of day -
demob -
leave site @ 1630 -

PREPARED BY: Tim Watchman
PREPARERS SIGNATURE: T. Watchman
DATE: 5/28/09

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MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT Alameda, Area 6 Project No.: 07033.005

Well No.: LAO6-11 Tested By: T. Waterhouse Date: 5/25/03

Measuring Point Description: TOC Initial Water Level (ft.): 5.96

Total Well Depth (ft.): 12.03 Final Water Level (ft.): 7.05

Water Level Measurement Method: Solinst Time Start Develop: 1455

Development Method(s): surge / pump Time End Develop: 1410

Comments: PID = 0.0 Bottom of hole @ 1.2' off bottom
slight diesel odor (& petroleum) .32

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.03	-	5.96	=	6.07	x	1	4	-	=	5.4
							0.89	1.75	-		

x 3 = 16.2 gals

Time	1505	1510	1525	1540	1555	1410				
Depth to water	6.5	6.9	6.95	6.95	7.05	7.05				
Volume purged (gals)	∅	3.2	4.5	4.5	4.5	4.5				
Σ volume purged (gals)	∅	3.2	12.5	17.6	22.4	27.2				
Σ casing volumes	∅	0.59	2.3	3.25	4.1	5.03				
Purge rate (gpm)	1100 ml/m	1200 ml/m	→	→	→	→				
Temperature (F°/C°)	20.04	20.34	20.35	20.32	20.23	20.14				
Specific conductivity (μmhos/cm)	4350	3343	3301	3271	3269	3279				
Dissolved oxygen (mg/L)	2.45	2.24	2.27	2.65	2.62	2.51				
pH	7.42	7.01	6.90	6.93	6.90	6.91				
ORP	-156	-167	-163	-159	-158	154				
Turbidity or Color	154	29.3	14.23	13.06	11.26	11.45				
De-watered?	no	no	no	no	no	no				

2 gals 6 gals 11 gals 16 20

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MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: Pt. Alameda / Alameda Project No.: 07033.0015

Well No.: GAOG-7 Tested By: T. Watkins Date: 5/28/08

Measuring Point Description: TOC Initial Water Level (ft.): 3.44

Total Well Depth (ft.): 10.36 Final Water Level (ft.): 4.50

Water Level Measurement Method: solinist Time Start Develop: 1135 (pump)

Development Method(s): surge / pump Time End Develop: 12:45

Comments: cap hard to get off - not screw just slip - 1½ socket cracks.

Brown water no/gray PID: 0.0 .32 .37

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	10.36	-	3.44	=	6.92	x	1	4	-	=	6.1
							0.89	1.75	-		

x 3 = 18.4

Time	1135	1140	1145	1200	1215	1230	1245			
Depth to water	4.15	4.45	4.45	4.5	4.59	4.59	4.50			
Volume purged (gals)	∅	1.62	1.62	4.8	5.67	5.67	5.67			
Σ volume purged (gals)	∅	1.62	3.24	8.04	13.71	19.38	25.05			
Σ casing volumes	∅	0.26	0.53	1.31	2.24	3.1	4.1			
Purge rate (gpm)	1200 ml/m	→	→	→	1400 ml/m	→	→			
Temperature (F°/C°)	21.06	20.91	20.92	21.01	21.00	21.08	21.11			
Specific conductivity (μmhos/cm)	8029	6565	6902	6969	7013	7013	7135			
Dissolved oxygen (mg/L)	4.20	4.30	4.76	4.28	4.61	↓ 2.70	↓ 2.23			
pH	7.07	6.91	6.86	6.87	6.89	6.84	6.64			
ORP	-24.2	-15.1	-52.1	-85.1	-103.1	-104	-97.9			
Turbidity or Color	40.80 ~~49.50~~	116	66	11.52	4.43	4.66	4.41			
De-watered?	no	no	no	no	no	no	no			

2.5 gals 5 7 12 16 19

slight odor

pushed tube down - pinhole up. air formed seal.

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: Ft. Ala[illegible], Area 6 Project No.: 07033.0015

Well No.: CA06-8 Tested By: T. Watkins Date: 5/28/08

Measuring Point Description: TOC Initial Water Level (ft.): 5.95

Total Well Depth (ft.): 12.12 Final Water Level (ft.): 7.83

Water Level Measurement Method: Solinst Time Start Develop: 1320

Development Method(s): Surge / Pump Time End Develop: 1440

Comments: well has stick up @ 34" PID: 0.0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1	4	-	=	Well Volume (gal)
	12.12	-	5.95	=	~~12.12~~ 6.17	x	0.89	1.75	-	=	5.49

.22

x 3 = 16.47

Time	1320	1330	1340	1400	1420	1430	1440				
Depth to water	7.8	7.45	7.45	6.95	7.77	7.79	7.83				
Volume purged (gals)	ϕ	2.16	2.26	4.59	4.59	3.29	3.29				
Σ volume purged (gals)	ϕ	2.16	4.45	9.04	13.63	16.97	20.08				
Σ casing volumes	ϕ	0.39	0.81	1.64	2.48	3.07	3.65				
Purge rate (gpm)	ϕ	800 ml/m	850 ml/m	→	→	1200 ml/m					
Temperature (F°/C°)	19.26	18.35	18.46	18.41	18.34	18.35	18.32				
Specific conductivity (μmhos/cm)	3856	3482	3506	3448	3737	3764	3760				
Dissolved oxygen (mg/L)	8.70	6.52	4.86	6.03	2.19	2.91	2.61				
pH	7.49	6.59	6.57	6.52	6.51	6.69	6.72				
ORP	-94.	-100.6	-92.1	-102	-90	-94.1	-100.1				
Turbidity or Color	76	112	61	31.65	33.86	12.37	32.59				
De-watered?	no	no	no	no	no	no	no				
	gray water		4 gals	9 gals	13	16	19				

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MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: Pl Alameda Area 6 Project No.: 07073.0015

Well No.: CA06-4 Tested By: T. [illegible] Date: 5/29/08

Measuring Point Description: TOC (N) Initial Water Level (ft.): 3.66

Total Well Depth (ft.): 7.80 Final Water Level (ft.): 5.5

Water Level Measurement Method: Solinist Time Start Develop: 0930

Development Method(s): surge/pump Time End Develop: 1050

Comments: 0-0.3 PID

pump to clean out seal - then start surging

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	7.80	-	3.66	=	4.14	x	1	4	-	=	3.68
							0.89	1.75	-		

x 3 = 11.0

Time	0955	1010	1015	1020	1035	1045	1050			
Depth to water	4.44	4.80	5.2	5.2	5.5	5.3	5.5			
Volume purged (gals)	Ø	1.89	1.89	1.89	5.55	3.7	1.89			
Σ volume purged (gals)	Ø	1.89	~~2.07~~ 3.78	5.67	11.22	14.92	16.81			
Σ casing volumes	Ø	0.5	1.02	1.54	3.04	4.05	4.56			
Purge rate (gpm)	Ø	1400 ml/m	→							
Temperature (F°/C°)	19.44	18.57	18.56	18.55	18.55	18.64	18.57			
Specific conductivity (μmhos/cm)	905	383	1105	1195	1197	1230	1274			
Dissolved oxygen (mg/L)	9.27	0.48	2.07	63.7	5.21 g/	5.60	5.59			
pH	8.23	7.02	6.92	6.86	6.55	6.89	6.88			
ORP	-121.9	-107	-121	-120	-119	-114	-102			
Turbidity or Color	—	581	26.4	17.13	16.24	10.93	6.95			
De-watered?	no	no	no	no	no	no	no			

Grey water 5gals 7.5gals 10gals 12gals

Cleaning out formation seal - plugged up tubing - too much - go slower

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: DT. Akueller, Ave 6. Project No.: 07033.0015

Well No.: CA 06-6 Tested By: Tim Wentler Date: 5/28/08

Measuring Point Description: TOC Initial Water Level (ft.): 2.35

Total Well Depth (ft.): 8.00 Final Water Level (ft.): 3.15

Water Level Measurement Method: solinist Time Start Develop: 0715

Development Method(s): surge w/brush/pump Time End Develop: 0930

Comments: 0-.6 ppm PID reading tube 1' off bottom odor from water.

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1 / 4 / -	=	Well Volume (gal)
	8.00	-	2.35	=	5.65	x	0.89 / 1.75 / -	=	5 x 3 = 15 gal

	Time	0735	0745	0755	0810	0830	0845	0900	0923		
	Depth to water	2.50	2.65	2.80	2.85	2.93	3.1	3.2	3.15		
	Volume purged (gals)	∅	0.74	0.74	1.21	1.51	1.92	2.43	6.21 ~~12.51~~		
	Σ volume purged (gals)	∅	0.74	1.45	2.69	4.2	6.12	8.55	14.76		
	Σ casing volumes	∅	0.148	0.296	0.53	0.84	1.22	1.7	2.92		
	Purge rate (gpm)	∅	275 ml/m	→	300 ml/m	280 ml/m	475 ml/m	600 ml/m	1200 ml/m		
58 –	Temperature (F°/C°)	20.29 ~~16.11~~ Tw	21.44	21.45	21.32	21.33	21.87	21.90	20.85		
58 –	Specific conductivity (μmhos/cm)	6595 Tw	3450	2956	2844	2780	2432	3380	7500		
	Dissolved oxygen (mg/l)	50.6	68.9	46.3	64.1	7.29	8.54	6.42	3.30		
58 –	pH	5.73	6.72	6.84	6.89	6.89	6.85	6.92	6.89		
	~~ORP~~ TDS/orp	4.801	2.36	2.06	1.98	ORP -155.8	ORP -149.5	ORP -150.3	ORP -143	ORP	ORP
<10	Turbidity or Color	—	395	232	97	39.08	132	39.02	13.73		
	De-watered?	no	no	no	no	no	no	no	no		

Groundwater dropped tube to bottom of well & inspection to remove the sand. Slowly surge - turn pump up all the way - still fine sand (green) on bottom getting thick.

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

DATE 5/28/08 TIME 0700 JOB NUMBER 07033.0015
CUSTOMER NAVY ADDRESS San Diego
SPECIFIC LOCATION Area 6, DT, Alameda
TYPE OF WORK well development
CHEMICALS USED None

SAFETY TOPICS PRESENTED

PROTECTIVE CLOTHING/EQUIPMENT Mod Level D
CHEMICAL HAZARDS Slips, trips, falls
PHYSICAL HAZARDS None
EMERGENCY PROCEDURES 911
HOSPITAL Alameda Hospital PHONE 510-522-3700 AMBULANCE PHONE 911
HOSPITAL ADDRESS 2070 Clinton Ave, Alameda
SPECIAL EQUIPMENT PID
OTHER Watch for traffic in the street

ATTENDEES

PRINTED NAME	SIGNATURE
Rocky Hernandez	[illegible]
Ramon Quintana	[illegible]
Raymond Sosacker	[illegible]

CONDUCTED BY: Tim Watchie SIGNATURE: T. Watchie
SUPERVISOR T.

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(925) 946-3100 (Tel), (925) 256-8998 (Fax)

PROJECT NAME: Pt. Alameda
PROJECT NUMBER: 07033.0015
SITE LOCATION: Area 6

DAILY ACTIVITY REPORT

DATE: 5/29/05
PAGE: 1 OF 1

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0700 at site - open front gate -
contact with well development - meet to area 6 & set up
on CA06-1. gauge w/ bubbler & begin pumping using peristaltic pump

CA015 - low probes -
start well measured 7.5
pump cycle to 6'
able to pump well - very slowly
at @ 2225 gpm - called Ken -
meet to CA06-1
CA06-13
CA06-3

3 days of rain -
drought - one day dark - remain this days 5/30/06 -

Clean-up -
close gate -

PREPARED BY: Tim Weatherbee
DATE: 5/29/05
PREPARERS SIGNATURE: [signature]

ITSI Innovative Technical Solutions, Inc.

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: Ft. Alameda, Area C Project No.: 07033.0015

Well No.: CA06-15 Tested By: T. Westchomo Date: 5/29/05

.06

Measuring Point Description: TOC Initial Water Level (ft.): NA

Total Well Depth (ft.): 7.5' Final Water Level (ft.): NA

Water Level Measurement Method: NA Time Start Develop: 0946

Development Method(s): Pump Time End Develop: 1045

Comments: - bottom at 7.5' - insert tube & pull out sand/silt - turbid - cable to pump water @ 225 ml/m after "cleaning" out the debris -

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	7.5	-	6	=	1.5	x	1	4	-	=	1.33
							0.89	1.75	-		

x 3 = 4.05

Time	0946	1000	1010	1025	1045	tubed pump fails at end of development - No-			
Depth to water	NA	→							
Volume purged (gals)	¢	0.91	0.6	0.9	1.2	get ¢ data during material - hand bailer			
Σ volume purged (gals)	¢	0.91	1.51	2.41	3.61				
Σ casing volumes	¢	0.68	1.13	1.81	2.71				
Purge rate (gpm)	225 ml/m	225 ml/m	→						
Temperature (F°/C°)	18.49	18.44	19.00	18.96	18.94				
Specific conductivity (μmhos/cm)	3539	3558	3646	3684	3739				
Dissolved oxygen (mg/L)	3.54	3.66	2.58	2.70	2.39				
pH	7.48	7.44	7.41	7.40	7.37				
ORP	-146	-176	-173	-172	-164				
Turbidity or Color	57	9.85	7.12	3.96	8.65				
De-watered?	no	no	no	no	no				

@ 2 gal 3 gal 3.5 - 4

to Clean after - removing clothing by pumping the tubes full of silt / remove / & repeat w/ new tubes

BTW - probe stops at @ 6' - tube goes to @ 7.5' & water

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Sheet ___ of ___

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: DT. Alameda, Area 6 Project No.: C7033.0015

Well No.: CA06-13 Tested By: T. Watchers Date: 5/29/09

Measuring Point Description: TOC Initial Water Level (ft.): 6.60

Total Well Depth (ft.): 12.60 Final Water Level (ft.): 7.53

Water Level Measurement Method: Solinist Time Start Develop: 1300

Development Method(s): Surger / Pump Time End Develop: 1430

Comments: DTD - 3.2 DTW. Lotsing petroleum odor

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1 / 4 / -			=	Well Volume (gal)
	12.60	-	6.00	=	6.60	x	1 / 0.89	4 / 1.75	- / -	=	5.89

.21

x 3 = 17.69

Time	1300	1305	1315	1330	1345	1400 ~~1300~~	1415	1430		
Depth to water	7.56	7.40	7.39	7.48	7.51	7.50	7.52	7.53		
Volume purged (gals)	∅	1.25	2.16	3.15	3.15	3.15	3.15	3.15		
Σ volume purged (gals)	∅	1.25	3.41	6.59	9.74	12.89	16.04	19.19		
Σ casing volumes	∅	0.21	0.55	1.11	1.65	2.19	2.71	3.25		
Purge rate (gpm)	mg/m 450	mg/m 300	→	→	→	→	→	→		
Temperature (F°/C°)	21.02	19.97	19.85	19.72	19.73	19.67	19.64	19.61		
Specific conductivity (μmhos/cm)	4340	2378	2200	2290	2305	2469	2731	2726		
Dissolved oxygen (mg/L)	6.32	4.23	2.36	2.61	2.07	1.09	1.06	1.10		
pH	7.31	6.84	6.74	6.70	6.65	6.71	6.69	6.67		
ORP	-38.1	-32.1	-114	-119	-120	-119	-120	-121		
Turbidity or Color	Black 0.00	130	Clear 48.9	19.26	7.21	10.51	16.92	5.65		
De-watered?	no	no	no	no	no	no	no	no		

18 gallons purge tube drain 19 gal 20 gallons

Macintosh HD:Users:watchers:Desktop:Well Development (KL)

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MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: Pt. Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-G Tested By: T. Lewis Date: 9/29/08

Measuring Point Description: TOC Initial Water Level (ft.): 5.80

Total Well Depth (ft.): 12.85 Final Water Level (ft.): 6.34

Water Level Measurement Method: Solinist Time Start Develop: 11:15

Development Method(s): Surge/Pump Time End Develop: 12:35

Comments:

0.25

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.85	-	5.8	=	7.05	x	1 / 0.89	4 / 1.75	- / -	=	6.2

x 3 = 18.5 gals

Time	11:15	1120	1140	1155	1210	1235				
Depth to water	6.25	6.25	6.32	6.32	6.34	6.34				
Volume purged (gals)	ϕ	1.41	2.8	4.2	4.2	7				
Σ volume purged (gals)	ϕ	1.41	4.21	8.41	12.61	19.61				
Σ casing volumes	ϕ	0.22	0.67	1.35	2.03	3.16				
Purge rate (gpm)	1050	→	→	→	→	1050				
Temperature (F°/C°)	20.84	19.21	19.15	19.17	19.13	19.07				
Specific conductivity (μmhos/cm)	5199	2276	2082	2074	2015	2346				
Dissolved oxygen (mg/L)	9.96	2.04	1.87	1.83	2.48	4.21				
pH	7.79	7.35	6.71	6.67	6.92	7.08				
ORP	119.5	-68	-65	-67	-15	-79.8				
Turbidity or Color	0.00 Gray	299	32.52	12.55	6.56					
De-watered?	no	no	no	no	no	no				

6 gals 9.5 gals 12 gals 20 gals

lower tube to bottom

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT Alameda - Area-6 Project No.: 07033.005

Well No.: CA06-1 Tested By: T. Watchus Date: 5/29/09

Measuring Point Description: TOC Initial Water Level (ft.): 5.35

Total Well Depth (ft.): 13.00 Final Water Level (ft.): 6.61

Water Level Measurement Method: Solonist Time Start Develop: 0730

Development Method(s): Surge / pump Time End Develop: 0955

Comments: Diesel odor - oily stain on tube at water interface - dark purge 0.24

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1 / 4 / -			=	Well Volume (gal)
	13.00	-	5.35	=	7.65	x	0.89	1.75	-	=	6.80

× 3 = 20.4 gals

Time	0730	0735	0745	0800	0815	0830	0845	0855		
Depth to water	6.51	6.45	6.54	6.61	6.63	6.61	6.63	6.61		
Volume purged (gals)	0	1.21	2.4	3.6	3.6	3.6	3.6	3.2		
Σ volume purged (gals)	0	1.21	3.61	7.21	10.81	14.47	18.01	21.21		
Σ casing volumes	0	0.17	0.53	1.06	1.58	2.12	2.64	3.11		
Purge rate (gpm)	900 mlm	→	900	→		→	→	→		
Temperature (F°/C°)	17.48	17.44	17.58	17.65	17.50	17.49	17.54	17.55		
Specific conductivity (μmhos/cm)	7542	6900	6834	6817	6742	6544	6547	6549		
Dissolved oxygen (mg/L)	2.66	1.82	2.16	2.11	2.52	2.16	2.27	2.79		
pH	6.47	6.71	6.77	6.81	6.84	6.84	6.85	6.85		
ORP	-80	-126	-130	-131	-130	-133	-134	-133		
Turbidity or Color	BLACK 0.00	212	60	9.41	9.60	33.31	16.29	101		
De-watered?	no	no	no	no	no	no	no	no		
			4 gals	6 gals	10 gals	15 gals ↓ water table down	20	22 gals		

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT. Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-3 Tested By: T. Watkins Date: 5/29/08

Measuring Point Description: Toc. Initial Water Level (ft.): 5.66

Total Well Depth (ft.): 13.0' Final Water Level (ft.): 6.77

Water Level Measurement Method: Solinist Time Start Develop: 1500

Development Method(s): Surge / Bail Time End Develop: 1615

Comments: PID = 0 - 1.3 ppm slight petroleum

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
							1	4	-		
	13.0	-	5.66	=	7.34	x	0.89	1.75	-	=	6.5

.16 .27

x 3 = 19.59

Time	1500	1505	1515	1530	1545	1600	1615				
Depth to water	~~6.35~~	6.6	6.65	6.69	6.73	6.75	6.77				
Volume purged (gals)	ϕ	0.94	2.7	4.0	4.0	4.0	4.0				
Σ volume purged (gals)	ϕ	0.94	3.64	7.64	11.64	15.64	19.64				
Σ casing volumes	ϕ	0.14	0.56	1.17	1.71	2.4	3.02				
Purge rate (gpm)	700 ml/m	600 ml/m	→	→	→	→	→				
Temperature (F°/C°)	20.20	19.58	19.47	19.49	19.52	19.42	19.35				
Specific conductivity (μmhos/cm)	2148	1770	1862	1810	1964	1990	2017				
Dissolved oxygen (mg/L)	~~6.23~~	2.72 ~~6.67~~	1.93	1.80	1.36	1.70	1.50				
pH	6.73 ~~7.13~~	6.67 ~~7.07~~	6.65	6.51	6.35	6.45	6.63				
ORP	-48	107	-106	-99	-90	-96	-103				
Turbidity or Color	Black 0.0	Gray 417	Clear 45.69	→ 17.15	15.73	6.17	8.23				
De-watered?	no	no	no	no	no	no	no				

8 gals 11 gals 15 gals 18.5 gals

more like further accumulate stays clear for sediment

3:\0\0\0\0\HD Lennox\Archive\Desktop\Well Development (KL)

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

DATE 5/29/08 TIME 0700 JOB NUMBER 07053.0015
CUSTOMER US Navy ADDRESS San Diego, CA
SPECIFIC LOCATION Pt. Alameda, Area 6
TYPE OF WORK well development
CHEMICALS USED None

SAFETY TOPICS PRESENTED

PROTECTIVE CLOTHING/EQUIPMENT Mod Level D

CHEMICAL HAZARDS VOCs

PHYSICAL HAZARDS Slips, trips, falls

EMERGENCY PROCEDURES 911

HOSPITAL Alameda Hospital PHONE 510-522-3700 AMBULANCE PHONE 911
HOSPITAL ADDRESS 2070 Clinton Ave, Alameda
SPECIAL EQUIPMENT PID

OTHER Be careful of RATS

ATTENDEES

PRINTED NAME	SIGNATURE
Ricky Hernandez	[illegible]
Ramon Quintana	[illegible]

CONDUCTED BY: Tim Hightower SIGNATURE: [illegible]
SUPERVISOR Raymond Spencer

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel), (925) 256-8998 (Fax)

DAILY ACTIVITY REPORT

PROJECT NAME: Area 6 / PT. Alameda
PROJECT NUMBER: 67639.0015
SITE LOCATION: Area 6
DATE: 5/30/03
PAGE: 1. OF

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0630 at site -
0645 gain field gate - lent key to area capt
0730 set up on CAOG-2
PID + OTW - sample + purge

0930 set up on CAOG-14

Ray S. at site - needs to contact Juniper Ridge @ access to well # CAOG-10 under their product -
Amy Friebertshauser 510-521-7204 ext 111
P.O. Box 5535 Berkeley, CA 94706
Juniper Ridge Western Wild Goods

move 4 drums to trailer & empty -

Called Ken - said sample name is the same as what I have made a mistake - talk to Ray -
no trip & no required time

ended day @ 12:00 -

copy of time in notes -

PREPARED BY: Tim Watchers
DATE: 5/30/03
PREPARERS SIGNATURE: T. Walther

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Walnut Creek, California 94598
(925) 946-3100 (Tel), (925) 256-8998 (Fax)

PROJECT NAME: Bar 6 IPT. Ghetto
PROJECT NUMBER: 07633.0015

DAILY ACTIVITY REPORT

DATE: 5/30/03
PAGE: 1 OF

SITE LOCATION: Bar 6

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0630 at site -
0645 gate had gone - lost day to solve capital
0730 set up on CAOG-2
PID + OTW - sample + pump

0930 set up on CAOG-14

Ray S. at site - wants to contact Juniper Ridge @ access to well # CAOG-10 under their product -
Amy Frieberthshaiser 510-521-7204 ext 111
P.O. Box 5535 Berkeley, CA 94706
Juniper Ridge Western Wild Goods

Move 4 drums to truck & empty -

Called Ken - said same name as the same as what claim to be
mig - talk to Ray -
no trip & no equipment name

ended day @ 12:00 -

copy of time - notes

PREPARED BY: Tim Watchers DATE: 5/30/03
PREPARERS SIGNATURE: T. Watchers

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Sheet ___ of ___

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT. Blanding, Area 6 Project No.: 07033.0015

Well No.: CAOG-14 Tested By: TWATCHERS Date: 5/30/08

Measuring Point Description: TOC Initial Water Level (ft.): 5.96

Total Well Depth (ft.): 13.24 Final Water Level (ft.): 8.21

Water Level Measurement Method: 5.96 Time Start Develop: 0930

Development Method(s): Surge / pump Time End Develop: 1040

Comments: strong odor - petroleum odor

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.24	-	5.96	=	7.28	x	1 / 0.89	4 / 1.75	- / -	=	6.4

x 3 = 19.4 gals

Time	0930	0935	0950	1005	1020	1035				
Depth to water	7.65	7.90	7.98	8.05	8.17	8.21				
Volume purged (gals)	0	1.85	5.5	5.5	5.5	5.5				
Σ volume purged (gals)	0	1.85	7.35	12.85	18.35	23.85				
Σ casing volumes	0	0.28	~~0.89~~ ~~1.1~~	2.0	2.86	3.7				
Purge rate (gpm)	ml/m 1000	→	→	→	→	→				
Temperature (F°/C°)	17.68	18.50	18.47	18.50	18.47	18.47				
Specific conductivity (μmhos/cm)	4059	3057	2569	2451	2348	2366				
Dissolved oxygen (mg/L)	5.58	0.84	1.30	2.19	1.97	1.00				
pH	7.36	7.27	7.23	7.26	7.25	7.24				
ORP	-70	-90.6	-155	-156	-155	-157				
Turbidity or Color	gray 355	clear 776	clear 22.53	clear 16.68	clear 11.55	clear 8.65				
De-watered?	no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: Ft. Alaska, Area G Project No.: 07033.0015

Well No.: CA06-2 Tested By: T. Westphal Date: 5/30/05

Measuring Point Description: TOC Initial Water Level (ft.): 6.07

Total Well Depth (ft.): 13.29 Final Water Level (ft.): 7.43

Water Level Measurement Method: Solinst Time Start Develop: 0730

Development Method(s): ~~Surge/pump~~ Time End Develop: 0905

Comments: PID = 0 odor from purge water

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1 / 4 / - (27)	=	Well Volume (gal)
	13.29	-	6.07	=	7.22	x	0.89 / 1.75 / -	=	6.42

x 3 : 19.27

Time	0730	0735	0750	0805	0820	0835	0850	0905		
Depth to water	7.15	7.25	7.35	7.35	7.39	7.41	7.41	7.43		
Volume purged (gals)	∅	1.35	4.05	4.05	4.05	4.05	4.05	4.05		
Σ volume purged (gals)	∅	1.35	5.4	9.45	13.5	17.55	21.60	25.65		
Σ casing volumes	∅	.21	0.84	1.47	2.1	2.7	3.36	3.99		
Purge rate (gpm)	1000 ml/m	→	→	→	→	→	→	→		
Temperature (F°/C°)	17.98	18.06	18.09	18.06	18.07	17.98	18.05	18.01		
Specific conductivity (μmhos/cm)	4538	3567	3280	3143	2963	2866	2836	2791		
Dissolved oxygen (mg/L)	6.21	5.20	3.21	2.29	0.34	1.86	1.84	1.44		
pH	6.84	7.10	7.17	7.20	7.17	7.21	7.21	7.22		
ORP	7.6	-102	-144	-153	-168	-154	-155	-150		
Turbidity or Color	0.00 Black	360	44.95	21.42	14.60	6.5	8.13	9.29		
De-watered?	no	no	no	no	no	no	no	no		

Macintosh HD:Users:markers:Desktop:Well Development (KL)

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

DATE 5/30/06 TIME 0700 JOB NUMBER 07093.0015

CUSTOMER HDMI ADDRESS San Diego

SPECIFIC LOCATION Area 6 PT Alameda

TYPE OF WORK well development

CHEMICALS USED None

SAFETY TOPICS PRESENTED

PROTECTIVE CLOTHING/EQUIPMENT Hard hat P

CHEMICAL HAZARDS VOCs

PHYSICAL HAZARDS Slips, trips, falls

EMERGENCY PROCEDURES 911

HOSPITAL Alameda Hospital PHONE 510-522-7700 AMBULANCE PHONE 911

HOSPITAL ADDRESS 2070 Clinton Ave, Alameda

SPECIAL EQUIPMENT DIB

OTHER EAST day - see control

ATTENDEES

PRINTED NAME	SIGNATURE
Ramon Quintana	Ramon Quintana
Ricky Hernandez	Ricky Hernandez
Raymond Spencer	[illegible]

CONDUCTED BY: Tim Lostetter SIGNATURE: Tim Lostetter

SUPERVISOR

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DAILY ACTIVITY REPORT

PROJECT NAME: Area 6
PROJECT NUMBER: 07033.0015
SITE LOCATION: DT Alameda

DATE: 6-2-08
PAGE: 1 OF

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0700 at site - | Equipment check for calibration - turbidity good for 30 days
sample wells Area 6 for - Ph - in at 3.99 / 4.00
TPH w/ Silica gel clean-up for
JP5
Diesel
Motor Oil
- Begin sampling at CA06-1
- collect 1 liter amber
record parameters on Monitoring well & Dev / Sampling form
Roy Spann to assist w/ sampling
Sample CA06-15
9
13
3
~~11~~
11

11:15 Karl on site - Doug Delano - measure location of well under
gage by center - well is # CA06-10 needs developed & sampled
sampled #14 & 7

return to trailer - pick samples on ice - finish
documentation & prepare for 6-3-08

PREPARED BY: Tim Crutcher
DATE: 6/2/08
PREPARER'S SIGNATURE: T. Crutcher

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: Pt. Alameda, Area 6 Project No.: 07033.0015

Well No.: CAOG-1 Tested By: T. Watkins Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	12.69
Water Level Measurement Method:	Solinist	Sample Method:	peristaltic
Development Method(s):	Peristaltic Pump	Time Sampled:	0812
Time Start Develop:	0755	Sample Depth (ft):	9-10
Time End Develop:	0810	Field Filtering:	none
Initial/Static Water Level (ft.):	5.43	Field Preservation:	none
Final Water Level (ft.):	5.95	Comments:	Strong Red color

PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.69	-	5.43	=	7.26	x	1	4	-	=	6.46
							0.89	1.75	-		

Time	0755	0800	0805	0810						
Depth to water	5.92	5.95	5.95	5.95						
Volume purged (gals)	ϕ	0.13	0.67 ~~0.13~~	0.67 ~~0.13~~						
Σ volume purged (gals)	ϕ	0.13	0.80 ~~0.26~~	1.47 ~~0.39~~						
Σ casing volumes	0	0.02	0.12 ~~0.04~~	0.22 ~~0.06~~						
Purge rate (gpm)	500 mL	→	→	→						
Temperature (F°/C°)	17.25	17.58	17.63	17.68						
Specific conductivity (μmhos/cm)	8352	7191	7135	7079						
Dissolved oxygen (mg/L)	1.21	0.74	0.59	0.43						
pH	6.14	6.32	6.43	6.50						
ORP	-20.1	-61.1	-91.1	-107.2						
Turbidity or Color	46.61	33.63	13.16	7.71						
De-watered?	no	no	no	no						

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-2 Tested By: TW/RS Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	13.07
Water Level Measurement Method:	Solinst	Sample Method:	Peristaltic
Development Method(s):	peristaltic	Time Sampled:	1302
Time Start Develop:	1235	Sample Depth (ft):	13'
Time End Develop:	1305	Field Filtering:	None
Initial/Static Water Level (ft.):	6.09	Field Preservation:	None
Final Water Level (ft.):	6.61	Comments:	PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1 / 4 / -		=	Well Volume (gal)
	13.07	-	6.09	=	6.98	x	1 / 4 / -		=	6.21
							0.89 / 1.75 / -			

Time	1235	1240	1245	1250	1255	1300	1305			
Depth to water	6.55	6.57	6.58	6.60	6.61	6.61	6.61			
Volume purged (gals)	ϕ	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~			
Σ volume purged (gals)	ϕ	1.3 ~~0.13~~	1.95 ~~.26~~	2.6 ~~.39~~	3.25 ~~0.52~~	3.9 ~~0.65~~	4.55 ~~0.78~~			
Σ casing volumes	ϕ	0.20 ~~0.02~~	0.31 ~~0.04~~	~~0.06~~ 0.62	~~0.08~~ ~~0.83~~	0.62 ~~0.10~~	0.73 ~~0.12~~			
Purge rate (gpm)	500 mL/min	→	→	0.41 →	0.52 →	~~0.62~~ →	→			
Temperature (F°/C°)	18.63	18.75	18.68	18.70	18.62	18.61	18.63			
Specific conductivity (μmhos/cm)	4694	3680	3500	3435	3333	3256	3166			
Dissolved oxygen (mg/L)	7.53	0.65	0.43	0.37	0.32	0.29	0.26			
pH	6.98	7.25	6.98	7.04	7.00	6.98	6.95			
ORP	-287	-95	-117	-127	-135	-142	-145			
Turbidity or Color	81	49.47	19.65	19.09	13.70 ~~13.59~~	12.73	9.43			
De-watered?	no	no	no	no	no	no	no			

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: DT Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-3 Tested By: TW/RS Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	12.80
Water Level Measurement Method:	Solinist	Sample Method:	peristaltic
Development Method(s):	Peristaltic	Time Sampled:	1047
Time Start Develop:	1025	Sample Depth (ft):	10
Time End Develop:	1045	Field Filtering:	None
Initial/Static Water Level (ft.):	5.64	Field Preservation:	None
Final Water Level (ft.):	6.03	Comments:	DTD = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.80	-	5.64	=	7.16	x	1 / 0.89	4 / 1.75	- / -	=	6.3

Time	1025	1030	1035	1040	1045					
Depth to water	5.93	6.01	6.03	6.06	6.03					
Volume purged (gals)	∅	0.55 ~~0.11~~	0.55 ~~0.11~~	0.55 ~~0.11~~	0.55 ~~0.11~~	TW				
Σ volume purged (gals)	∅	1.1 ~~0.11~~	1.65 ~~0.22~~	2.2 ~~0.33~~	2.75 ~~0.44~~	TW				
Σ casing volumes	∅	0.17 ~~0.04~~	0.26 ~~0.06~~	0.34 ~~0.08~~	0.43 ~~0.10~~	TW				
Purge rate (gpm)	400.4	→	→	→	→					
Temperature (F°/C°)	21.06	20.05	19.75	19.29	19.66					
Specific conductivity (µmhos/cm)	681	1030	1159	1228	1271					
Dissolved oxygen (mg/L)	9.18	0.74	0.40	0.32	0.28					
pH	7.31	6.88	6.50	6.37	6.35					
ORP	-77	-79	-87	-93.1	-96					
Turbidity or Color	Clear 34.14	14.74	9.31	8.39	8.14					
De-watered?	no	no	no	no	no					

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT. Alameda Area 6 Project No.: 07033.0015

Well No.: CA06-C1 Tested By: TW/RS Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	13.21
Water Level Measurement Method:	Solinst	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	TW/RS 9:32
Time Start Develop:	0910	Sample Depth (ft):	10'
Time End Develop:	0930 ~~5.99~~	Field Filtering:	none
Initial/Static Water Level (ft.):	5.76	Field Preservation:	none
Final Water Level (ft.):	5.99	Comments:	PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.21	-	5.76	=	7.45	x	1 / 0.89	4 / 1.75	. / -	=	6.6

Time	0910	0915	0920	0925	0930					
Depth to water	5.76	6.0	6.0	5.98	5.99					
Volume purged (gals)	ϕ	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~					
Σ volume purged (gals)	ϕ	1.30 ~~0.13~~	1.95 ~~0.26~~	2.6 ~~0.39~~	3.25 ~~0.52~~					
Σ casing volumes	ϕ	0.19 ~~0.01~~	0.29 ~~0.01~~	0.39 ~~0.05~~	0.49 ~~0.8~~					
Purge rate (gpm)	500 (est)	→	→	→	→					
Temperature (F°/C°)	18.64	18.76	18.75	18.79	18.67					
Specific conductivity (μmhos/cm)	2502	2589	2569	2533	2462					
Dissolved oxygen (mg/L)	1.01	0.49	0.34	0.30	0.29					
pH	6.98	7.17	7.21	7.18	7.17					
ORP	-75	-107	-123	-126	-128					
Turbidity or Color	60	29.21	15.92	8.99	8.77					
De-watered?	no	no	no	no	no					

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-11 Tested By: TW / RS Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	11.80
Water Level Measurement Method:	Solinist	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	1147
Time Start Develop:	1120	Sample Depth (ft):	10'
Time End Develop:	1145	Field Filtering:	None
Initial/Static Water Level (ft.):	5.86	Field Preservation:	None
Final Water Level (ft.):	6.11	Comments:	PID = 0.0

Duplicate sample collected CA06-211-06-0208 (1200)

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	11.80	-	5.86	=	5.94	x	1 / 0.89	4 / 1.75	- / -	=	5.2

Time	1120	1125	1130	1135	1140	1145				
Depth to water	6.05	6.11	6.12	6.11	6.14	6.11				
Volume purged (gals)	∅	0.55 ~~0.11~~	0.55 ~~0.11~~	0.55 ~~0.11~~	0.55 ~~0.11~~	0.55 ~~0.11~~				
Σ volume purged (gals)	∅	1.1 ~~0.22~~	1.65 ~~0.33~~	2.2 ~~0.44~~	2.75 ~~0.55~~	3.3 ~~0.66~~				
Σ casing volumes	∅	0.21 ~~0.04~~	0.31 ~~0.06~~	0.42 ~~0.08~~	0.52 ~~0.10~~	0.63 ~~0.12~~				
Purge rate (gpm)	400ml/m	→	→	→	→	→				
Temperature (F°/C°)	20.99	20.57	20.59	20.54	20.54	20.50				
Specific conductivity (μmhos/cm)	1515	1579	1624	1643	1652	1655				
Dissolved oxygen (mg/L)	2.82	0.51	0.36	0.27	0.25	0.22				
pH	6.95	5.96	5.93	6.04	6.13	6.13				
ORP	-44	-66	-88	-105	-107	-111				
Turbidity or Color	clear 45.97	clear 13.86	clear 7.54	3.75	6.21	5.38				
De-watered?	no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: DT. Alameda, Alameda Project No.: 07033.0015

Well No.: CAOG-13 Tested By: TW / RS Date: 6/02/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	13.49
Water Level Measurement Method:	Solinst	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	10:17
Time Start Develop:	0950	Sample Depth (ft):	@ 10
Time End Develop:	10:15	Field Filtering:	none
Initial/Static Water Level (ft.):	6.30	Field Preservation:	none
Final Water Level (ft.):	7.12	Comments:	P10 - 0 - 0.5

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.49	-	6.30	=	7.19	x	1 / 0.89	4 / 1.75	- / -	=	6.39

Time	0950	0955	1000	1005	1010 ~~1110~~	1015				
Depth to water	7.00	7.03	7.07	7.09	7.12	7.12				
Volume purged (gals)	¢	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~ TW				
Σ volume purged (gals)	¢	1.30 ~~0.13~~	1.95 ~~0.26~~	2.6 ~~0.34~~	3.25 ~~0.52~~	3.9 ~~0.65~~ TW				
Σ casing volumes	¢	0.20 ~~0.02~~	0.30 ~~0.04~~	0.41 ~~0.06~~	0.51 ~~0.08~~	0.61 ~~0.10~~ TW				
Purge rate (gpm)	200 ml/m	→	→	→	→	→				
Temperature (F°/C°)	19.91	20.06	20.07	20.05	19.93	19.81				
Specific conductivity (µmhos/cm)	1949	1850	2134	2336	2427	2485				
Dissolved oxygen (mg/L)	1.41	0.56	0.37	0.30	0.32	0.24				
pH	6.34	5.75	5.67	5.71	5.80	5.85				
ORP	-45	-52	-59	-68	-77	-83				
Turbidity or Color	30.09	21.66	16.72	12.25	10.53	7.65				
De-watered?	no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT. Alameda Area 6 Project No.: 07033.0015

Well No.: CA06-14 Tested By: Tuspas Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	14.15
Water Level Measurement Method:	Solinist	Sample Method:	Peristaltic
Development Method(s):	Peristaltic	Time Sampled:	1352
Time Start Develop:	1330	Sample Depth (ft):	10'
Time End Develop:	1350	Field Filtering:	None
Initial/Static Water Level (ft.):	6.01	Field Preservation:	None
Final Water Level (ft.):	6.83	Comments:	PID = 0

0.11

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	14.15	-	6.01	=	8.14	x	1	4	-	=	7.24
							0.89	1.75	-		

Time	1330	1335	1340	1345	1350					
Depth to water	6.76	6.76	6.79	6.81	6.83					
Volume purged (gals)	ϕ	0.55	.55	.55	.55					
Σ volume purged (gals)	ϕ	0.55	1.1	1.65	2.2					
Σ casing volumes	ϕ	0.76	0.15	0.22	0.30					
Purge rate (gpm)	500 mL/min	400 mL/min	→	→	→					
Temperature (F°/C°)	19.28	19.92	19.07	19.05	19.16					
Specific conductivity (μmhos/cm)	6163	3028	2920	2934	2957					
Dissolved oxygen (mg/L)	9.29	0.56	0.40	0.35	0.30					
pH	7.20	6.83	6.76	6.87	6.75					
ORP	-63	-63	-79	-93	-99					
Turbidity or Color	clear 309	clear 32.78	clear 7.83	5.61	6.35					
De-watered?	no	no	no	no	no					

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: DF Alaska Project No.: 07033.0015

Well No.: CA06-15 Tested By: T. Coxtel / R. Spa Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	7.6
Water Level Measurement Method:	Solinist	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	0902
Time Start Develop:	0830	Sample Depth (ft):	7
Time End Develop:	0900	Field Filtering:	no
Initial/Static Water Level (ft.):	5.90	Field Preservation:	no
Final Water Level (ft.):	6.69	Comments:	shallow well?

0.13 PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1	4	-	=	Well Volume (gal)
	7.6	-	5.90	=	1.7	x	0.89	1.75	-	=	1.51

Time	0830	0840	0845	0850	0855	0900				
Depth to water	6.85	6.57	6.65	6.67	6.68	6.69				
Volume purged (gals)	Ø	.13	0.65	0.65	0.65	0.65				
Σ volume purged (gals)	Ø	.13	.78	1.43	2.08	2.73				
Σ casing volumes	Ø	0.08	0.52	0.94	1.37	1.80				
Purge rate (gpm)	200 ml	→	→		→					
Temperature (F°/C°)	16.46	17.11	17.29	17.37	17.51	17.44				
Specific conductivity (μmhos/cm)	3629	3712	3713	3719	3744	3751				
Dissolved oxygen (mg/L)	2.73	3.29	0.60	0.47	0.36	0.34				
pH	7.19	7.26	7.29	7.25	7.28	7.30				
ORP	-113.5	-132	-157	-168	-179	-186				
Turbidity or Color	229	247	83	25.28	12.32	5.43				
De-watered?	Blank no	no	no	no	no	no				

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TAILGATE SAFETY MEETING

DATE 6-2-09 TIME 0700 JOB NUMBER 67033.0015
CUSTOMER NAVY ADDRESS San Diego
SPECIFIC LOCATION Area 6, Point Alameda
TYPE OF WORK well sampling
CHEMICALS USED None

SAFETY TOPICS PRESENTED

PROTECTIVE CLOTHING/EQUIPMENT Level D

CHEMICAL HAZARDS VOCs

PHYSICAL HAZARDS Slips, trips, falls

EMERGENCY PROCEDURES 911

HOSPITAL Alameda Hospital PHONE 510-522-7700 AMBULANCE PHONE 911
HOSPITAL ADDRESS 2070 Clinton Ave Alameda
SPECIAL EQUIPMENT PIN AUE

OTHER First day of water sampling - Be careful

ATTENDEES

PRINTED NAME	SIGNATURE
Raymond Spencer	

CONDUCTED BY: Tim Crutchfield SIGNATURE: [illegible]
SUPERVISOR

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

DATE 2-09 TIME 0700 JOB NUMBER 67033.0015

CUSTOMER NAVY ADDRESS San Diego

SPECIFIC LOCATION Area 6, Point Alameda

TYPE OF WORK well sampling

CHEMICALS USED None

SAFETY TOPICS PRESENTED

PROTECTIVE CLOTHING/EQUIPMENT Mod Level D

CHEMICAL HAZARDS VOCs

PHYSICAL HAZARDS Slips, trips, falls

EMERGENCY PROCEDURES 911

HOSPITAL Alameda Hospital PHONE 510-522-7700 AMBULANCE PHONE 911

HOSPITAL ADDRESS 2070 Clinton Alameda

SPECIAL EQUIPMENT PIB AED

OTHER First day of well sampling - Be careful

ATTENDEES

PRINTED NAME	SIGNATURE
Raymond Spencer	[signature]

CONDUCTED BY: Tim Coates SIGNATURE: [signature]

SUPERVISOR

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel), (925) 256-8998 (Fax)

PROJECT NAME: Area 6
PROJECT NUMBER: 07033.0015
SITE LOCATION: Ft. Ord

DAILY ACTIVITY REPORT

DATE: 6-2-08
PAGE: 1 OF

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0700 at site - | Equip check for calibration - turbidity good for 30 NTU
sample wells Area 6 for - Ph - in at 3.89/4.00
TPH w/ Silica gel cleanup for
JP5
Diesel.
Motor Oil
- Begin sampling at CAOG-1
- collect 1 liter amber
record process on Monthly well & Prop / Sampling for -

Ray Spence to assist w/ sampling -
Sample CAOG-15
9
13
3
~~11~~
11

11:15 leave on site - Doug Dolan - measure level of well water
gauge by water - well is # CAOG-10 needs developed + sampled
sampled # 14 + 7

return to trailer - pack samples on ice - finish
documents & prepare for 6-3-08

PREPARED BY: Tim Crutchfield
DATE: 6/2/08
PREPARERS SIGNATURE: T. Crutchfield

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel), (925) 256-8998 (Fax)

PROJECT NAME: Pt. Mailu
PROJECT NUMBER: 07033.0215

DAILY ACTIVITY REPORT

DATE: 3 Jun 08
PAGE: 1 OF 1

SITE LOCATION: Area 6

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0630 - at site / level tools
incl. to Area 6
set up on CAOC-8
sample wells
CAOC-7
6
DUE-4
CAOC-4

return to ITSI trailer & prepare COC - copy notes
& prepare samples for shipment.

- develop CAOC-10 - by surging w/ 1" ø tube PVC
& then purging.

Return to trailer.
finish notes -

6/3/08

PREPARED BY: Tim Loutzler
DATE: 6/3/08
PREPARERS SIGNATURE: T. Loutzler

Innovative Technical Solutions, Inc.

Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT. Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-8 Tested By: T. Watch Date: 3 Jun 08

Measuring Point Description:	TOC	Total Well Depth (ft.):	12.17
Water Level Measurement Method:	Solinst	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	0717
Time Start Develop:	0650	Sample Depth (ft):	10'
Time End Develop:	0715	Field Filtering:	None
Initial/Static Water Level (ft.):	5.98	Field Preservation:	None
Final Water Level (ft.):	6.51	Comments:	PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.17	-	5.98	=	6.19	x	1 / 0.89	4 / 1.75	- / -	=	5.50

Time	0650	0655	0700	0705	0710	0715				
Depth to water	5.98	6.45	6.49	6.51	6.51	6.51				
Volume purged (gals)	∅	.54	.54	.54	.54	.54				
Σ volume purged (gals)	∅	.54	1.08	1.62	2.16	2.7				
Σ casing volumes	∅	0.09	0.19	0.29	.39	.49				
Purge rate (gpm)	400 ml/m	→	→	→	→	→				
Temperature (F°/C°)	18.15	18.62	18.64	18.74	18.69	18.66				
Specific conductivity (μmhos/cm)	5167	5085	4901	4425	3905	3805				
Dissolved oxygen (mg/L)	2.01	0.61	0.45	0.35	0.28	0.28				
pH	6.92	6.55	6.53	6.59	6.59	6.59				
ORP	45	15.7	-19	-49	-65	-66				
Turbidity or Color	Clear 59	→ 37.92	18.71	10.51	7.51	9.61				
De-watered?	no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT. Alameda, Area 6 Project No.: 07033.0015

Well No.: CAC6-7 Tested By: T. Westcher Date: 6/3/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	10.25
Water Level Measurement Method:	Solinst	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	0802
Time Start Develop:	0735	Sample Depth (ft):	10'
Time End Develop:	0800	Field Filtering:	none
Initial/Static Water Level (ft.):	3.45	Field Preservation:	none
Final Water Level (ft.):	3.78	Comments:	PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1 / 4 / - / 0.89 / 1.75 / -	=	Well Volume (gal)
	10.25	-	3.45	=	6.8	x	1 / 0.89	=	6.05

Time	0735	0740	0745	0750	0755	0800				
Depth to water	3.45	3.71	3.76	3.76	3.78	3.78				
Volume purged (gals)	∅	0.54	0.54	0.54	0.54	0.54				
Σ volume purged (gals)	∅	0.54	1.08	1.62	2.16	2.70				
Σ casing volumes	∅	0.06 ~~0.07~~	0.17	0.26	0.35	0.44				
Purge rate (gpm)	400 ml/m	→	→	→	→	→				
Temperature (F°/C°)	20.99	21.18	21.36	21.42	21.37	21.61				
Specific conductivity (μmhos/cm)	1996	2357	3941	4674	4753	4836				
Dissolved oxygen (mg/L)	5.77	0.73	0.43	0.40	0.35	0.33				
pH	7.50	6.54	6.50	6.75	6.66	6.79				
ORP	-60	-16	-17	-31	-24	-32				
Turbidity or Color	clear 31.19	clear 18.83	clear 11.10	clear 9.27	clear 8.03	clear 5.91				
De-watered?	no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT. Alaska, Area 6 Project No.: 07033.0015

Well No.: CA06-6 Tested By: T. Watkins Date: 6/3/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	10.55
Water Level Measurement Method:	Solinst	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	0847
Time Start Develop:	0820	Sample Depth (ft):	~~7~~ 8'
Time End Develop:	0845	Field Filtering:	None
Initial/Static Water Level (ft.):	2.40	Field Preservation:	None
Final Water Level (ft.):	2.64	Comments:	PID = 0

CA06-26-060308 is a duplicate of CA06-6

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1	4	-	=	Well Volume (gal)
	10.55	-	2.40	=	8.15	x	0.89	1.75	-	=	7.25

Time	0820	0825	0830	0835	0840	0845				
Depth to water	2.40	2.64	2.64	2.64	2.64	2.64				
Volume purged (gals)	∅	0.54	0.54	0.54	0.54	0.54				
Σ volume purged (gals)	∅	0.54	1.08	1.62	2.16	2.70				
Σ casing volumes	∅	0.07	0.14	0.22	0.29	0.37				
Purge rate (gpm)	400ml/m	→	→	→	→	→				
Temperature (F°/C°)	21.15	21.37	21.26	21.27	21.22	21.21				
Specific conductivity (μmhos/cm)	2413	3461	5306	6089	6238	6235				
Dissolved oxygen (mg/L)	1.60	0.52	0.35	0.27	0.24	0.23				
pH	7.04	6.35	6.36	6.43	6.50	6.56				
ORP	-29	-48	-56	-108	-119	-125				
Turbidity or Color	clear 21.44	clear 23.35	clear 17.61	clear 10.20	clear 8.78	clear 9.26				
De-watered?	no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT. Alameda, Area 6 Project No.: 07033.0015

Well No.: DVE-4 Tested By: T. WATCHORE Date: 6/3/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	13.2
Water Level Measurement Method:	Solinist	Sample Method:	peristaltic
Development Method(s):	Peristaltic	Time Sampled:	0932
Time Start Develop:	0905	Sample Depth (ft):	8'
Time End Develop:	0930	Field Filtering:	none
Initial/Static Water Level (ft.):	2.48	Field Preservation:	none
Final Water Level (ft.):	2.75	Comments:	

PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.2	-	2.48	=	10.72	x	1	4	-	=	18.76
							0.89	1.75	-		

Time	0905	0910	0915	0920	0925	0930				
Depth to water	2.48	2.74	2.75	2.75	2.75	2.75				
Volume purged (gals)	∅	0.67	0.67	0.67	0.67	0.67				
Σ volume purged (gals)	∅	0.67	1.35	2.02	2.69	3.36				
Σ casing volumes	∅	0.04	0.07	0.10	0.14	0.17				
Purge rate (gpm)	500 ml/m	→	→	→	→	→				
Temperature (F°/C°)	21.43	20.71	20.34	20.22	20.06	19.73				
Specific conductivity (μmhos/cm)	2114	1920	1859	1849	1864	2117				
Dissolved oxygen (mg/L)	2.29	.33	0.27	0.23	0.19	0.41				
pH	7.72	6.31	6.16	6.19	6.15	6.09				
ORP	-78	-24	-28	-37	-43	-43				
Turbidity or Color	clear 21.90	clear 12.46	clear 13.87	clear 16.53	clear 16.27	clear 6.31				
De-watered?	no	no	no	no	no	no				

↑ make shut off

Macintosh HD:Users:watchers:Desktop:Well Development Sampling

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: Pt. Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-4 Tested By: T. WATKINS Date: 6/3/08

Measuring Point Description: TOC Total Well Depth (ft.): 10.35

Water Level Measurement Method: Peristaltic Sample Method: Peristaltic

Development Method(s): Surge Time Sampled: 1032

Time Start Develop: 1010 Sample Depth (ft): 8'

Time End Develop: 1030 Field Filtering: none

Initial/Static Water Level (ft.): 4.32 Field Preservation: none

Final Water Level (ft.): 4.26 Comments: Rid = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	10.35		4.32		6.03		1	4	-		5.3
							0.89	1.75	-		

Time	1010	1015	1020	1025	1030					
Depth to water	4.32	4.19	4.26	4.26	4.26					
Volume purged (gals)	∅	0.67	0.67	0.67	0.67					
Σ volume purged (gals)	∅	0.67	1.35	2.02	2.69					
Σ casing volumes	∅	0.12	0.25	0.38	0.50					
Purge rate (gpm)	500 ml/m	→	→	→	→					
Temperature (F°/C°)	20.05	19.71	19.52	19.41	19.50					
Specific conductivity (μmhos/cm)	319	256	265	255	258					
Dissolved oxygen (mg/L)	2.07	0.72	0.49	0.36	0.31					
pH	7.50	5.13	4.30	4.00	3.90					
ORP	-49	82	117	122.8	120.3					
Turbidity or Color	clear 70	clear 32.67	clear 15.49	clear 8.56	clear 4.39					
De-watered?	no	no	no	no	no					

Macintosh HD:Users:tatchen:Desktop:Well Development Sampling

Innovative Technical Solutions, Inc.

Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT. Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-10 Tested By: T. Watch Date: 6/3/08

Measuring Point Description: TOC Initial Water Level (ft.): 7.00

Total Well Depth (ft.): 10.30 Final Water Level (ft.): 3.28

Water Level Measurement Method: Solinst Time Start Develop: 1250

Development Method(s): surge w/ 1/2 PVC Time End Develop: 1415

Comments: DO - 0-6.0 ppm

123

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	10.3	-	3.00	=	7.3	x	1	4	-	=	6.49
							0.89	1.75	-		

x3 = 19.49

Time	1250	1255	1300	1315	1330	1345	1400	1415		
Depth to water	3.00	3.35	3.35	3.35	3.35	3.17	3.20	3.28		
Volume purged (gals)	ϕ	1.08	1.15	3.44	3.44	3.44	3.44	3.44		
Σ volume purged (gals)	ϕ	1.08	2.22	5.66	9.1	12.54	15.98	19.42		
Σ casing volumes	ϕ	0.16	0.34	0.87	1.40	1.93	2.46	3.03		
Purge rate (gpm)	ϕ	800 ml/m	850	→	→	→	→	→		
Temperature (F°/C°)	20.74	20.11	20.10	20.09	20.09	20.44	20.21	20.14		
Specific conductivity (μmhos/cm)	5099	3610	3529	3546	3367	4376	3933	3959		
Dissolved oxygen (mg/L)	5.02	0.54	0.43	0.23	1.76	0.19	0.14	1.77		
pH	6.58	6.30	6.23	6.26	6.37	6.79	6.79	6.32		
ORP	18.5	-43	-61.1	-90.1	-88	-129	-133	-89		
Turbidity or Color	gray 13.99	clear 643	clear 189	clear 26.37	clear 34.45	gray 473	clear 49.12	clear 23.51		
De-watered?	no	no	no	no	no	no	no	no		

" more turbid" " " " " "
Lower in well

124080

002873

ITSI Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 – (925) 256-8998 (fax)

Local Address:

Chain-Of-Custody

Project Name and Number: PT. Alameda, Area 6
Project Manager: Ken Leonard
Site Location: Area 6

Laboratory Name: CET
Address: 2323 5th Street, Berkeley, CA
Contact Name: Anna Kathain
Phone: 510-486 0925 ext 225

Date: 2 Jun 08
Page: 2 of 2

Sample I.D.	Date	Time	Sample Depth	No. of Containers	Sample Matrix	Analysis: TPH-MO-D TPS	Special Instructions/Comments
						Preservative: none	
						Container Type: Amber	
CA06-8-060308	Jun 3	0717	10'	1	W	X	silica gel cleanup
CA06-7-060308	Jun 3	0802	10'	1	W	X	
CA06-6-060308	Jun 3	0847	8'	1	W	X	
CA06-26-060308	Jun 3	0900	8'	1	W	X	
DUE-4-060308	Jun 3	0932	8'	4	W	X	MS/MSD
CA06-4-060308	Jun 3	1032	8'	1	W	X	

Sampled By: Tim Watchers
Signature: T. Watchers
Special Instructions:

Send Results to: Ken Leonard
(w/fax #) 925 256 8998
Turnaround Time: normal

Sampler: Tim Watchers
Courier/Airbill No.:

Relinquished By/Affiliation:	Date:	Time:	Received By/Affiliation:	Date:	Time:
T. Watchers ETI	6/3/08	1528	[illegible]	6/3/08	1328

Original – Laboratory Yellow – Field/Office

Graphics/Stationery/chain_custody1004.ai

124080

002869

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 – (925) 256-8998 (fax)

Local Address:

Chain-Of-Custody

Project Name and Number: PT. Alameda 07033.0015
Project Manager: Ken Leonard
Site Location: Area 6

Laboratory Name: C&T
Address: 2323 5th Street, Berkeley, CA
Contact Name: ~~Ken Leonard~~ Anne Kathain
Phone: 510-486-0925 (225)

Date: 2 Jun 08
Page: 1 of 2

Sample I.D.	Date	Time	Sample Depth	No. of Containers	Sample Matrix	Analysis: TPH - Diesel, Motor Oil - TPS								Special Instructions/Comments
						Preservative: none								
						Container Type: Amber								
CA06-1-060208	2Jun08	0812	10	1	W	X								Silica gel clean up
CA06-15-060208	2Jun08	0902	7	1	W	X								
CA06-9-060208	2Jun08	0932	10	1	W	X								
CA06-13-060208	2Jun08	1017	10	1	W	X								
CA06-3-060208	2Jun08	1047	10	1	W	X								
CA06-11-060208	2Jun08	1147	10	1	W	X								
[illegible]	2Jun08	1200	10	1	W	X								
[illegible]	2Jun08	1302	10	1	W	X								
[illegible]	2Jun08	1352	10	1	W	X								

Sampled By:
Signature:
Special Instructions:
Send Results to: (w/fax #)
Turnaround Time:

Sampler: Tim Watchers

Courier/Airbill No.:

Relinquished By/Affiliation:	Date:	Time:	Received By/Affiliation:	Date:	Time:
[illegible] ITSI	6/3/08	1320	[illegible]	6/3/08	1320

Original – Lab Yellow – Field/Office

Graphics/Stationery/chain_custody1004.ai

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

DATE 3 Jun 08 TIME 0630 JOB NUMBER 07033.0015
CUSTOMER NASY ADDRESS San Diego, CA
SPECIFIC LOCATION Pt. Alameda
TYPE OF WORK well sampling
CHEMICALS USED None

SAFETY TOPICS PRESENTED

PROTECTIVE CLOTHING/EQUIPMENT Mod Level D

CHEMICAL HAZARDS Lines

PHYSICAL HAZARDS Slips, trips, falls

EMERGENCY PROCEDURES 911

HOSPITAL Alameda Hospital PHONE 510-522 3700 AMBULANCE PHONE 911
HOSPITAL ADDRESS 2070 Clinton Ave, Alameda
SPECIAL EQUIPMENT PID

OTHER Last day

ATTENDEES

PRINTED NAME	SIGNATURE

CONDUCTED BY: S. Gutchen SIGNATURE: Tim Gutchen
SUPERVISOR

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

DATE 3 Jan 08 TIME 0630 JOB NUMBER 07033.0015
CUSTOMER NAVY ADDRESS San Diego, CA
SPECIFIC LOCATION PT. Alameda
TYPE OF WORK well sampling
CHEMICALS USED None

SAFETY TOPICS PRESENTED

PROTECTIVE CLOTHING/EQUIPMENT Mod Level D

CHEMICAL HAZARDS Lines

PHYSICAL HAZARDS Slips, trips, falls

EMERGENCY PROCEDURES 911

HOSPITAL Alameda Hospital PHONE 510-522-3700 AMBULANCE PHONE 911
HOSPITAL ADDRESS 2070 Clinton Ave, Alameda
SPECIAL EQUIPMENT PID

OTHER Last day

ATTENDEES

PRINTED NAME	SIGNATURE

CONDUCTED BY: J. Lutch SIGNATURE: Tim Gretchen
SUPERVISOR

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel), (925) 256-8998 (Fax)

PROJECT NAME: Ft. Ord
PROJECT NUMBER: C7033.0015

DAILY ACTIVITY REPORT

DATE: 3 Jun 08
PAGE: 1 OF 1

SITE LOCATION: Area 6

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0630 - at site, pre-work tailgate
mob. to Area 6
set up on CAOC-8
sample wells
CAOC-7
6
DUE-4
CAOC-4

return to ITSI trailer & prepare COC - copying notes
& prepare samples for shipment.

- develop CAOC-10 - by surging w/ 1" ~~D~~ tube PVC
& then pumping

return to trailer
demobilize -

VW 6/3/08

PREPARED BY: Tim Lutcher
DATE: 6/3/08
PREPARERS SIGNATURE: T. Lutcher

Innovative Technical Solutions, Inc.

Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: DT. Alameda Area 6 Project No.: 07033.0015

Well No.: DUE-4 Tested By: TC Date: 5/27/08

too windy PID = 0 But there is an odor

Measuring Point Description: TOC Initial Water Level (ft.): 2.48

Total Well Depth (ft.): 13.15 Final Water Level (ft.): 2.65 off pump

Water Level Measurement Method: Solinist Time Start Develop: 1515

Development Method(s): surge / bail / pump Time End Develop: 1800

Comments: 4" well - bolt down well lip - flush mounted
Slight odor while bailing after surging / Probe @ 2' off bottom during development
5 Gals = 3X

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
							1	4	-		
	13.15	-	2.48	=	10.67	x	0.89	1.75	-	=	18.67

Time	1605	1610	1615	1620	1635	1645	1700	1715	1730	1750	
Depth to water	3.07	2.98	3.17	3.24	3.21	3.24	3.26	3.29	3.29	3.29	
Volume purged (gals)	∅	~~2.9~~ 1.48	1.48	1.7	4.86	3.2	4.8	4.8	4.8	4.8	
Σ volume purged (gals)	∅	1.48	2.96	4.66	9.52	12.72	17.52	22.32	27.12	31.92	
Σ casing volumes	∅	0.08	0.16	0.24	0.50	0.68	0.93	1.19	1.45	1.7	
Purge rate (gpm)	850 ml/m	1100 ml/m	1100 ml/m	1300 ml/m	1200 ml/m	1200 ml/m	1200 ml/m	1200 ml/m	1200 ml/m	1200 ml/m	
Temperature (F°/C°)	25.07	18.97	18.70	18.63	18.95	18.91	18.65	18.54	18.65	18.07	
Specific conductivity (μmhos/cm)	-1	21217	17719	15343	10537	11276	11356	6366	6298	10712	
Dissolved oxygen ~~(mg/L)~~ %	1.46	5.0	0.34	3.3	36.1	3.0	1.9	60.4	0.74	12.4	
pH	7.29	6.94	6.92	6.91	7.18	7.06	7.02	7.03	7.02	7.06	
~~ORP~~ SAL	—	14.55	12.01	10.24	7.50	7.35	7.40	3.91	5.99	6.98	
Turbidity or Color S/L	—	—	583	—	864	628	701	101	15.27	7.98	
De-watered?	clouds no	no	Clearing up	no	no	no	no	no	no	no	
TDS		15.86	15.58	17.03	11.31		8.298	8.344	4.663	6.853	7.82
DO			~~5.6~~								

Macintosh HD:Users:michael:Desktop:Well Development (KL)

Stop Clearing well

Stop Clearing here

1 Gallon in drum

moved tube in color

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: DT. Akerlea, Area 6 Project No.: 07033.0015

Well No.: CA 06-6 Tested By: Tim Winterhalter Date: 5/28/08

Measuring Point Description: TOC Initial Water Level (ft.): 2.35

Total Well Depth (ft.): 8.00 Final Water Level (ft.): 3.15

Water Level Measurement Method: solinist Time Start Develop: 0715

Development Method(s): surge w/bailer / pump Time End Develop: 0930

Comments: 0-.6 ppm - PID reading tube 1' off bottom odor from water.

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1 / 4 / -			=	Well Volume (gal)
	8.00	-	2.35	=	5.65	x	0.89	1.75	-	=	5 x 3 = 15 gal

Time	0735	0745	0755	0810	0830	0845	0900	0923			
Depth to water	2.50	2.65	2.80	2.95	2.93	3.1	3.2	3.15			
Volume purged (gals)	∅	0.74	0.74	1.21	1.51	1.92	2.43	6.21 ~~12.51~~			
Σ volume purged (gals)	∅	0.74	1.45	2.69	4.2	6.12	8.55	14.76			
Σ casing volumes	∅	0.144	0.296	0.53	0.84	1.22	1.7	2.92			
Purge rate (gpm)	∅	275 ml/m	→	300 ml/m	280 ml/m	475 ml/m	500 ml/m	1000 ml/m			
5% – Temperature (F°/C°)	20.29 ~~16.11~~ Tw	21.44	21.45	21.32	21.33	21.87	21.90	20.85			
5% – Specific conductivity (μmhos/cm)	6595 Tw	3450	2956	2844	2780	2432	3380	7500			
Dissolved oxygen (mg/l)	50.6	68.9	46.3	64.1	7.29	8.54	6.42	3.30			
5% – pH	5.73	6.72	6.84	6.89	6.89	6.85	6.92	6.89			
~~ORP~~ TDS/orp	4.801	2.36	2.06	1.98	ORP -155.8	ORP -149.5	ORP -150.3	ORP -143	ORP	ORP	
<10 Turbidity or Color	—	395	232	97	39.08	132	39.02	13.73			
De-watered?	no	no	no	no	no	no	no	no			

Gingerbeer dropped tube to bottom of well & up & down to remove the sand. Nearly fine sand - turn pump up all the way - still fine sand (green) on bottom getting thick the screen

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MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT Alameda Area 6 Project No.: 07033.0015

Well No.: CA06-4 Tested By: T. Wattkins Date: 5/28/08

Measuring Point Description: TOC (N) Initial Water Level (ft.): 3.66

Total Well Depth (ft.): 7.80 Final Water Level (ft.): 5.5

Water Level Measurement Method: Solinist Time Start Develop: 0930

Development Method(s): surge/pump Time End Develop: 1050

Comments: 0-0.3 PID

pump to clean out sand - then start surging

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	7.80	-	3.66	=	4.14	x	1	4	-	=	3.68
							0.89	1.75	-		

x 3 = 11.0

Time	0955	1010	1015	1020	1035	1045	1050			
Depth to water	4.44	4.80	5.2	5.2	5.5	5.3	5.5			
Volume purged (gals)	∅	1.89	1.89	1.89	5.55	3.7	1.89			
Σ volume purged (gals)	∅	1.89	3.78 ~~2.07~~	5.67	11.22	14.92	16.81			
Σ casing volumes	∅	0.5	1.02	1.54	3.04	4.05	4.56			
Purge rate (gpm)	∅	1405 ml/m	→							
Temperature (F°/C°)	19.44	18.57	18.56	18.55	18.58	18.64	18.57			
Specific conductivity (μmhos/cm)	905	383	1105	1135	1197	1230	1274			
Dissolved oxygen (mg/L)	9.27	0.48	2.07	63.7	5.21 g/	5.60	5.59			
pH	8.23	7.02	6.92	6.86	6.85	6.89	6.88			
ORP	-121	-167	-121	-120	-119	-114	-102			
Turbidity or Color	—	581	26.4	17.13	16.24	10.93	6.95			
De-watered?	no	no	no	no	no	no	no			

gray water 5gals 7.5gals 10gals 12gals

Cleaning out formation sand - plugged up tubing + too much - go slower

Microsoft HD Form Workbook Desktop Well Development (KL)

Innovative Technical Solutions, Inc.

Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: Ft. Alexander / Area 6 Project No.: 07033.0015

Well No.: CA06-7 Tested By: T. Watkins Date: 5/28/08

Measuring Point Description: TOC Initial Water Level (ft.): 3.44

Total Well Depth (ft.): 10.36 Final Water Level (ft.): 4.50

Water Level Measurement Method: solinist Time Start Develop: 1135 (pump)

Development Method(s): surge / pump Time End Develop: 12:45

Comments: cap hard to get off - not screw just slip - 1½ socket wrench

Brown water not gray PID: 0.0 .32 .17

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	10.36	-	3.44	=	6.92	x	1	4	-	=	6.1
							0.89	1.75	-		

x 3 = 18.4

Time	1135	1140	1145	1200	1215	1230	1245			
Depth to water	4.15	4.45	4.45	4.5	4.59	4.59	4.50			
Volume purged (gals)	∅	1.62	1.62	4.8	5.67	5.67	5.67			
Σ volume purged (gals)	∅	1.62	3.24	8.04	13.71	19.38	25.05			
Σ casing volumes	∅	0.26	0.53	1.31	2.24	3.1	4.1			
Purge rate (gpm)	1200 ml/m	→	→	→	1400 ml/m	→	→			
Temperature (F°/C°)	21.00	20.91	20.97	21.01	21.00	21.08	21.11			
Specific conductivity (μmhos/cm)	8028	6568	6902	6969	7013	7013	7185			
Dissolved oxygen (mg/L)	4.20	4.30	4.76	4.28	4.61	↓ 2.70	↓ 2.23			
pH	7.07	6.91	6.86	6.87	6.89	6.89	6.64			
ORP	-24.2	-46.1	-52.1	-85.1	-102.1	-104	-97.9			
Turbidity or Color	40.80 ~~45.80~~	116	66	11.52	4.43	4.66	4.41			
De-watered?	no	no	no	no	no	no	no			
		2.5 gals	5	7	12	16	19			

Slight odor

pushed tube down - pulsing pump. Air formed sand.

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PA. Alameda, Area 6 Project No.: 07033.0015

Well No.: CAO6-8 Tested By: T. Watkins Date: 5/28/08

Measuring Point Description: TOC Initial Water Level (ft.): 5.95

Total Well Depth (ft.): 12.12 Final Water Level (ft.): 7.83

Water Level Measurement Method: Solinst Time Start Develop: 1320

Development Method(s): Surge / Pump Time End Develop: 1440

Comments: well has stick up @ 34" PID = 0.0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.12	-	5.95	=	~~12.17~~ 6.17	x	1 / 0.89	4 / 1.75	.22 / -	=	5.49

x 3 = 16.47

Time	1320	1330	1340	1400	1420	1430	1440			
Depth to water	7.8	7.45	7.45	6.95	7.77	7.79	7.83			
Volume purged (gals)	ϕ	2.16	2.24	4.59	4.59	3.24	3.24			
Σ volume purged (gals)	ϕ	2.16	4.45	9.04	13.63	16.87	20.08			
Σ casing volumes	ϕ	0.39	0.81	1.64	2.48	3.07	3.65			
Purge rate (gpm)	ϕ	800 ml/m	850 ml/m	→	→	1200 ml/m				
Temperature (F°/C°)	18.26	18.35	18.40	18.47	18.34	18.35	18.32			
Specific conductivity (μmhos/cm)	3856	3482	3506	3448	3737	3764	3766			
Dissolved oxygen (mg/L)	8.70	6.52	4.86	6.03	2.19	2.91	2.61			
pH	7.89	6.99	6.87	6.92	6.91	6.69	6.12			
ORP	-94.	-100.6	-92.1	-102	-90	-94.1	-100.1			
Turbidity or Color	76	112	61	31.63	33.86	12.37	32.59			
De-watered?	no	no	no	no	no	no	no			

gray water ... 4 gals 9 gals 13 16 19

Macintosh HD:Users:michaelbrodsky:Desktop:Well Development (KL)

Innovative Technical Solutions, Inc.

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-11 Tested By: T. Lostracco Date: 5/23/03

Measuring Point Description: TOC Initial Water Level (ft.): 5.96

Total Well Depth (ft.): 12.03 Final Water Level (ft.): 7.05

Water Level Measurement Method: Solinst Time Start Develop: 1455

Development Method(s): surge / pump Time End Develop: 1410

Comments: PID = 0.0 Bottom of tube @ 1-2' off bottom
slight diesel odor (of petroleum) .32

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.03	-	5.96	=	6.07	x	1	4	-	=	5.4
							0.89	1.75	-		

x 3 = 16.2 gals

Time	1505	1510	1525	1540	1555	1410				
Depth to water	6.9	6.9	6.95	6.95	7.05	7.05				
Volume purged (gals)	∅	3.2	4.5	4.5	4.5	4.5				
Σ volume purged (gals)	∅	3.2	12.5	17.6	22.4	27.2				
Σ casing volumes	∅	0.59	2.3	3.25	4.1	5.03				
Purge rate (gpm)	1100 ml/m	1200 ml/m	→	→	→	→				
Temperature (F°/C°)	20.04	20.34	20.35	20.32	20.25	20.14				
Specific conductivity (μmhos/cm)	4350	3343	3304	3271	3269	3279				
Dissolved oxygen (mg/L)	2.45	2.24	2.27	2.65	2.62	2.51				
pH	7.42	7.01	6.90	6.83	6.80	6.81				
ORP	-156	-167	-163	-155	-158	154				
Turbidity or Color	154	24.3	14.23	13.06	11.26	17.45				
De-watered?	no	no	no	no	no	no				

2 gals 6 gals 11 gals 16 20

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Sheet ___ of ___

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: DT. Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-13 Tested By: T. Watchers Date: 5/29/09

Measuring Point Description: TOC Initial Water Level (ft.): 6.60

Total Well Depth (ft.): 12.60 Final Water Level (ft.): 7.53

Water Level Measurement Method: Solinist Time Start Develop: 1300

Development Method(s): Surge / Pump Time End Develop: 1430

Comments: PID = 3.2 ppm lingering petroleum odor

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 1 / 4 / -			=	Well Volume (gal)
	12.60	-	6.00	=	6.60	x	0.89	1.75	-	=	5.89

x 3 = 17.69

Time	1300	1305	1315	1330	1345	1400 ~~1300~~	1415	1430		
Depth to water	7.36	7.40	7.39	7.48	7.51	7.50	7.52	7.53		
Volume purged (gals)	∅	1.25	2.16	3.15	3.15	3.15	3.15	3.15		
Σ volume purged (gals)	∅	1.25	3.44	6.59	9.74	12.89	16.04	19.19		
Σ casing volumes	∅	0.21	0.55	1.11	1.65	2.19	2.71	3.25		
Purge rate (gpm)	max 450	max 900	→	→	→	→	→	→		
Temperature (F°/C°)	21.52	19.97	19.85	19.72	19.73	19.67	19.64	19.61		
Specific conductivity (μmhos/cm)	4340	2378	2260	2250	2305	2469	2731	2726		
Dissolved oxygen (mg/L)	6.30	4.23	2.30	2.61	2.57	1.09	1.06	1.10		
pH	7.31	6.89	6.74	6.70	6.68	6.71	6.69	6.65		
ORP	-38.1	-32.1	-114	-119	-120	-119	-120	-121		
Turbidity or Color	Black 0.00	136	Clear 98.9	19.20	7.21	10.51	16.92	5.68		
De-watered?	no	no	no	no	no	no	no	no		

16 gallons pump tube deeper

15 gal

20 gallons

Macintosh HD:Users:[illegible]:Desktop:Well Development (KL)

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: Pt. Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-G Tested By: T. Coates Les Date: 9/29/08

Measuring Point Description: TOC Initial Water Level (ft.): 5.80

Total Well Depth (ft.): 12.85 Final Water Level (ft.): 6.34

Water Level Measurement Method: Solinst Time Start Develop: 11:15

Development Method(s): Surge / Pump Time End Develop: 12:35

Comments:

0.25

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.85	-	5.8	=	7.05	x	1 / 0.89	4 / 1.75	- / -	=	6.2

x 3 = 18.6 gals

Time	11:15	1120	1140	1155	1210	1235				
Depth to water	6.25	6.28	6.32	6.32	6.34	6.34				
Volume purged (gals)	ϕ	1.41	2.8	4.2	4.2	7				
Σ volume purged (gals)	ϕ	1.41	4.21	8.41	12.61	19.61				
Σ casing volumes	ϕ	0.22	0.67	1.35	2.03	3.16				
Purge rate (gpm)	1050	→				1050				
Temperature (F°/C°)	20.89	19.21	18.15	19.17	19.13	19.51				
Specific conductivity (μmhos/cm)	5199	2276	2082	2074	2015	2346				
Dissolved oxygen (mg/L)	9.96	2.44	1.87	1.83	2.48	4.21				
pH	7.79	7.35	6.71	6.67	6.92	7.08				
ORP	-18.8	-68	-65	-67	-75	-79.8				
Turbidity or Color	0.00 Gray	299	32.52	12.55	6.56					
De-watered?	no	no	no	no	no	no				

6 gals 8.5 gals 12 gals 20 gals

lower tube to bottom

Microsoft HD:Users:matthew:Desktop:Well Development (KL)

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT Akeela - Area 6 Project No.: 07033-0015

Well No.: CA06-1 Tested By: T. Watchers Date: 5/29/09

Measuring Point Description: TOC Initial Water Level (ft.): 5.35

Total Well Depth (ft.): 13.00 Final Water Level (ft.): 6.61

Water Level Measurement Method: Solinst Time Start Develop: 0730

Development Method(s): Surge/pump Time End Develop: 0855

Comments: Pierced color - oily stain on tube at water interface - dark picture 0.24

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.00	-	5.35	=	7.65	x	1	4	-	=	6.80
							0.89	1.75	-		

× 3 = 20.4 gals

Time	0730	0735	0745	0800	0815	0830	0845	0855		
Depth to water	6.51	6.45	6.59	6.61	6.63	6.61	6.63	6.61		
Volume purged (gals)	0	1.21	2.4	3.6	3.6	3.6	3.6	3.2		
Σ volume purged (gals)	0	1.21	3.61	7.21	10.81	14.47	18.01	21.21		
Σ casing volumes	0	0.17	0.53	1.06	1.58	2.12	2.64	3.11		
Purge rate (gpm)	400 mlh	→	400	→	→	→	→	→		
Temperature (F°/C°)	17.49	17.44	17.58	17.65	17.50	17.49	17.54	17.55		
Specific conductivity (μmhos/cm)	7592	6900	6834	6817	6792	6844	6847	6849		
Dissolved oxygen (mg/L)	2.66	1.52	2.16	2.11	2.52	2.16	2.27	2.19		
pH	6.47	6.71	6.77	6.81	6.84	6.84	6.85	6.85		
ORP	-50	-126	-130	-131	-130	-133	-134	-133		
Turbidity or Color	BLACK 0.00	212	60	9.41	9.60	33.31	16.29	101		
De-watered?	no	no	no	no	no	no	no	no		
			4 gals	6 gals	10 gals	15 gals	20	22 gals		

↓ moved tube down

Macintosh HD:Users:watchers:Desktop:Well Development (KL)

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MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: Ft. Alameda, Area C Project No.: 07033.0015

Well No.: CA06-15 Tested By: T. Westchess Date: 5/29/08

.06

Measuring Point Description: TOC Initial Water Level (ft.): NA

Total Well Depth (ft.): 7.5' Final Water Level (ft.): NA

Water Level Measurement Method: NA Time Start Develop: 0946

Development Method(s): Pump Time End Develop: 1045

Comments: bottom at 7.5' - insert tube & pull out sand/silt - turbid - valve to pump work @ 225 ml/m after "cleaning" out the debris -

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	7.5	-	6 -	=	1.5	x	1	4	-	=	1.33
							0.89	1.75	-		

x 3 = 4.05

Time	9:46	1000	1010	1025	1045.	total purge time after end of development - not set to clear gray material - need bottom
Depth to water	NA	→	→	→	→	
Volume purged (gals)	¢	0.91	0.6	0.9	1.2	
Σ volume purged (gals)	¢	0.91	1.51	2.41	3.61	
Σ casing volumes	¢	0.68	1.13	1.81	2.74	
Purge rate (gpm)	225	225 ml/m	→	→	→	
Temperature (F°/C°)	18.49	18.44	19.00	18.96	18.91	
Specific conductivity (μmhos/cm)	3539	3555	3646	3.84	3739	
Dissolved oxygen (mg/L)	3.54	3.66	2.58	2.70	2.39	
pH	7.48	7.44	7.41	7.40	7.37	
ORP	-141	-176	-173	-172	-164	
Turbidity or Color	57	8.85	7.12	3.96	8.65	
De-watered?	no	no	no	no	no	

@ 2gal 3gal 3.5-4

to clean after - removing debris by pumping the tube full of silt / remove / + repeat w/ new tube

bTW - probe stops at @ 6' - tube goes to @ 7.5' + water

\\Macintosh HD\Users\michael\Desktop\W-B Development (KL)

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT. Alameda, Area G Project No.: 07033.0015

Well No.: C-06-3 Tested By: T. Coutchen Date: 5/29/08

Measuring Point Description: TOC Initial Water Level (ft.): 5.66

Total Well Depth (ft.): 13.0' Final Water Level (ft.): 6.77

Water Level Measurement Method: Solinist Time Start Develop: 1500

Development Method(s): Surge / BP Time End Develop: 1615

Comments: PID = 0 - 1.3 ppm slow petroleum

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.0	-	5.66	=	7.34	x	1	4	-	=	6.5
							0.89	1.75	-		

.18 .27

x 3 = 19.59

Time	1500	1505	1515	1530	1545	1600	1615				
Depth to water	~~6.38~~ 6.38	6.6	6.65	6.69	6.73	6.75	6.77				
Volume purged (gals)	ϕ	0.94	2.7	4.0	4.0	4.0	4.0				
Σ volume purged (gals)	ϕ	0.94	3.64	7.64	11.64	15.64	19.64				
Σ casing volumes	ϕ	0.14	0.56	1.17	1.79	2.4	3.02				
Purge rate (gpm)	700 ml/m	600 ml/m	→	→	→	→	→				
Temperature (F°/C°)	20.20	19.58	19.47	19.49	19.52	19.42	19.35				
Specific conductivity (μmhos/cm)	2798	1790	1862	1910	1964	1990	2017				
Dissolved oxygen (mg/L)	~~6.23~~	2.72 ~~6.61~~	1.93	1.82	1.36	1.70	1.50				
pH	6.23 ~~7.38~~	6.61 ~~7.07~~	6.55	6.51	6.38	6.45	6.43				
ORP	-48	107	-106	-99	-90	-96	-103				
Turbidity or Color	Black 0.0	Gray 49	Clear 45.69	→ 12.18	→ 15.73	6.17	8.23				
De-watered?	no	no	no	no	no	no	no				

8 gals 11 gals 15 gals 18.5 gals

more fuller further
accumulate
stay clear
as needed

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Sheet ___ of ___

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT. Alameda, Area 6 Project No.: 07033.0015

Well No.: CAOG-14 Tested By: T. Watchinson Date: 5/30/09

Measuring Point Description: TOC Initial Water Level (ft.): 5.96

Total Well Depth (ft.): 13.24 Final Water Level (ft.): 8.21

Water Level Measurement Method: 5.96 Time Start Develop: 0930

Development Method(s): Surge / pump Time End Develop: 1040

Comments: strong odor - petroleum odor

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.24	-	5.96	=	7.28	x	1	4	-	=	6.4
							0.89	1.75	-		

x 3 = 19.4 gals

Time	0930	0935	0950	1005	1020	1035				
Depth to water	7.65	7.90	7.98	8.05	8.17	8.21				
Volume purged (gals)	0	1.85	5.5	5.5	5.5	5.5				
Σ volume purged (gals)	0	1.85	7.35	12.85	18.35	23.85				
Σ casing volumes	0	0.28	~~0.41~~ 1.1	2.0	2.86	3.7				
Purge rate (gpm)	max 1000	→	→	→	→	→				
Temperature (F°/C°)	17.68	18.50	18.44	18.50	18.44	18.47				
Specific conductivity (μmhos/cm)	4059	3057	2569	2451	2398	2366				
Dissolved oxygen (mg/L)	5.58	0.84	1.30	2.18	1.97	1.00				
pH	7.36	7.27	7.23	7.26	7.25	7.24				
ORP	-70	-90.6	-155	-156	-155	-157				
Turbidity or Color	Gray 355	Clear 776	Clear 22.53	Clear 16.65	Clear 11.65	Clear 9.95				
De-watered?	no	no	no	no	no	no				

Macintosh HD:Users:watchsn:Desktop:Well Development (KL)

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MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: Ft. Alaska, Area G Project No.: 07033.0015

Well No.: CA06-2 Tested By: T. Westlake Date: 5/30/08

Measuring Point Description: TOC Initial Water Level (ft.): 6.07

Total Well Depth (ft.): 13.29 Final Water Level (ft.): 7.43

Water Level Measurement Method: Solinst Time Start Develop: 0730

Development Method(s): Surge & pump Time End Develop: 0905

Comments: PID = 0 color from purge water

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.29	-	6.07	=	7.22	x	1	4	-	=	6.42
							0.89	1.75	-		

27

x 3 : 19.27

Time	0730	0735	0750	0805	0820	0835	0850	0905		
Depth to water	7.15	7.25	7.35	7.35	7.39	7.41	7.41	7.43		
Volume purged (gals)	∅	1.35	4.05	4.05	4.05	4.05	4.05	4.05		
Σ volume purged (gals)	∅	1.35	5.4	9.45	13.5	17.55	21.60	25.65		
Σ casing volumes	∅	.21	0.84	1.47	2.1	2.7	3.36	3.99		
Purge rate (gpm)	1000 ml/m	→	→	→	→	→	→	→		
Temperature (F°/C°)	17.95	18.06	18.09	18.06	18.07	17.98	18.05	18.01		
Specific conductivity (μmhos/cm)	4535	3567	3280	3143	2963	2866	2836	2791		
Dissolved oxygen (mg/L)	6.21	5.20	3.21	2.29	0.39	1.86	1.84	1.49		
pH	6.84	7.10	7.17	7.20	7.17	7.21	7.21	7.22		
ORP	7.6	-102	-144	-153	-168	-154	-165	-150		
Turbidity or Color	0.00 Black	360	44.95	21.42	14.60	6.5	8.13	9.29		
De-watered?	no	no	no	no	no	no	no	no		

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MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: Pt. Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-1 Tested By: T. Winterhalter Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	12.69
Water Level Measurement Method:	Solinist	Sample Method:	peristaltic
Development Method(s):	Peristaltic Pump	Time Sampled:	8:12
Time Start Develop:	0755	Sample Depth (ft):	9-10
Time End Develop:	0810	Field Filtering:	none
Initial/Static Water Level (ft.):	5.43	Field Preservation:	none
Final Water Level (ft.):	5.95	Comments:	Strong Pet. odor

PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.69	-	5.43	=	7.26	x	~~1~~ 0.89	4 1.75	- -	=	6.46

Time	0755	0800	0805	0810						
Depth to water	5.92	5.95	5.95	5.95						
Volume purged (gals)	∅	0.13	0.67 ~~0.13~~	0.67 ~~0.13~~						
Σ volume purged (gals)	∅	0.13	0.80 ~~0.26~~	1.47 ~~0.39~~						
Σ casing volumes	∅	0.02	0.12 0.04	0.22 ~~0.06~~						
Purge rate (gpm)	500 mL	→								
Temperature (F°/C°)	17.25	17.58	17.63	17.68						
Specific conductivity (μmhos/cm)	7352	7191	7135	7079						
Dissolved oxygen (mg/L)	1.21	0.74	0.59	0.43						
pH	6.14	6.32	6.43	6.50						
ORP	-20.1	-61.1	-91.1	-107.2						
Turbidity or Color	46.57	33.63	13.16	7.71						
De-watered?	no	no	no	no						

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT Alameda, Area 6 Project No.: 07033.0015

Well No.: CAO6-2 Tested By: TW/RS Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	13.07
Water Level Measurement Method:	Solinst	Sample Method:	Peristaltic
Development Method(s):	peristaltic	Time Sampled:	1302
Time Start Develop:	1235	Sample Depth (ft):	10'
Time End Develop:	1305	Field Filtering:	None
Initial/Static Water Level (ft.):	6.09	Field Preservation:	None
Final Water Level (ft.):	6.61	Comments:	PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.07	-	6.09	=	6.98	x	1	4	-	=	6.21
							0.89	1.75	-		

Time	1235	1240	1245	1250	1255	1300	1305				
Depth to water	6.55	6.57	6.58	6.60	6.61	6.61	6.61				
Volume purged (gals)	ϕ	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~				
Σ volume purged (gals)	ϕ	1.3 ~~0.13~~	1.95 ~~.26~~	2.6 ~~.39~~	3.25 ~~0.52~~	3.9 ~~0.65~~	4.55 ~~0.78~~				
Σ casing volumes	ϕ	0.20 ~~0.02~~	0.31 ~~0.04~~	0.06 ~~0.62~~	0.08 ~~0.83~~	0.62 ~~0.10~~	0.73 ~~0.12~~				
Purge rate (gpm)	500-4 m	→	→	0.41 →	0.52 →	~~0.62~~ →	→				
Temperature (F°/C°)	18.63	18.75	18.68	18.70	18.62	18.64	18.63				
Specific conductivity (μmhos/cm)	4694	3680	3500	3435	3333	3256	3166				
Dissolved oxygen (mg/L)	7.53	0.65	0.43	0.37	0.32	0.29	0.26				
pH	6.98	7.25	6.98	7.04	7.00	6.98	6.95				
ORP	-287	-95	-117	-127	-135	-142	-148				
Turbidity or Color	81	49.47	19.65	19.07	13.70 ~~13.50~~	12.73	9.43				
De-watered?	no	no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT Alameda, Breach Project No.: 07033.0015

Well No.: CA06-3 Tested By: TW/RS Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	12.80
Water Level Measurement Method:	Solinist	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	1047
Time Start Develop:	1025	Sample Depth (ft):	10
Time End Develop:	1045	Field Filtering:	None
Initial/Static Water Level (ft.):	5.64	Field Preservation:	None
Final Water Level (ft.):	6.03	Comments:	DIW = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.80	-	5.64	=	7.16	x	1	4	-	=	6.3
							0.89	1.75	-		

Time	1025	1030	1035	1040	1045					
Depth to water	5.93	6.01	6.03	6.06	6.03					
Volume purged (gals)	∅	0.55 ~~0.11~~	0.55 ~~0.11~~	0.55 ~~0.11~~	0.55 ~~0.11~~ TW					
Σ volume purged (gals)	∅	1.1 ~~0.22~~	1.65 ~~0.33~~	2.2 ~~0.33~~	2.75 ~~0.44~~ TW					
Σ casing volumes	∅	0.17 ~~0.04~~	0.26 ~~0.06~~	0.34 ~~0.08~~	0.43 ~~0.10~~ TW					
Purge rate (gpm)	400 mL/min	→	→	→	→					
Temperature (F°/C°)	21.06	20.08	19.75	19.69	19.66					
Specific conductivity (μmhos/cm)	681	1030	1159	1228	1271					
Dissolved oxygen (mg/L)	9.18	0.74	0.40	0.32	0.28					
pH	7.31	6.88	6.50	6.37	6.35					
ORP	-77	-79	-87	-93.1	-96					
Turbidity or Color	Clear 34.14	14.74	9.31	8.89	8.14					
De-watered?	no	no	no	no	no					

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT. Alameda Area G Project No.: 07073.0015

Well No.: CA06-9 Tested By: TW/RS Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	13.21
Water Level Measurement Method:	Solinst	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	~~TW~~ 9:32
Time Start Develop:	0910	Sample Depth (ft):	10'
Time End Develop:	0930 ~~5.99~~	Field Filtering:	none
Initial/Static Water Level (ft.):	5.76	Field Preservation:	none
Final Water Level (ft.):	5.99	Comments:	PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.21	-	5.76	=	7.45	x	1 / 0.89	4 / 1.75	- / -	=	6.6

Time	0910	0915	0920	0925	0930					
Depth to water	5.76	6.0	6.0	5.98	5.99					
Volume purged (gals)	∅	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 ~~0.13~~	~~TW~~				
Σ volume purged (gals)	∅	1.30 ~~0.13~~	1.95 ~~0.26~~	2.6 ~~0.39~~	3.25 ~~0.52~~	~~TW~~				
Σ casing volumes	∅	0.19 ~~0.02~~	0.29 ~~0.04~~	0.39 ~~0.05~~	0.49 ~~0.8~~	~~TW~~				
Purge rate (gpm)	500 ml	→	→	→	→					
Temperature (F°/C°)	18.69	18.76	18.75	18.79	18.67					
Specific conductivity (μmhos/cm)	2502	2589	2569	2533	2492					
Dissolved oxygen (mg/L)	1.01	0.49	0.34	0.30	0.29					
pH	6.98	7.17	7.21	7.18	7.17					
ORP	-75	-107	-123	-120	-128					
Turbidity or Color	60	29.21	15.92	8.99	8.77					
De-watered?	no	no	no	no	no					

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT Akwela, Anacl Project No.: 07033.0015

Well No.: CA06-11 Tested By: TW / RS Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	11.80
Water Level Measurement Method:	Solinist	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	1147
Time Start Develop:	1120	Sample Depth (ft):	10'
Time End Develop:	1145	Field Filtering:	None
Initial/Static Water Level (ft.):	5.86	Field Preservation:	None
Final Water Level (ft.):	6.11	Comments:	PID = 0.0

Duplicate sample collected CA06-211-060208 (1200)

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	11.80	-	5.86	=	5.94	x	1	4	-	=	5.2
							0.89	1.75	-		

Time	1120	1125	1130	1135	1140	1145				
Depth to water	6.05	6.11	6.12	6.11	6.14	6.11				
Volume purged (gals)	ϕ	0.55 ~~0.11~~	0.55 ~~0.11~~	0.55 ~~0.11~~	0.55 ~~0.11~~	0.55 ~~0.11~~				
Σ volume purged (gals)	ϕ	1.1 ~~0.22~~	1.65 ~~0.33~~	2.2 ~~0.44~~	2.75 ~~0.55~~	3.3 ~~0.66~~				
Σ casing volumes	ϕ	0.21 ~~0.04~~	0.31 ~~0.06~~	0.42 ~~0.08~~	0.52 ~~0.10~~	0.63 ~~0.12~~				
Purge rate (gpm)	400 mL/m	→	→	→	→	→				
Temperature (F°/C°)	20.99	20.57	20.59	20.54	20.54	20.50				
Specific conductivity (μmhos/cm)	1515	1579	1624	1643	1652	1655				
Dissolved oxygen (mg/L)	2.82	0.51	0.36	0.27	0.25	0.22				
pH	6.95	5.96	5.93	6.04	6.13	6.13				
ORP	-44	-66	-88	-105	-107	-111				
Turbidity or Color	clear 45.97	clear 13.86	clear 7.54	3.75	6.21	5.38				
De-watered?	no	no	no	no	no	no				

Macintosh HD:Users:rachel:Desktop:Well Development Samp.Dwg

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT. Hueda, Oregon Project No.: 07.033.0015

Well No.: CA06-13 Tested By: TW / RS Date: 6/02/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	13.49
Water Level Measurement Method:	Solinst	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	10:17
Time Start Develop:	0950	Sample Depth (ft):	@ 10
Time End Develop:	10:15	Field Filtering:	none
Initial/Static Water Level (ft.):	6.30	Field Preservation:	none
Final Water Level (ft.):	7.12	Comments:	PID - 0-0.5

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.49	-	6.30	=	7.19	x	1 / 0.89	4 / 1.75	- / -	=	6.39

Time	0950	0955	1000	1005	1010 ~~HO~~	1015					
Depth to water	7.00	7.03	7.07	7.09	7.12	7.12					
Volume purged (gals)	ϕ	0.65 ~~0.13~~	0.65 ~~0.13~~	0.65 0.13	0.65 ~~0.13~~	0.65 ~~0.13~~	TW				
Σ volume purged (gals)	ϕ	1.30 ~~0.13~~	1.95 ~~0.26~~	2.6 0.39	3.25 0.52	3.9 0.65	TW				
Σ casing volumes	ϕ	0.20 ~~0.02~~	0.30 ~~0.04~~	0.41 ~~0.06~~	0.51 ~~0.08~~	0.61 ~~0.10~~	TW				
Purge rate (gpm)	500 ml/m	→	→	→	→	→					
Temperature (F°/C°)	19.94	20.06	20.07	20.05	19.93	19.99					
Specific conductivity (μmhos/cm)	1848	1850	2134	2336	2427	2485					
Dissolved oxygen (mg/L)	1.44	0.56	0.37	0.30	0.32	0.24					
pH	6.34	5.75	5.67	5.71	5.80	5.85					
ORP	-48	-52	-59	-68	-77	-83					
Turbidity or Color	30.09	21.66	16.72	12.25	10.53	3.65					
De-watered?	no	no	no	no	no	no					

Macintosh HD:Users:wwalters:Desktop:Well Development:Sampling

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MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT. Alameda Area 6 Project No.: 07033.0015

Well No.: CA06-14 Tested By: Rogers Date: 6/7/08

Measuring Point Description: TOC Total Well Depth (ft.): 14.15

Water Level Measurement Method: Solinist Sample Method: Peristaltic

Development Method(s): Peristaltic Time Sampled: 1352

Time Start Develop: 1330 Sample Depth (ft): 10'

Time End Develop: 1350 Field Filtering: None

Initial/Static Water Level (ft.): 6.01 Field Preservation: None

Final Water Level (ft.): 6.83 Comments: PID = 0

0.11

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	14.15	-	6.01	=	8.14	x	1	4	-	=	7.24
							0.89	1.75	-		

Time	1330	1335	1340	1345	1350					
Depth to water	6.76	6.76	6.79	6.81	6.83					
Volume purged (gals)	∅	0.55	.55	.55	.55					
Σ volume purged (gals)	∅	0.55	1.1	1.65	2.2					
Σ casing volumes	∅	0.76	0.15	0.22	0.30					
Purge rate (gpm)	500 mL/m	400 mL/m	→	→	→					
Temperature (F°/C°)	19.29	19.92	19.07	19.05	19.16					
Specific conductivity (μmhos/cm)	6163	3028	2920	2934	2957					
Dissolved oxygen (mg/L)	9.29	0.56	0.40	0.35	0.30					
pH	7.20	6.83	6.76	6.87	6.75					
ORP	-63	-63	-79	-93	-99					
Turbidity or Color	clear 309	clear 32.78	clear 7.53	5.61	6.35					
De-watered?	no	no	no	no	no					

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MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: DT Alameda Project No.: 07033.0015

Well No.: CA06-15 Tested By: T. Wahl / R. Spa Date: 6/2/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	7.6
Water Level Measurement Method:	Solinist	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	0902
Time Start Develop:	0830	Sample Depth (ft):	7
Time End Develop:	0900	Field Filtering:	no
Initial/Static Water Level (ft.):	5.90	Field Preservation:	no
Final Water Level (ft.):	6.69	Comments:	shallow well?

0.13 Pin = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	7.6	-	5.90	=	1.7	x	1	4	-	=	1.51
							0.89	1.75	-		

Time	0830	0840	0845	0850	0855	0900				
Depth to water	6.85	6.47	6.65	6.67	6.68	6.69				
Volume purged (gals)	Ø	.13	0.65	0.65	0.65	0.65				
Σ volume purged (gals)	Ø	.13	.78	1.43	2.08	2.73				
Σ casing volumes	Ø	0.05	0.52	0.94	1.37	1.80				
Purge rate (gpm)	200 ml	→	→		→					
Temperature (F°/C°)	16.46	17.11	17.29	17.37	17.51	17.44				
Specific conductivity (μmhos/cm)	3629	3712	3713	3719	3744	3751				
Dissolved oxygen (mg/L)	2.73	3.29	0.60	0.47	0.36	0.34				
pH	7.19	7.26	7.29	7.25	7.23	7.30				
ORP	-113.5	-132	-157	-168	-179	-186				
Turbidity or Color	229	247	83	29.28	12.32	8.43				
De-watered?	Shallow no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: Ft. Alexander, Ariz. Project No.: 07033.0015

Well No.: CAOG-4 Tested By: T. Watkins Date: 6/3/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	10.35
Water Level Measurement Method:	Peristaltic	Sample Method:	peristaltic
Development Method(s):	Surging	Time Sampled:	1032
Time Start Develop:	1010	Sample Depth (ft):	9'
Time End Develop:	1030	Field Filtering:	none
Initial/Static Water Level (ft.):	4.32	Field Preservation:	none
Final Water Level (ft.):	4.26	Comments:	Red = O

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	10.35	-	4.32	=	6.03	x	1	4	-	=	5.3
							0.89	1.75	-		

Time	1010	1015	1020	1025	1030					
Depth to water	4.32	4.19	4.26	4.26	4.26					
Volume purged (gals)	∅	0.67	0.67	0.67	0.67					
Σ volume purged (gals)	∅	0.67	1.35	2.02	2.69					
Σ casing volumes	∅	0.12	0.25	0.39	0.50					
Purge rate (gpm)	500 ml/m	→	→	→	→					
Temperature (F°/C°)	20.05	19.71	19.52	19.41	19.50					
Specific conductivity (μmhos/cm)	319	256	265	255	258					
Dissolved oxygen (mg/L)	2.07	0.72	0.49	0.36	0.31					
pH	7.50	5.13	4.30	4.00	3.90					
ORP	-49	82	117	122.8	120.3					
Turbidity or Color	clear 70	clear 32.67	clear 15.49	clear 8.56	clear 4.39					
De-watered?	no	no	no	no	no					

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: DT. Alaska, Area 6 Project No.: 07033.0015

Well No.: CA06-6 Tested By: T. Watkins Date: 6/3/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	10.55
Water Level Measurement Method:	Solinist	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	0847
Time Start Develop:	0820	Sample Depth (ft):	~~mid~~ 8'
Time End Develop:	0845	Field Filtering:	None
Initial/Static Water Level (ft.):	2.40	Field Preservation:	None
Final Water Level (ft.):	2.64	Comments:	PID = 0

CA06-26-060308 is a duplicate of CA06-6

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	10.55	-	2.40	=	8.15	x	1	4	-	=	7.25
							0.89	1.75	-		

Time	0820	0825	0830	0835	0840	0845				
Depth to water	2.40	2.64	2.64	2.64	2.64	2.64				
Volume purged (gals)	~~0~~	0.54	0.54	0.54	0.54	0.54				
Σ volume purged (gals)	~~0~~	0.54	1.08	1.62	2.16	2.70				
Σ casing volumes	~~0~~	0.07	0.14	0.22	0.29	0.37				
Purge rate (gpm)	400ml/m	→	→	→	→	→				
Temperature (F°/C°)	21.15	21.37	21.26	21.27	21.22	21.21				
Specific conductivity (μmhos/cm)	2413	3461	5306	6089	6238	6235				
Dissolved oxygen (mg/L)	1.60	0.52	0.35	0.27	0.24	0.23				
pH	7.04	6.35	6.36	6.43	6.50	6.56				
ORP	-29	-48	-56	-108	-119	-125				
Turbidity or Color	clear 21.44	clear 23.38	clear 17.61	clear 10.20	clear 8.78	clear 9.26				
De-watered?	no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: DT Alameda, Area 6 Project No.: 07033.0015

Well No.: CAC6-7 Tested By: T. Westcher Date: 6/3/08

Measuring Point Description:	TOC	Total Well Depth (ft.):	10.25
Water Level Measurement Method:	Solinst	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	0800
Time Start Develop:	0735	Sample Depth (ft):	10'
Time End Develop:	0800	Field Filtering:	none
Initial/Static Water Level (ft.):	3.45	Field Preservation:	none
Final Water Level (ft.):	3.78	Comments:	PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	10.25	-	3.45	=	6.8	x	1 / 0.89	4 / 1.75	- / -	=	6.05

Time	0735	0740	0745	0750	0755	0800				
Depth to water	3.45	3.71	3.76	3.76	3.78	3.78				
Volume purged (gals)	∅	0.54	0.54	0.54	0.54	0.54				
Σ volume purged (gals)	∅	0.54	1.08	1.62	2.16	2.70				
Σ casing volumes	∅	0.08 ~~0.07~~	0.17	0.26	0.35	0.44				
Purge rate (gpm)	400 ml/min →	→	→	→	→	→				
Temperature (F°/C°)	20.59	21.18	21.36	21.42	21.37	21.61				
Specific conductivity (μmhos/cm)	1996	2357	3941	4674	4753	4836				
Dissolved oxygen (mg/L)	5.77	0.73	0.43	0.40	0.35	0.33				
pH	7.50	6.54	6.50	6.75	6.66	6.79				
ORP	-60	-16	-17	-31	-24	-32				
Turbidity or Color	clear 31.19	clear 15.83	clear 11.10	clear 9.27	clear 8.03	clear 5.91				
De-watered?	no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: PT. Alinda, Area 6 Project No.: 07033.0015

Well No.: CA06-8 Tested By: T. Watch Date: 3 Jun 08

Measuring Point Description:	TOC	Total Well Depth (ft.):	12.17
Water Level Measurement Method:	Solinst	Sample Method:	peristaltic
Development Method(s):	peristaltic	Time Sampled:	0717
Time Start Develop:	0650	Sample Depth (ft):	10'
Time End Develop:	0715	Field Filtering:	None
Initial/Static Water Level (ft.):	5.98	Field Preservation:	None
Final Water Level (ft.):	6.51	Comments:	PID = 0

0.108

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	12.17	-	5.98	=	6.19	x	1	4	-	=	5.50
							0.89	1.75	-		

Time	0650	0655	0700	0705	0710	0715				
Depth to water	5.98	6.45	6.49	6.51	6.51	6.51				
Volume purged (gals)	¢	.54	.54	.54	.54	.54				
Σ volume purged (gals)	¢	.54	1.08	1.62	2.16	2.7				
Σ casing volumes	¢	0.09	0.19	0.29	.39	.49				
Purge rate (gpm)	400 ml/m	→	→	→	→	→				
Temperature (F°/C°)	18.15	18.62	18.64	18.74	18.69	18.66				
Specific conductivity (μmhos/cm)	5167	5055	4901	4425	3905	3805				
Dissolved oxygen (mg/L)	2.01	0.61	0.45	0.35	0.28	0.25				
pH	6.92	6.55	6.53	6.59	6.59	6.55				
ORP	45	15.7	-19	-49	-65	-66				
Turbidity or Color	clear 59	→ 37.92	18.71	10.51	7.51	9.61				
De-watered?	no	no	no	no	no	no				

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT AND SAMPLING FORM (kl)

Project Name: DT. Alameda, Area 6 Project No.: 07033.0015

Well No.: DUE-4 Tested By: T. Watchsen Date: 6/3/08

Measuring Point Description: TOC Total Well Depth (ft.): 13.2

Water Level Measurement Method: Solinist Sample Method: peristaltic

Development Method(s): Peristaltic Time Sampled: 0932

Time Start Develop: 0905 Sample Depth (ft): 8'

Time End Develop: 0930 Field Filtering: none

Initial/Static Water Level (ft.): 2.48 Field Preservation: none

Final Water Level (ft.): 2.75 Comments:

PID = 0

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	13.2	-	2.48	=	10.72	x	1 / 0.89	4 / 1.75	- / -	=	18.76

Time	0905	0910	0915	0920	0925	0930				
Depth to water	2.48	2.74	2.75	2.75	2.75	2.75				
Volume purged (gals)	∅	0.67	0.67	0.67	0.67	0.67				
Σ volume purged (gals)	∅	0.67	1.35	2.02	2.69	3.36				
Σ casing volumes	∅	0.04	0.07	0.10	0.14	0.17				
Purge rate (gpm)	500 ml/m	→	→	→	→	→				
Temperature (F°/C°)	21.43	20.71	20.34	20.22	20.06	19.73				
Specific conductivity (μmhos/cm)	2114	1920	1859	1849	1864	2117				
Dissolved oxygen (mg/L)	2.29	.33	0.27	0.23	0.19	0.41				
pH	7.72	6.31	6.16	6.19	6.15	6.09				
ORP	-78	-24	-28	-37	-43	-43				
Turbidity or Color	Clear 21.90	Clear 12.46	Clear 13.87	Clear 16.53	Clear 16.27	Clear 6.31				
De-watered?	no	no	no	no	no	no				

↑ note shut off

Macintosh HD:Users:[illegible]:Desktop:Well Development/Sampling

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Sheet 1 of 1

MONITORING WELL DEVELOPMENT FORM (kl)

Project Name: PT. Alameda, Area 6 Project No.: 07033.0015

Well No.: CA06-10 Tested By: T. Watchu Date: 6/3/08

Measuring Point Description: TOC Initial Water Level (ft.): 3.00

Total Well Depth (ft.): 10.30 Final Water Level (ft.):

Water Level Measurement Method: Solinst Time Start Develop: 1250

Development Method(s): surge w/ 1/2 PVC Time End Develop:

Comments: PID - 0-6.0ppm

Well Volume Calculation	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			=	Well Volume (gal)
	10.3	-	3.00	=	7.3	x	1 / 0.89	4 / 1.75	- / -	=	6.49

1.23

x 3 = 19.49

Time	1250	1255	1300	1315	1330	1345	1400	1415		
Depth to water	3.00	3.35	3.35	3.35	3.35	3.17	3.20	3.28		
Volume purged (gals)	ϕ	1.08	1.15	3.44	3.44	3.44	3.44	3.44		
Σ volume purged (gals)	ϕ	1.08	2.22	5.66	9.1	12.54	15.98	19.42		
Σ casing volumes	ϕ	0.16	0.34	0.87	1.40	1.93	2.46	3.03		
Purge rate (gpm)	ϕ	800 ml/m	350	→	→	→	→	→		
Temperature (F°/C°)	20.74	20.11	20.10	20.09	20.08	20.44	20.21	20.14		
Specific conductivity (μmhos/cm)	5099	3610	3529	3546	3867	4876	3933	3859		
Dissolved oxygen (mg/L)	5.02	0.54	0.43	0.23	1.76	0.19	0.14	1.77		
pH	6.58	6.30	6.23	6.26	6.37	6.79	6.78	6.32		
ORP	18.5	-43	-61.1	-90.1	-88	-129	-133	-89		
Turbidity or Color	gray 13.99	clear 643	clear 189	clear 26.33	clear 34.48	gray 473	clear 44.12	clear 23.51		
De-watered?	no	no	no	no	no	no	no	no		

" more turbid" " " " " "
Cover in well

Macintosh HD:Users:watchu:Desktop:Well Development (KL)

Innovative Technical Solutions, Inc.

MONITORING WELL PURGE AND SAMPLE FORM

PROJECT NAME: Alameda Boeing Clo/b PROJECT NO.: 07033.0015

WELL NO.: CAAD6-10 TESTED BY: RS DATE: 06/12/08

Measuring Point Description: TOC Static Water Level (ft.): 3.00'

Total Well Depth (ft.): 10.36' Sample Method: Low Flow

Water Level Measurement Method: Solinst Probe Time Sampled: 1220

Purge Method: Peristaltic Pump Sample Depth (ft.): 7'

Time Start Purge: 1200 Field Filtering: —

Time End Purge: 1217 Field Preservation: ICE

Comments: 1" = 0.041

Well Volume Calculation (fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in) 2: 0.16	4: 0.64	6: 1.44	=	Casing Volume (gal)
	10.36		3.00		7.36						0.301

Time	1200	1205	1210	1215			
Volume Purged (gals)	0	<1	<1	<1			
Cumulative Volume Purged (gals)	0	<1	<1	<1			
Cumulative Number of Casing Volumes	0	1.204	2.408	3.612			
Purge Rate ~~(gpm)~~ mL	.250	.250	.250	.250			
Temperature (°C)	21.8	21.6	21.6	21.5			
pH	6.69	6.66	6.64	6.69			
Specific Conductivity (mS/cm)	2.01	3.50	4.12	4.19			
Dissolved Oxygen (mg/L)	4.10	3.37	3.14	3.09			
Turbidity/Color (NTU)	20.0	12.0	7.3	3.4			
Odor	NO	NO	NO	NO			
Dewatered?	NO	NO	NO	NO			

124080

002689

Innovative Technical Solutions, Inc.

2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 – (925) 256-8998 (fax)

Local Address: _____

Chain-Of-Custody

Project Name and Number: _____
Project Manager: _____
Site Location: _____

Laboratory Name: _____
Address: _____
Contact Name: _____
Phone: _____

Date: _____
Page: ____ of ____

Sample I.D.	Date	Time	Sample Depth	No. of Containers	Sample Matrix	Analysis: / Preservative: / Container Type:								Special Instructions/Comments

Sampled By: _____
Signature: _____
Special Instructions: _____
Send Results to: (w/fax #) _____
Turnaround Time: _____

Sampler:

Relinquished By/Affiliation:	Date:	Time:

Courier/Airbill No.:

Received By/Affiliation:	Date:	Time:

Original – Labora[illegible] Yellow – Field/Office

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124080

002873

ITSI Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 – (925) 256-8998 (fax)

Local Address:

Chain-Of-Custody

Project Name and Number: [illegible]
Project Manager: [illegible]
Site Location: [illegible]

Laboratory Name: [illegible]
Address: [illegible] Berkeley, CA
Contact Name: [illegible]
Phone: [illegible]

Date: [illegible]
Page: 2 of 2

Sample I.D.	Date	Time	Sample Depth	No. of Containers	Sample Matrix	Analysis:									Special Instructions/Comments
						Preservative:									
						Container Type:									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]									[illegible]

Sampled By: [illegible]
Signature: [illegible]
Special Instructions:
Send Results to: [illegible]
(w/fax #) [illegible]
Turnaround Time: [illegible]

Sampler: [illegible]

Relinquished By/Affiliation:	Date:	Time:	Received By/Affiliation:	Date:	Time:
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Courier/Airbill No.:

Original – Laboratory Yellow – Field/Office

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Innovative Technical Solutions, Inc.

APPENDIX 2

LABORATORY ANALYTICAL REPORT AND
CHAIN-OF-CUSTODY

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 203696
ANALYTICAL REPORT

Innovative Technical Solutions,Inc. 2730 Shadelands Drive Walnut Creek, CA 94598	Project : ALAMEDA Location : Alameda Basewide Level : III

Sample ID	Lab ID
CA06-1-060208	203696-001
CA06-15-060208	203696-002
CA06-9-060208	203696-003
CA06-13-060208	203696-004
CA06-3-060208	203696-005
CA06-11-060208	203696-006
CA06-211-060208	203696-007
CA06-2-060208	203696-008
CA06-14-060208	203696-009
CA06-8-060308	203696-010
CA06-7-060308	203696-011
CA06-6-060308	203696-012
CA06-26-060308	203696-013
DVE-4-060308	203696-014
CA06-4-060308	203696-015
DVE-4-060308 RE	203696-016

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 06/16/2008
Project Manager

Signature: _____ Date: 06/16/2008
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**203696**
Client:	**Innovative Technical Solutions,Inc.**
Project:	**ALAMEDA**
Location:	**Alameda Basewide**
Request Date:	**06/03/08**
Samples Received:	**06/03/08**

This hardcopy data package contains sample and QC results for fifteen water samples, requested for the above referenced project on 06/03/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):

Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 139170.

DVE-4-060308 was extracted as the parent sample (203696-014) for the MS/MSD in batch 138964. The contents of the MS leaked during the extraction process. The sample was re extracted past hold as DVE-4-060308 RE (203696-016) along with the MS/MSD set in batch 139170. The results for the re extracted sampleare reported and qualified with "b".

No other analytical problems were encountered.

Chain of Custody

124080

203696

002869

ITSI Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 – (925) 256-8998 (fax)

Local Address:

Chain-Of-Custody

Project Name and Number: PT. Alameda 07033.0015
Project Manager: Ken Leonard
Site Location: Area 6

Laboratory Name: C&T
Address: 2323 5th Street Berkeley, CA
Contact Name: ~~Ken Leonard~~ Anne Kathain
Phone: 510-486-0925 (225)

Date: 2-Jun-08
Page: 1 of 2

	Sample I.D.	Date	Time	Sample Depth	No. of Containers	Sample Matrix	TPH - Diesel Motor Oil - TPS	Special Instructions/Comments
1	CA06-1-060208	2Jun08	0812	10	1	W	X	Silica gel clean up
2	CA06-15-060208	2Jun08	0902	7	1	W	X	
3	CA06-9-060208	2Jun08	0932	10	1	W	X	
4	CA06-13-060208	2Jun08	1017	10	1	W	X	
5	CA06-3-060208	2Jun/08	1047	10	1	W	X	
6	CA06-11-060208	2Jun08	1147	10	1	W	X	
7	CA06-211-060208	2Jun08	1200	10	1	W	X	
8	CA06-2-060208	2Jun08	1302	10	1	W	X	
9	CA06-14-060208	2Jun08	1352	10	1	W	X	

Analysis:
Preservative: none
Container Type: Amber

Sampled By: Tim Watchers
Signature: T. Watchers
Special Instructions: Silica Gel Clean up

Send Results to: Ken Leonard
(w/fax #) 925-256-8998
Turnaround Time: normal

Sampler: Tim Watchers
Courier/Airbill No.:

Relinquished By/Affiliation:	Date:	Time:	Received By/Affiliation:	Date:	Time:
T. Watchers ITSI	6/3/08	1325	[illegible]	6/3/08	1325

Original – Laboratory Yellow – Field/Office

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124080

203696

002873

ITSI Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 – (925) 256-8998 (fax)

Local Address:

Chain-Of-Custody

Project Name and Number: PT. Alameda, Area 6
Project Manager: Ken Leonard
Site Location: Area 6

Laboratory Name: C&T
Address: 2323 5th Street, Berkeley, CA
Contact Name: Anna Kathrain
Phone: 510-486-0425 ext 225

Date: 2 Jun 08
Page: 2 of 2

	Sample I.D.	Date	Time	Sample Depth	No. of Containers	Sample Matrix	Analysis: TPH-MO-D, TPH-JP5								Special Instructions/Comments
							Preservative: none								
							Container Type: Amber								
10	CA06-8-060308	Jun 3	0717	10'	1	W	X								Silica gel clean-up
11	CA06-7-060308	Jun 3	0802	10'	1	W	X								
12	CA06-6-060308	Jun 3	0847	8'	1	W	X								
13	CA06-26-060308	Jun 3	0900	8'	1	W	X								
14	DUE-4-060308	Jun 3	0932	8'	4	W	X								ms/msd
15	CA06-4-060308	Jun 3	1032	8'	1	W	X								

Sampled By: Tim Watchers
Signature: L. Walsh
Special Instructions:

Send Results to: Ken Leonard
(w/fax #) 925 256 8998
Turnaround Time: normal

Sampler: Tim Watchers
Courier/Airbill No.:

Relinquished By/Affiliation:	Date:	Time:	Received By/Affiliation:	Date:	Time:
L. Walsh FTF	6/3/08	1528	[illegible]	6/3/8	1328

Original – Laboratory Yellow – Field/Office

Graphics/Stationery/chain_custody1004.ai

COOLER RECEIPT CHECKLIST Curtis & Tompkins, Ltd.

Login # 203696 Date Received 6/3/08 Number of coolers 2
Client ITSI Project PT-ALAMEDA

Date Opened 6/3/08 By (print) M.VILLANUEVA (sign) [signature]
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)?.....YES NO
   Shipping info_____
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ NO
   How many _____ Name_____ Date_____
2B. Were custody seals intact upon arrival? ..... YES NO N/A
3. Were custody papers dry and intact when received?.....YES NO
4. Were custody papers filled out properly (ink, signed, etc)?..... YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form)..... YES NO
6. Indicate the packing in cooler: (if other, describe)_____

   ☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None

   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. If required, was sufficient ice used? Samples should be < or = 6°C .....YES NO N/A

   Type of ice used: ☑ Wet ☐ Blue ☐ None Temp(°C) 5.3, 3.7

   ☐ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? .....YES NO
   If YES, what time were they transferred to freezer?_____
9. Did all bottles arrive unbroken/unopened?.....YES NO
10. Are samples in the appropriate containers for indicated tests? .....YES NO
11. Are sample labels present, in good condition and complete? .....YES NO
12. Do the sample labels agree with custody papers? .....YES NO
13. Was sufficient amount of sample sent for tests requested? .....YES NO
14. Are the samples appropriately preserved? .....YES NO N/A
15. Are bubbles > 6mm absent in VOA samples?.....YES NO N/A
16. Was the client contacted concerning this sample delivery?.....YES NO
   If YES, Who was called?_____ By_____ Date:_____

COMMENTS
SAMPLE # 13 CA06-26-060308 TIME ON SAMPLE 0847

TEH Results & QC Summary
Water

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	203696	Location:	Alameda Basewide
Client:	Innovative Technical Solutions,Inc.	Prep:	EPA 3520C
Project#:	ALAMEDA	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	06/03/08

Field ID:	CA06-1-060208	Sampled:	06/02/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-001	Analyzed:	06/09/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	250	50	8.1
Diesel C10-C24	300 Y	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	77	63-130

Field ID:	CA06-15-060208	Sampled:	06/02/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-002	Analyzed:	06/09/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	47 J	50	8.1
Diesel C10-C24	68 Y	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	86	63-130

Field ID:	CA06-9-060208	Sampled:	06/02/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-003	Analyzed:	06/09/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	61 Y	50	8.1
Diesel C10-C24	91 Y	50	8.1
Motor Oil C24-C36	130 J	300	55

Surrogate	%REC	Limits
Hexacosane	120	63-130

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	203696	Location:	Alameda Basewide
Client:	Innovative Technical Solutions,Inc.	Prep:	EPA 3520C
Project#:	ALAMEDA	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	06/03/08

Field ID:	CA06-13-060208	Sampled:	06/02/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-004	Analyzed:	06/09/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	340	50	8.1
Diesel C10-C24	450 Y	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	75	63-130

Field ID:	CA06-3-060208	Sampled:	06/02/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-005	Analyzed:	06/09/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	100	50	8.1
Diesel C10-C24	150 Y	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	89	63-130

Field ID:	CA06-11-060208	Sampled:	06/02/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-006	Analyzed:	06/09/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	15 J	50	8.1
Diesel C10-C24	36 J	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	65	63-130

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	203696	Location:	Alameda Basewide
Client:	Innovative Technical Solutions,Inc.	Prep:	EPA 3520C
Project#:	ALAMEDA	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	06/03/08

Field ID:	CA06-211-060208	Sampled:	06/02/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-007	Analyzed:	06/09/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	17 J	50	8.1
Diesel C10-C24	50 J	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	95	63-130

Field ID:	CA06-2-060208	Sampled:	06/02/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-008	Analyzed:	06/09/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	15 J	50	8.1
Diesel C10-C24	26 J	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	91	63-130

Field ID:	CA06-14-060208	Sampled:	06/02/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-009	Analyzed:	06/10/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	10 J	50	8.1
Diesel C10-C24	18 J	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	87	63-130

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	203696	Location:	Alameda Basewide
Client:	Innovative Technical Solutions,Inc.	Prep:	EPA 3520C
Project#:	ALAMEDA	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	06/03/08

Field ID:	CA06-8-060308	Sampled:	06/03/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-010	Analyzed:	06/10/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	22 J	50	8.1
Diesel C10-C24	34 J	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	93	63-130

Field ID:	CA06-7-060308	Sampled:	06/03/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-011	Analyzed:	06/10/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	ND	50	8.1
Diesel C10-C24	13 J	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	90	63-130

Field ID:	CA06-6-060308	Sampled:	06/03/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-012	Analyzed:	06/10/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	110	50	8.1
Diesel C10-C24	180 Y	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	92	63-130

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	203696	Location:	Alameda Basewide
Client:	Innovative Technical Solutions,Inc.	Prep:	EPA 3520C
Project#:	ALAMEDA	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	06/03/08

Field ID:	CA06-26-060308	Sampled:	06/03/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-013	Analyzed:	06/10/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	100	50	8.1
Diesel C10-C24	160 Y	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	91	63-130

Field ID:	DVE-4-060308	Sampled:	06/03/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-014	Analyzed:	06/09/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	220	50	8.1
Diesel C10-C24	270 Y	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	99	63-130

Field ID:	CA06-4-060308	Sampled:	06/03/08
Type:	SAMPLE	Prepared:	06/05/08
Lab ID:	203696-015	Analyzed:	06/10/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	250	50	8.1
Diesel C10-C24	300 Y	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	97	63-130

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	203696	Location:	Alameda Basewide
Client:	Innovative Technical Solutions,Inc.	Prep:	EPA 3520C
Project#:	ALAMEDA	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	06/03/08

Field ID:	DVE-4-060308 RE	Sampled:	06/03/08
Type:	SAMPLE	Prepared:	06/11/08
Lab ID:	203696-016	Analyzed:	06/12/08
Batch#:	139170	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	96 b	50	9.2
Diesel C10-C24	120 Y b	50	12
Motor Oil C24-C36	ND b	300	70

Surrogate	%REC	Limits
Hexacosane	90 b	63-130

Type:	BLANK	Prepared:	06/05/08
Lab ID:	QC445224	Analyzed:	06/09/08
Batch#:	138964	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	ND	50	8.1
Diesel C10-C24	ND	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	97	63-130

Type:	BLANK	Prepared:	06/11/08
Lab ID:	QC446133	Analyzed:	06/13/08
Batch#:	139170	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
JP-5 C10-C16	ND	50	8.1
Diesel C10-C24	14 J	50	8.1
Motor Oil C24-C36	ND	300	55

Surrogate	%REC	Limits
Hexacosane	66	63-130

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	203696	Location:	Alameda Basewide
Client:	Innovative Technical Solutions,Inc.	Prep:	EPA 3520C
Project#:	ALAMEDA	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC445225	Batch#:	138964
Matrix:	Water	Prepared:	06/05/08
Units:	ug/L	Analyzed:	06/09/08

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,932	77	61-120

Surrogate	%REC	Limits
Hexacosane	92	63-130

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	203696	Location:	Alameda Basewide
Client:	Innovative Technical Solutions,Inc.	Prep:	EPA 3520C
Project#:	ALAMEDA	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC446134	Batch#:	139170
Matrix:	Water	Prepared:	06/11/08
Units:	ug/L	Analyzed:	06/12/08

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,653	66	61-120

Surrogate	%REC	Limits
Hexacosane	86	63-130

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	203696	Location:	Alameda Basewide
Client:	Innovative Technical Solutions,Inc.	Prep:	EPA 3520C
Project#:	ALAMEDA	Analysis:	EPA 8015B
Field ID:	DVE-4-060308 RE	Batch#:	139170
MSS Lab ID:	203696-016	Sampled:	06/03/08
Matrix:	Water	Received:	06/03/08
Units:	ug/L	Prepared:	06/11/08
Diln Fac:	1.000	Analyzed:	06/12/08

Type: MS
Lab ID: QC446135
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	117.5	2,500	2,236	85	58-126

Surrogate	%REC	Limits
Hexacosane	97	63-130

Type: MSD
Lab ID: QC446136
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,870	70	58-126	18	31

Surrogate	%REC	Limits
Hexacosane	77	63-130

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	203696	Location:	Alameda Basewide
Client:	Innovative Technical Solutions,Inc.	Prep:	EPA 3520C
Project#:	ALAMEDA	Analysis:	EPA 8015B
Field ID:	M05-20-A7419	Batch#:	139170
MSS Lab ID:	203855-002	Sampled:	06/10/08
Matrix:	Water	Received:	06/10/08
Units:	ug/L	Prepared:	06/11/08
Diln Fac:	1.000	Analyzed:	06/13/08

Type: MS
Lab ID: QC446137
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	14.90	2,500	2,296	91	58-126

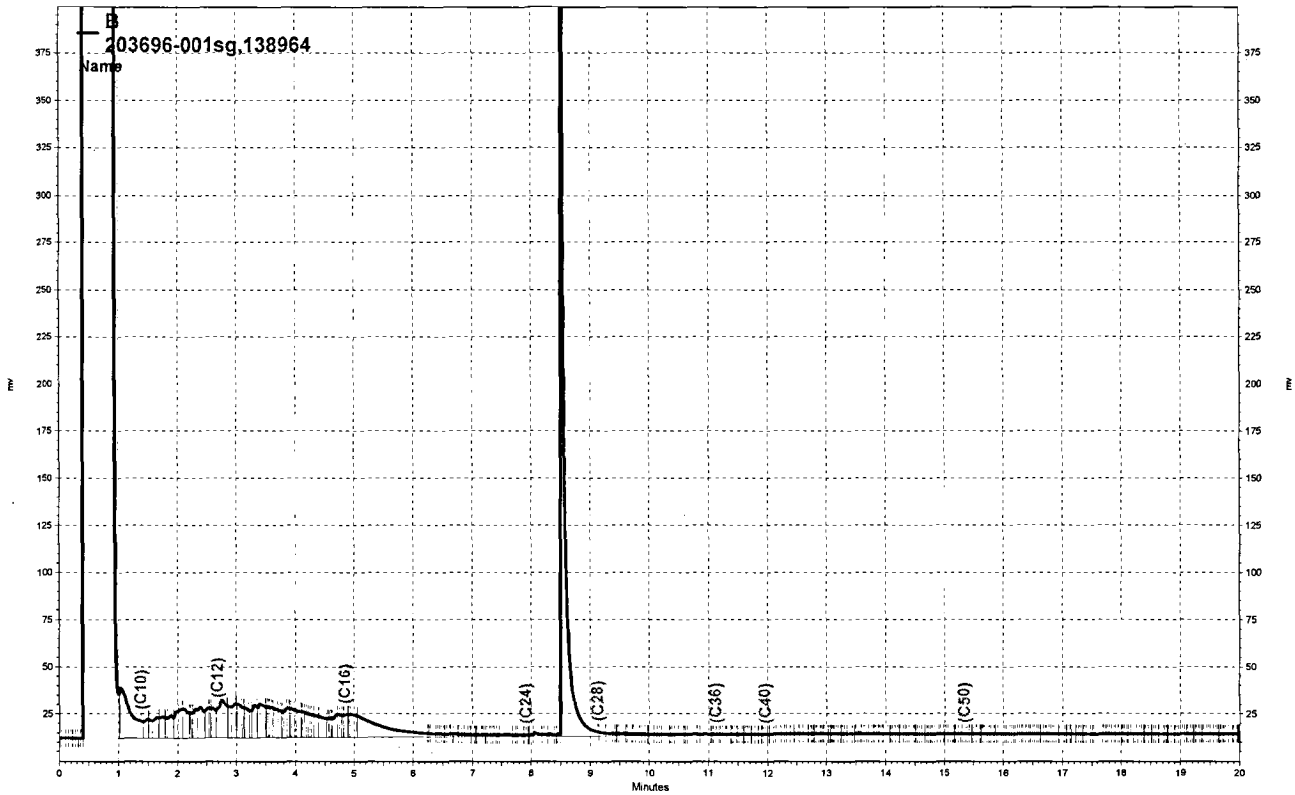
Surrogate	%REC	Limits
Hexacosane	93	63-130

Type: MSD
Lab ID: QC446138
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,378	95	58-126	4	31

Surrogate	%REC	Limits
Hexacosane	98	63-130

RPD= Relative Percent Difference



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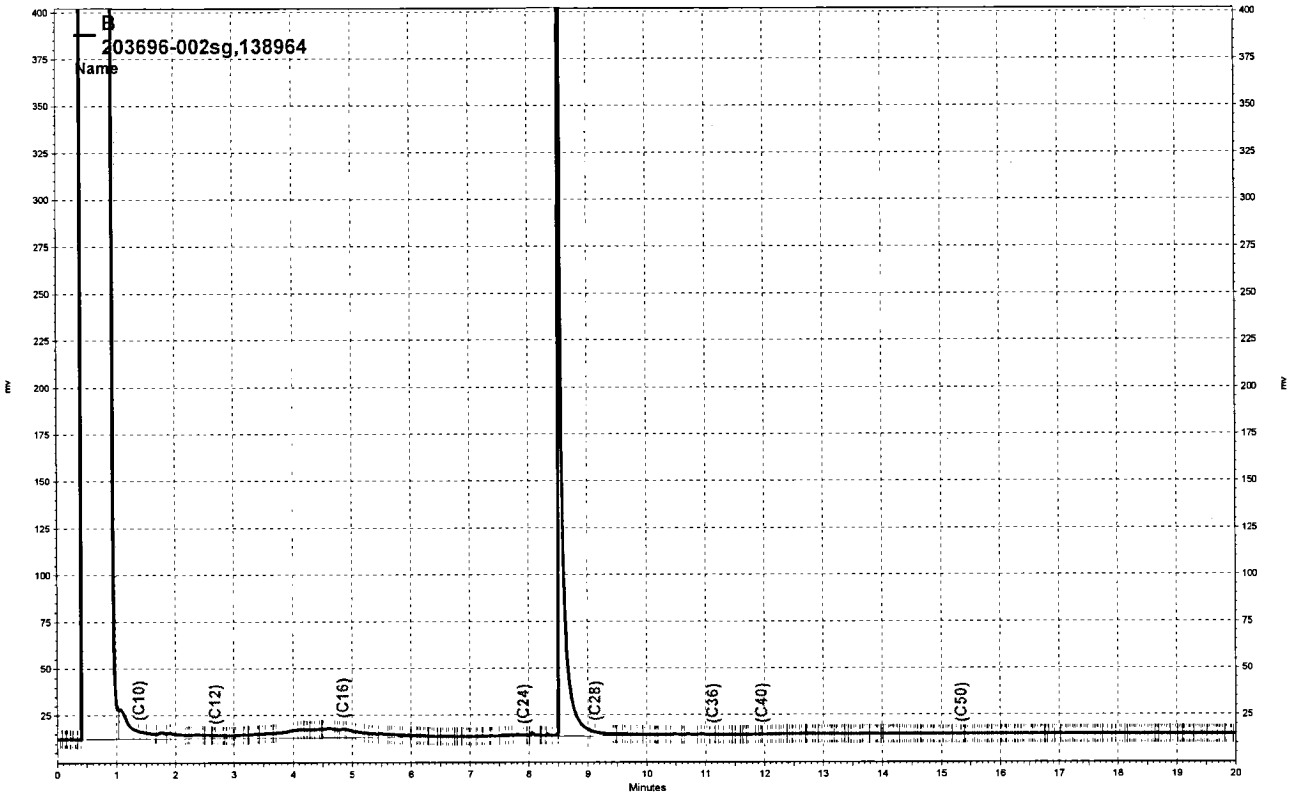

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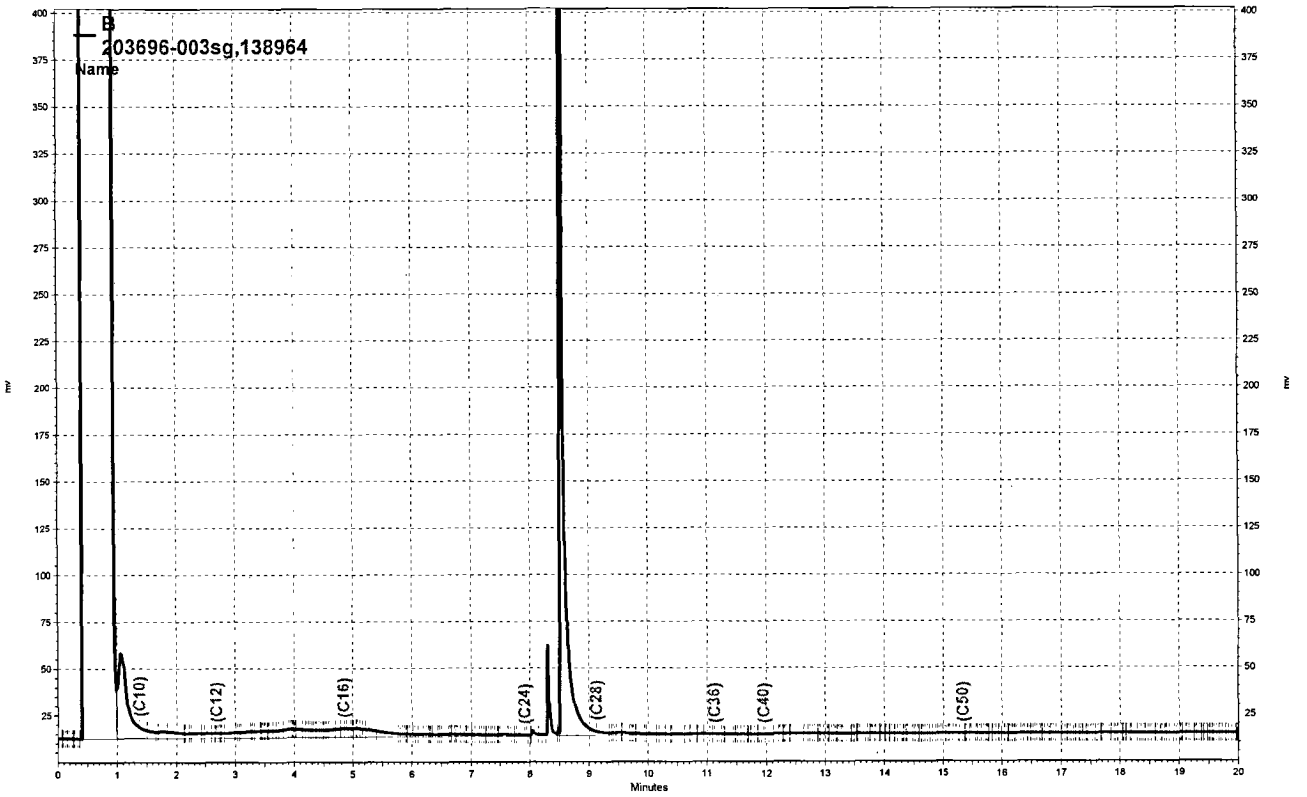

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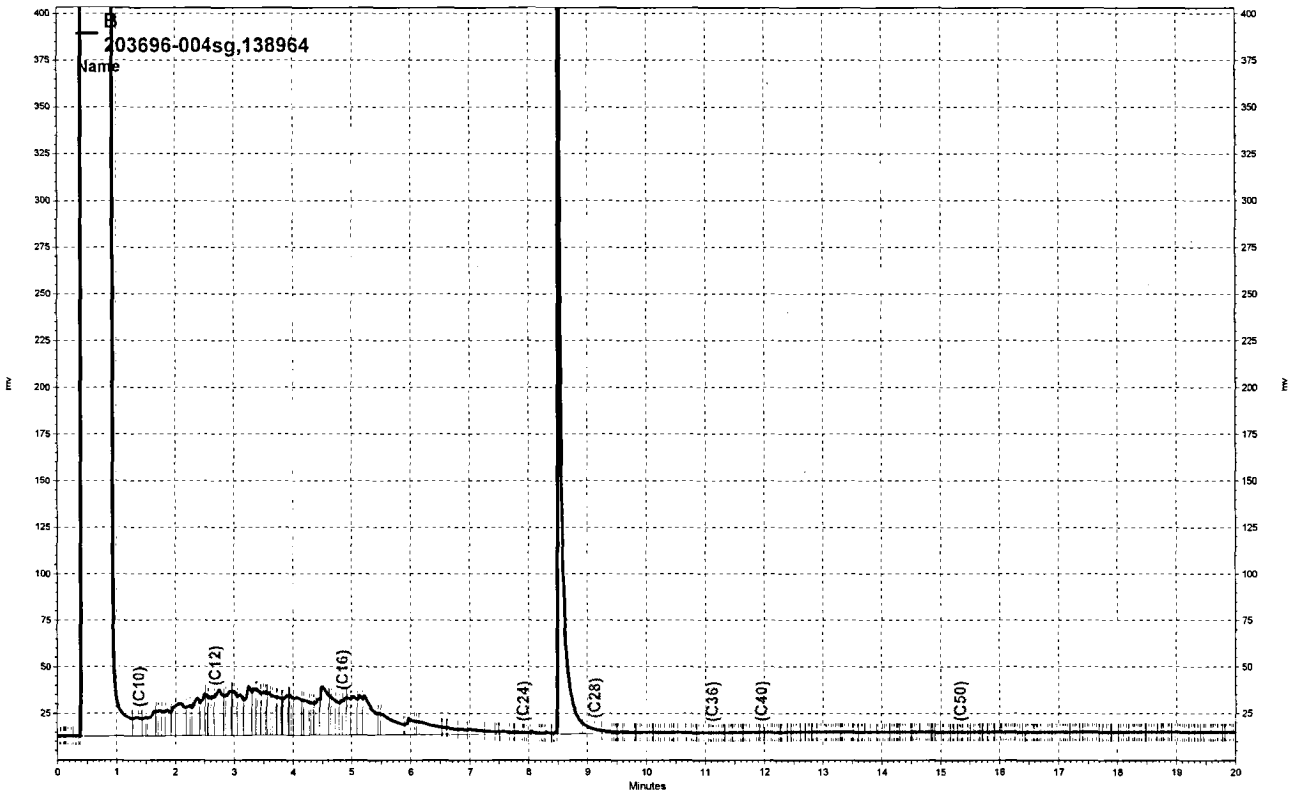

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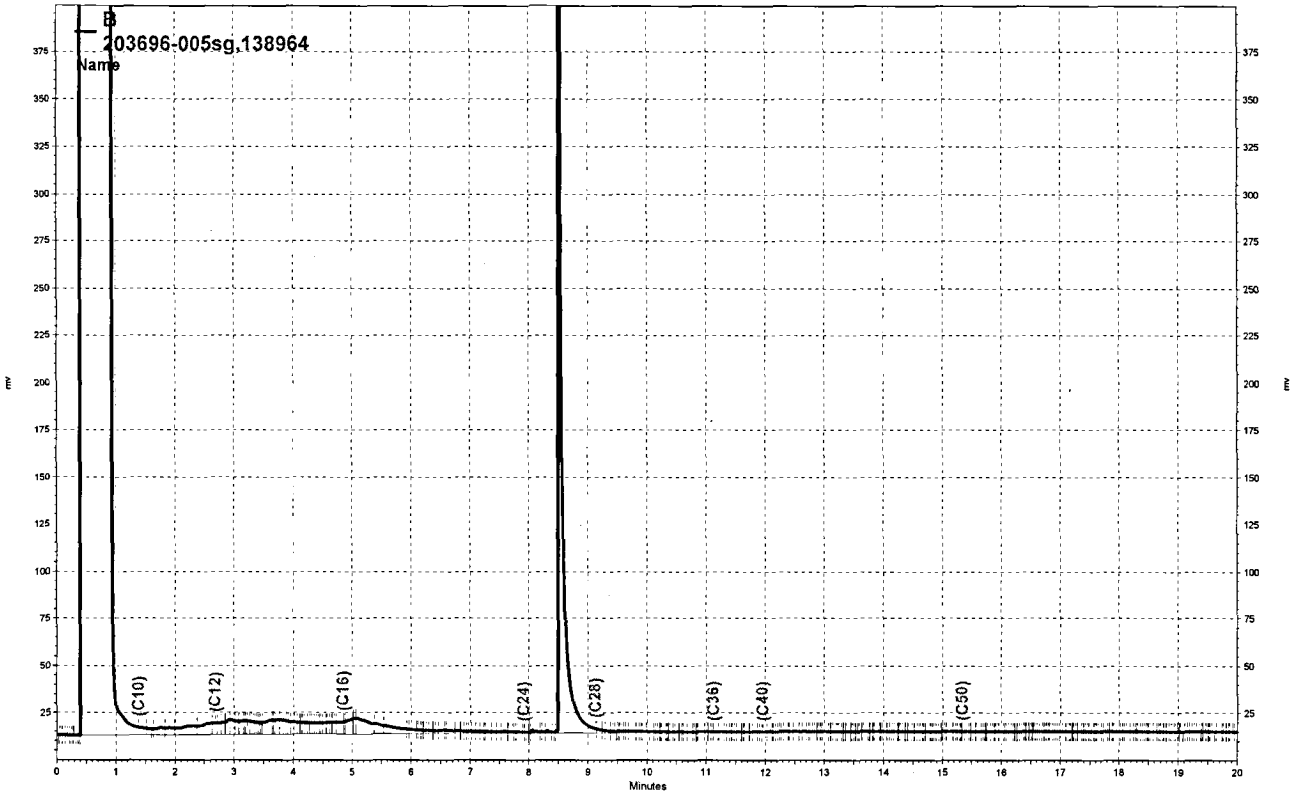

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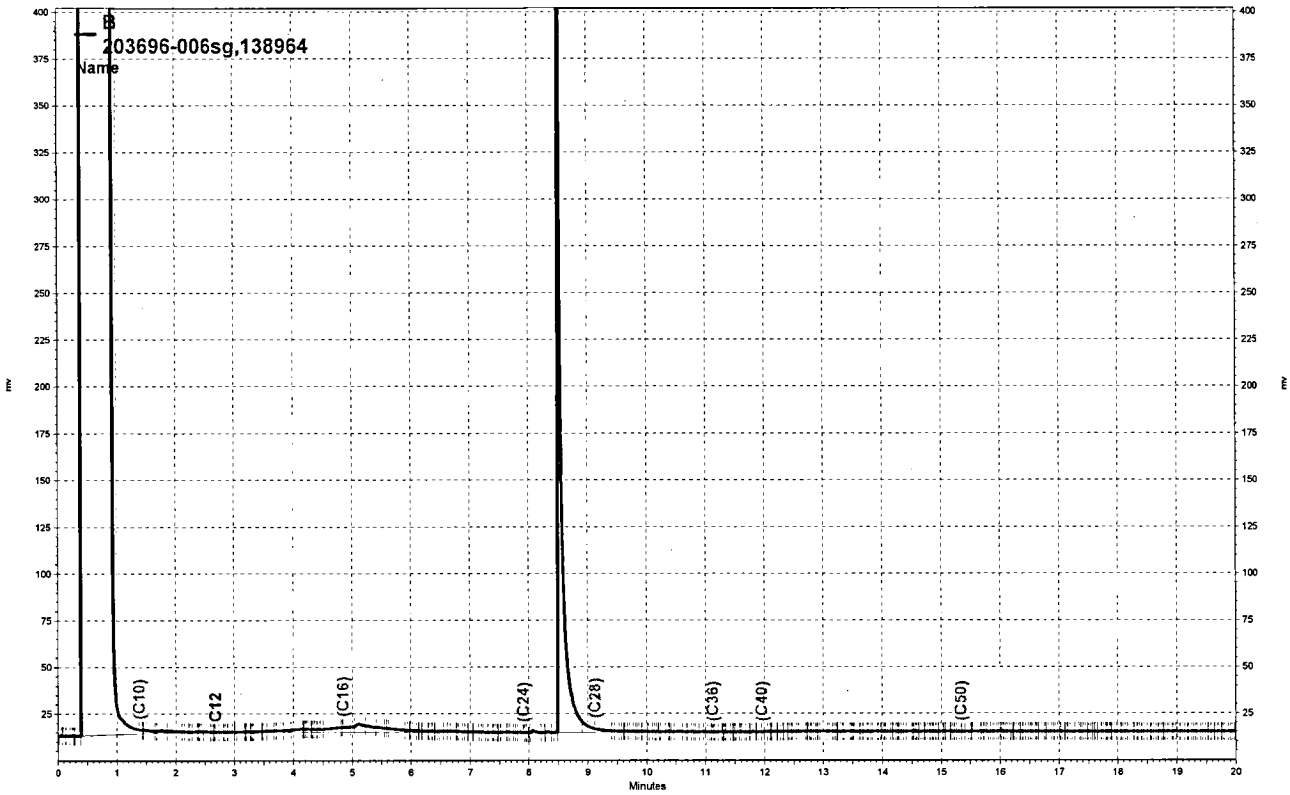

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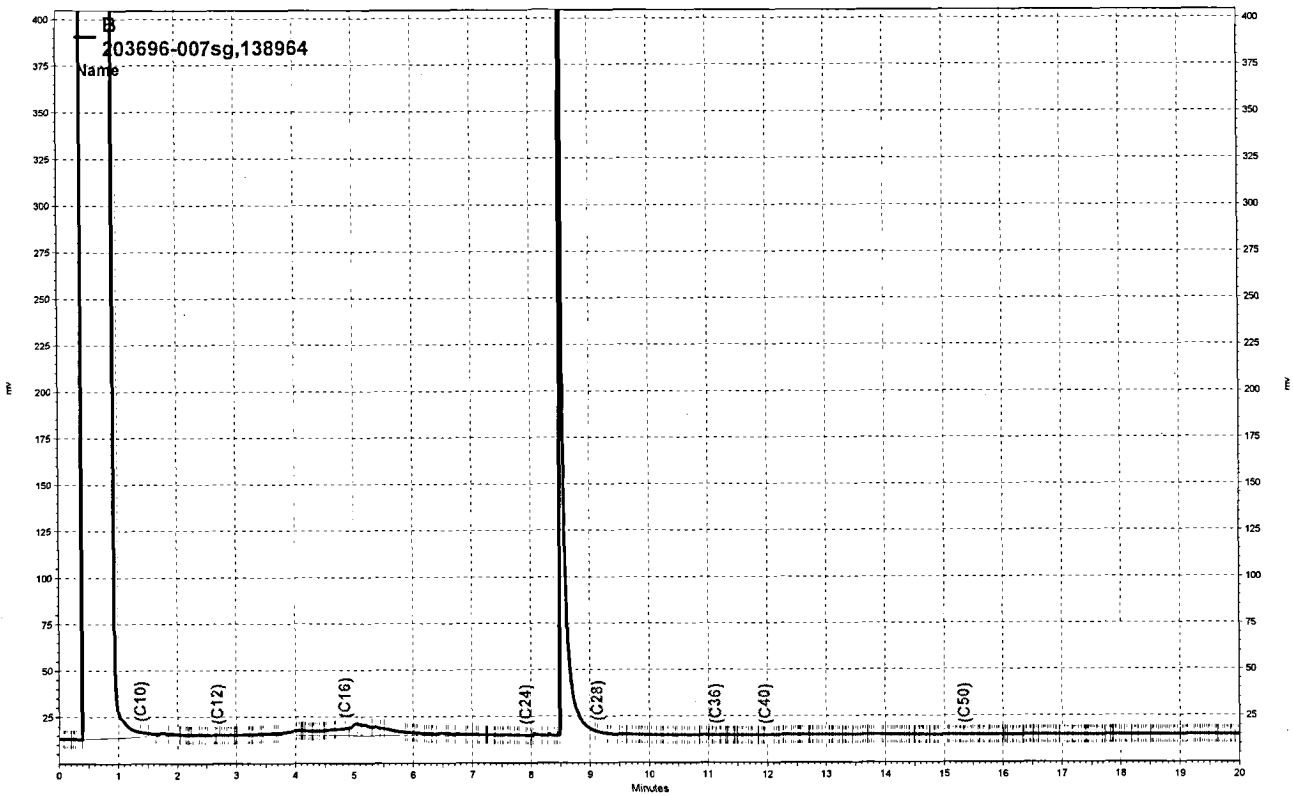

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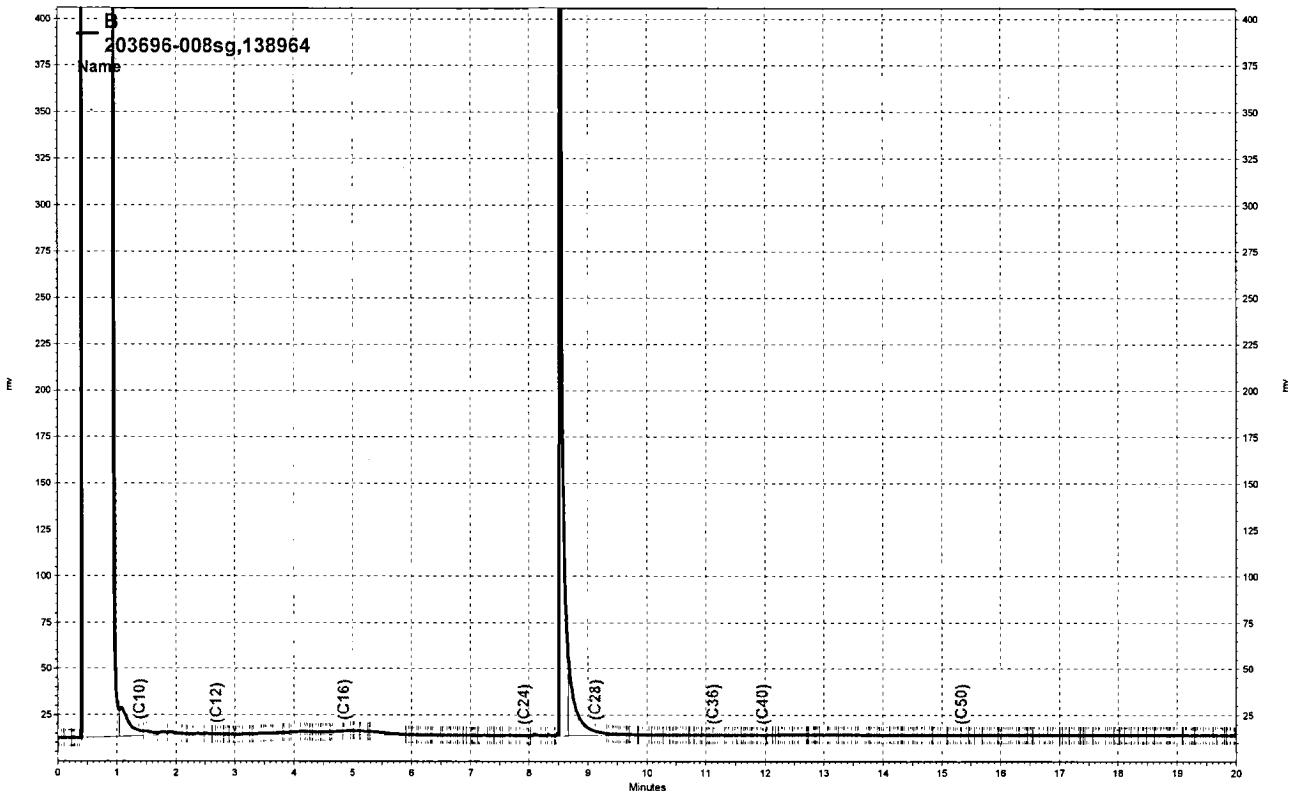

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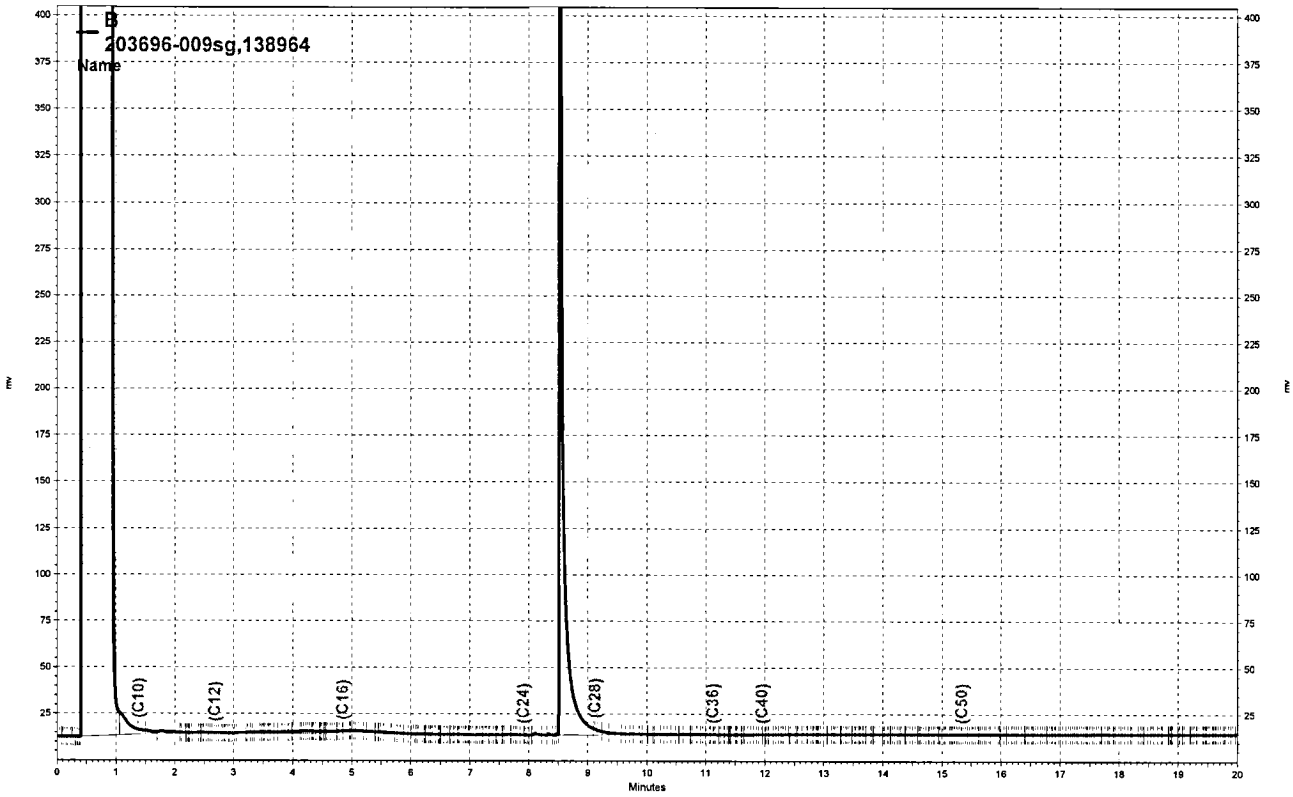

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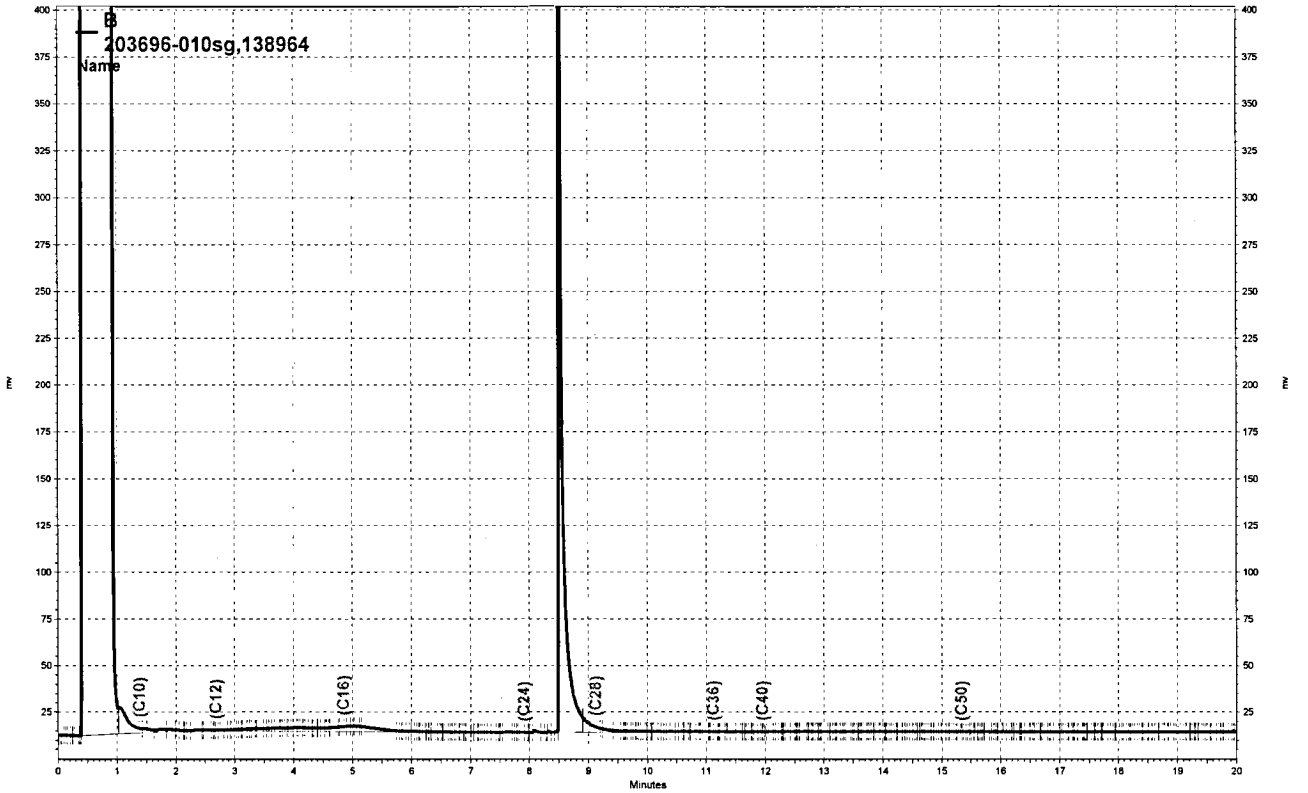

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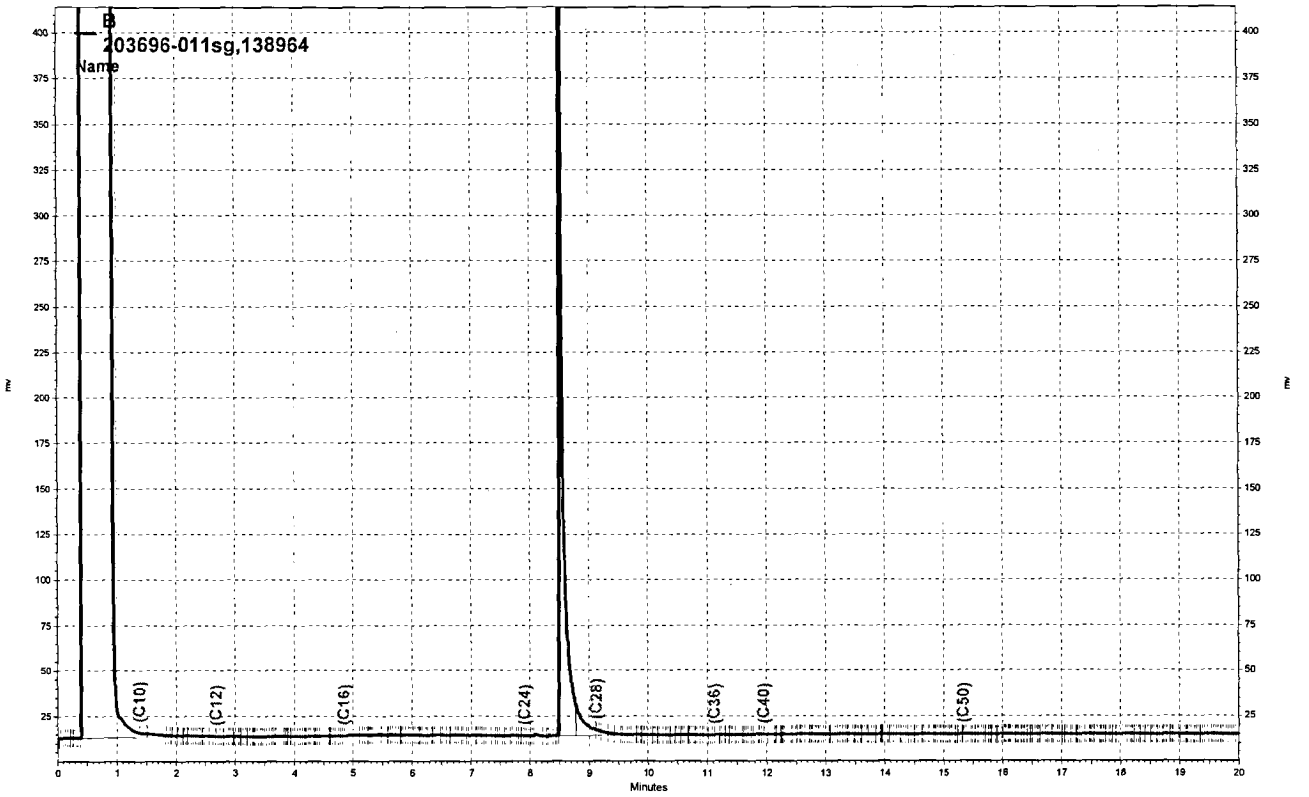

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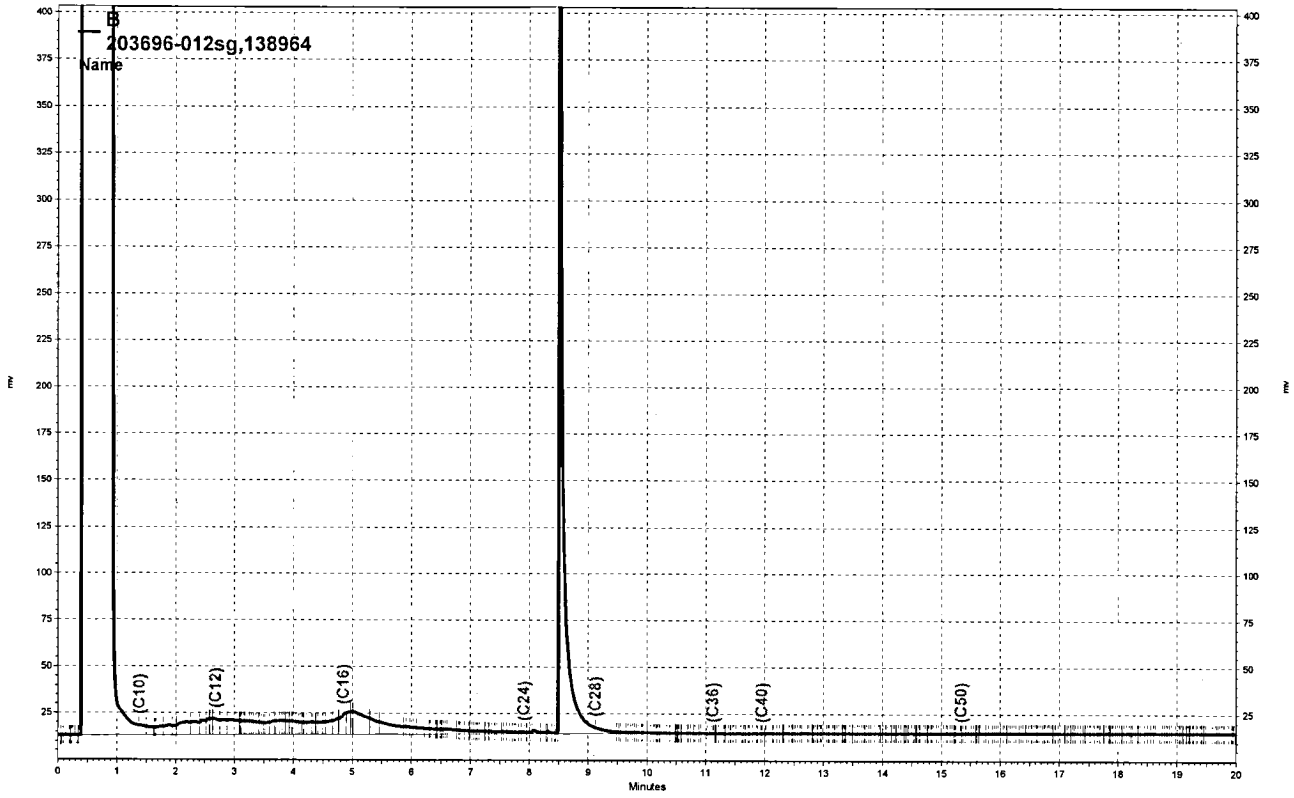

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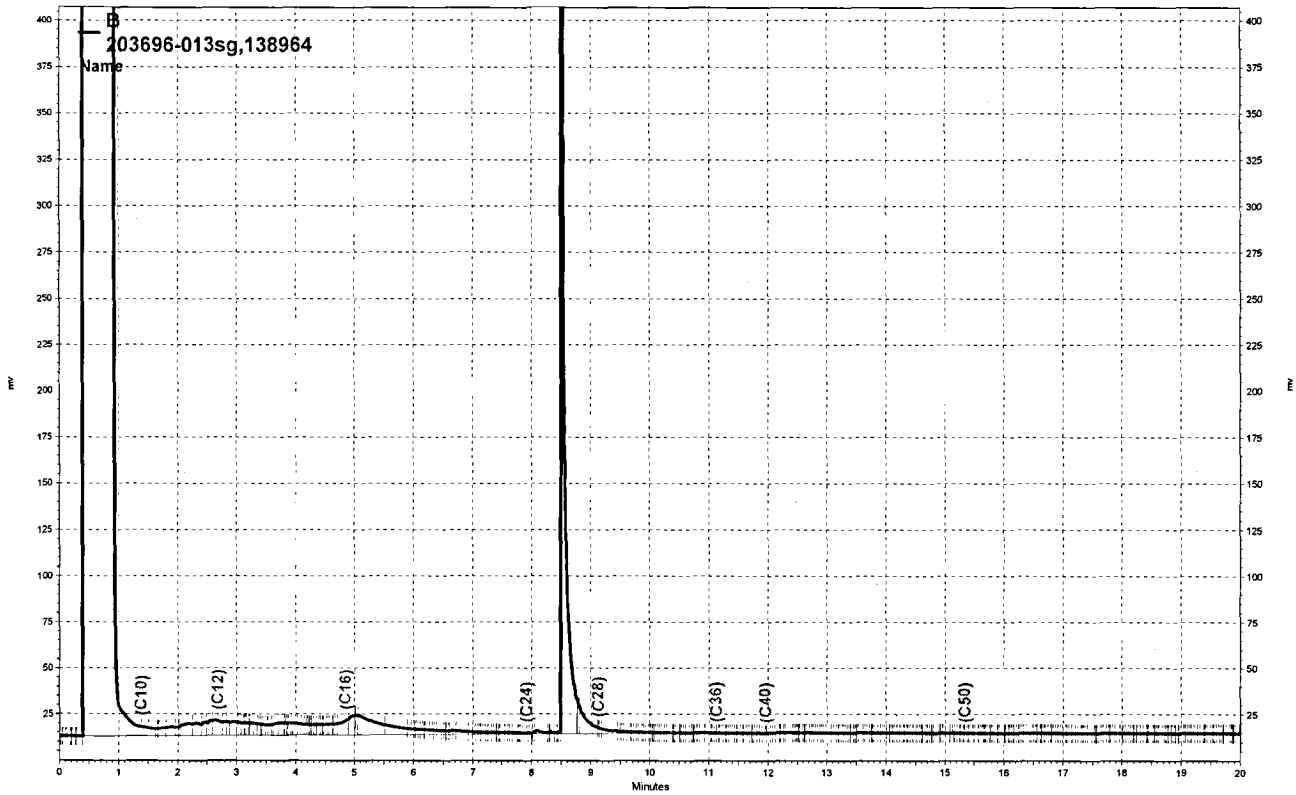

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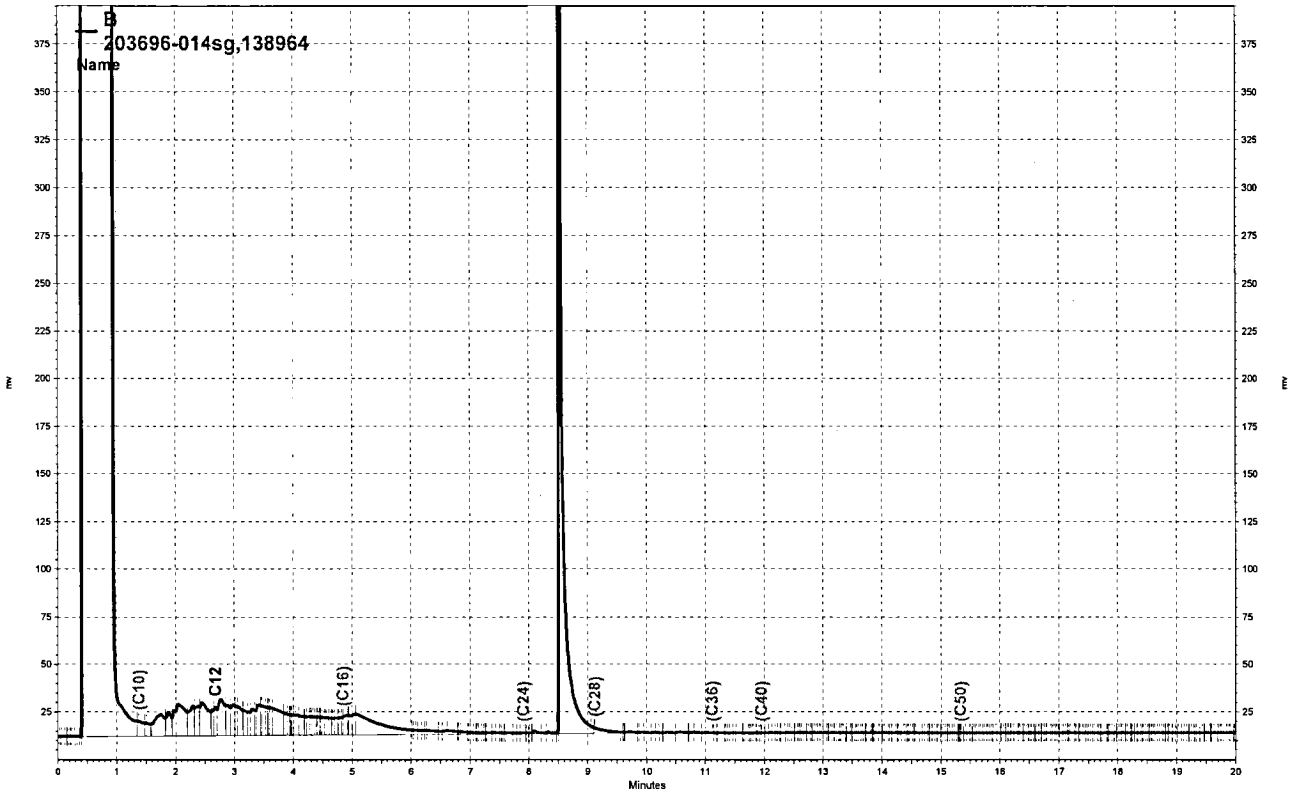

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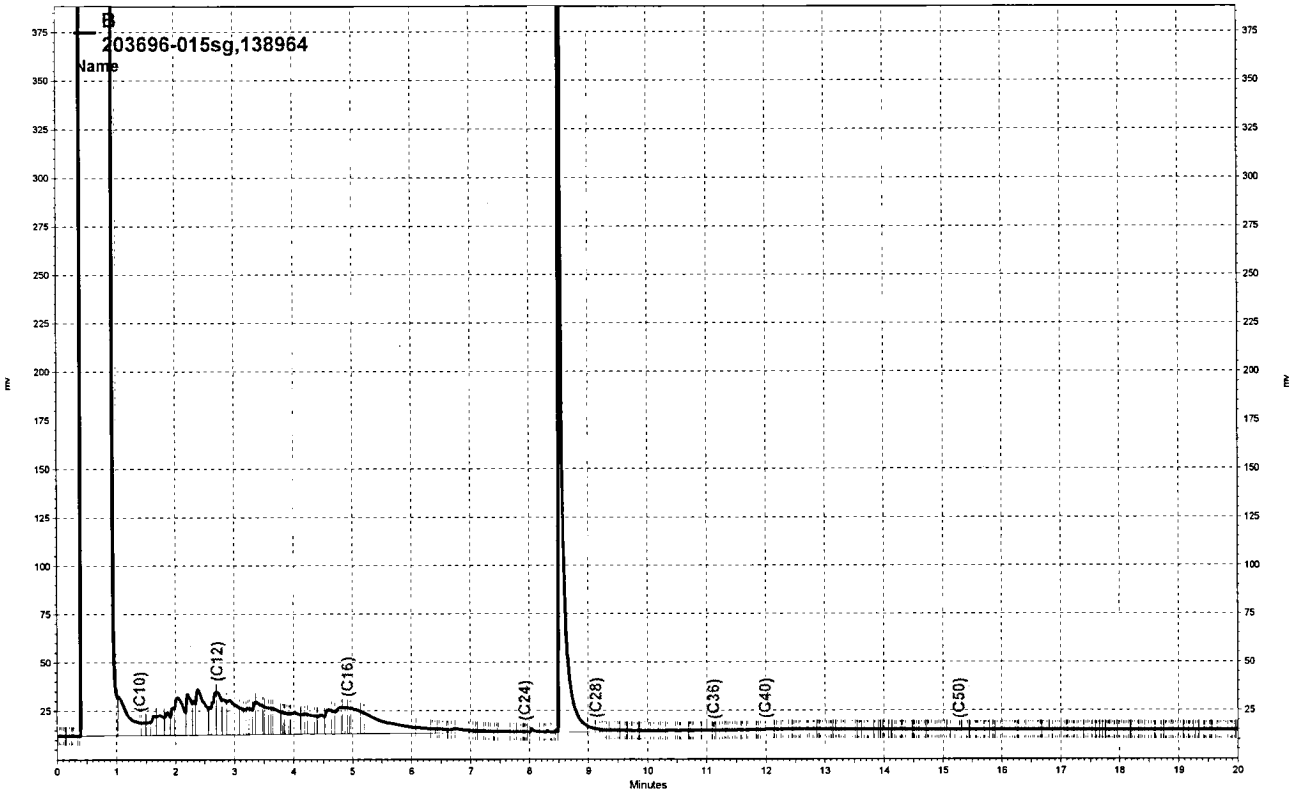

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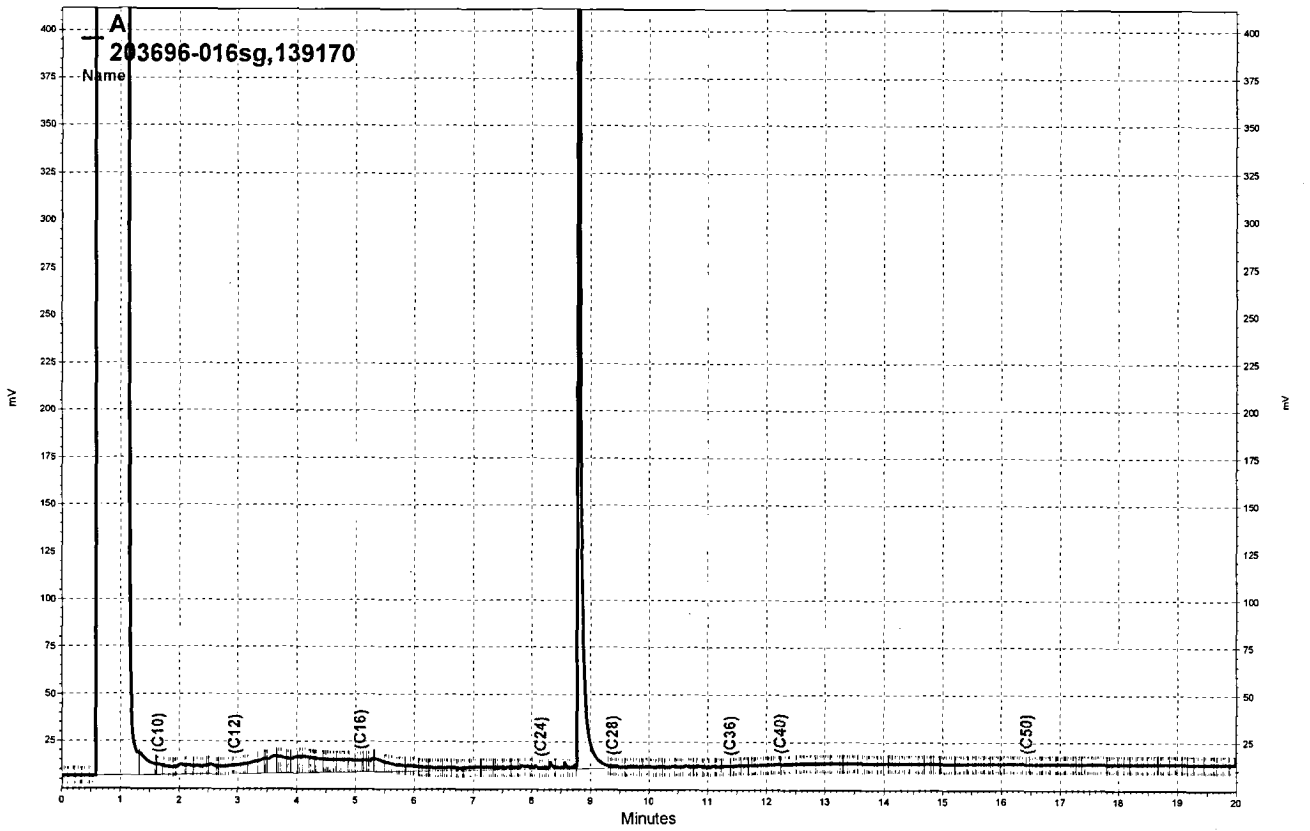

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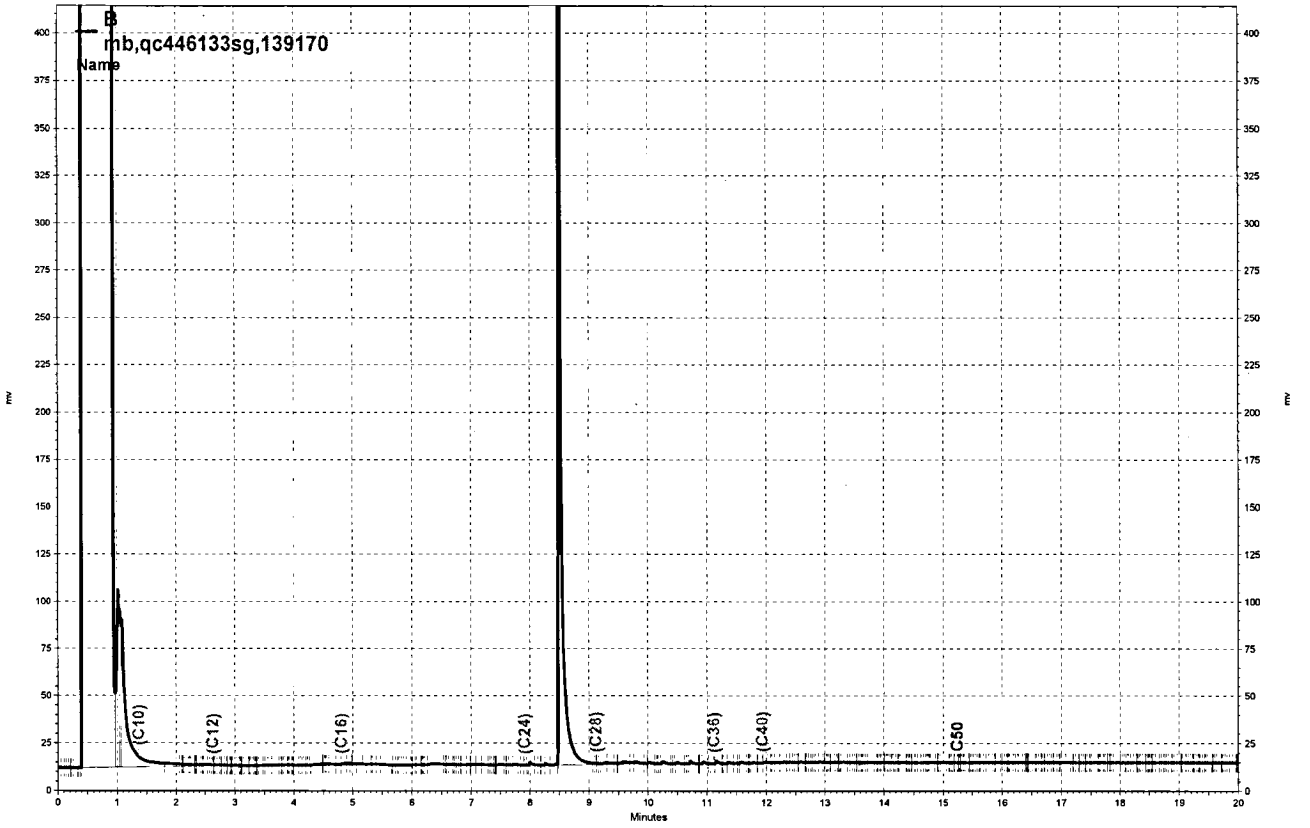

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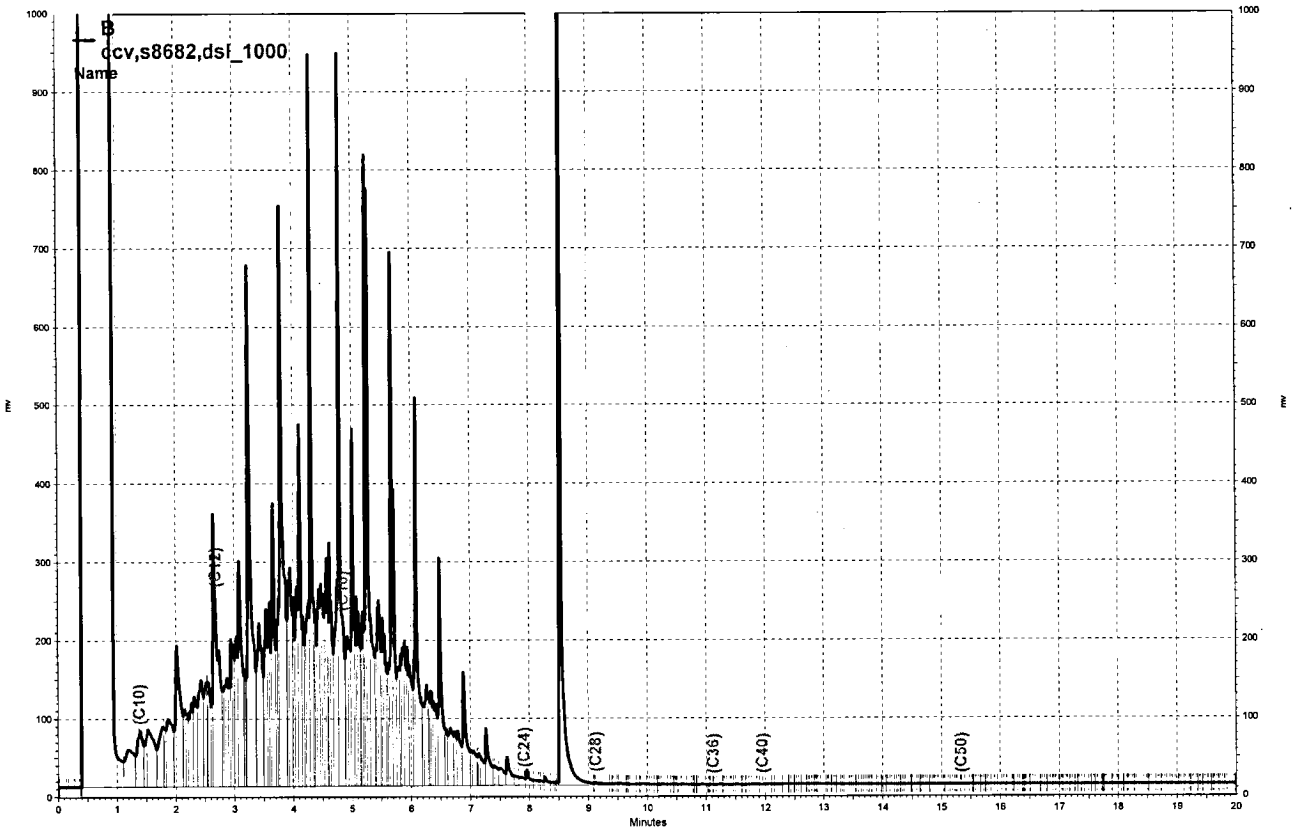

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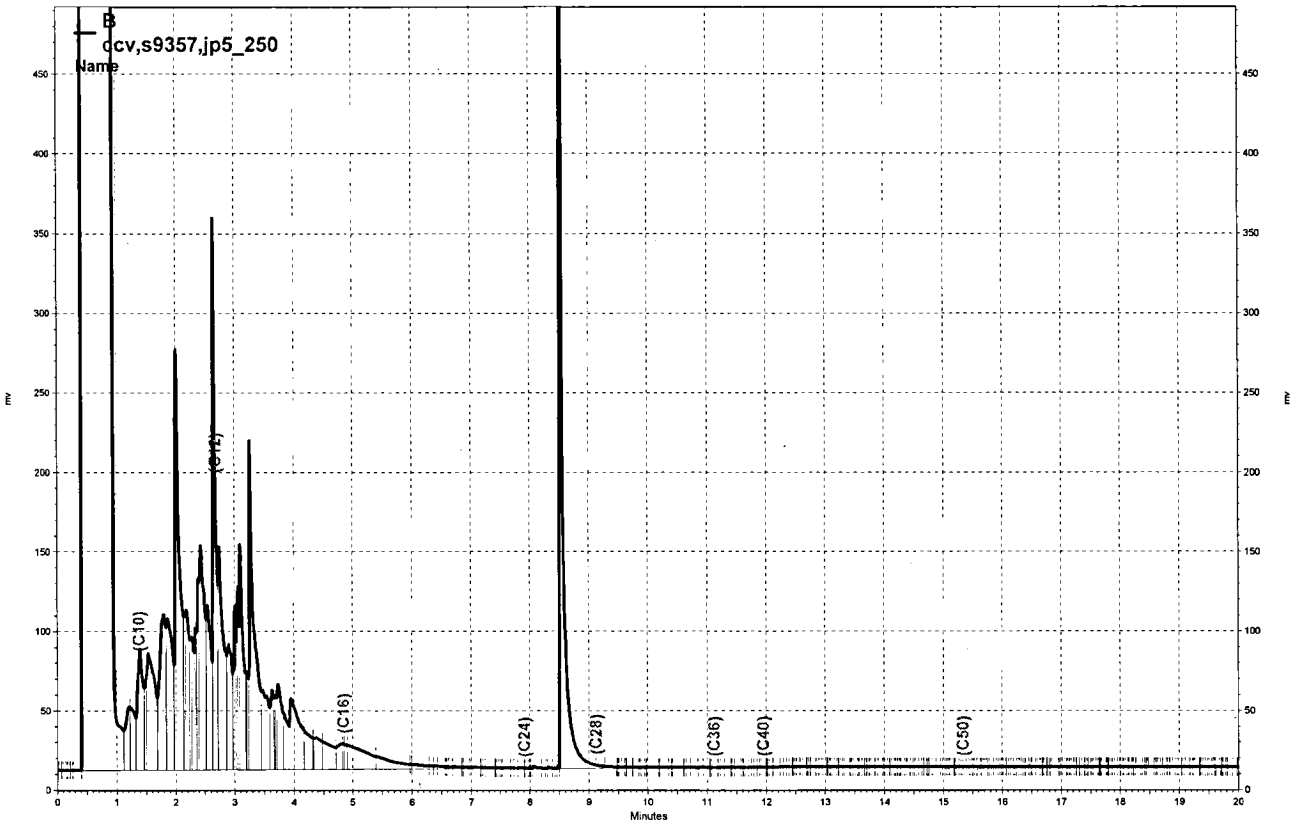

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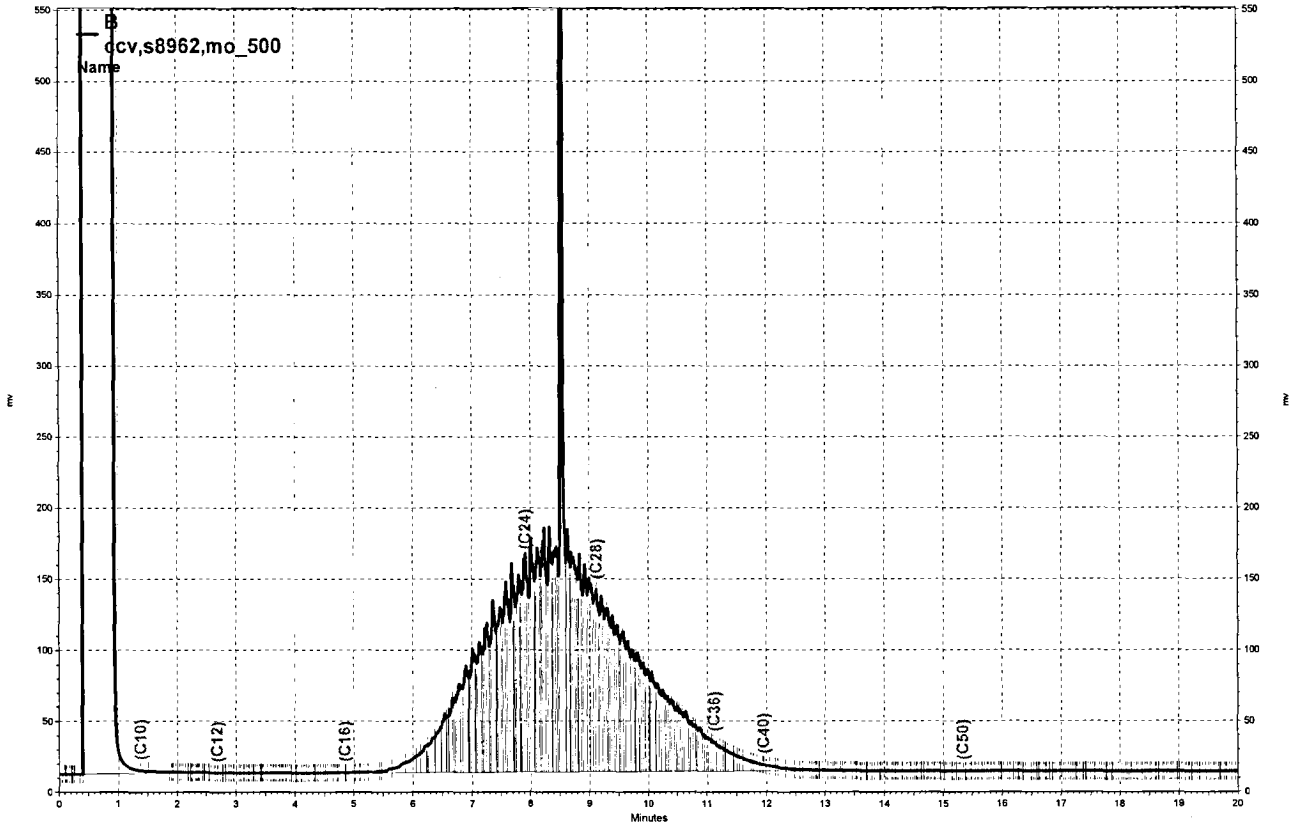

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CURTIS & TOMPKINS INITIAL CALIBRATION FOR 203696 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 168158089001
Units : mg/L

Name : DSL_111
Date : 18-APR-2008 21:08
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	109b006	168158089006	DSL_10	18-APR-2008 21:08	S7961
L2	109b007	168158089007	DSL_100	18-APR-2008 21:36	S7962
L3	109b008	168158089008	DSL_500	18-APR-2008 22:03	S7963
L4	109b009	168158089009	DSL_1000	18-APR-2008 22:31	S7964
L5	109b010	168158089010	DSL_5000	18-APR-2008 22:59	S7960
L6	109b011	168158089011	DSL_7500	18-APR-2008 23:26	S7965

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	37686	59927	62095	61067	61606	60008	AVRG		1.75E-5		57065	17	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C10-C24	10.00	-34	100.0	5	500.0	9	1000	7	5000	8	7500	5

CP 04/20/08 : dsl range c10-c20 is not usable.

Analyst: DNT Date: 04/20/08 Reviewer: LH Date: 04/21/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 168158089001

Name : DSL_111
Cal Date : 18-APR-2008

ICV 168158089013 (109b013 19-APR-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C24	57065	59082	500.0	517.7	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 203696 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 168158089002
Units : mg/L

Name : mo 111
Date : 19-APR-2008 01:45
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	109b016	168158089016	MO_50	19-APR-2008 01:45	S8270
L2	109b017	168158089017	MO_250	19-APR-2008 02:13	S8271
L3	109b018	168158089018	MO_500	19-APR-2008 02:41	S8272
L4	109b019	168158089019	MO_1000	19-APR-2008 03:09	S8273
L5	109b020	168158089020	MO_5000	19-APR-2008 03:37	S8269
L6	109b021	168158089021	MO_7500	19-APR-2008 04:05	S8274

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	43451	42454	38372	41487	37801	35415	AVRG		2.51E-5		39830	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	9	250.0	7	500.0	-4	1000	4	5000	-5	7500	-11

Analyst: DNT Date: 04/20/08 Reviewer: LH Date: 04/21/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 203696 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 168158089003
Units : mg/L

Name : hex_111
Date : 19-APR-2008 05:00
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	109b023	168158089023	HEX_5	19-APR-2008 05:00	S8093
L2	109b024	168158089024	HEX_10	19-APR-2008 05:28	S8094
L3	109b025	168158089025	HEX_25	19-APR-2008 05:56	S8095
L4	109b026	168158089026	HEX_50	19-APR-2008 06:24	S8096
L5	109b027	168158089027	HEX_100	19-APR-2008 06:51	S8097
L6	109b028	168158089028	HEX_200	19-APR-2008 07:19	S8098

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	55686	58954	62535	61904	61675	61736	AVRG		1.66E-5		60415	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	-8	10.00	-2	25.00	4	50.00	2	100.0	2	200.0	2

CP 04/20/08 : manual id for low point.

Analyst: DNT Date: 04/20/08 Reviewer: LH Date: 04/21/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 203696 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 168164432005
Units : mg/L

Name : jp5_114
Date : 24-APR-2008 01:13
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	114b034	168164432034	JP5_10	24-APR-2008 01:13	S8860
L2	114b035	168164432035	JP5_100	24-APR-2008 01:41	S8861
L3	114b036	168164432036	JP5_500	24-APR-2008 02:08	S8862
L4	114b037	168164432037	JP5_1500	24-APR-2008 02:36	S8863
L5	114b038	168164432038	JP5_2500	24-APR-2008 03:04	S8930 (2X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
JP-5 C10-C16	59140	54614	56025	56763	54961	AVRG		1.78E-5		56301	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
JP-5 C10-C16	10.00	5	100.0	-3	500.0	0	1500	1	2500	-2

Analyst: DNT Date: 04/27/08 Reviewer: LH Date: 04/28/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 203696 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 178033862001
Units : mg/L

Name : DSL
Date : 23-JAN-2008 16:34
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	023a009	178033862009	DSL_10	23-JAN-2008 16:34	S7961
L2	023a010	178033862010	DSL_100	23-JAN-2008 17:01	S7962
L3	023a011	178033862011	DSL_500	23-JAN-2008 17:29	S7963
L4	023a012	178033862012	DSL_1000	23-JAN-2008 17:56	S7964
L5	023a013	178033862013	DSL_5000	23-JAN-2008 18:23	S7960
L6	023a014	178033862014	DSL_7500	23-JAN-2008 18:51	S7965

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	71698	66343	66959	72614	69394	68052	AVRG		1.45E-5		69177	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C10-C24	10.00	4	100.0	-4	500.0	-3	1000	5	5000	0	7500	-2

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 203696 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 178033862001

Name : DSL
Cal Date : 23-JAN-2008

ICV 178033862016 (023a016 23-JAN-2008) stds: S8069 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C24	69177	75407	500.0	545.0	mg/L	9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 203696 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 178035189002
Units : mg/L

Name : MO_024
Date : 24-JAN-2008 16:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	024a014	178035189014	MO_50	24-JAN-2008 16:49	S6848
L2	024a016	178035189016	MO_500	24-JAN-2008 17:44	S6850
L3	024a017	178035189017	MO_1000	24-JAN-2008 18:11	S6851
L4	024a018	178035189018	MO_5000	24-JAN-2008 18:38	S6846
L5	024a019	178035189019	MO_7500	24-JAN-2008 19:06	S6847
L6	024a022	178035189022	MO_250	25-JAN-2008 12:03	S6849

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	41900	45900	44141	41943	40193	51101	AVRG		2.26E-5		44196	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.00	-5	500.0	4	1000	0	5000	-5	7500	-9	250.0	16

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 203696 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 178042195001
Units : mg/L

Name : JP5-5pt.
Date : 29-JAN-2008 14:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	029a015	178042195015	JP5_10	29-JAN-2008 14:23	S7352
L2	029a016	178042195016	JP5_100	29-JAN-2008 14:50	S7353
L3	029a017	178042195017	JP5_500	29-JAN-2008 15:18	S7354
L4	029a018	178042195018	JP5_1500	29-JAN-2008 15:45	S7355
L5	029a019	178042195019	JP5_5000	29-JAN-2008 16:13	S7351

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
JP-5 C10-C16	63749	59822	58732	64782	66709	AVRG		1.59E-5		62759	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
JP-5 C10-C16	10.00	2	100.0	-5	500.0	-6	1500	3	5000	6

Analyst: ATL Date: 01/29/08 Reviewer: LH Date: 01/30/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 203696 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 178154945001
Units : mg/L

Name : HEX_107
Date : 17-APR-2008 21:05
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	107a061	178154945061	HEX_5	17-APR-2008 21:05	S8093
L2	107a062	178154945062	HEX_10	17-APR-2008 21:32	S8094
L3	107a063	178154945063	HEX_25	17-APR-2008 21:59	S8095
L4	107a064	178154945064	HEX_50	17-APR-2008 22:27	S8096
L5	107a065	178154945065	HEX_100	17-APR-2008 22:54	S8097
L6	107a066	178154945066	HEX_200	17-APR-2008 23:22	S8098

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	66521	66686	69802	69946	70283	69895	AVRG		1.45E-5		68856	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	-3	10.00	-3	25.00	1	50.00	2	100.0	2	200.0	2

Analyst: JDG Date: 04/18/08 Reviewer: LH Date: 04/18/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : DSL_1000 IDF : 1.0
Seqnum : 168231348044 File : 160b044 Time : 09-JUN-2008 13:29
Standards: S8682

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	168158089001	18-APR-2008	57065	59968	1000	1051	mg/L	5	15	
Hexacosane	168158089003	19-APR-2008	60415	55733	50.00	46.13	mg/L	-8	15	

Analyst: ATL Date: 06/10/08 Reviewer: EAH Date: 06/10/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168231348045 File : 160b045 Time : 09-JUN-2008 13:57
Standards: S8962

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	168158089002	19-APR-2008	39830	36465	500.0	457.8	mg/L	-8	15	
Hexacosane	168158089003	19-APR-2008	60415	61049	50.00	50.52	mg/L	1	15	

Analyst: ATL Date: 06/16/08 Reviewer: EAH Date: 06/16/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : JP5_250 IDF : 1.0
Seqnum : 168231348047 File : 160b047 Time : 09-JUN-2008 14:53
Standards: S9357

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
JP-5 C10-C16	168164432005	24-APR-2008	56301	54335	250.0	241.3	mg/L	-3	15	
Hexacosane	168158089003	19-APR-2008	60415	57409	50.00	47.51	mg/L	-5	15	

Analyst: ATL Date: 06/16/08 Reviewer: EAH Date: 06/16/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : DSL_250 IDF : 1.0
Seqnum : 168231348059 File : 160b059 Time : 09-JUN-2008 20:30
Standards: S8680

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	168158089001	18-APR-2008	57065	63061	250.0	276.3	mg/L	11	15	
Hexacosane	168158089003	19-APR-2008	60415	56897	50.00	47.09	mg/L	-6	15	

Analyst: ATL Date: 06/10/08 Reviewer: EAH Date: 06/10/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168231348060 File : 160b060 Time : 09-JUN-2008 20:59
Standards: S8962

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	168158089002	19-APR-2008	39830	36460	500.0	457.7	mg/L	-8	15	
Hexacosane	168158089003	19-APR-2008	60415	59805	50.00	49.49	mg/L	-1	15	

Analyst: ATL Date: 06/11/08 Reviewer: EAH Date: 06/11/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : JP5_250 IDF : 1.0
Seqnum : 168231348061 File : 160b061 Time : 09-JUN-2008 21:27
Standards: S9357

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
JP-5 C10-C16	168164432005	24-APR-2008	56301	55507	250.0	246.5	mg/L	-1	15	
Hexacosane	168158089003	19-APR-2008	60415	58464	50.00	48.39	mg/L	-3	15	

Analyst: ATL Date: 06/11/08 Reviewer: EAH Date: 06/11/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : DSL 1000 IDF : 1.0
Seqnum : 168231348073 File : 160b073 Time : 10-JUN-2008 03:04
Standards: S8682

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	168158089001	18-APR-2008	57065	60024	1000	1052	mg/L	5	15	
Hexacosane	168158089003	19-APR-2008	60415	55060	50.00	45.57	mg/L	-9	15	

Analyst: ATL Date: 06/10/08 Reviewer: EAH Date: 06/11/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168231348074 File : 160b074 Time : 10-JUN-2008 03:31
Standards: S8962

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	168158089002	19-APR-2008	39830	37278	500.0	468.0	mg/L	-6	15	
Hexacosane	168158089003	19-APR-2008	60415	61715	50.00	51.08	mg/L	2	15	

Analyst: ATL Date: 06/10/08 Reviewer: EAH Date: 06/11/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : JP5_250 IDF : 1.0
Seqnum : 168231348075 File : 160b075 Time : 10-JUN-2008 03:59
Standards: S9357

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
JP-5 C10-C16	168164432005	24-APR-2008	56301	54854	250.0	243.6	mg/L	-3	15	
Hexacosane	168158089003	19-APR-2008	60415	56104	50.00	46.43	mg/L	-7	15	

Analyst: ATL Date: 06/10/08 Reviewer: EAH Date: 06/11/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : DSL 250 IDF : 1.0
Seqnum : 168231348089 File : 160b089 Time : 10-JUN-2008 10:34
Standards: S8680

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	168158089001	18-APR-2008	57065	62583	250.0	274.2	mg/L	10	15	
Hexacosane	168158089003	19-APR-2008	60415	54879	50.00	45.42	mg/L	-9	15	

Analyst: ATL Date: 06/10/08 Reviewer: EAH Date: 06/10/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168231348090 File : 160b090 Time : 10-JUN-2008 11:03
Standards: S8962

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	168158089002	19-APR-2008	39830	34380	500.0	431.6	mg/L	-14	15	
Hexacosane	168158089003	19-APR-2008	60415	58257	50.00	48.21	mg/L	-4	15	

Analyst: DNT Date: 06/11/08 Reviewer: EAH Date: 06/11/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : JP5_250 IDF : 1.0
Seqnum : 168231348091 File : 160b091 Time : 10-JUN-2008 11:31
Standards: S9357

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
JP-5 C10-C16	168164432005	24-APR-2008	56301	58358	250.0	259.1	mg/L	4	15	
Hexacosane	168158089003	19-APR-2008	60415	60258	50.00	49.87	mg/L	0	15	

Analyst: ATL Date: 06/16/08 Reviewer: EAH Date: 06/16/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : DSL_250 IDF : 1.0
Seqnum : 168234084100 File : 162b100 Time : 13-JUN-2008 02:11
Standards: S8680

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	168158089001	18-APR-2008	57065	62251	250.0	272.7	mg/L	9	15	
Hexacosane	168158089003	19-APR-2008	60415	60365	50.00	49.96	mg/L	0	15	

Analyst: ATL Date: 06/13/08 Reviewer: JDG Date: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168234084101 File : 162b101 Time : 13-JUN-2008 02:40
Standards: S8962

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	168158089002	19-APR-2008	39830	40029	500.0	502.5	mg/L	0	15	
Hexacosane	168158089003	19-APR-2008	60415	63990	50.00	52.96	mg/L	6	15	

Analyst: ATL Date: 06/13/08 Reviewer: JDG Date: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : JP5_250 IDF : 1.0
Seqnum : 168234084102 File : 162b102 Time : 13-JUN-2008 03:08
Standards: S9357

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
JP-5 C10-C16	168164432005	24-APR-2008	56301	58976	250.0	261.9	mg/L	5	15	
Hexacosane	168158089003	19-APR-2008	60415	65608	50.00	54.30	mg/L	9	15	

Analyst: JDG Date: 06/13/08 * Reviewer: ATL Date: 06/16/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : JETA 250 IDF : 1.0
Seqnum : 168234084119 File : 162b119 Time : 13-JUN-2008 11:23
Cal : 168158089003 Caldate : 19-APR-2008
Standards: S8960

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Hexacosane	60415	63137	50.00	52.25	mg/L	5	15	

Analyst: ATL Date: 06/13/08 Reviewer: JDG Date: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : DSL 1000 IDF : 1.0
Seqnum : 168234084122 File : 162b122 Time : 13-JUN-2008 12:49
Standards: S8682

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	168158089001	18-APR-2008	57065	64301	1000	1127	mg/L	13	15	
Hexacosane	168158089003	19-APR-2008	60415	63682	50.00	52.70	mg/L	5	15	

Analyst: JDG Date: 06/13/08 Reviewer: ATL Date: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : MO_500 IDF : 1.0
Seqnum : 168234084123.1 File : 162b123 Time : 13-JUN-2008 13:18
Standards: S8962

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	168158089002	19-APR-2008	39830	38656	500.0	485.3	mg/L	-3	15	
Hexacosane	168158089003	19-APR-2008	60415	64775	50.00	53.61	mg/L	7	15	

JDG: 06/13/08 * ATL: 06/13/08 CW: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : JP5_250 IDF : 1.0
Seqnum : 168234084124 File : 162b124 Time : 13-JUN-2008 13:46
Standards: S9357

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
JP-5 C10-C16	168164432005	24-APR-2008	56301	57812	250.0	256.7	mg/L	3	15	
Hexacosane	168158089003	19-APR-2008	60415	64485	50.00	53.37	mg/L	7	15	

Analyst: ATL Date: 06/13/08 Reviewer: JDG Date: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : DSL 250 IDF : 1.0
Seqnum : 168234084128 File : 162b128 Time : 13-JUN-2008 15:45
Standards: S8680

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	168158089001	18-APR-2008	57065	55778	250.0	244.4	mg/L	-2	15	
Hexacosane	168158089003	19-APR-2008	60415	53214	50.00	44.04	mg/L	-12	15	

Analyst: DNT Date: 06/15/08 Reviewer: JDG Date: 06/16/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC15B Run Name : DSL 1000 IDF : 1.0
Seqnum : 168234084160 File : 162b160 Time : 13-JUN-2008 23:00
Standards: S8682

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	168158089001	18-APR-2008	57065	62827	1000	1101	mg/L	10	15	
Hexacosane	168158089003	19-APR-2008	60415	61203	50.00	50.65	mg/L	1	15	

Analyst: DNT Date: 06/15/08 Reviewer: JDG Date: 06/16/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
Seqnum : 178237144004 File : 165a004 Time : 12-JUN-2008 17:45
Standards: S8680

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	178033862001	23-JAN-2008	69177	63833	250.0	230.7	mg/L	-8	15	
Hexacosane	178154945001	17-APR-2008	68856	63736	50.00	46.28	mg/L	-7	15	

Analyst: ATL Date: 06/13/08 Reviewer: JDG Date: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178237144005 File : 165a005 Time : 12-JUN-2008 18:13
Standards: S8962

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	40796	500.0	461.5	mg/L	-8	15	
Hexacosane	178154945001	17-APR-2008	68856	67107	50.00	48.73	mg/L	-3	15	

Analyst: ATL Date: 06/13/08 Reviewer: JDG Date: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC17A Run Name : JP5_250 IDF : 1.0
Seqnum : 178237144006 File : 165a006 Time : 12-JUN-2008 18:41
Standards: S9357

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
JP-5 C10-C16	178042195001	29-JAN-2008	62759	60343	250.0	240.4	mg/L	-4	15	
Hexacosane	178154945001	17-APR-2008	68856	67867	50.00	49.28	mg/L	-1	15	

Analyst: ATL Date: 06/13/08 Reviewer: JDG Date: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
Seqnum : 178237144018 File : 165a018 Time : 13-JUN-2008 01:19
Standards: S8682

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	178033862001	23-JAN-2008	69177	71263	1000	1030	mg/L	3	15	
Hexacosane	178154945001	17-APR-2008	68856	74143	50.00	53.84	mg/L	8	15	

Analyst: ATL Date: 06/13/08 Reviewer: JDG Date: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
Seqnum : 178237144019 File : 165a019 Time : 13-JUN-2008 01:46
Standards: S8962

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178035189002	24-JAN-2008	44196	46043	500.0	520.9	mg/L	4	15	
Hexacosane	178154945001	17-APR-2008	68856	78894	50.00	57.29	mg/L	15	15	

Analyst: ATL Date: 06/13/08 Reviewer: JDG Date: 06/13/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203696 GCSV Water
EPA 8015B

Inst : GC17A Run Name : JP5_250 IDF : 1.0
Seqnum : 178237144020 File : 165a020 Time : 13-JUN-2008 02:14
Standards: S9357

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
JP-5 C10-C16	178042195001	29-JAN-2008	62759	62314	250.0	248.2	mg/L	-1	15	
Hexacosane	178154945001	17-APR-2008	68856	72068	50.00	52.33	mg/L	5	15	

Analyst: ATL Date: 06/13/08 Reviewer: JDG Date: 06/13/08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168158089

Instrument : GC15B
Method : EPA 8015B

Begun : 04/18/08 18:49
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	109b001	X	IB			04/18/08 18:49	1.0		
002	109b002	X	IB			04/18/08 19:17	1.0		
003	109b003	X	IB			04/18/08 19:44	1.0		
004	109b004	CMARKER	C8-C50			04/18/08 20:12	1.0	1	
005	109b005	IB	CALIB			04/18/08 20:40	1.0		
006	109b006	ICAL	DSL_10			04/18/08 21:08	1.0	2	
007	109b007	ICAL	DSL_100			04/18/08 21:36	1.0	3	
008	109b008	ICAL	DSL_500			04/18/08 22:03	1.0	4	
009	109b009	ICAL	DSL_1000			04/18/08 22:31	1.0	5	
010	109b010	ICAL	DSL_5000			04/18/08 22:59	1.0	6	
011	109b011	ICAL	DSL_7500			04/18/08 23:26	1.0	7	
012	109b012	IB	CALIB			04/18/08 23:54	1.0		
013	109b013	ICV	DSL_500			04/19/08 00:22	1.0	8	
014	109b014	X	ICV			04/19/08 00:50	1.0	8	
015	109b015	IB	CALIB			04/19/08 01:17	1.0		
016	109b016	ICAL	MO_50			04/19/08 01:45	1.0	9	
017	109b017	ICAL	MO_250			04/19/08 02:13	1.0	10	
018	109b018	ICAL	MO_500			04/19/08 02:41	1.0	11	
019	109b019	ICAL	MO_1000			04/19/08 03:09	1.0	12	
020	109b020	ICAL	MO_5000			04/19/08 03:37	1.0	13	
021	109b021	ICAL	MO_7500			04/19/08 04:05	1.0	14	
022	109b022	IB	CALIB			04/19/08 04:32	1.0		
023	109b023	ICAL	HEX_5			04/19/08 05:00	1.0	15	
024	109b024	ICAL	HEX_10			04/19/08 05:28	1.0	16	
025	109b025	ICAL	HEX_25			04/19/08 05:56	1.0	17	
026	109b026	ICAL	HEX_50			04/19/08 06:24	1.0	18	
027	109b027	ICAL	HEX_100			04/19/08 06:51	1.0	19	
028	109b028	ICAL	HEX_200			04/19/08 07:19	1.0	20	
029	109b029	IB	CALIB			04/19/08 07:47	1.0		

DNT 04/20/08 : I verified that the vials matched the LIMS entries for runs 1-29.

L 06/04/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Analyst: DNT Date: 04/20/08 Reviewer: LH Date: 04/21/08

Standards used: 1=S8590 2=S7961 3=S7962 4=S7963 5=S7964 6=S7960 7=S7965 8=S8069 9=S8270 10=S8271 11=S8272 12=S8273 13=S8269 14=S8274 15=S8093 16=S8094 17=S8095 18=S8096 19=S8097 20=S8098

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168164432

Instrument : GC15B
Method : EPA 8015B

Begun : 04/23/08 04:32
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	114b001	X	PRIMER				04/23/08 04:32	1.0		
002	114b002	X	IB				04/23/08 05:00	1.0		
003	114b003	X	CMARKER				04/23/08 05:28	1.0	1	
004	114b004	CCV	DSL_250				04/23/08 05:56	1.0	2	
005	114b005	CCV	MO_500				04/23/08 06:23	1.0	3	
006	114b006	LCS	QC438333	S	Soil	137281	04/23/08 07:23	1.0		
007	114b007	BLANK	QC438332	S	Soil	137281	04/23/08 07:51	1.0		
008	114b008	MSS	202650-074	S	Soil	137281	04/23/08 08:19	1.0		
009	114b009	MS	QC438334	S	Soil	137281	04/23/08 08:46	1.0		
010	114b010	MSD	QC438335	S	Soil	137281	04/23/08 09:14	1.0		
011	114b011	X	IB				04/23/08 09:42	1.0		
012	114b012	SAMPLE	202634-001	S	Miscell.	137281	04/23/08 10:10	1.0		
013	114b013	SAMPLE	202650-081	S	Soil	137281	04/23/08 10:37	1.0		
014	114b014	SAMPLE	202650-085	S	Soil	137281	04/23/08 11:05	1.0		
015	114b015	SAMPLE	202650-086	S	Soil	137281	04/23/08 11:32	1.0		
016	114b016	CCV	DSL_500				04/23/08 12:26	1.0	4	
017	114b017	CCV	MO_500				04/23/08 12:54	1.0	3	
018	114b018	X	TANKCHECK				04/23/08 14:12	1.0		
019	114b019	SAMPLE	200298-009		Water	135600	04/23/08 15:19	1.0		
020	114b020	X	IB				04/23/08 18:42	1.0		
021	114b021	X	IB				04/23/08 19:10	1.0		
023	114b023	X	IB				04/23/08 20:06	1.0		
024	114b024	CMARKER	C8-C50				04/23/08 20:34	1.0	1	
025	114b025	IB	CALIB				04/23/08 21:02	1.0		
026	114b026	ICAL	JET_10				04/23/08 21:30	1.0	5	
027	114b027	ICAL	JET_100				04/23/08 21:58	1.0	6	
028	114b028	ICAL	JET_500				04/23/08 22:26	1.0	7	
029	114b029	ICAL	JET_1000				04/23/08 22:53	1.0	8	
030	114b030	ICAL	JET_2000				04/23/08 23:21	1.0	9	
031	114b031	ICAL	JET_3000				04/23/08 23:49	1.0	10	
032	114b032	ICAL	JET_5000				04/24/08 00:17	1.0	11	
033	114b033	IB	CALIB				04/24/08 00:45	1.0		
034	114b034	ICAL	JP5_10				04/24/08 01:13	1.0	12	
035	114b035	ICAL	JP5_100				04/24/08 01:41	1.0	13	
036	114b036	ICAL	JP5_500				04/24/08 02:08	1.0	14	
037	114b037	ICAL	JP5_1500				04/24/08 02:36	1.0	15	
038	114b038	ICAL	JP5_2500				04/24/08 03:04	1.0	16	
039	114b039	IB	CALIB				04/24/08 03:31	1.0		
040	114b040	ICAL	BUNK_50				04/24/08 03:59	1.0	17	
041	114b041	ICAL	BUNK_500				04/24/08 04:27	1.0	18	
042	114b042	ICAL	BUNK_1250				04/24/08 04:54	1.0	19	
043	114b043	ICAL	BUNK_2500				04/24/08 05:22	1.0	20	
044	114b044	ICAL	BUNK_5000				04/24/08 05:49	1.0	21	
045	114b045	IB	CALIB				04/24/08 06:17	1.0		

JDG 04/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 45.

Standards used: 1=S8590 2=S8680 3=S8731 4=S8681 5=S8158 6=S8159 7=S8160 8=S8161 9=S8162 10=S8163 11=S8157 12=S8860 13=S8861 14=S8862 15=S8863 16=S8930 17=S8998 18=S8999 19=S9000 20=S9001 21=S8997

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168231348

Instrument : GC15B
Method : EPA 8015B

Begun : 06/08/08 15:48
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	160b001	X	PRIMER				06/08/08 15:48	1.0		
002	160b002	X	IB				06/08/08 16:16	1.0		
003	160b003	X	CMARKER				06/08/08 16:44	1.0	1	
004	160b004	CCV	DSL_250				06/08/08 17:11	1.0	2	
005	160b005	CCV	MO_500				06/08/08 17:39	1.0	3	
006	160b006	BLANK	QC445082	S	Water	138927	06/08/08 18:07	1.0		
007	160b007	CCV	JP5_250				06/08/08 18:35	1.0	4	
008	160b008	CCV	JP8_500				06/08/08 19:03	1.0	5	
009	160b009	BLANK	QC445082		Water	138927	06/08/08 19:45	1.0		
010	160b010	MS	QC445207	S	Water	138961	06/08/08 20:13	1.0		
011	160b011	MSD	QC445208	S	Water	138961	06/08/08 20:41	1.0		
012	160b012	SAMPLE	203665-012	S	Soil	138878	06/08/08 21:09	1.0		
013	160b013	BLANK	QC445079		Water	138926	06/08/08 22:05	1.0		
014	160b014	SAMPLE	203569-002		Water	138926	06/08/08 23:12	1.0		
015	160b015	SAMPLE	203569-003		Water	138926	06/08/08 23:39	1.0		
[illegible]	160b016	SAMPLE	203569-004		Water	138926	06/09/08 00:07	1.0		
017	160b017	SAMPLE	203569-005		Water	138926	06/09/08 00:35	1.0		
018	160b018	CCV	DSL_1000				06/09/08 01:03	1.0	6	
019	160b019	CCV	MO_500				06/09/08 01:31	1.0	3	
020	160b020	CCV	JP5_250				06/09/08 01:59	1.0	4	
021	160b021	CCV	JP8_500				06/09/08 02:27	1.0	5	
022	160b022	X	CCV				06/09/08 02:55	1.0	6	
023	160b023	X	CCV				06/09/08 03:23	1.0	3	
024	160b024	X	CCV				06/09/08 03:51	1.0	4	
025	160b025	X	CCV				06/09/08 04:19	1.0	5	
026	160b026	SAMPLE	203569-006		Water	138926	06/09/08 04:47	1.0		
027	160b027	SAMPLE	203569-007		Water	138926	06/09/08 05:15	1.0		
028	160b028	SAMPLE	203569-008		Water	138926	06/09/08 05:43	1.0		
029	160b029	SAMPLE	203569-009		Water	138926	06/09/08 06:11	1.0		
030	160b030	SAMPLE	203569-010		Water	138926	06/09/08 06:39	1.0		
031	160b031	SAMPLE	203569-011		Water	138926	06/09/08 07:07	1.0		
032	160b032	SAMPLE	203569-012		Water	138926	06/09/08 07:35	1.0		
033	160b033	SAMPLE	203569-013		Water	138926	06/09/08 08:03	1.0		
034	160b034	SAMPLE	203569-014		Water	138926	06/09/08 08:31	1.0		
035	160b035	SAMPLE	203804-001	S	Soil	139016	06/09/08 08:59	20.0		3:BUNKC:12-40=11000
036	160b036	X	CMARKER				06/09/08 09:28	1.0	1	
037	160b037	CCV	DSL_250				06/09/08 09:55	1.0	2	
038	160b038	CCV	MO_500				06/09/08 10:24	1.0	3	
039	160b039	CCV	JP5_250				06/09/08 10:52	1.0	4	
040	160b040	CCV	JP8_500				06/09/08 11:20	1.0	5	
041	160b041	SAMPLE	203655-001	S	Water	138861	06/09/08 11:59	1.0		15:BUNKC:12-40=97000
042	160b042	X	IB				06/09/08 12:27	1.0		
043	160b043	BLANK	QC445079	S	Water	138926	06/09/08 12:55	1.0		
044	160b044	CCV	DSL_1000				06/09/08 13:29	1.0	6	
045	160b045	CCV	MO_500				06/09/08 13:57	1.0	3	
046	160b046	X	CCV				06/09/08 14:25	1.0	3	
047	160b047	CCV	JP5_250				06/09/08 14:53	1.0	4	
048	160b048	CCV	JP8_500				06/09/08 15:21	1.0	5	
049	160b049	SAMPLE	203656-003	S	Water	138861	06/09/08 15:49	1.0		
050	160b050	SAMPLE	203656-004	S	Water	138861	06/09/08 16:18	1.0		3:BUNKC:12-40=7100
051	160b051	SAMPLE	203696-001	S	Water	138964	06/09/08 16:46	1.0		
052	160b052	SAMPLE	203696-002	S	Water	138964	06/09/08 17:14	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168231348

Instrument : GC15B
Method : EPA 8015B

Begun : 06/08/08 15:48
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	160b053	SAMPLE	203696-003	S	Water	138964	06/09/08 17:42	1.0		
054	160b054	SAMPLE	203696-004	S	Water	138964	06/09/08 18:10	1.0		
055	160b055	SAMPLE	203696-005	S	Water	138964	06/09/08 18:38	1.0		
056	160b056	SAMPLE	203696-006	S	Water	138964	06/09/08 19:06	1.0		
057	160b057	SAMPLE	203696-007	S	Water	138964	06/09/08 19:34	1.0		
058	160b058	SAMPLE	203696-008	S	Water	138964	06/09/08 20:02	1.0		
059	160b059	CCV	DSL_250				06/09/08 20:30	1.0	2	
060	160b060	CCV	MO_500				06/09/08 20:59	1.0	3	
061	160b061	CCV	JP5_250				06/09/08 21:27	1.0	4	
062	160b062	BLANK	QC445224	S	Water	138964	06/09/08 21:55	1.0		
063	160b063	LCS	QC445225	S	Water	138964	06/09/08 22:23	1.0		
064	160b064	MSS	203696-014	S	Water	138964	06/09/08 22:51	1.0		
065	160b065	MS	QC445226	S	Water	138964	06/09/08 23:20	1.0		
066	160b066	MSD	QC445227	S	Water	138964	06/09/08 23:48	1.0		
067	160b067	SAMPLE	203696-009	S	Water	138964	06/10/08 00:16	1.0		
068	160b068	SAMPLE	203696-010	S	Water	138964	06/10/08 00:44	1.0		
069	160b069	SAMPLE	203696-011	S	Water	138964	06/10/08 01:12	1.0		
070	160b070	SAMPLE	203696-012	S	Water	138964	06/10/08 01:40	1.0		
071	160b071	SAMPLE	203696-013	S	Water	138964	06/10/08 02:08	1.0		
072	160b072	CMARKER	C8-C50				06/10/08 02:36	1.0	1	
073	160b073	CCV	DSL_1000				06/10/08 03:04	1.0	6	
074	160b074	CCV	MO_500				06/10/08 03:31	1.0	3	
075	160b075	CCV	JP5_250				06/10/08 03:59	1.0	4	
076	160b076	X	CCV				06/10/08 04:27	1.0	6	
077	160b077	X	CCV				06/10/08 04:56	1.0	3	
078	160b078	X	CCV				06/10/08 05:24	1.0	4	
079	160b079	SAMPLE	203690-011		Water	138961	06/10/08 05:52	1.0		4:BUNKC:12-40=18000
080	160b080	X	IB				06/10/08 06:20	1.0		
081	160b081	SAMPLE	203696-015	S	Water	138964	06/10/08 06:48	1.0		
082	160b082	SAMPLE	203769-004	S	Water	139000	06/10/08 07:16	1.0		
083	160b083	SAMPLE	203769-005	S	Water	139000	06/10/08 07:45	1.0		
084	160b084	SAMPLE	203769-006	S	Water	139000	06/10/08 08:13	1.0		
085	160b085	SAMPLE	203769-007	S	Water	139000	06/10/08 08:42	1.0		
086	160b086	SAMPLE	203769-008	S	Water	139000	06/10/08 09:10	1.0		
087	160b087	SAMPLE	203769-011	S	Water	139000	06/10/08 09:38	1.0		
088	160b088	SAMPLE	203771-003	S	Water	139000	06/10/08 10:06	1.0		
089	160b089	CCV	DSL_250				06/10/08 10:34	1.0	2	
090	160b090	CCV	MO_500				06/10/08 11:03	1.0	3	
091	160b091	CCV	JP5_250				06/10/08 11:31	1.0	4	
092	160b092	LCS	QC445411	S	Water	139000	06/10/08 11:59	1.0		
093	160b093	X	CMARKER				06/10/08 12:27	1.0	1	
094	160b094	CCV	DSL_1000				06/10/08 12:56	1.0	6	

ATL 06/09/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

CP 06/09/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 31 through 41.

ATL 06/10/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 42 through 94.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168231348

Instrument : GC15B
Method : EPA 8015B

Begun : 06/08/08 15:48
SOP Version : TEH_rv13

Standards used: 1=S8590 2=S8680 3=S8962 4=S9357 5=S8117 6=S8682

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168234084

Instrument : GC15B
Method : EPA 8015B

Begun : 06/10/08 13:24
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	162b001	X	IB				06/10/08 13:24	1.0		
002	162b002	X	CMARKER				06/10/08 13:52	1.0	1	
003	162b003	CCV	DSL_250				06/10/08 14:20	1.0	2	
004	162b004	CCV	MO_500				06/10/08 14:48	1.0	3	
005	162b005	X	CMARKER				06/10/08 15:19	1.0	1	
006	162b006	X	DSL_250				06/10/08 17:46	1.0	2	
007	162b007	X	DSL_500				06/10/08 18:14	1.0	4	
008	162b008	X	DSL_100				06/10/08 18:42	1.0	5	
009	162b009	X	MO_500				06/10/08 19:12	1.0	3	
011	162b011	X	PRIMER				06/10/08 21:15	1.0		
012	162b012	X	IB				06/10/08 21:43	1.0		
013	162b013	X	CMARKER				06/10/08 22:11	1.0	1	
014	162b014	CCV	DSL_250				06/10/08 22:39	1.0	2	
015	162b015	CCV	MO_500				06/10/08 23:08	1.0	3	
016	162b016	CCV	JP5_250				06/10/08 23:36	1.0	6	
017	162b017	X	CCV				06/11/08 00:04	1.0	6	
018	162b018	SAMPLE	203696-003	S	Water	138964	06/11/08 00:32	1.0		
019	162b019	SAMPLE	203772-005	S	Water	139080	06/11/08 01:00	1.0		
020	162b020	SAMPLE	203772-006	S	Water	139080	06/11/08 01:28	1.0		
021	162b021	SAMPLE	203772-007	S	Water	139080	06/11/08 01:56	1.0		
022	162b022	SAMPLE	203794-001	S	Water	139080	06/11/08 02:24	1.0		
023	162b023	SAMPLE	203794-002	S	Water	139080	06/11/08 02:52	1.0		
024	162b024	SAMPLE	203794-003	S	Water	139080	06/11/08 03:21	1.0		
025	162b025	SAMPLE	203794-004	S	Water	139080	06/11/08 03:48	1.0		
026	162b026	SAMPLE	203794-005	S	Water	139080	06/11/08 04:16	1.0		
027	162b027	SAMPLE	203794-006	S	Water	139080	06/11/08 04:45	1.0		
028	162b028	CCV	DSL_1000				06/11/08 05:13	1.0	5	
029	162b029	CCV	MO_500				06/11/08 05:41	1.0	3	
030	162b030	CCV	JP5_250				06/11/08 06:09	1.0	6	
031	162b031	X	CCV				06/11/08 06:37	1.0	5	
032	162b032	SAMPLE	203799-001	S	Water	139080	06/11/08 07:10	1.0		
033	162b033	SAMPLE	203799-003	S	Water	139080	06/11/08 07:38	1.0		
034	162b034	SAMPLE	203799-002	S	Water	139080	06/11/08 08:06	1.0		
035	162b035	MS	QC445226	S	Water	138964	06/11/08 08:34	1.0		
036	162b036	MSD	QC445227	S	Water	138964	06/11/08 09:03	1.0		3:BUNKC:12-40=6200
037	162b037	X	CMARKER				06/11/08 10:05	1.0	1	
038	162b038	X	DSL_250				06/11/08 10:33	1.0	2	
039	162b039	CCV	MO_500				06/11/08 11:02	1.0	3	
040	162b040	CCV	DSL_250				06/11/08 18:04	1.0	2	
041	162b041	X	IB				06/11/08 18:37	1.0		
042	162b042	X	IB				06/11/08 21:19	1.0		
043	162b043	CCV	JETA_250				06/11/08 21:48	1.0	7	
044	162b044	BLANK	QC445952	S	Water	139126	06/11/08 22:21	1.0		
045	162b045	BS	QC445953	S	Water	139126	06/11/08 22:50	1.0		
046	162b046	BSD	QC445954	S	Water	139126	06/11/08 23:18	1.0		
047	162b047	SAMPLE	203844-001	S	Water	139126	06/11/08 23:46	1.0		
048	162b048	LCS	QC446149		Soil	139175	06/12/08 00:14	1.0		
049	162b049	MSS	203906-001		Soil	139175	06/12/08 00:42	3.0		3:BUNKC:12-40=6600
050	162b050	MS	QC446150		Soil	139175	06/12/08 01:10	3.0		3:BUNKC:12-40=11000
051	162b051	MSD	QC446151		Soil	139175	06/12/08 01:38	3.0		3:BUNKC:12-40=13000
052	162b052	X	IB				06/12/08 02:06	1.0		
053	162b053	BLANK	QC446148		Soil	139175	06/12/08 02:34	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168234084

Instrument : GC15B
Method : EPA 8015B

Begun : 06/10/08 13:24
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
054	162b054	CMARKER	C8-C50				06/12/08 03:02	1.0	1	
055	162b055	CCV	DSL_1000				06/12/08 03:30	1.0	5	
056	162b056	CCV	MO_500				06/12/08 03:58	1.0	3	
057	162b057	CCV	JETA_250				06/12/08 04:26	1.0	7	
058	162b058	X	CCV				06/12/08 04:55	1.0	5	
059	162b059	X	CCV				06/12/08 05:23	1.0	3	
060	162b060	X	CCV				06/12/08 05:51	1.0	7	
061	162b061	SAMPLE	203905-001		Soil	139175	06/12/08 06:19	1.0		
062	162b062	SAMPLE	203905-002		Soil	139175	06/12/08 06:47	1.0		
063	162b063	SAMPLE	203906-002		Soil	139175	06/12/08 07:15	3.0		13:BUNKC:12-40=36000
064	162b064	SAMPLE	203906-003		Soil	139175	06/12/08 07:43	2.0		
065	162b065	X	IB				06/12/08 08:12	1.0		
066	162b066	BLANK	QC445952		Water	139126	06/12/08 08:40	1.0		
067	162b067	CCV	DSL_250				06/12/08 09:08	1.0	2	
068	162b068	CCV	MO_500				06/12/08 09:36	1.0	3	
069	162b069	X	CCV				06/12/08 10:05	1.0	2	
070	162b070	X	CCV				06/12/08 10:33	1.0	3	
071	162b071	CCV	JETA_250				06/12/08 11:01	1.0	7	
072	162b072	SAMPLE	203836-002	S	Water	139126	06/12/08 11:41	1.0		
073	162b073	SAMPLE	203836-003	S	Water	139126	06/12/08 12:09	1.0		
074	162b074	SAMPLE	203778-001		Water	139126	06/12/08 13:07	1.0		
075	162b075	SAMPLE	203778-002		Water	139126	06/12/08 13:35	1.0		
076	162b076	SAMPLE	203729-005	S	Water	139126	06/12/08 14:03	1.0		
077	162b077	SAMPLE	203729-004	S	Water	139126	06/12/08 14:31	1.0		
078	162b078	SAMPLE	203729-002	S	Water	139126	06/12/08 14:59	1.0		
079	162b079	SAMPLE	203729-003	S	Water	139126	06/12/08 15:27	1.0		
080	162b080	SAMPLE	203728-004	S	Water	139126	06/12/08 15:55	1.0		
081	162b081	SAMPLE	203728-002	S	Water	139126	06/12/08 16:23	1.0		
082	162b082	X	CMARKER				06/12/08 16:51	1.0	1	
083	162b083	CCV	DSL_1000				06/12/08 17:20	1.0	5	
084	162b084	CCV	MO_500				06/12/08 17:47	1.0	3	
085	162b085	CCV	JETA_250				06/12/08 18:16	1.0	7	
086	162b086	CCV	JP5_250				06/12/08 18:44	1.0	6	
087	162b087	CCV	JP8_250				06/12/08 19:12	1.0	8	
088	162b088	BLANK	QC446154	S	Soil	139179	06/12/08 20:32	1.0		
089	162b089	BLANK	QC446154		Soil	139179	06/12/08 21:01	1.0		
090	162b090	LCS	QC446155	S	Soil	139179	06/12/08 21:29	1.0		
091	162b091	MSS	203895-001	S	Soil	139179	06/12/08 21:57	1.0		
092	162b092	X	QC446156	S	Soil	139179	06/12/08 22:25	1.0		
093	162b093	X	QC446157	S	Soil	139179	06/12/08 22:54	1.0		
094	162b094	X	IB				06/12/08 23:22	1.0		
095	162b095	SAMPLE	203893-002		Soil	139179	06/12/08 23:50	1.0		3:BUNKC:12-40=15000
096	162b096	SAMPLE	203893-003		Soil	139179	06/13/08 00:19	1.0		
097	162b097	SAMPLE	203893-004		Soil	139179	06/13/08 00:47	1.0		
098	162b098	SAMPLE	203893-005		Soil	139179	06/13/08 01:15	1.0		
099	162b099	SAMPLE	203893-006		Soil	139179	06/13/08 01:43	1.0		
100	162b100	CCV	DSL_250				06/13/08 02:11	1.0	2	
101	162b101	CCV	MO_500				06/13/08 02:40	1.0	3	
102	162b102	CCV	JP5_250				06/13/08 03:08	1.0	6	
103	162b103	CCV	JP8_250				06/13/08 03:36	1.0	8	
104	162b104	X	CCV				06/13/08 04:04	1.0	2	
105	162b105	X	CCV				06/13/08 04:32	1.0	3	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168234084

Instrument : GC15B
Method : EPA 8015B

Begun : 06/10/08 13:24
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
106	162b106	X	CCV				06/13/08 05:00	1.0	6	
107	162b107	X	CCV				06/13/08 05:28	1.0	8	
108	162b108	SAMPLE	203850-001		Soil	139146	06/13/08 05:56	10.0		3:BUNKC:12-40=14000
109	162b109	SAMPLE	203906-002		Soil	139175	06/13/08 06:24	10.0		3:BUNKC:12-40=12000
110	162b110	X	IB				06/13/08 06:52	1.0		
111	162b111	LCS	QC446040		Soil	139146	06/13/08 07:31	1.0		
112	162b112	SAMPLE	203856-013		Water	139170	06/13/08 07:59	20.0		11:KER:10-16=36000
113	162b113	SAMPLE	203856-005		Soil	139146	06/13/08 08:27	3.0		3:BUNKC:12-40=6300
114	162b114	SAMPLE	203856-013		Water	139170	06/13/08 08:56	200.0		
115	162b115	X	IB				06/13/08 09:24	1.0		
116	162b116	LCS	QC446040	S	Soil	139146	06/13/08 09:52	1.0		
117	162b117	X	BLANK	S	Water	139170	06/13/08 10:20	1.0		
118	162b118	X	CCV				06/13/08 10:53	1.0	7	
119	162b119	CCV	JETA_250				06/13/08 11:23	1.0	7	
120	162b120	BLANK	QC446133	S	Water	139170	06/13/08 11:53	1.0		
121	162b121	X	CMARKER				06/13/08 12:21	1.0	1	
122	162b122	CCV	DSL_1000				06/13/08 12:49	1.0	5	
123	162b123	CCV	MO_500				06/13/08 13:18	1.0	3	
124	162b124	CCV	JP5_250				06/13/08 13:46	1.0	6	
125	162b125	CCV	JETA_250				06/13/08 14:14	1.0	7	
126	162b126	SAMPLE	203926-001		Water	139211	06/13/08 14:42	1.0		
127	162b127	BLANK	QC446292		Water	139211	06/13/08 15:12	1.0		
128	162b128	CCV	DSL_250				06/13/08 15:45	1.0	2	
129	162b129	CCV	MO_500				06/13/08 16:13	1.0	3	
130	162b130	CCV	JP5_250				06/13/08 16:41	1.0	6	
131	162b131	X	BUNK_1250				06/13/08 17:09	1.0	9	
150	162b150	BLANK	QC446292	S	Water	139211	06/13/08 18:21	1.0		
151	162b151	LCS	QC446293	S	Water	139211	06/13/08 18:49	1.0		
152	162b152	MSS	203847-002	S	Water	139211	06/13/08 19:17	1.0		
153	162b153	MS	QC446294	S	Water	139211	06/13/08 19:45	1.0		
154	162b154	MSD	QC446295	S	Water	139211	06/13/08 20:13	1.0		
155	162b155	MS	QC446137	S	Water	139170	06/13/08 20:40	1.0		
156	162b156	MSD	QC446138	S	Water	139170	06/13/08 21:08	1.0		
157	162b157	SAMPLE	203760-002	S	Water	139170	06/13/08 21:36	1.0		
158	162b158	SAMPLE	203759-002	S	Water	139170	06/13/08 22:04	1.0		
159	162b159	SAMPLE	203759-003	S	Water	139170	06/13/08 22:32	1.0		
160	162b160	CCV	DSL_1000				06/13/08 23:00	1.0	5	
161	162b161	CCV	MO_500				06/13/08 23:28	1.0	3	
162	162b162	CCV	JP5_250				06/13/08 23:56	1.0	6	
163	162b163	X	CCV				06/14/08 00:24	1.0	2	
164	162b164	X	CCV				06/14/08 00:52	1.0	3	
165	162b165	X	CCV				06/14/08 01:20	1.0	6	
166	162b166	X					06/14/08 01:47	1.0		
167	162b167	SAMPLE	203859-002	S	Soil	139179	06/14/08 02:15	1.0		
168	162b168	SAMPLE	203889-004		Soil	139179	06/14/08 02:43	1.0		
169	162b169	SAMPLE	203889-002		Soil	139179	06/14/08 03:11	1.0		
170	162b170	SAMPLE	203889-003		Soil	139179	06/14/08 03:39	1.0		
171	162b171	SAMPLE	203859-001	S	Soil	139179	06/14/08 04:07	5.0		6:BUNKC:12-40=28000
172	162b172	X	IB				06/14/08 04:35	1.0		
173	162b173	SAMPLE	203904-002	S	Water	139211	06/14/08 05:03	1.0		
174	162b174	SAMPLE	203904-001	S	Water	139211	06/14/08 05:31	1.0		
175	162b175	SAMPLE	203909-002	S	Water	139211	06/14/08 05:59	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 168234084

Instrument : GC15B
Method : EPA 8015B

Begun : 06/10/08 13:24
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
176	162b176	SAMPLE	203909-001	S	Water	139211	06/14/08 06:27	1.0		
177	162b177	CCV	DSL_250				06/14/08 06:55	1.0	2	
178	162b178	CCV	MO_500				06/14/08 07:23	1.0	3	
179	162b179	CCV	JP5_250				06/14/08 07:51	1.0	6	
180	162b180	X	CCV				06/14/08 08:19	1.0	2	
181	162b181	X	CCV				06/14/08 08:48	1.0	3	
182	162b182	X	CCV				06/14/08 09:16	1.0	6	
183	162b183	SAMPLE	203909-004	S	Water	139211	06/14/08 09:44	1.0		
184	162b184	SAMPLE	203909-003	S	Water	139211	06/14/08 10:12	1.0		
185	162b185	X	CMARKER				06/14/08 10:40	1.0	1	
186	162b186	CCV	DSL_1000				06/14/08 11:08	1.0	5	
187	162b187	CCV	MO_500				06/14/08 11:36	1.0	3	
188	162b188	X	CCV				06/14/08 12:04	1.0	5	
189	162b189	X	CCV				06/14/08 12:32	1.0	3	

ATL 06/11/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 13 through 30.

ATL 06/12/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 31 through 71.

ATL 06/13/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 72 through 127.

ATL 06/13/08 : RR vials# 88 to 99 due to 11 samples in bracket.

DNT 06/15/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 128 through 131.

DNT 06/15/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 150 through 189.

DNT 06/15/08 : Samples loaded from 132 to 149 were never set to run.

Standards used: 1=S9468 2=S8680 3=S8962 4=S8681 5=S8682 6=S9357 7=S8960 8=S8117 9=S9025

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178033862

Instrument : GC17A
Method : EPA 8015B

Begun : 01/23/08 12:22
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	023a001	X	PRIMER			01/23/08 12:22	1.0	
002	023a002	X	IB			01/23/08 12:49	1.0	
003	023a003	X	CMARKER			01/23/08 13:16	1.0	1
004	023a004	CCV	DSL_500			01/23/08 13:44	1.0	2
005	023a005	CCV	MO_500			01/23/08 14:11	1.0	3
006	023a006	IB	CALIB			01/23/08 15:11	1.0	
007	023a007	CMARKER	C8-C50			01/23/08 15:39	1.0	4
008	023a008	IB	CALIB			01/23/08 16:06	1.0	
009	023a009	ICAL	DSL_10			01/23/08 16:34	1.0	5
010	023a010	ICAL	DSL_100			01/23/08 17:01	1.0	6
011	023a011	ICAL	DSL_500			01/23/08 17:29	1.0	7
012	023a012	ICAL	DSL_1000			01/23/08 17:56	1.0	8
013	023a013	ICAL	DSL_5000			01/23/08 18:23	1.0	9
014	023a014	ICAL	DSL_7500			01/23/08 18:51	1.0	10
015	023a015	IB	CALIB			01/23/08 19:18	1.0	
016	023a016	ICV	DSL_500			01/23/08 19:46	1.0	11
017	023a017	X	DSL_500			01/23/08 20:13	1.0	11
018	023a018	IB	CALIB			01/23/08 20:40	1.0	

Analyst: JDG Date: 01/24/08 Reviewer: LH Date: 01/24/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S4049 5=S7961 6=S7962 7=S7963 8=S7964 9=S7960 10=S7965 11=S8069

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178035189

Instrument : GC17A
Method : EPA 8015B

Begun : 01/24/08 10:29
SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	024a001	X	PRIMER			01/24/08 10:29	1.0		
002	024a002	X	IB			01/24/08 10:56	1.0		
003	024a003	X	CMARKER			01/24/08 11:24	1.0	1	
004	024a004	CCV	DSL_500			01/24/08 11:52	1.0	2	
005	024a005	CCV	MO_500			01/24/08 12:19	1.0	3	
006	024a006	IB	CALIB			01/24/08 13:09	1.0		
007	024a007	ICAL	HEX_5			01/24/08 13:37	1.0	4	
008	024a008	ICAL	HEX_10			01/24/08 14:04	1.0	5	
009	024a009	ICAL	HEX_25			01/24/08 14:32	1.0	6	
010	024a010	ICAL	HEX_50			01/24/08 14:59	1.0	7	
011	024a011	ICAL	HEX_100			01/24/08 15:26	1.0	8	
012	024a012	ICAL	HEX_200			01/24/08 15:54	1.0	9	
013	024a013	IB	CALIB			01/24/08 16:21	1.0		
014	024a014	ICAL	MO_50			01/24/08 16:49	1.0	10	
015	024a015	X	MO_250			01/24/08 17:16	1.0	11	
016	024a016	ICAL	MO_500			01/24/08 17:44	1.0	12	
017	024a017	ICAL	MO_1000			01/24/08 18:11	1.0	13	
018	024a018	ICAL	MO_5000			01/24/08 18:38	1.0	14	
019	024a019	ICAL	MO_7500			01/24/08 19:06	1.0	15	
020	024a020	IB	CALIB			01/24/08 19:34	1.0		
021	024a021	X	IB			01/25/08 11:21	1.0		
022	024a022	ICAL	MO_250			01/25/08 12:03	1.0	11	

Analyst: JDG Date: 01/25/08 Reviewer: LH Date: 01/25/08

Standards used: 1=S8067 2=S8078 3=S8071 4=S8093 5=S8094 6=S8095 7=S8096 8=S8097 9=S8098 10=S6848 11=S6849 12=S6850 13=S6851 14=S6846 15=S6847

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178042195

Instrument : GC17A
Method : EPA 8015B

Begun : 01/29/08 07:15
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	029a001	X	PRIMER				01/29/08 07:15	1.0		
002	029a002	X	IB				01/29/08 07:42	1.0		
003	029a003	X	CMARKER				01/29/08 08:09	1.0	1	
004	029a004	CCV	DSL_500				01/29/08 08:36	1.0	2	
005	029a005	CCV	MO_500				01/29/08 09:04	1.0	3	
006	029a006	SAMPLE	200786-018	S	Soil	134145	01/29/08 09:31	10.0		1:BUNKC:12-40=5300
007	029a007	SAMPLE	200786-010	S	Soil	134145	01/29/08 09:59	20.0		
008	029a008	X	IB				01/29/08 10:26	1.0		
009	029a009	SAMPLE	200690-008	S	Water	134036	01/29/08 10:53	1.0		
010	029a010	CCV	DSL_1000				01/29/08 12:07	1.0	4	
011	029a011	CCV	MO_500				01/29/08 12:34	1.0	3	
012	029a012	X	IB				01/29/08 13:01	1.0		
013	029a013	X	CMARKER				01/29/08 13:29	1.0	1	
014	029a014	IB	CALIB				01/29/08 13:56	1.0		
015	029a015	ICAL	JP5_10				01/29/08 14:23	1.0	5	
016	029a016	ICAL	JP5_100				01/29/08 14:50	1.0	6	
017	029a017	ICAL	JP5_500				01/29/08 15:18	1.0	7	
018	029a018	ICAL	JP5_1500				01/29/08 15:45	1.0	8	
019	029a019	ICAL	JP5_5000				01/29/08 16:13	1.0	9	
020	029a020	IB	CALIB				01/29/08 16:40	1.0		
021	029a021	ICAL	OTP_5				01/29/08 17:08	1.0	10	
022	029a022	ICAL	OTP_10				01/29/08 17:35	1.0	11	
023	029a023	ICAL	OTP_25				01/29/08 18:03	1.0	12	
024	029a024	ICAL	OTP_50				01/29/08 18:30	1.0	13	
025	029a025	ICAL	OTP_100				01/29/08 18:57	1.0	14	
026	029a026	ICAL	OTP_200				01/29/08 19:24	1.0	15	
027	029a027	X	IB				01/29/08 19:52	1.0		

Standards used: 1=S8067 2=S8078 3=S8071 4=S8079 5=S7352 6=S7353 7=S7354 8=S7355 9=S7351 10=S8176 11=S8177 12=S8178 13=S8179 14=S8180 15=S8181

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178154945

Instrument : GC17A
Method : EPA 8015B

Begun . : 04/16/08 14:25
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	107a001	X	IB				04/16/08 14:25	1.0		
002	107a002	X	IB				04/16/08 14:52	1.0		
003	107a003	X	CMARKER				04/16/08 15:19	1.0	1	
004	107a004	CCV	DSL_500				04/16/08 15:47	1.0	2	
005	107a005	CCV	MO_500				04/16/08 16:14	1.0	3	
006	107a006	SAMPLE	202384-007	S	Soil	136951	04/16/08 17:44	1.0		
007	107a007	SAMPLE	202471-001		Soil	136951	04/16/08 18:11	1.0		
008	107a008	CCV	JP5_250				04/16/08 19:44	1.0	4	
009	107a009	BLANK	QC437025	S	Soil	136957	04/16/08 20:12	1.0		
010	107a010	LCS	QC437026	S	Soil	136957	04/16/08 20:39	1.0		
011	107a011	MSS	202384-011	S	Soil	136957	04/16/08 21:07	1.0		
012	107a012	MS	QC437027	S	Soil	136957	04/16/08 21:34	1.0		
013	107a013	MSD	QC437028	S	Soil	136957	04/16/08 22:02	1.0		
014	107a014	SAMPLE	202384-010	S	Soil	136957	04/16/08 22:30	1.0		
015	107a015	SAMPLE	202528-001	S	Soil	136957	04/16/08 22:57	1.0		
[illegible]	107a016	SAMPLE	202528-004	S	Soil	136957	04/16/08 23:25	1.0		
017	107a017	CCV	DSL_1000				04/16/08 23:52	1.0	5	
018	107a018	CCV	MO_500				04/17/08 00:20	1.0	3	
019	107a019	CCV	JP5_250				04/17/08 00:47	1.0	4	
020	107a020	X	CCV				04/17/08 01:15	1.0	5	
021	107a021	X	CCV				04/17/08 01:42	1.0	3	
022	107a022	X	CCV				04/17/08 02:10	1.0	4	
023	107a023	BLANK	QC437219	S	Soil	137002	04/17/08 02:37	1.0		
024	107a024	MSS	202555-002	S	Soil	137002	04/17/08 03:05	3.0		5:BUNKC:12-40=27000
025	107a025	MS	QC437221	S	Soil	137002	04/17/08 03:32	3.0		6:BUNKC:12-40=26000
026	107a026	MSD	QC437222	S	Soil	137002	04/17/08 03:59	3.0		5:BUNKC:12-40=23000
027	107a027	SAMPLE	202535-001	S	Soil	137002	04/17/08 04:27	1.0		2:BUNKC:12-40=7600
028	107a028	SAMPLE	202535-002	S	Soil	137002	04/17/08 04:55	1.0		5:BUNKC:12-40=17000
029	107a029	SAMPLE	202555-001	S	Soil	137002	04/17/08 05:22	3.0		
030	107a030	SAMPLE	202555-003	S	Soil	137002	04/17/08 05:49	3.0		2:BUNKC:12-40=8400
031	107a031	SAMPLE	202555-004	S	Soil	137002	04/17/08 06:16	2.0		7:BUNKC:12-40=25000
032	107a032	X	IB				04/17/08 06:43	1.0		
033	107a033	LCS	QC437220	S	Soil	137002	04/17/08 07:11	1.0		
034	107a034	X	CMARKER				04/17/08 07:38	1.0	1	
035	107a035	CCV	DSL_500				04/17/08 08:05	1.0	2	
036	107a036	CCV	MO_500				04/17/08 08:33	1.0	3	
037	107a037	SAMPLE	202619-023	S	Soil	137100	04/17/08 09:07	1.0		
038	107a038	SAMPLE	202619-024	S	Soil	137100	04/17/08 09:34	25.0		
039	107a039	SAMPLE	202625-003	S	Soil	137100	04/17/08 10:02	50.0		3:BUNKC:12-40=15000
040	107a040	X	IB				04/17/08 10:29	1.0		
041	107a041	LCS	QC437113	S	Water	136975	04/17/08 10:57	1.0		
042	107a042	CCV	DSL_250				04/17/08 11:24	1.0	6	
043	107a043	CCV	MO_500				04/17/08 11:52	1.0	3	
044	107a044	SAMPLE	202523-002	S	Soil	137002	04/17/08 12:22	1.0		
045	107a045	SAMPLE	202566-001	S	Soil	137002	04/17/08 12:50	1.0		
046	107a046	SAMPLE	202566-002	S	Soil	137002	04/17/08 13:17	1.0		
047	107a047	SAMPLE	202566-003	S	Soil	137002	04/17/08 13:44	1.0		
048	107a048	SAMPLE	202566-004	S	Soil	137002	04/17/08 14:12	1.0		
049	107a049	SAMPLE	202566-005	S	Soil	137002	04/17/08 14:39	1.0		
050	107a050	SAMPLE	202523-001	S	Soil	137002	04/17/08 15:07	1.0		
051	107a051	SAMPLE	202523-003	S	Soil	137002	04/17/08 15:34	1.0		
052	107a052	SAMPLE	202555-005	S	Soil	137002	04/17/08 16:01	20.0		8:BUNKC:12-40=25000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178154945

Instrument : GC17A
Method : EPA 8015B

Begun : 04/16/08 14:25
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	107a053	X	IB				04/17/08 16:28	1.0		
054	107a054	X			Soil	137002	04/17/08 16:56	1.0		
055	107a055	X	CMARKER				04/17/08 17:23	1.0	1	
056	107a056	X	DSL_1000				04/17/08 17:50	1.0	5	
057	107a057	X	MO_500				04/17/08 18:17	1.0	3	
058	107a058	CCV	DSL_1000				04/17/08 18:49	1.0	5	
059	107a059	CCV	MO_500				04/17/08 19:17	1.0	3	
060	107a060	IB	CALIB				04/17/08 20:38	1.0		
061	107a061	ICAL	HEX_5				04/17/08 21:05	1.0	7	
062	107a062	ICAL	HEX_10				04/17/08 21:32	1.0	8	
063	107a063	ICAL	HEX_25				04/17/08 21:59	1.0	9	
064	107a064	ICAL	HEX_50				04/17/08 22:27	1.0	10	
065	107a065	ICAL	HEX_100				04/17/08 22:54	1.0	11	
066	107a066	ICAL	HEX_200				04/17/08 23:22	1.0	12	
067	107a067	IB	CALIB				04/17/08 23:49	1.0		
068	107a068	X	IB				04/18/08 00:17	1.0		
069	107a069	X	CMARKER				04/18/08 00:44	1.0	1	
070	107a070	CCV	DSL_500				04/18/08 01:11	1.0	2	
071	107a071	CCV	MO_500				04/18/08 01:38	1.0	3	
072	107a072	X	DSL_500				04/18/08 02:06	1.0	2	
073	107a073	X	MO_500				04/18/08 02:33	1.0	3	
074	107a074	SAMPLE	202585-010	S	Soil	137053	04/18/08 03:01	1.0		
075	107a075	SAMPLE	202585-011	S	Soil	137053	04/18/08 03:28	20.0		2:BUNKC:12-40=12000
076	107a076	SAMPLE	202585-012	S	Soil	137053	04/18/08 03:55	25.0		4:BUNKC:12-40=20000
077	107a077	X	IB				04/18/08 04:23	1.0		
078	107a078	SAMPLE	202563-003		Soil	137002	04/18/08 04:50	1.0		
079	107a079	SAMPLE	202563-002		Soil	137002	04/18/08 05:17	1.0		
080	107a080	SAMPLE	202563-004		Soil	137002	04/18/08 05:45	1.0		2:BUNKC:12-40=6400
081	107a081	SAMPLE	202563-005		Soil	137002	04/18/08 06:12	1.0		
082	107a082	X	IB				04/18/08 06:39	1.0		
083	107a083	MS	QC437434	S	Soil	137053	04/18/08 07:07	1.0		2:BUNKC:12-40=9700
084	107a084	MSD	QC437435	S	Soil	137053	04/18/08 07:34	1.0		2:BUNKC:12-40=8500
085	107a085	X	IB				04/18/08 08:01	1.0		
086	107a086	BLANK	QC437432		Soil	137053	04/18/08 08:29	1.0		
087	107a087	CCV	DSL_250				04/18/08 08:56	1.0	6	
088	107a088	CCV	MO_500				04/18/08 09:23	1.0	3	
089	107a089	X	DSL_250				04/18/08 09:51	1.0	6	
090	107a090	X	MO_500				04/18/08 10:18	1.0	3	
091	107a091	SAMPLE	202538-001		Water	137045	04/18/08 11:47	1.0		
092	107a092	SAMPLE	202570-006		Water	137045	04/18/08 12:15	1.0		
093	107a093	SAMPLE	202570-007		Water	137045	04/18/08 12:42	1.0		
094	107a094	SAMPLE	202570-005		Soil	137053	04/18/08 13:09	1.0		
095	107a095	X	CMARKER				04/18/08 13:36	1.0	1	
096	107a096	X	CCV				04/18/08 14:03	1.0	5	
097	107a097	CCV	MO_500				04/18/08 14:31	1.0	3	
098	107a098	CCV	DSL_1000				04/18/08 14:58	1.0	5	

ATL 04/17/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 31.

Standards used: 1=S8590 2=S8681 3=S8731 4=S8931 5=S8682 6=S8077 7=S8093 8=S8094 9=S8095 10=S8096 11=S8097 12=S8098

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178237144

Instrument : GC17A
Method : EPA 8015B

Begun : 06/12/08 16:24
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	165a001	X	PRIMER				06/12/08 16:24	1.0		
002	165a002	X	IB				06/12/08 16:51	1.0		
003	165a003	X	CMARKER				06/12/08 17:18	1.0	1	
004	165a004	CCV	DSL_250				06/12/08 17:45	1.0	2	
005	165a005	CCV	MO_500				06/12/08 18:13	1.0	3	
006	165a006	CCV	JP5_250				06/12/08 18:41	1.0	4	
007	165a007	CCV	JET_250				06/12/08 19:08	1.0	5	
008	165a008	LCS	QC446040	S	Soil	139146	06/12/08 20:44	1.0		
009	165a009	SAMPLE	203728-003	S	Water	139126	06/12/08 21:11	1.0		
010	165a010	BLANK	QC446133	S	Water	139170	06/12/08 21:39	1.0		
011	165a011	BLANK	QC446133		Water	139170	06/12/08 22:06	1.0		
012	165a012	LCS	QC446134	S	Water	139170	06/12/08 22:33	1.0		
013	165a013	MSS	203696-016	S	Water	139170	06/12/08 23:01	1.0		
014	165a014	MS	QC446135	S	Water	139170	06/12/08 23:29	1.0		
015	165a015	MSD	QC446136	S	Water	139170	06/12/08 23:56	1.0		
016	165a016	MSS	203855-002	S	Water	139170	06/13/08 00:24	1.0		
017	165a017	SAMPLE	203856-013		Water	139170	06/13/08 00:51	1.0		14:JP8:10-16=100000
018	165a018	CCV	DSL_1000				06/13/08 01:19	1.0	6	
019	165a019	CCV	MO_500				06/13/08 01:46	1.0	3	
020	165a020	CCV	JP5_250				06/13/08 02:14	1.0	4	
021	165a021	CCV	JET_250				06/13/08 02:41	1.0	5	
022	165a022	X	CCV				06/13/08 03:09	1.0	6	
023	165a023	X	CCV				06/13/08 03:36	1.0	3	
024	165a024	X	CCV				06/13/08 04:04	1.0	4	
025	165a025	X	CCV				06/13/08 04:31	1.0	5	
026	165a026	BLANK	QC446296		Soil	139212	06/13/08 04:58	1.0		
027	165a027	LCS	QC446297		Soil	139212	06/13/08 05:26	1.0		
028	165a028	LCS	QC446298		Soil	139212	06/13/08 05:53	1.0		
029	165a029	SAMPLE	203910-007		Soil	139212	06/13/08 06:21	1.0		
030	165a030	SAMPLE	203910-006		Soil	139212	06/13/08 06:48	3.0		
031	165a031	SAMPLE	203948-002		Soil	139212	06/13/08 07:15	2.0		
032	165a032	X	IB				06/13/08 07:43	1.0		
033	165a033	SAMPLE	203948-001		Soil	139212	06/13/08 08:10	1.0		
034	165a034	X	CMARKER				06/13/08 08:38	1.0	1	
035	165a035	CCV	DSL_250				06/13/08 09:05	1.0	2	
036	165a036	CCV	MO_500				06/13/08 09:32	1.0	3	
037	165a037	CCV	OTP_50				06/13/08 10:00	1.0	7	
038	165a038	BLANK	QC445776		Soil	139091	06/13/08 10:28	1.0		
039	165a039	LCS	QC445779		Soil	139091	06/13/08 10:55	1.0		
040	165a040	LCS	QC445780		Soil	139091	06/13/08 11:23	1.0		
041	165a041	MS	QC445777		Soil	139091	06/13/08 11:50	1.0		
042	165a042	MSD	QC445778		Soil	139091	06/13/08 12:18	1.0		
044	165a044	MSS	203918-004		Soil	139212	06/13/08 12:45	1.0		
045	165a045	MS	QC446299		Soil	139212	06/13/08 13:13	1.0		
046	165a046	MSD	QC446300		Soil	139212	06/13/08 13:40	1.0		
047	165a047	LCS	QC446293		Water	139211	06/13/08 14:08	1.0		
048	165a048	X	BLANK		Water	139211	06/13/08 14:35	1.0		
049	165a049	CCV	DSL_1000				06/13/08 15:12	1.0	6	
050	165a050	CCV	MO_500				06/13/08 15:40	1.0	3	
051	165a051	CCV	OTP_50				06/13/08 16:07	1.0	7	
052	165a052	SAMPLE	203918-002		Soil	139212	06/13/08 16:50	1.0		
053	165a053	SAMPLE	203918-003		Soil	139212	06/13/08 17:18	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178237144

Instrument : GC17A
Method : EPA 8015B

Begun : 06/12/08 16:24
SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
054	165a054	SAMPLE	203816-011		Soil	139091	06/13/08 17:45	1.0		
055	165a055	MSS	203816-013		Soil	139091	06/13/08 18:12	1.0		
056	165a056	X	IB				06/13/08 18:40	1.0		
057	165a057	SAMPLE	203816-009		Soil	139091	06/13/08 19:07	1.0		
058	165a058	SAMPLE	203816-001		Soil	139091	06/13/08 19:35	1.0		
059	165a059	SAMPLE	203816-002		Soil	139091	06/13/08 20:02	1.0		
060	165a060	SAMPLE	203816-003		Soil	139091	06/13/08 20:30	1.0		
061	165a061	SAMPLE	203816-010		Soil	139091	06/13/08 20:57	1.0		
062	165a062	SAMPLE	203816-007		Soil	139091	06/13/08 21:24	1.0		
063	165a063	CCV	DSL_250				06/13/08 21:52	1.0	2	
064	165a064	CCV	MO_500				06/13/08 22:20	1.0	3	
065	165a065	CCV	OTP_50				06/13/08 22:47	1.0	7	
066	165a066	X	CCV				06/13/08 23:14	1.0	2	
067	165a067	X	CCV				06/13/08 23:42	1.0	3	
068	165a068	X	CCV				06/14/08 00:09	1.0	7	
069	165a069	CCV	JET_250				06/14/08 00:36	1.0	5	
070	165a070	X	CCV				06/14/08 01:04	1.0	5	
071	165a071	SAMPLE	203816-006		Soil	139091	06/14/08 01:31	1.0		
072	165a072	SAMPLE	203816-004		Soil	139091	06/14/08 01:58	1.0		
073	165a073	SAMPLE	203894-006	S	Water	139170	06/14/08 02:25	1.0		
074	165a074	X	IB				06/14/08 02:53	1.0		
075	165a075	BLANK	QC446475		Water	139252	06/14/08 03:20	1.0		
076	165a076	BLANK	QC446476		Water	139252	06/14/08 03:47	1.0		
077	165a077	BLANK	QC446477		Water	139252	06/14/08 04:14	1.0		
078	165a078	BLANK	QC446478		Water	139252	06/14/08 04:42	1.0		
079	165a079	SAMPLE	203847-003	S	Water	139211	06/14/08 05:09	1.0		
080	165a080	SAMPLE	203847-004	S	Water	139211	06/14/08 05:36	1.0		
081	165a081	SAMPLE	203759-004	S	Water	139170	06/14/08 06:04	1.0		
082	165a082	X	CMARKER				06/14/08 06:32	1.0	1	
083	165a083	CCV	DSL_250				06/14/08 06:59	1.0	2	
084	165a084	CCV	MO_500				06/14/08 07:26	1.0	3	
085	165a085	CCV	OTP_50				06/14/08 07:54	1.0	7	
086	165a086	CCV	JET_250				06/14/08 08:21	1.0	5	
087	165a087	X	CCV				06/14/08 08:48	1.0	2	
088	165a088	X	CCV				06/14/08 09:16	1.0	3	
089	165a089	X	CCV				06/14/08 09:44	1.0	7	
090	165a090	X	CCV				06/14/08 10:12	1.0	5	

ATL 06/13/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 49.

DNT 06/15/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 50 through 90.

Standards used: 1=S9468 2=S8680 3=S8962 4=S9357 5=S8960 6=S8682 7=S8227

SAMPLE PREPARATION SUMMARY

Batch # : 138964
Started By : ECB
Method : 3520C
Spike #1 ID : S9316

Prep Date : 05-JUN-2008
SOP Version : TEH_3520_rv12
Spike #2 ID : S9315

Analysis : TEH
Finished By : AJC
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
203648-001		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203648-002		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-001		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-002		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-003		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-004		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-005		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-006		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-007		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-008		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-009		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-010		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-011		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-012		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-013		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203696-014		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	mss
203696-015		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203714-001		Water	500	2.5	1	0.005	7	.5				TEHM	
203714-002		Water	500	2.5	1	0.005	7	.5				TEHM	
203724-001		Water	500	2.5	1	0.005	4	.5			3630C	TEHM	
QC445224	BLANK	Water	500	2.5	1	0.005		.5			3630C		
QC445225	LCS	Water	500	2.5	1	0.005		.5	.5		3630C		
QC445226	MS	Water	500	2.5	1	0.005	7	.5	.5		3630C		See comment 1 below
QC445227	MSD	Water	500	2.5	1	0.005	7	.5	.5		3630C		

Comment 1: lost ~40 ml of sample due to hole in receiver

Analyst: ATL Date: 06/11/08 Reviewer: EAH Date: 06/11/08

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TEH (8015) Water Prep Log Curtis & Tompkins, Ltd.

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LIMS Batch No: 138964
LIMS Analysis: TEH/M
Date Extracted: 6/5/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☐ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☑ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
203648-001	I	500	7	2.5	X	
-002	↓	↓	↓	2.5	↓	
203714-001	G	↓	↓	2.5	↓	
-002	↓	↓	↓	↓	↓	
203724-001	E	↓	4	↓	X	
203696-001	A	↓	7	↓	X	
-002	↓	↓	↓	↓	↓	
-003	↓	↓	↓	↓	↓	
-004	↓	↓	↓	↓	↓	
-005	↓	↓	↓	↓	↓	
-006	↓	↓	↓	↓	↓	
-007	↓	↓	↓	↓	↓	
-008	↓	↓	↓	↓	↓	
-009	↓	↓	↓	↓	↓	
-010	↓	↓	↓	↓	↓	
-011	↓	↓	↓	↓	↓	
-012	↓	↓	↓	↓	↓	
-013	↓	↓	↓	↓	↓	
-014	↓	↓	↓	↓	↓	MSS
-015	↓	↓	↓	↓	↓	
MB 206445	NA	↓	NA	↓	↓	
LCS 25	↓	↓	↓	↓	↓	
MS 26	C	↓	7	↓	↓	LOST 40mL. HOLE IN RECEIVER
MSD 27	B	↓	↓	↓	↓	

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S9316E	GCB 6/5/08
0.5 mL of TEH_SP was added to all spikes	S9315B	↓
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS075640	↓
☐ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM 46072	↓
Extraction Start Time:	1700	↓
Extraction End Time:	1130	DDC 6/6/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	AJC 6/8/08
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	FM47281748	↓
Concentrated to final volume at temperature (degrees C)	100	↓
Relinquished to TEH Department	✓	↓

6/5/08
Extraction Chemist **Date**

Contined from Page ___
Continued on Page ___

6/9/08
Reviewed by **Date**

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: AJC
Cleanup Date: 6/8/08

Benchbook # **BK 2719**
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Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
203648-001	138964	1.0	1.0	
-002		1.0	1.0	
203696-001		1.0	1.0	
-002		1.0	1.0	
-003		0.5	0.5	
-004		1.0	1.0	
-005		1.0	1.0	
-006		1.0	1.0	
-007		1.0	1.0	
-008		1.0	1.0	
-009		1.0	1.0	
-010		1.0	1.0	
-011		1.0	1.0	
-012		1.0	1.0	
-013		1.0	1.0	
-014		1.0	1.0	MSS
-015		1.0	1.0	
~~203700~~ AJC 6/8/08				
203724-001		1.0	1.0	
MB QC445224		1.0	1.0	
LCS 5		1.0	1.0	
MS 6		1.0	1.0	
MSD 7		1.0	1.0	

6/9/08

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	NA	AJC 6/8/08
☑ Extracts were cleaned up using 1.0 g cartridges	SP9877	
Extracts were eluted with 4.0 mL CH_2Cl_2	BH8132	
Concentrated to volumes as noted above	✓	

6/8/08
Extraction Chemist / Date

Continued from page —
Continued on page —

6/7/08
Reviewed by / Date

SAMPLE PREPARATION SUMMARY

Batch # : 139170
Started By : SFL
Method : 3520C
Spike #1 ID : S9316

Prep Date : 11-JUN-2008
Spike #2 ID : S9441

Analysis : TEHM
Finished By : AAE
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
203696-016		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	mss;alias 203696-014; re-x
203759-002		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203759-003		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203759-004		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203760-002		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203760-003		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203760-004		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
203855-002		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	mss
203856-013		Water	500	5	1	0.01	7	.5				TEHM	See comment 1 below
203894-006		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
QC446133	BLANK	Water	500	2.5	1	0.005		.5			3630C		
QC446134	LCS	Water	500	2.5	1	0.005		.5	.5		3630C		
QC446135	MS	Water	500	2.5	1	0.005	7	.5	.5		3630C		
QC446136	MSD	Water	500	2.5	1	0.005	7	.5	.5		3630C		
QC446137	MS	Water	500	2.5	1	0.005	7	.5	.5		3630C		
QC446138	MSD	Water	500	2.5	1	0.005	7	.5	.5		3630C		

Comment 1: smelly sample;oily;sample would not concentrate down to final volume of 2.5ml

JDG 06/13/08 : Documents have been checked are are correct. Batch still needs 2nd set of MS/MSD and MSS.

CP 06/16/08 : Batch complete.

Analyst: DNT Date: 06/15/08 Reviewer: CP Date: 06/16/08

TEH (8015) Water Prep Log Curtis & Tompkins, Ltd.

Page 5 BK2732

LIMS Batch No: 139170
LIMS Analysis: TEHM
Date Extracted: 6/11/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☑ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☑ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
203696-016	C	500	7	AAE 6/12/08 ~~2.5~~ 2.5	X	MSS; AHAS 203696-014 SPC X
203759-002	H					
03	I					
04	H					
203760-002						
03						
04	I					
203855-002	AV					MSS
203856-013	D			5.0		SHELLY SAMPLE; OILY; would not concentrate down to 2.5 mL
203894-006	T			2.5	X	~~T~~ SR 6/12/08
~~2030~~ MB BC 446133	N/A		N/A			
LCS BC 446134						
MS 35			7			AHAS 203 696 ~~-016~~ ~~-014~~ A (alias of 203696-014) RFW 6/13/08
MSD 36						B
MS 37						203855-002 BB
MSD 38				6/12/08 RFW		

RFW 6/13/08

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	593166	SR 6/11/08
0.5 mL of TEH_SP was added to all spikes	594418A SR 6/11/08	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS075640	
☑ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM148137	
Extraction Start Time:	1815	
Extraction End Time:	1230	DDC 6/12/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	AAE 6/12/08
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM47281748	
Concentrated to final volume at temperature (degrees C)	100°	
Relinquished to TEH Department	✓	

6/11/08
Extraction Chemist **Date**

Contined from Page ___
Continued on Page ___

6/13/08
Reviewed by **Date**

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: AAE
Cleanup Date: 6/12/08

Benchbook # **BK 2719**
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Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
203696-016	139170	1.0	1.0	MSS
203759-002				
003				
004				
203760-002				
003				
004				
203855-002				MSS
203894-006				
MB QC446133				
LCS 134				
MS 135				203696-016
MSD 136				
MS 137				203855-002
MSD 138				
				RFW 6/13/08

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	N/A	AAE 6/12/08
☒ Extracts were cleaned up using 1.0 g cartridges	SP9877	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM48132	
Concentrated to volumes as noted above	✓	

Aaron Ellis 6/12/08
Extraction Chemist / Date

Continued from page /
Continued on page /

6/13/08
Reviewed by / Date

Innovative Technical Solutions, Inc.

Letter of Transmittal

To:	Ms. Frances Fadullon, RPM	**From:**	Ken Leonard
Company:	BRAC PMO WEST 1455 Frazee Road, Suite 900 San Diego, CA 92108-4310 (619) 532-0935	**Date:**	12/12/08
		Project #	07033.0015 DCN# ITSI-6403-0015-0028 DCN# ITSI-6403-0015-0030 DCN# ITSI-6403-0015-0031

☐ For Review & Comment ☐ Approved As Submitted ☐ Resubmit _____ Copies for Approval
☐ For Approval ☐ Approved As Noted ☐ Return _____ Corrected Prints
☒ For Information ☐ Return for Corrections ☐ Other:

No.	Copies	Date	Title
1	1	12/12/08	Alameda Basewide Summer Non-Routine Groundwater Sampling Event: AOC 23, CAA-6, and IR Site 32, November 2008, Alameda Point, Alameda, California

Please call me at (925)-946-3263 if you have any questions regarding this submittal. Thank you.
Ken Leonard